



Confidence in Connection

2020/2021 General Catalog

ELECTRICAL CONNECTION TECHNOLOGY COMPONENTS



The Company

We make confidence;

Raad offers confidence to his clientele, and this is not treated as a single slogan but as our aim and belief.

Over 40 years of experience and endeavor has helped us to design, expand, produce, and vend a vast range of products, from terminal blocks to measurement equipment, and from wiring ducts and Din rails to other components for electrical connection technology, and thus meeting our customers' needs quite properly.

Product approvals create trust;

Raad's products' quality certificates are the proof of high quality of these products. Raad Products have attained certificates from institutions like, VDE, DEKRA (KEMA) and EAC guaranteeing the products compatibility with international standards, and are suitable for potentially explosive atmospheres (ATEX Directive).

RAAD global market;

Replying to clientele's needs as well as supporting them is one of our commitments. Raad as the pioneer and leading producer in the Iranian domestic market and Middle East, and thanks to his 40 representatives and sales agents, has had efficient exports to global markets as well.

Raad Manufacturing Co. reserves the right to make changes to any information given in this catalog regarding technical progresses.

Please contact us for update technical information and new prices.

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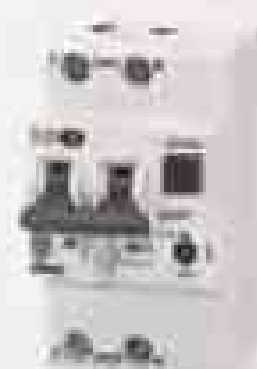
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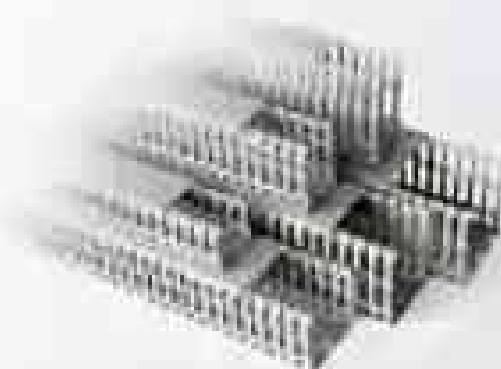


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Universal
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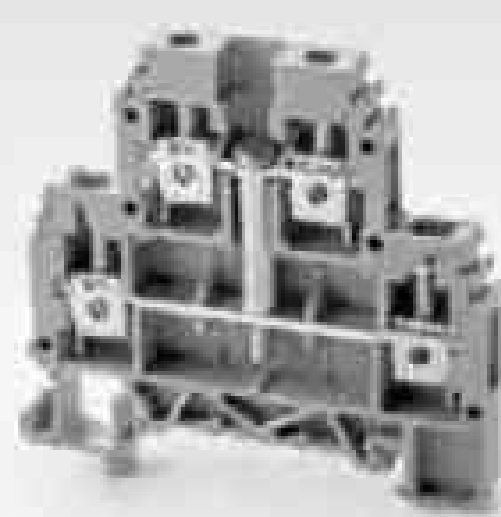
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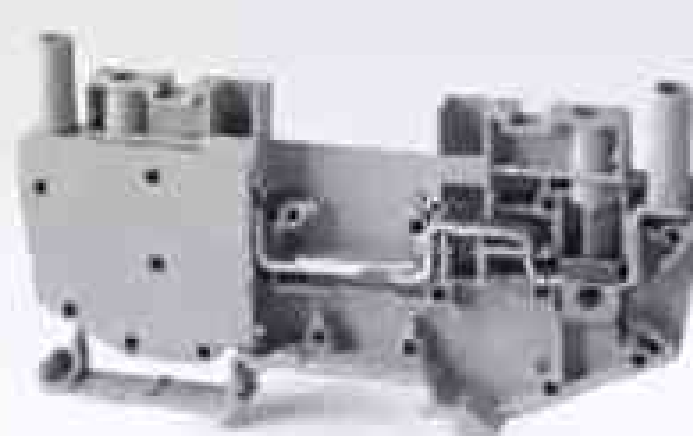


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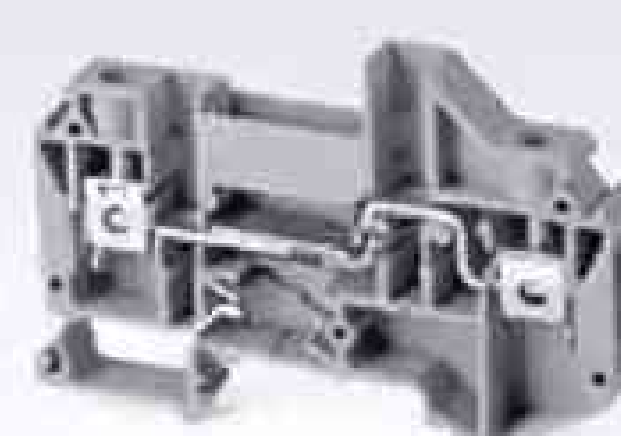
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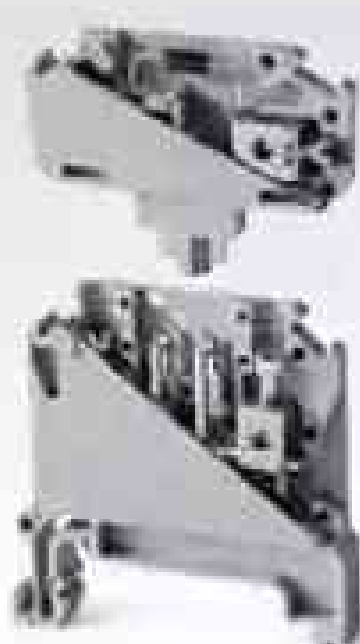
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Strip Series
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Splicing
Connector



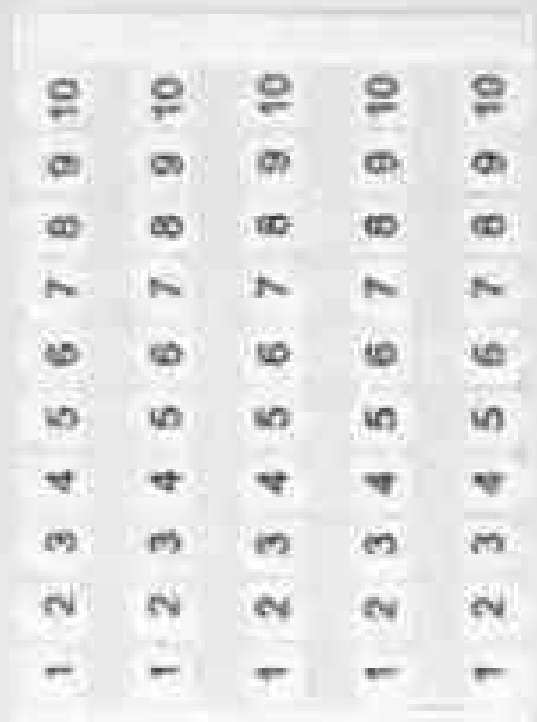
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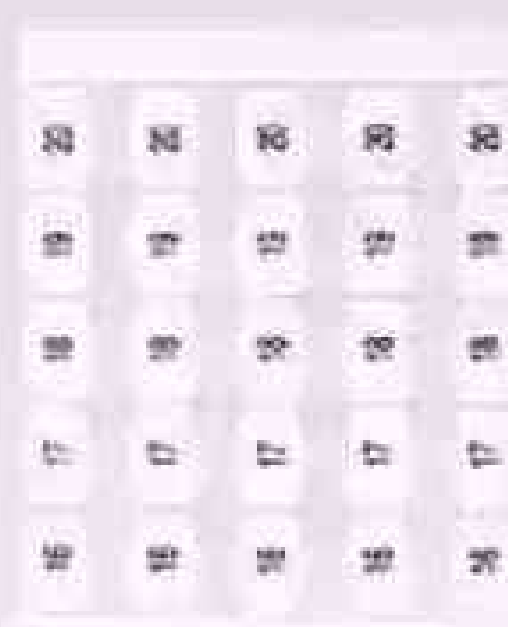
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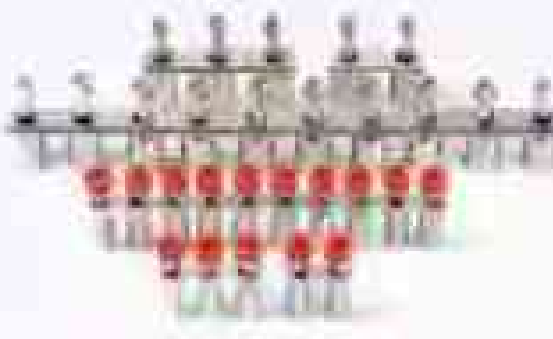
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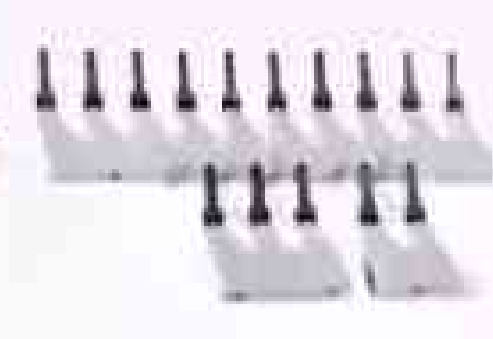
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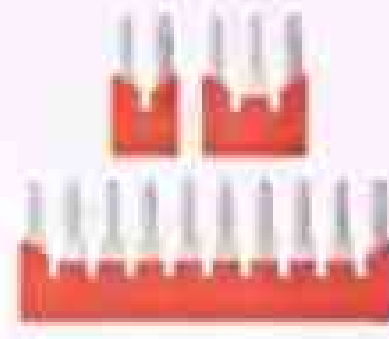
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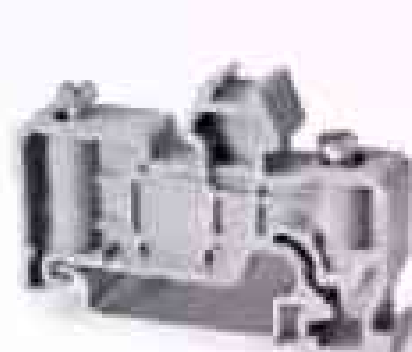
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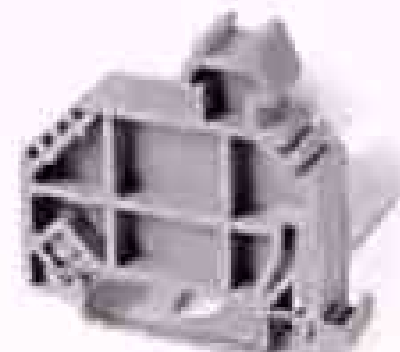
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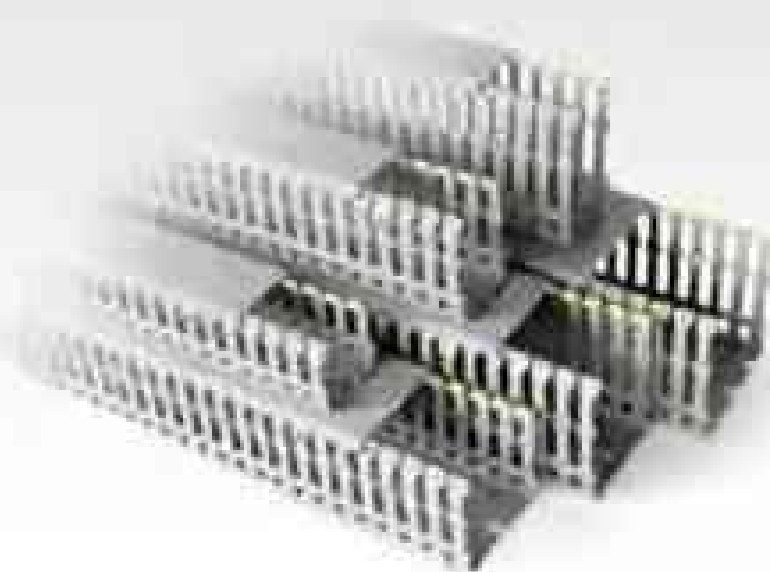


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Din Rail Socket Outlet



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Mounting Rails and Accessories



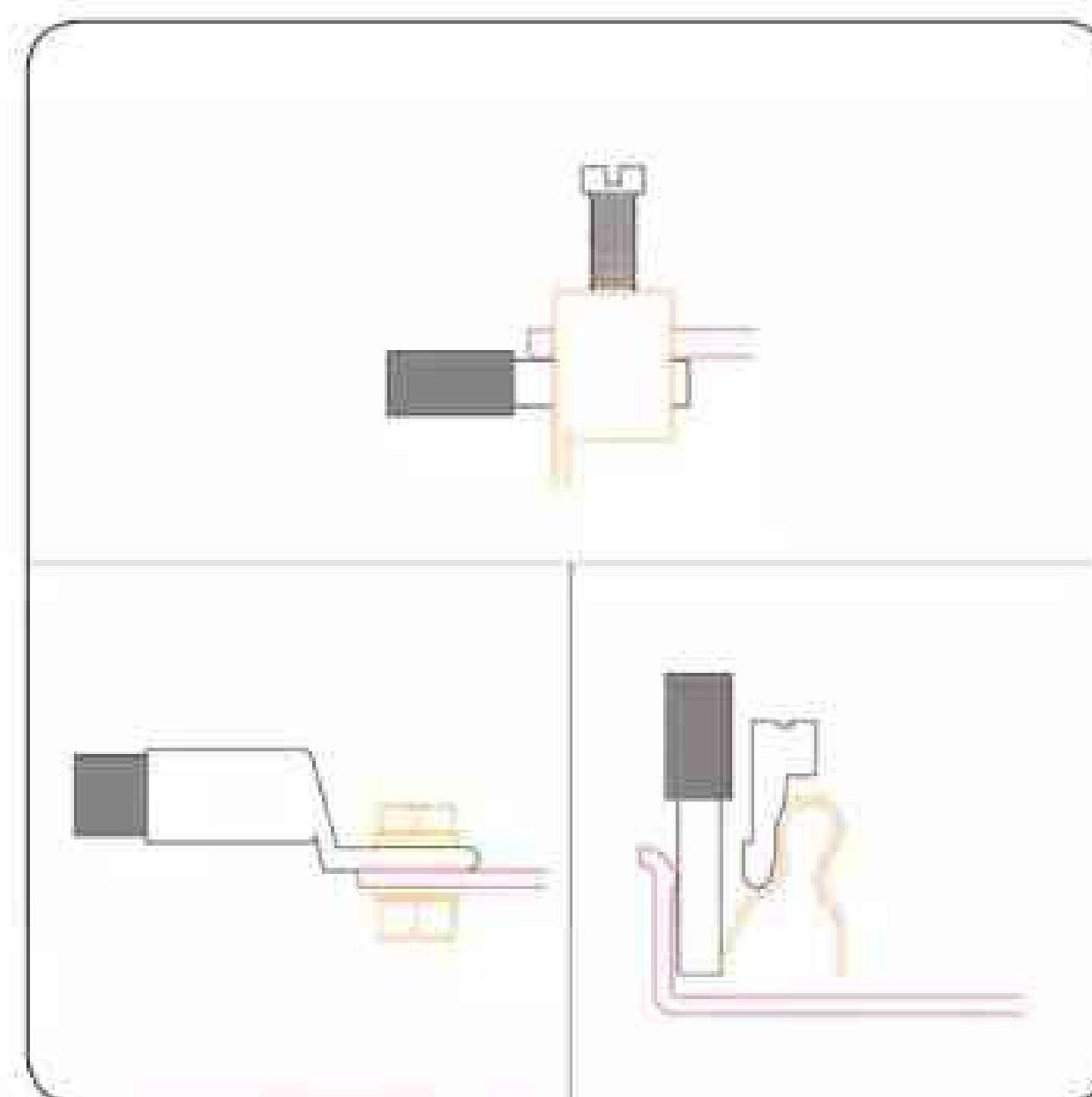
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Clamp Connection

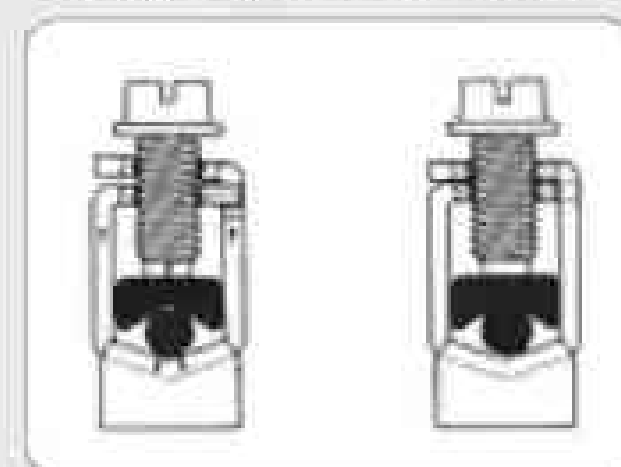


Screw Connection

This is the most popular of all known methods of connection. No other connection method allows such high contact forces to be produced in such a small space as a screw. Raad terminal block screw connection is easy to operate with a standard screwdriver or allen wrench, suitable for all types of conductors without special preparation, absolutely gas tight and vibration proof.

Reliable Clamping

Most Raad products use a clamping unit system which has been proven millions of times, world-wide. The clamping units as well as clamping screws are produced from hardened steel. When the clamping screw is tightened, the resultant force causes the upper thread overlap to spring open, thus causing a locking action to be exerted on the screw and an excellent resistance against vibration is achieved.

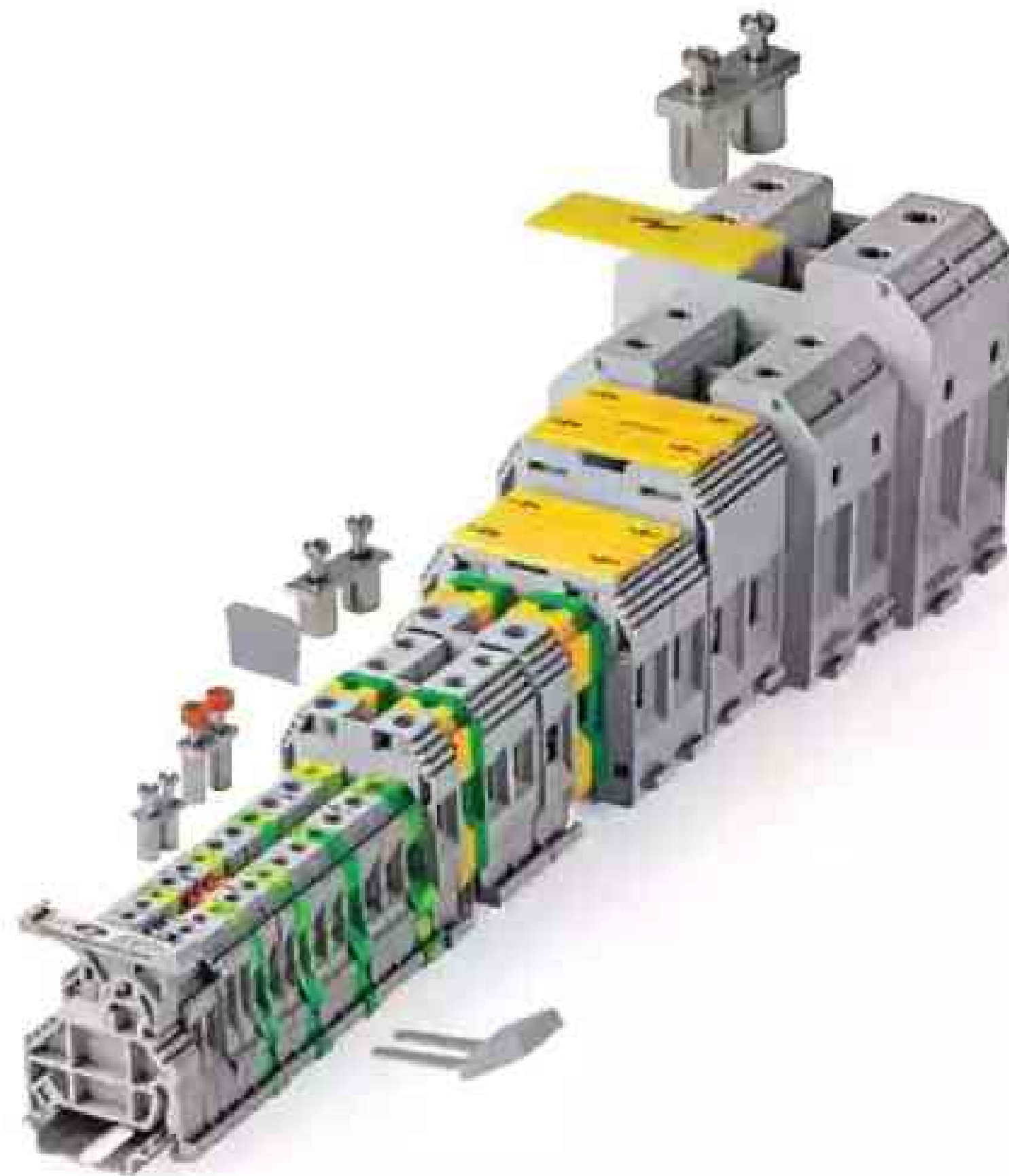


Push-In Connection

Raad push-in clamps, characterized by the simple handling and tool-free connection method. This allows you to push in the solid conductors (no preparation needed) and flexible cables (with using ferrules) and ensures confident connection by opening the contact spring automatically after the cables are pushed into the clamp. This kind of connection is vibration proof.



Universal Terminal Blocks



Raad offers the RT/SU series with the following advantages:

- Combination foot for TH35 mounting rails
- Terminal insulation body polyamide
- Easy to tighten by screwdriver
- Closed cable entry for preventing from wire splitting
- Best connection of the conductor, needing no special cable preparation
- Appropriate for different cross-sections of cables, rigid or flexible
- Similar end plates and partition for several types
- Pre-assembled and divisible cross-connection system and easy removable unwanted cross-connection
- Offering protective conductor terminals, suitable for various sizes of terminals
- Having 10 marker strips simultaneously mountable on some sizes of the terminal

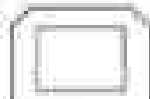
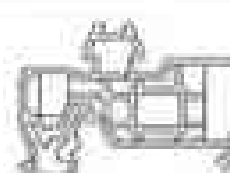
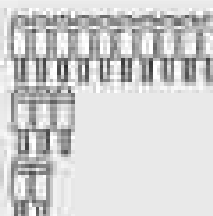
RT/SU2.5

(RTP2.5)
width 6 mm
KEUR CE Ex

**RT/SU2.5-H**

(RTP2.5-H)
width 6 mm
EAC KEUR CE



Technical data		RT/SU2.5			RT/SU2.5H		
		Voltage(V)		Current(A)	Voltage(V)		Current(A)
IEC 60947-7-1		800		24	500		24
IEC/EN 60079-7		500		24	-		-
IEC 60947-7-1 rated data							
Impulse voltage (kV)		6			6		
Pollution degree/Voltage category/Material group		3/III/I			3/III/I		
Cross-section (mm²)		2.5			2.5		
Maximum Current (A) / Maximum Conductor Cross-section (mm²)		32/4			32/4		
Description		Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15 		RT/SU2.5	6010402005	100	RT/SU2.5H	6010401005	100
End plate 		EP-RTP2.5	6020202005	100	EP-RTP 2.5H,4,6,10	6020202105	50
Width (mm)		1.5			1.5		
Partition 		P-RTP2.5	6020301005	100	P-RTP4,6,10	6020301105	50
Width (mm)		1.5			1.5		
Small partition no loss of pitch 		SP-2.5-10	6020304001	100	SP-2.5-10	6020304001	100
End bracket, for TH 35-7.5, 15 		EB/3	6020101003	50	EB/3	6020101003	50
width (mm) Raad recommended		10			10		
End bracket, for TH 35-7.5, 15 		EB/1	6020101001	50	EB/1	6020101001	50
width (mm) Raad recommended		9.5			9.5		
Cross-connection 		CC10-2.5 10-pos.	6020502009	10	CC10-2.5 10-pos.	6020502009	10
		CC3-2.5 3-pos.	6020502002	50	CC3-2.5 3-pos.	6020502002	50
		CC2-2.5 2-pos.	6020502001	50	CC2-2.5 2-pos.	6020502001	50
max. current (A)		24			24		
Bridge-comb 		BC 10-2.5 10-pos.	6020504009	10	BC 10-2.5 10-pos.	6020504009	10
		BC 3-2.5 3-pos.	6020504002	50	BC 3-2.5 3-pos.	6020504002	50
		BC 2-2.5 2-pos.	6020504001	50	BC 2-2.5 2-pos.	6020504001	50
max. current (A)		32			32		
Test Socket 		TS3/6/2.3	6020402001	50	TS3/6/2.3	6020402001	50
Screw Driver 		0.5x3.0	-	-	0.5x3.0	-	-
Marking Tags 		NS6	For details see Accessories		NS6	For details see Accessories	
Marking Holder		Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable		SL	For details see Accessories		SL	For details see Accessories	
Colour							

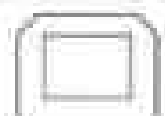
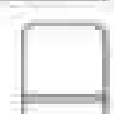
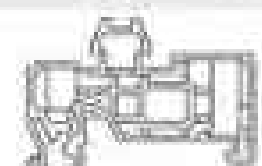
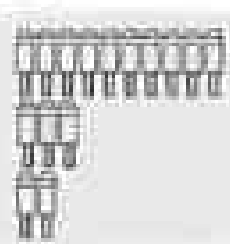
Dimensions (mm)			
Width/Length		6 / 45.2	6 / 45.3
Height, TH 35-7.5/TH 35-15		41.5 / 49	47.4 / 54.9
Connection capacity			
Rigid Solid (mm²)		0.5-4	0.5-4
Rigid stranded (mm²)		0.5-4	0.5-4
Flexible (mm²)		0.5-2.5	0.5-2.5
American Wire Gauge (AWG)		20-12	20-12
IEC test gauge		A3	A3
Stripping length (mm)		10	10
Clamping screw		M2.5	M2.5
Tightening torque (N.m)		0.6	0.4-0.6
Insulation material		PA-V0 on request	PA-V0 on request

RT/SU4
(RTP4)
width 6.4 mm
EAC KEMA VDE CE RoHS
Reg. No. 130597



RT/SU6
(RTP6)
width 8 mm
EAC KEMA CE RoHS



Technical data		RT/SU4			RT/SU6		
		Voltage(V)		Current(A)	Voltage(V)		Current(A)
IEC 60947-7-1		800		32	800		41
IEC/EN 60079-7		500		32	500		41
IEC 60947-7-1 rated data							
Impulse voltage (kV)		6			8		
Pollution degree/Voltage category/Material group		3/III/I			3/III/I		
Cross-section (mm²)		4			6		
Maximum Current (A) / Maximum Conductor Cross-section (mm²)		41/6			57/10		
Description		Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15		RT/SU4	6010403005	100	RT/SU6	6010404005	80
End plate width (mm)		EP-RTP 2.5H,4,6,10 1.5	6020202105	50	EP-RTP 2.5H,4,6,10 1.5	6020202105	50
Partition width (mm)		P-RTP4,6,10 1.5	6020301105	50	P-RTP4,6,10 1.5	6020301105	50
Small partition no loss of pitch		SP-2.5-10	6020304001	100	SP-2.5-10	6020304001	100
End bracket, for TH 35-7.5, 15 width (mm) Raad recommended		EB/3 10	6020101003	50	EB/3 10	6020101003	50
End bracket, for TH 35-7.5, 15 width (mm) Raad recommended		EB/1 9.5	6020101001	50	EB/1 9.5	6020101001	50
Cross-connection		CC10-4 10-pos. 6020502109 10 CC3-4 3-pos. 6020502102 50 CC2-4 2-pos. 6020502101 50 32			CC10-6 10-pos. 6020502209 10 CC3-6 3-pos. 6020502202 50 CC2-6 2-pos. 6020502201 50 41		
max. current (A)							
Bridge-comb		BC10-4 10-pos. 6020504109 10 BC3-4 3-pos. 6020504102 50 BC2-4 2-pos. 6020504101 50 32			JEB10-6 10-pos. 6020506009 10 JEB3-6 3-pos. 6020506002 50 JEB2-6 2-pos. 6020506001 50 41		
max. current (A)							
Test Socket		TS3/6/2.3 -	6020402001 50 -	-	TSS3/26/4 -	6020401101 50 -	-
Screw Driver		0.5x3.0 -	-	-	0.6x3.5 -	-	-
Marking Tags		NS6.4	For details see Accessories		NS8	For details see Accessories	
Marking Holder		Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable		SL	For details see Accessories		SL	For details see Accessories	
Colour							

Dimensions (mm)		
Width/Length	6.4 / 45.3	8 / 45.3
Height, TH 35-7.5/TH 35-15	47.4 / 54.9	47.4 / 54.9
Connection capacity		
Rigid Solid (mm²)	0.5-6	0.5-10
Rigid stranded (mm²)	0.5-6	0.5-10
Flexible (mm²)	0.5-4	0.5-6
American Wire Gauge (AWG)	20-10	20-8
IEC test gauge		
Stripping length (mm)	12	12
Clamping screw		
Tightening torque (N.m)	M3 0.8	M3.5 1.2
Insulation material		
	PA-V0 on request	PA-V0 on request

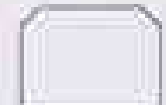
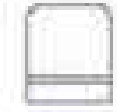
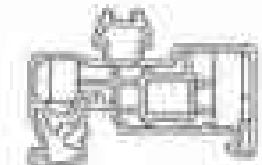
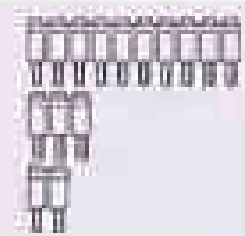
RT/SU10

(RTP10)

width 10 mm

EH KEMA CE Ex



Technical data		RT/SU10		
		Voltage(V)	Current(A)	
IEC 60947-7-1		800	57	
IEC/EN 60079-7		500	57	
IEC 60947-7-1 rated data				
Impulse voltage (kV)		8		
Pollution degree/ Voltage category/Material group		3/III/I		
Cross-section (mm²)		10		
Maximum Current (A) / Maximum Conductor Cross-section (mm²)		76/16		
Description		Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15 		RT/SU10	6010405005	60
End plate width (mm) 		EP-RTP 2.5H,4,6,10 1.5	6020202105	50
Partition width (mm) 		P-RTP4,6,10 1.5	6020301105	50
Small partition no loss of pitch 		SP-2.5-10	6020304001	100
End bracket, for TH 35-7.5, 15  width (mm) Raad recommended		EB/3 10	6020101003	50
End bracket, for TH 35-7.5, 15  width (mm) Raad recommended		EB/1 9.5	6020101001	50
Cross-connection 		CC10-10 10-pos. CC3-10 3-pos. CC2-10 2-pos.	6020502309 6020502302 6020502301	10 50 50
max. current (A)		57		
Test Socket 		TS3/8/4	6020402002	50
		TSS 3/26/4	6020401101	50
Marking Tags 		NS10 Raad recommended	For details see Accessories	
Marking Holder		Marking Holder	6032100001	10
Strip Lable		SL	For details see Accessories	
Colour				
Dimensions (mm)				
Width/Length		10 / 45.3		
Height, TH 35-7.5/TH 35-15		47.4 / 54.9		
Connection capacity				
Rigid Solid (mm²)		0.5-16		
Rigid stranded (mm²)		0.5-16		
Flexible (mm²)		0.5-10		
American Wire Gauge (AWG)		20-6		
IEC test gauge		B6		
Stripping length (mm)		12		
Clamping screw		M4		
Tightening torque (N.m)		1.5		
Insulation material		PA-V0 on request		

RT/SU16

(RTP16)

width 12.5 mm

EAC KEUR CE ENEC

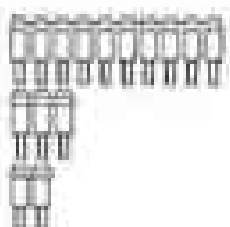
**RT/SU25**

(RTP25)

width 13.6 mm

EAC KEUR CE ENEC



Technical data		RT/SU16			RT/SU25		
		Voltage(V)		Current(A)	Voltage(V)		Current(A)
IEC 60947-7-1		1000		76	1000		101
IEC/EN 60079-7		630		76	630		96
IEC 60947-7-1 rated data							
Impulse voltage (kV)		8			8		
Pollution degree/Voltage category/Material group		3/III/I			3/III/I		
Cross-section (mm²)		16			25		
Description		Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15 		RT/SU16	6010406005	50	RT/SU25	6010407005	50
Partition width (mm) 		GP 3	6020305005	20	GP 3	6020305005	20
End bracket, for G 32 TH 35- 7.5, 15 		EB/2 10	6020101002	50	EB/2 10	6020101002	50
Cross-connection 		CC10-16 10-pos.	6020502409	10	CC10-25 10-pos.	6020502419	10
		CC3-16 3-pos.	6020502402	20	CC3-25 3-pos.	6020502412	20
		CC2-16 2-pos.	6020502401	20	CC2-25 2-pos.	6020502411	20
max. current (A)		76			96		
Test Socket 		TS3.5/8/4	6020402003	50	TS4/8/4	6020402004	50
Screw Driver 		1.0x5.5 - -			1.0x5.5 - -		
Marking Tags 		NS10 Raad recommended	For details see Accessories		NS10 Raad recommended	For details see Accessories	
Marking Holder		Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable		SL	For details see Accessories		SL	For details see Accessories	
Colour							

Dimensions (mm)		
Width/Length	12.5 / 49.5	13.6 / 49.5
Height, TH 35-7.5/TH 35-15	61 / 68.5	61 / 68.5
Connection capacity		
Rigid Solid (mm²)	0.5-16	0.5-16
Rigid stranded (mm²)	0.5-16	0.5-25
Flexible (mm²)	0.5-16	0.5-25
American Wire Gauge (AWG)	20-6	20-4
IEC test gauge	B7	B8
Stripping length (mm)	12.3	12.3
Clamping screw	M5	M5
Tightening torque (N.m)	2.5	2.5
Insulation material	PA-V0 on request	PA-V0 on request

RT/SU35

(RTP35)

width 16.5 mm

EAC KEMA CE Ex

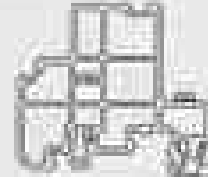
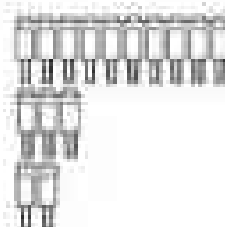
**RT/SU50**

(RTP50)

width 20.1 mm

EAC KEMA CE Ex



Technical data		RT/SU35			RT/SU50		
		Voltage(V)		Current(A)	Voltage(V)		Current(A)
IEC 60947-7-1		1000		125	1000		150
IEC/EN 60079-7		630		124	800		140
IEC 60947-7-1 rated data							
Impulse voltage (kV)		8			8		
Pollution degree/Voltage category/Material group		3/III/I			3/III/I		
Cross-section (mm²)		35			50		
Description		Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15 		RT/SU35	6010408005	20	RT/SU50	6010409005	20
Partition width (mm) 		GP 3	6020305005	20	GP 3	6020305005	20
End bracket, for G 32 TH 35-7.5, 15 		EB/2	6020101002	50	EB/2	6020101002	50
width (mm) Raad recommended 		10			10		
Cross-connection 		CC10-35 10-pos.	6020502439	10	CC3-50 3-pos.	6020502452	10
		CC3-35 3-pos.	6020502432	20	CC2-50 2-pos.	6020502451	10
		CC2-35 2-pos.	6020502431	20			
max. current (A)		114			132		
Test Socket 		TS4/8/4	6020402004	50	-	-	-
Screw Driver 		1.2x6.5	-	-	-	-	-
Allen wrench 		-	-	-	4	-	-
Marking Tags 		NS10 Raad recommended	For details see Accessories		NS10 Raad recommended	For details see Accessories	
Marking Holder		Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable		SL	For details see Accessories		SI	For details see Accessories	
Colour							

Dimensions (mm)		
Width/Length	16.5 / 51.4	20.1 / 67
Height, TH 35-7.5/TH 35-15	63.5 / 71	71.8 / 79.3
Connection capacity		
Rigid Solid (mm²)	1.5-16	6-16
Rigid stranded (mm²)	1.5-35	6-50
Flexible (mm²)	1.5-35	10-50
American Wire Gauge (AWG)	16-2	10-0
IEC test gauge		
Stripping length (mm)	14.9	19
Clamping screw		
Tightening torque (N.m)	3.5	4.5-8
Insulation material		
	PA-V0 on request	PA-V0 on request

RT/SU70

(RTP70)

width 22 mm

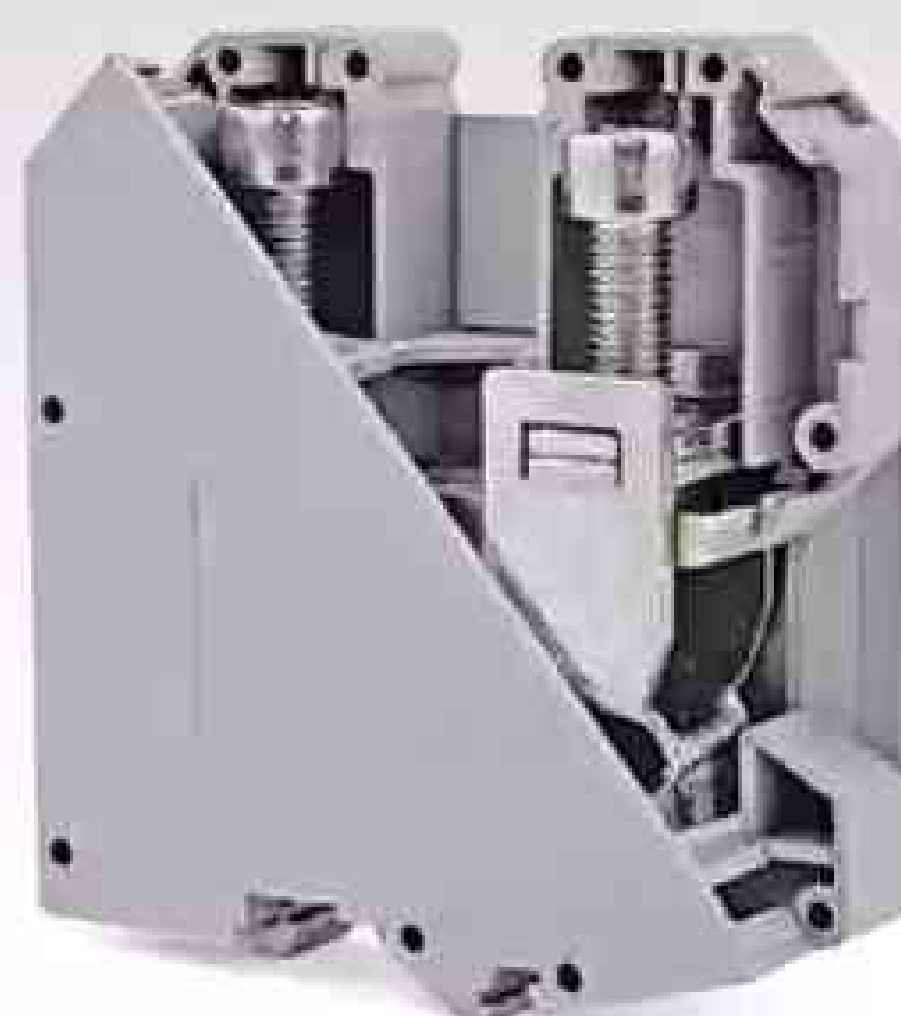
EAC CE

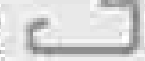
**RT/SU95**

(RTP95)

width 25.3 mm

EAC KLVH CE



Technical data		RT/SU70			RT/SU95		
		Voltage(V)	Current(A)		Voltage(V)	Current(A)	
IEC 60947-7-1		1000	192		1000	232	
IEC/EN 60079-7		-	-		750	210	
IEC 60947-7-1 rated data							
Impulse voltage (kV)		8			8		
Pollution degree/Voltage category/Material group		3/III/I			3/III/I		
Cross-section (mm²)		70			95		
Description		Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15 		RT/SU70	6010410005	10	RT/SU95	-	5
Terminal block, for mounting on G 32  , TH 35-15 		-	-	-	RTP95	6010411005	5
End bracket, for G 32  TH 35-15 		EB/2	6020101002	50	EB/2	6020101002	50
width(mm)Raad recommended		10			10		
Cross-connection 		CC3-70 3-pos. CC2-70 2-pos.	6020502472 6020502471	10 10	CC3-95 3-pos. CC2-95 2-pos.	6020502511 6020502491	10 10
max. current (A)					210		
Allen wrench 		6	-	-	6	-	-
Marking Tags 	NS10 Raad recommended	For details see Accessories			NS10 Raad recommended	For details see Accessories	
Marking Holder	Marking Holder	6032100001	10		Marking Holder	6032100001	10
Strip Lable	SL	For details see Accessories			SL	For details see Accessories	
Colour							

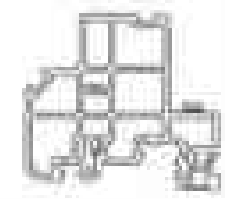
Dimensions (mm)		
Width/Length	22 / 67	25.3 / 90.2
Height, TH 35-7.5/TH 35-15	85 / 92	- / 101
Connection capacity		
Rigid Solid (mm ²)	6-16	6-16
Rigid stranded (mm ²)	6-70	6-95
Flexible (mm ²)	10-70	10-95
American Wire Gauge (AWG)	8-00	10-3/0
IEC test gauge		
Stripping length (mm)	19	24.5
Clamping screw		
Tightening torque (N.m)	10	14
Insulation material		
	PA-V0 on request	PA-V0 on request

RT/SU150

(RTP150)

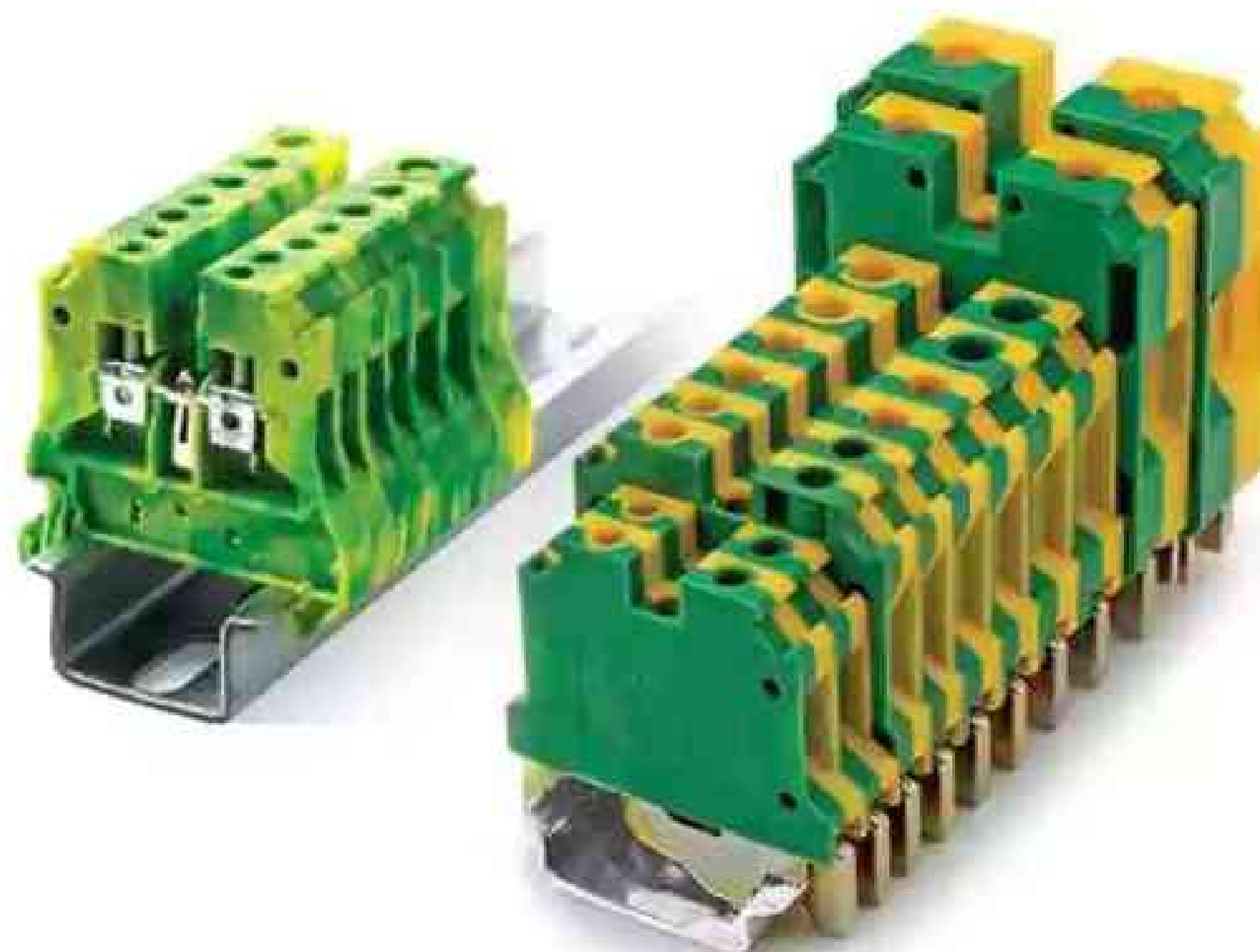
width 31 mm

EAC  CE**Technical data****RT/SU150**

	Voltage(V)	Current(A)	
IEC 60947-7-1	1000	309	
IEC/EN 60079-7	-	-	
IEC 60947-7-1 rated data			
Impulse voltage (kV)	8		
Pollution degree/Voltage category/Material group	3/III/I		
Cross-section (mm²)	150		
Description	Type	Ordering No.	Qty.
Terminal block, for mounting on G 32  , TH 35-15 	RT/SU150	6010412005	5
End bracket, for G 32  TH 35-7.5, 15  width(mm)Raad recommended 	EB/2	6020101002	50
Cross-connection 	10		
	CC3-150 3-pos.	6020502512	10
	CC2-150 2-pos.	6020502511	10
max. current (A)	250		
Allen wrench 	8	-	-
Marking Tags 	NS10 Raad recommended	For details see Accessories	
Marking Holder	Marking Holder	6032100001	10
Strip Lable	SL	For details see Accessories	
Colour			

Dimensions (mm)	
Width/Length	31 / 106.4
Height, TH 35-7.5/TH 35-15	119.3
Connection capacity	
Rigid Solid (mm ²)	6-16
Rigid stranded (mm ²)	6-150
Flexible (mm ²)	10-150
American Wire Gauge (AWG)	10-300 (Kcmil)
IEC test gauge	
Stripping length (mm)	27
Clamping screw	
Tightening torque (N.m)	18-22
Insulation material	
	PA-V0 on request

Protective Conductor Terminal Blocks



- Mountable on TH35 mounting rails, beside other types of terminals
- Having green - yellow, partially insulated, cases made of polyamide
- Designed to provides proper electrical and mechanical connection with its mounting rail, so that it can be used as a protective conductor busbar
- Protective conductor terminal blocks share the same space-saving characteristics and design specifications as the RT/SU series
- Used for connecting PE and PEN conductors, regarding the rated cross - section to be more than 10 mm² for PEN function, as specified in the table below
- easy assembling on rail in new series RT/SU-SO

Table A.1 - Maximum short - time withstand currents allocated to the rail profile and thermal rated current of a PEN busbar

IEC 60947-7-2				
Rail profile	Material	Equivalent E-Cu cross-section mm ²	Short-time withstand current 1 s kA	Thermal rated current of a PEN busbar A
"Top hat" rail IEC 607 15/TH 15-5.5	Steel **	10	1.2	-
	Copper *	25	3	101
	Aluminium *	16	1.92	76
G-type rail IEC 607 15/G32	Steel **	35	4.2	-
	Copper *	120	14.4	269
	Aluminium *	70	8.4	192
"Top hat" rail IEC 607 15/TH 35-7.5	Steel **	16	1.92	-
	Copper *	50	6	150
	Aluminium *	35	4.2	125
"Top hat" rail IEC 607 15/TH 35-15	Steel **	50	6	-
	Copper *	150	18	309
	Aluminium *	95	11.4	232

* Copper or aluminium alloys selected by the manufacturer of terminal block assembly to achieve the values in the table.

** Steel protective conductor busbars are not allowed to be used as a PEN conductor.

RT/SU2.5-E

(RET2.5)
width 6 mm
EAC KEMA CE



RT/SU4-E

(RET4)
width 6.4 mm
EAC KEMA CE



IEC 60947-7-2 rated data

Impulse voltage (kV)
Pollution degree/Voltage category/Material group
Current (A)
Cross - section (mm²)

Description

Terminal block, for mounting on
G 32 TH 35-7.5, 15

Marking Tags 1 2 3

Marking Holder

Strip Lable

Screw Driver

Colour

RT/SU2.5-E

6
3/III/I
-
2.5

Type

Ordering No.

Qty.

RT/SU2.5-E

6010601001

50

NS6

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

0.5x3.0

-

-

RT/SU4-E

6
3/III/I
-
4

Type

Ordering No.

Qty.

RT/SU4-E

6010601002

50

NS6.4

For details see Accessories

Marking Holder

6032100001

10

SI

For details see Accessories

0.5x3.0

-

-

Dimensions (mm)

Width/Length

6 / 42.4

6.5 / 42.4

Height, G32/TH 35-7.5/TH 35-15

46 / 41.5 / 49

51.7 / 47.4 / 54.9

Connection capacity

Rigid Solid (mm²)

0.5-4

0.5-4

Rigid stranded (mm²)

0.5-4

0.5-4

Flexible (mm²)

0.5-2.5

0.5-4

American Wire Gauge (AWG)

20-12

20-12

IEC test gauge

A3

A4

Stripping length (mm)

10

12

Clamping screw/Tightening torque (N.m)

M2.5 / 0.4

M3 / 0.5

Center screw/Tightening torque (N.m)

M3 / 0.5

M3 / 0.5

Insulation material

PA

PA

RT/SU6-E

(RET6)

width 8 mm

ERC KEMA CE



RT/SU10-E

(RET10)

width 10 mm

ERC KEMA CE



IEC 60947-7-2 rated data

Impulse voltage (kV)

Pollution degree/Voltage category/Material group

Current (A)

Cross - section (mm²)

Description

Terminal block, for mounting on
G 32 TH 35-7.5, 15

Marking Tags

Marking Holder

Strip Lable

Screw Driver

Colour

RT/SU6-E

8

3/III/I

-

6

Type

RT/SU6-E

NS8

Marking Holder

SL

0.6x3.5



For details see Accessories

6032100001

For details see Accessories

-

-

-

RT/SU10-E

8

3/III/I

57

10

Type

RT/SU10-E

NS10 Read recommended

Marking Holder

SL

-

-

-

For details see Accessories

6032100001

For details see Accessories

-

-

-

Dimensions (mm)

Width/Length

Height, G32/TH 35-7.5/TH 35-15

Connection capacity

Rigid Solid (mm²)

Rigid stranded (mm²)

Flexible (mm²)

American Wire Gauge (AWG)

IEC test gauge

Stripping length (mm)

Clamping screw/Tightening torque (N.m)

Center screw/Tightening torque (N.m)

Insulation material

8 / 42.5

51.3 / 47.4 / 54.9

0.5-10

0.5-10

0.5-6

20-8

A5

12

M3.5 / 1.2

M4 / 1.2

PA

10 / 42.5

51.3 / 47.4 / 54.9

0.5-16

0.5-16

0.5-10

20-6

B6

12

M4 / 1.5

M4 / 1.2

PA

RT/SU16-E

(RET16)
width 12.5 mm
EAC KEMA CE



RT/SU35-E

(RET35)
width 16.5 mm
EAC KEMA CE



IEC 60947-7-2 rated data

Impulse voltage (kV)
Pollution degree/Voltage category/Material group
Current (A)
Cross - section (mm²)

Description

Terminal block, for mounting on
G 32 TH 35-7.5, 15

Marking Tags 1 2 3

Marking Holder

Strip Lable

Screw Driver

Colour

RT/SU16-E

8

3/III/I

76

16

Type

RT/SU16-E

Ordering No.

6010601005

Qty.

20

NS10_{Rad} recommended

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

1.0x5.5

-

-

-

-

-

RT/SU35-E

8

3/III/I

125

35

Type

RT/SU35-E

Ordering No.

6010601006

Qty.

20

NS10_{Rad} recommended

For details see Accessories

Marking Holder

6032100001

10

SI

For details see Accessories

1.2x6.5

-

-

1.0x5.5

-

-

Dimensions (mm)

Width/Length

12.5 / 46.5

16.5 / 49.7

Height, G32/TH 35-7.5/TH 35-15

65 / 61 / 68.5

67.6 / 63.5 / 71

Connection capacity

Rigid Solid (mm²)

0.5-16

1.5-16

Rigid stranded (mm²)

0.5-16

1.5-35

Flexible (mm²)

0.5-16

1.5-35

American Wire Gauge (AWG)

20-6

16-2

IEC test gauge

B7

B9

Stripping length (mm)

12.3

14.9

Clamping screw/Tightening torque (N.m)

M5 / 2.5

M6 / 3.5

Center screw/Tightening torque (N.m)

M4 / 1.2

M5 / 2

Insulation material

PA

PA

RT/SU2.5-SO

(RETN2.5)
width 6 mm
KEMA CE



RT/SU4-SO

(RETN4)
width 6.4 mm
KEMA CE



IEC 60947-7-2 rated data

Impulse voltage (kV)
Pollution degree/Voltage category/Material group
Current (A)
Cross-section (mm²)

RT/SU2.5-SO

6
3/III/1
-
2.5

RT/SU4-SO

6
3/III/1
-
4

Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15	RT/SU2.5-SO	6010602001	50	RT/SU4-SO	6010602002	50
End plate width (mm)	EP-RETN2.5,4,6,10	6020206001	50	EP-RETN2.5,4,6,10	6020206001	50
Partition width (mm)	P-RTP 2.5H-10 1.5	6020301105	50	P-RTP 2.5H-10 1.5	6020301105	50
Marking Tags	NS6	For details see Accessories		NS6.4	For details see Accessories	
Marking Holder	Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable	SL	For details see Accessories		SL	For details see Accessories	
Screw Driver	0.5x3.0	-	-	0.5x3.0	-	-
Colour						

Dimensions (mm)		
Width/Length	6/48.3	6.5/48.3
TH 35-7.5/TH 35-15	47.4 / 54.9	47.4 / 54.9
Connection capacity		
Rigid Solid (mm ²)	0.5-4	0.5-4
Rigid stranded (mm ²)	0.5-4	0.5-4
Flexible (mm ²)	0.5-2.5	0.5-4
American Wire Gauge (AWG)	20-12	20-12
IEC test gauge	A3	A4
Stripping length (mm)	10	12
Clamping screw/Tightening torque (N.m)	M2.5 / 0.4-0.6	M3 / 0.5
Insulation material	PA	PA

RT/SU6-SO

(RETN6)
width 8 mm
EAC KEMA CE



RT/SU10-SO

(RETN10)
width 10 mm
EAC KEMA CE



IEC 60947-7-2 rated data

Impulse voltage (kV)
Pollution degree/Voltage category/Material group
Current (A)
Cross - section (mm²)

Description

Terminal block, for mounting on
TH 35-7.5, 15

End plate
width (mm)

Partition
width (mm)

Marking Tags

Marking Holder

Strip Lable

Screw Driver

Colour

RT/SU6-SO

8
3/III/I
-
6

Type

Ordering No.

Qty.

RT/SU6-SO

6010602003

25

EP-RETN2.5,4,6,10
1.5

6020206001

50

P-RTP 2.5H-10
1.5

6020301105

50

NS8

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

0.6x3.5

-

-

✓

RT/SU10-SO

8
3/III/I
57
10

Type

Ordering No.

Qty.

RT/SU10-SO

6010602004

20

EP-RETN2.5,4,6,10
1.5

6020206001

50

P-RTP 2.5H-10
1.5

6020301105

50

NS10 Rad recommended

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

-

-

-

✓

Dimensions (mm)

Width/Length

8/48.3

10/48.3

Height, G32/TH 35-7.5/TH 35-15

47.4 / 54.9

47.4 / 54.9

Connection capacity

Rigid Solid (mm²)

0.5-10

0.5-16

Rigid stranded (mm²)

0.5-10

0.5-16

Flexible (mm²)

0.5-6

0.5-10

American Wire Gauge (AWG)

20-8

20-6

IEC test gauge

A5

B6

Stripping length (mm)

12

12

Clamping screw/Tightening torque (N.m)

M3.5 / 1.2

M4 / 1.5

Insulation material

PA

PA



Multi Level Terminal Blocks

This section consists of double-level (RT/SU-2L Series) and three-level (RT/SU-3L) terminal blocks.

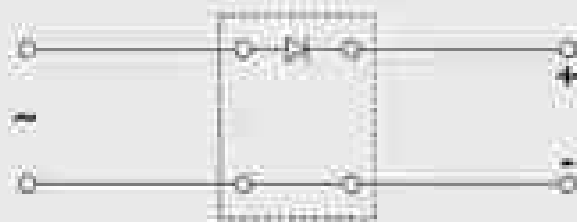
Raad double level terminal blocks enjoy the space-saving advantage. It is remarkable in RT/SU-2L that due to its double wiring density, the upper level is offset laterally by half of the terminal block width and the following advantages are met:

- Accessibility of the lower level screw is more effective with a Screw Driver and,
- Lower labels and entry points can be viewed better

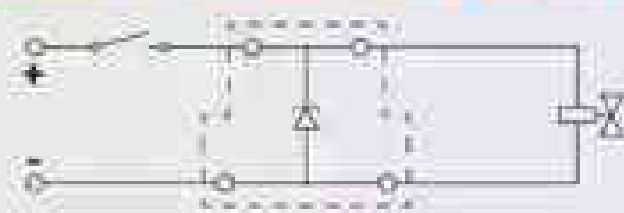
The end plates, EP1, EP2, EP3 compensates the level offset at the beginning and the end of the terminal strips, therefore standard terminal blocks can be directly aligned.

As for foot connection, they can be mounted on TH 35 mounting rail.

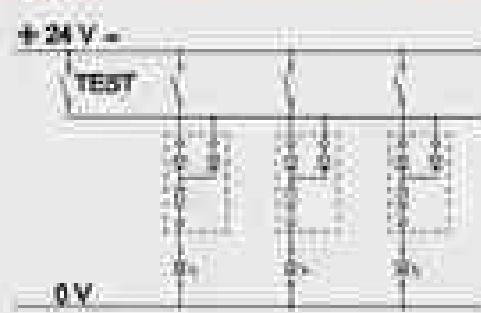
- Terminal block type RT/SU2.5-2L-L, RT/SU4-2L-L has four accessible input/output connecting ports by an internally link between two upper and lower levels. These terminals can be used as distribute terminals same as one to three or one to two branches, in the equipotential circuits, They can also connected to adjacent terminals, through cross-connection in the lower level.



Example for rectifying purposes



Example for fine switching a DC load



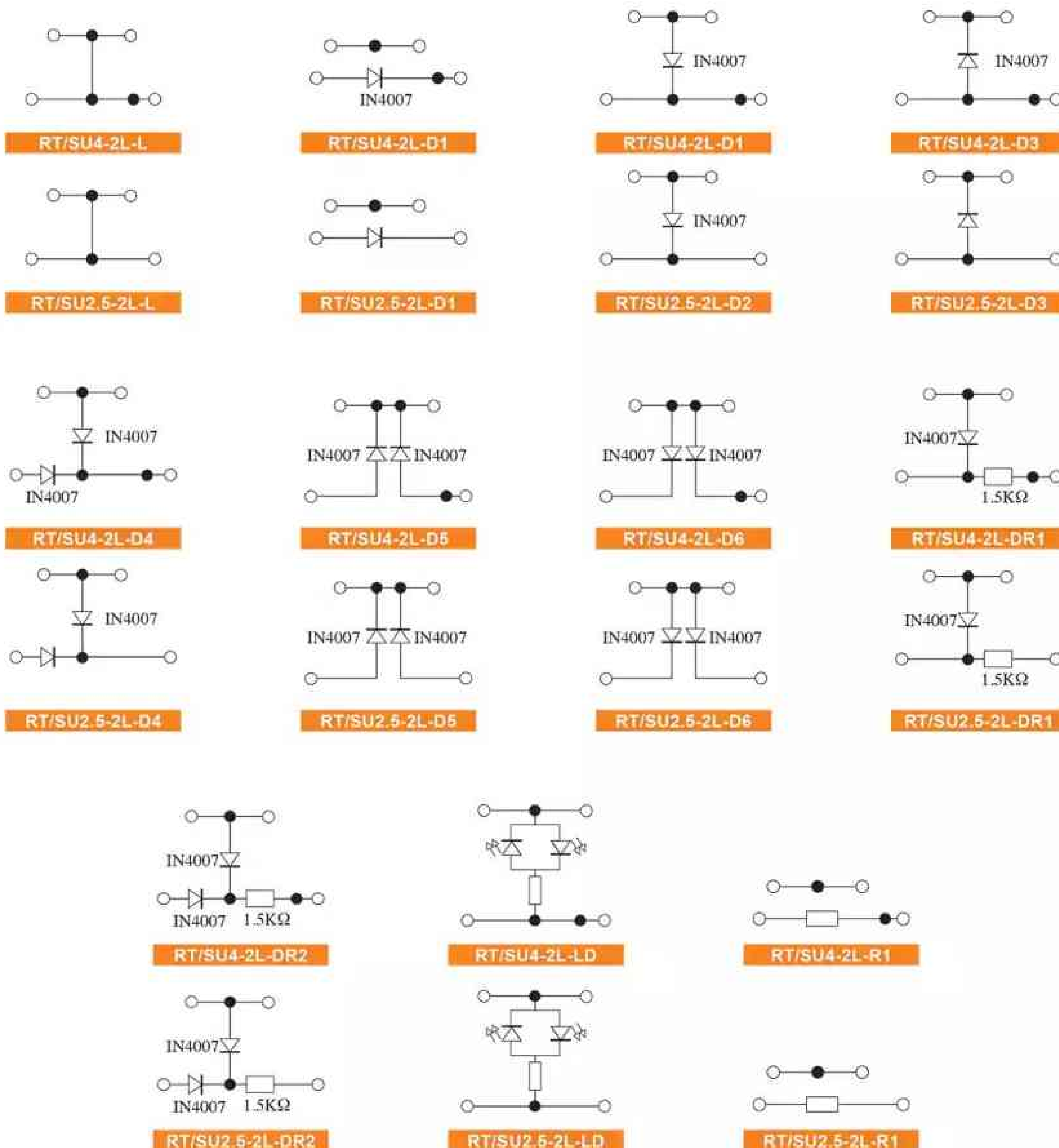
Example for lamp test circuit

- In designing RT/SU2.5-2L-L, RT/SU4-2L-L, special capabilities are offered for installing electronic elements. Raad double level terminal blocks are used for voltage rectifying, monitoring, electronic elements, fine switching, and test circuits. Furthermore, a number of circuits, in which the terminals are applied, are offered (for details see diagrams as follows). Any other type of circuit is offered on request.

- The coloured options can be requested.

Raad three-level terminal block was specially developed for space-saving wiring in 3 wired elements such as motors and sensors, e.g. phase-neutral-earth connection or positive-negative-earth / shield connection.

Some of the circuits designed by using small components in the Raad double level terminal blocks (RT/SU2.5-2L-L, RT/SU4-2L-L) given as below:

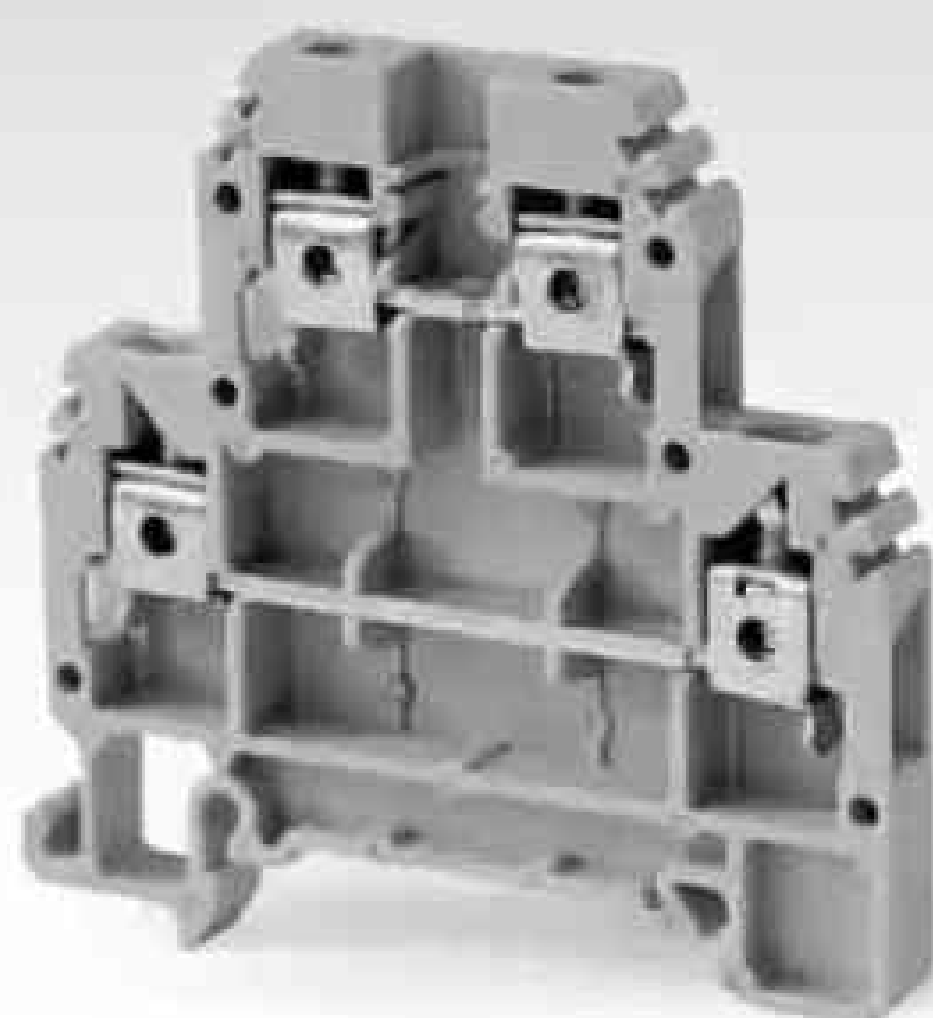


RT/SU2.5-2L

(DRTP2.5/4)

width 6 mm

ERC KEUR CE

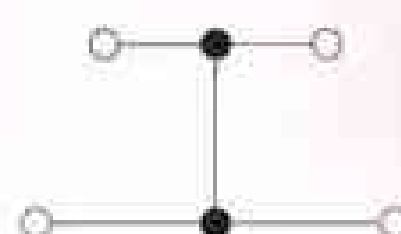


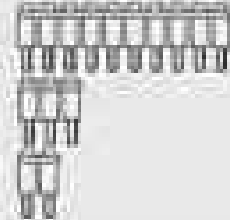
RT/SU2.5-2L-L

(DRTP2.5/4-L)

width 6 mm

ERC KEUR CE



IEC 60947-7-1 rated data				RT/SU2.5-2L			RT/SU2.5-2L-L		
Voltage(V)/Impulse voltage (kV)				500 / 6			500 / 6		
Pollution degree/Voltage category/Material group				3/III/1			3/III/1		
Current (A)				32			32		
Cross - section (mm²)				4			4		
Description				Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15 				RT/SU2.5-2L	6010728005	50	RT/SU2.5-2L-L	6010729005	50
End plate		EP-DRTP2.5/4	6020203001	20	EP-DRTP2.5/4	6020203001	20		
width (mm)		1.2			1.2				
End bracket, for TH 35- 7.5, 15 		EB/3	6020101003	50	EB/3	6020101003	50		
width (mm) Raad recommended		10			10				
End bracket, for TH 35- 7.5, 15 		EB/2	6020101002	50	EB/2	6020101002	50		
width (mm) Raad recommended		10			10				
Partition		GP	6020305005	20	GP	6020305005	20		
width (mm)		3			3				
Cross-connection		CC10-2.5 10-pos.	6020502009	10					
		CC3-2.5 3-pos.	6020502002	50	-	-	-		
		CC2-2.5 2-pos.	6020502001	50					
Bridge-comb		BC 10-2.5 10-pos.	6020504009	10	BC 10-2.5 10-pos.	6020504009	10		
		BC 3-2.5 3-pos.	6020504002	50	BC 3-2.5 3-pos.	6020504002	50		
max. current (A)		BC 2-2.5 2-pos.	6020504001	50	BC 2-2.5 2-pos.	6020504001	50		
		32			32				
Test Socket		TS3/6/2.3	6020402001	50	-	-	-		
Marking Tags		NS6	For details see Accessories		NS6	For details see Accessories			
Marking Holder		Marking Holder	6032100001	10	Marking Holder	6032100001	10		
Strip Lable		SL	For details see Accessories		SI	For details see Accessories			
Screw Driver		0.5x3	-	-	0.5x3	-	-		
Colour									

Dimensions (mm)		
Width/Length	6/57.4	6/57.4
Height, TH 35-7.5/TH 35-15	56.9/64.4	56.9/64.4
Connection capacity		
Rigid Solid (mm²)	0.5-4	0.5-4
Rigid stranded (mm²)	0.5-4	0.5-4
Flexible (mm²)	0.5-4	0.5-4
American Wire Gauge (AWG)	20-12	20-12
IEC test gauge		
Stripping length (mm)	9	9
Clamping screw		
Tightening torque (N.m)	0.4	0.4
Insulation material		
	PA	PA

RT/SU4-2L

(DRTP4)

width 6.4 mm

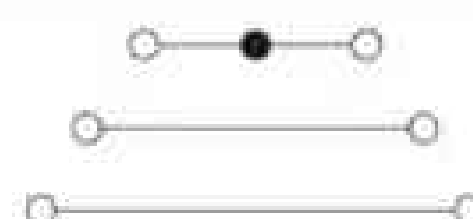
EAC Kitemark CE

**RT/SU4-3L**

(TRTP4)

width 6.4 mm

Kitemark CE

**IEC 60947-7-1 rated data**

Voltage(V)/Impulse voltage (kV)
Pollution degree/Voltage category/Material group
Current (A)
Cross - section (mm²)

Description

Terminal block, for mounting on
TH-35-7.5, 15

End plate 1

width (mm)

End plate 2

width (mm)

End plate 3

width (mm)

Partition

width (mm)

Partition

width (mm)

Small partition

no loss of pitch

End bracket, for G 32

TH 35- 7.5, 15

width (mm) Raad recommended

Cross-connection

max. current (A)

Bridge-comb

max. current (A)

Test Socket

Marking Tags

Marking Holder

Strip Lable

Screw Driver

Colour

RT/SU4-2L

500 / 6

3/III/I

32

4

Type**Ordering No.****Qty.**

RT/SU4-2L

6010701005

50

EP1-DRTP4

1.5

6020203002

20

EP2-DRTP4

1.5

6020203003

20

EP3-DRTP4

2.5

6020203004

20

P-DRTP4

2.5

6020302001

20

-

-

-

-

SP-D4

0.9

6020304004

100

EB/2

10

6020101002

50

CC10-D4

10-pos.

6020503009

10

CC3-D4

3-pos.

6020503002

10

CC2-D4

2-pos.

6020503001

50

-

-

-

-

BC10-4

10-pos.

6020504109

10

BC3-4

3-pos.

6020504102

50

BC2-4

2-pos.

6020504101

50

-

-

-

-

TS3/6/2.3

6020402001

50

NS6.4

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

0.5x3

-

-

-

-

-

RT/SU4-3L

400 / 6

3/III/I

32

4

Type**Ordering No.****Qty.**

RT/SU4-3L

6010750005

25

-

-

-

-

-

-

-

-

-

-

-

-

GP

6020305005

20

3

-

-

-

-

-

EB/2

6020101002

50

10

-

-

CC10-D4

10-pos.

6020503009

10

CC3-D4

3-pos.

6020503002

10

CC2-D4

2-pos.

6020503001

50

-

-

-

-

BC10-4

10-pos.

6020504109

10

BC3-4

3-pos.

6020504102

50

BC2-4

2-pos.

6020504101

50

-

-

-

-

TS3/6/2.3

6020402001

50

NS6.4

For details see Accessories

Marking Holder

6032100001

10

SI

For details see Accessories

0.5x3

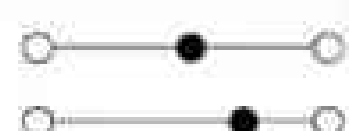
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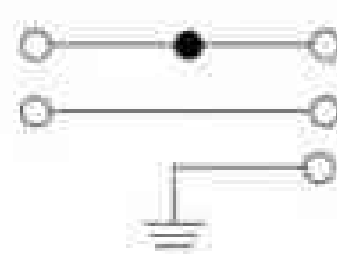
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-

RT/SU10-2L(DRTP10)
width 10 mm**RT/SU2.5-3LOE5**

width 6 mm

**IEC 60947-7-1 rated data**

Voltage(V)/Impulse voltage (kV)
Pollution degree/Voltage category/Material group
Current (A)
Cross - section (mm²)

RT/SU10-2L

800 / 8
3/III/I
57
10

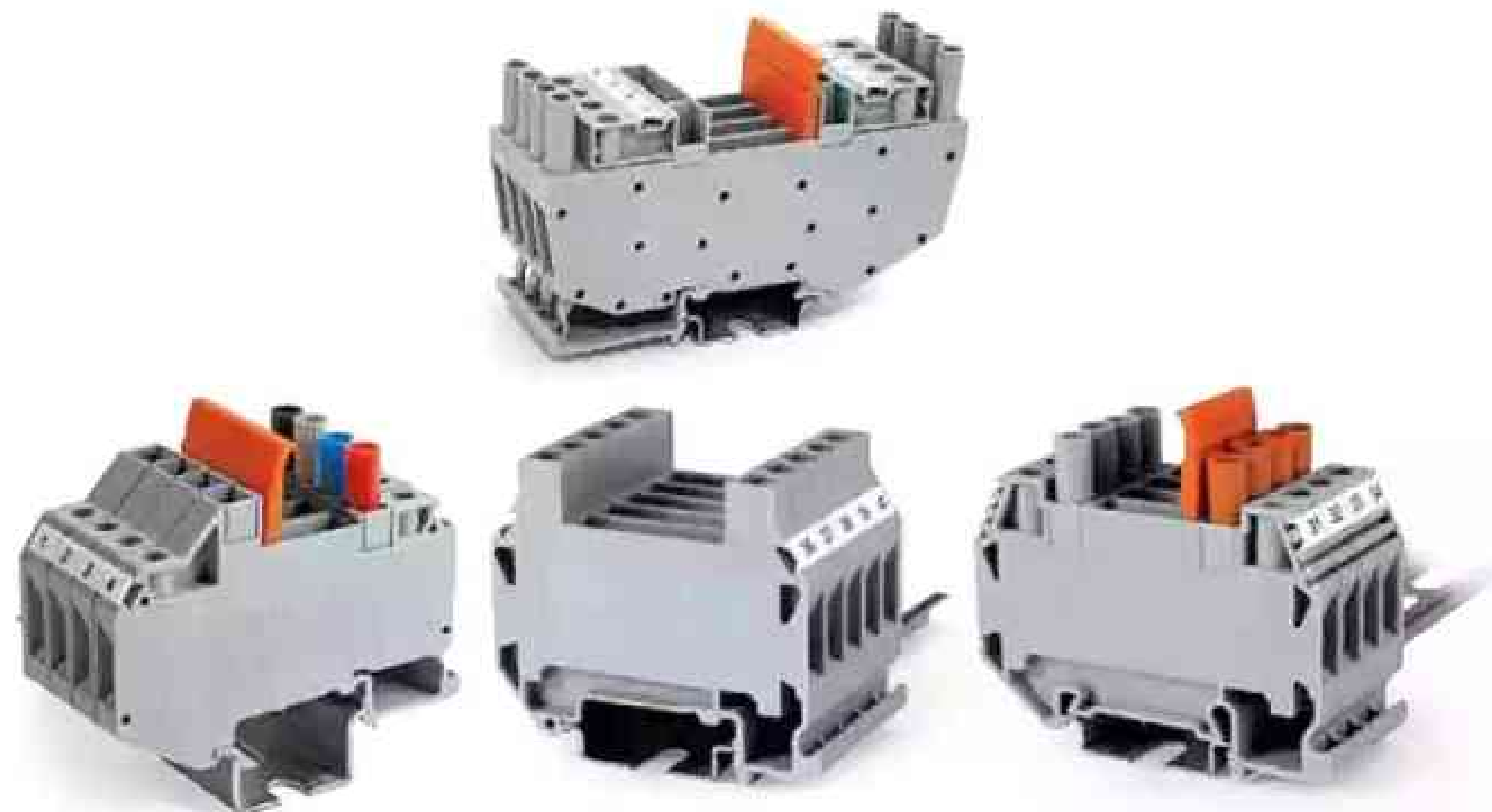
RT/SU2.5-3LOE5

400 / 6
3/III/I
24
2.5

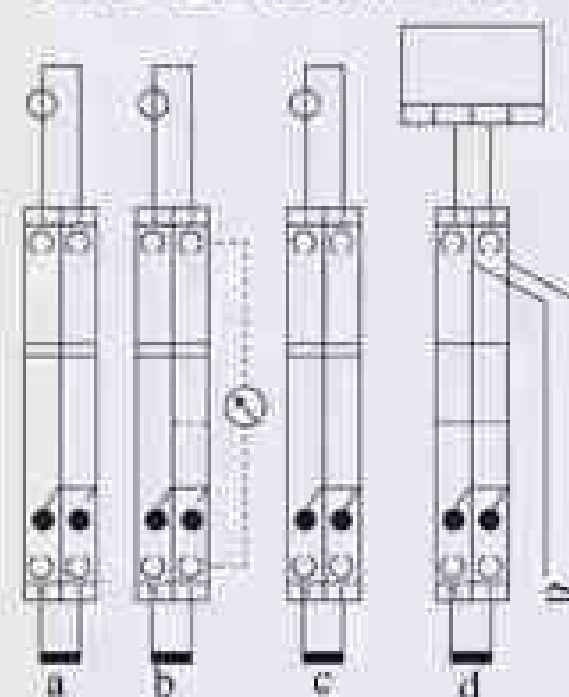
Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Terminal block, for mounting on TH 35-7.5, 15	RT/SU10-2L	6010740005	25	RT/SU2.5-3LOE5	6010603001	35
End plate width (mm)	EP- RT/SU10-2L 1.2	6020203020	20	EP-RT/SU2.5-3LOE5 1	6020206002	20
Bridge-comb	-	-	-	BC2-4	6020504101	50
End bracket, for TH 35- 7.5, 15 width (mm) Raad recommended	EB/2 10	6020101002	50	BC3-4	6020504102	50
End bracket, for TH 35- 7.5, 15 width (mm) Raad recommended	-	-	-	BC10-4	6020504109	10
Cross-connection	CC10-10	6020502309	10	EB/2 10	6020101002	50
Max. current(A)	CC3-10	6020502302	50	EB/3 10	6020101003	50
Bridge-comb	CC2-10	6020502301	50	CC10-D4	6020503009	10
max. current (A)	57	-	-	CC3-D4	6020503002	10
Test Socket	TS3/8/4	6020402002	50	CC2-D4	6020503001	50
Marking Tags	NS10	For details see Accessories	-	BC 10-2.5 10-pos.	6020504009	50
Marking Holder	Marking Holder	6032100001	10	BC 3-2.5 3-pos.	6020504002	50
Strip Lable	SL	For details see Accessories	-	BC 2-2.5 2-pos.	6020504001	10
Colour				32	-	-

Dimensions (mm)		
Width/Length	10/86.2	6/82
Height, G32/TH 35-7.5/TH 35-15	72.5/80	63.5 / 71
Connection capacity		
Rigid Solid (mm ²)	0.5-16	0.5-4
Rigid stranded (mm ²)	0.5-16	0.5-4
Flexible (mm ²)	0.5-10	0.5-4
American Wire Gauge (AWG)	20-6	20-12
IEC test gauge		
Stripping length (mm)	12	9
Clamping screw		
Tightening torque (N.m)	1.5-1.8	0.5-0.6
Insulation material		
	PA	PA

Test Disconnect Terminal Blocks

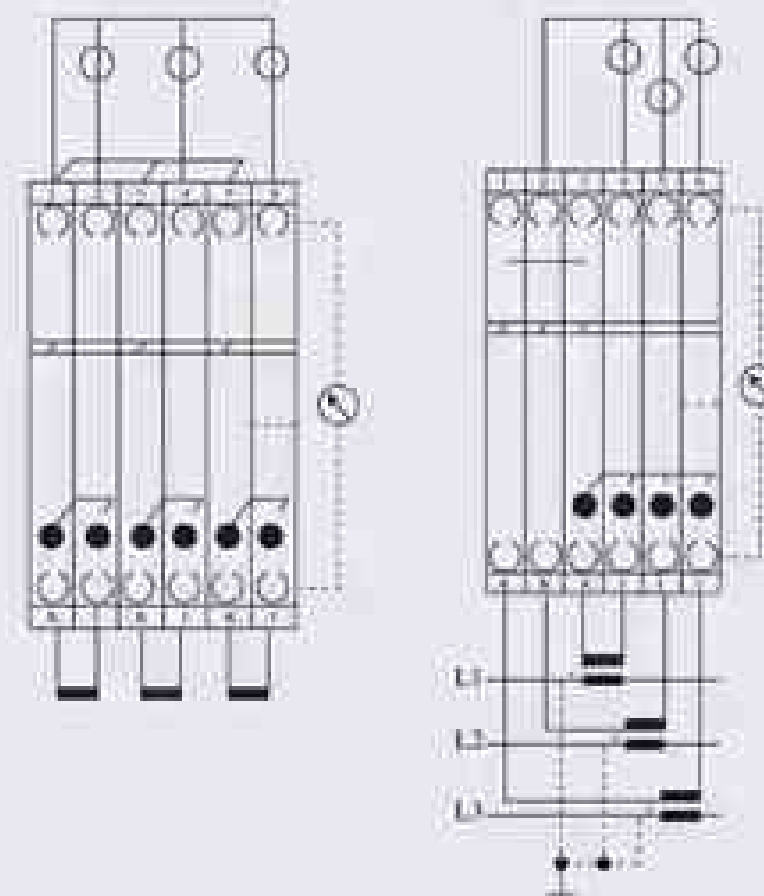


Circuit examples with RST6



Simple current transformer test circuit
a) Normal operation
b= Measured value testing
c= Transformer testing
d= Relay testing

Circuit examples with RST6, RTT6



Three - phase Transducer test set
Three - phase linked Transducer test set

In measuring, control and remote - controlled systems, test disconnect terminals are often installed.

A typical circuit can be considered for each of the above mentioned items. RT/ST6-SHT, RT/ST6-CMP, RT/ST6, RT/ST6-L, RST6, RTT6, accompanied by their relating accessories, can be mounted in all types of circuits specified in this field, including secondary circuits for current transformers.

RT/ST6

(RST6)

width 8 mm

RAAD CE



RT/ST6-L

(RTT6)

width 8 mm



IEC 60947-7-1 rated data

Voltage (V) / Impulse voltage (kV)

Pollution degree/Voltage category/Material group

Current (A)

Cross - section (mm²)

Description

Test disconnect terminal, for mounting on TH 35-7.5, 15

Moveable cross-connection, for 2 terminal blocks, with 2 screws

max. current (A)

Cross-connection

max. current (A)

Bridge-comb

max. current (A)

End bracket, for TH 35-7.5, 15

width (mm) Raad recommended

End bracket, for TH 35- 7.5, 15

width (mm) Raad recommended

Marking Tags

Marking Holder

Strip Lable

Test Socket

Screw Driver

Colour

RT/ST6

400 / 6

3/III/I

41

6

Type

Ordering No.

Qty.

RT/ST6

6010301001

20

ML2N 2-pos.

6020602001

50

ML3N 3-pos.

6020602002

50

ML4N 4-pos.

6020602003

50

32

CC10-6 10-pos.

6020502209

10

CC3-6 3-pos.

6020502202

50

CC2-6 2-pos.

6020502201

50

41

JEB10-6 10-pos.

6020506009

10

JEB3-6 3-pos.

6020506002

50

JEB2-6 2-pos.

6020506001

50

41

EB/3

6020101003

50

10

EB/1

6020101001

50

9.5

NS8

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

TSS 3/26/4

6020401101

50

0.6x3.5

-

-

0.5x3

-

-

RT/ST6-L

400 / 6

3/III/I

41

6

Type

Ordering No.

Qty.

RT/ST6-L

6010302001

20

ML2N 2-pos.

6020602001

50

ML3N 3-pos.

6020602002

50

ML4N 4-pos.

6020602003

50

32

CC10-6 10-pos.

6020502209

10

CC3-6 3-pos.

6020502202

50

CC2-6 2-pos.

6020502201

50

41

JEB10-6 10-pos.

6020506009

10

JEB3-6 3-pos.

6020506002

50

JEB2-6 2-pos.

6020506001

50

41

EB/3

6020101003

50

10

EB/1

6020101001

50

9.5

NS8

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

TSS 3/26/4

6020401101

50

0.6x3.5

-

-

0.5x3

-

-

Dimensions (mm)

Width/Length

8 / 107

8 / 107

Height, TH 35-7.5/TH 35-15

61.5 / 69

61.5 / 69

Connection capacity

Rigid Solid (mm²)

0.5-10

0.5-10

Rigid stranded (mm²)

0.5-10

0.5-10

Flexible (mm²)

0.5-6

0.5-6

American Wire Gauge (AWG)

20-8

20-8

IEC test gauge

A5

A5

Stripping length (mm)

12

12

Clamping screw/Tightening torque (N.m)

M3.5 / 1.2

M3.5/1.2

Center screw/Tightening torque (N.m)

M3 / 0.5

-

Insulation material

PA

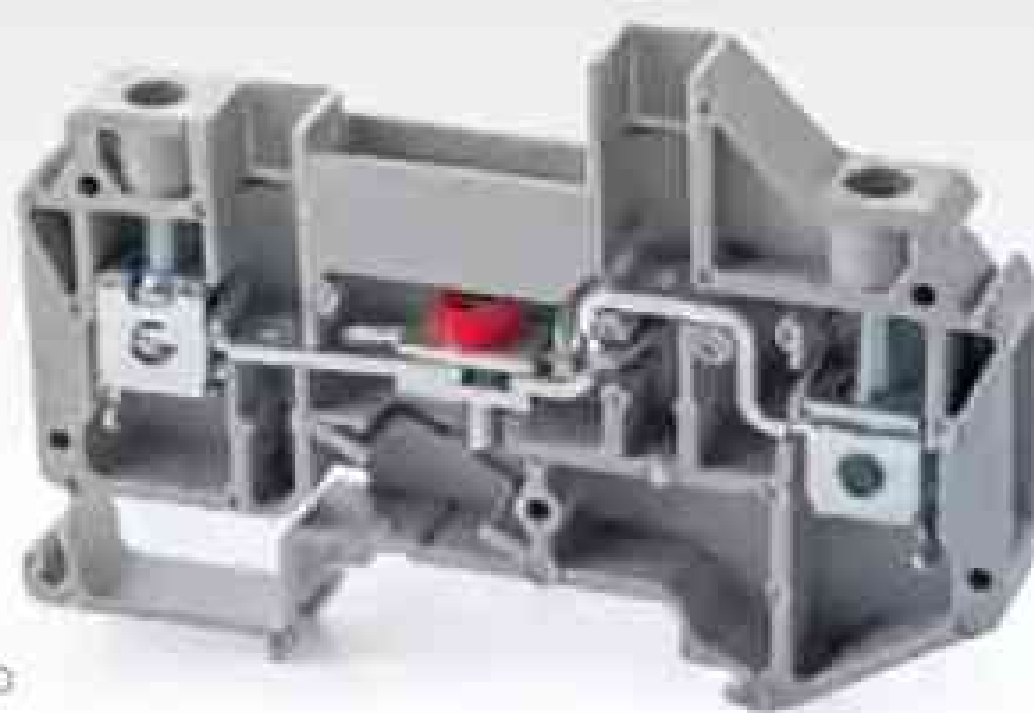
PA

RT/ST6-SHT

(RSTT6)

width 8 mm

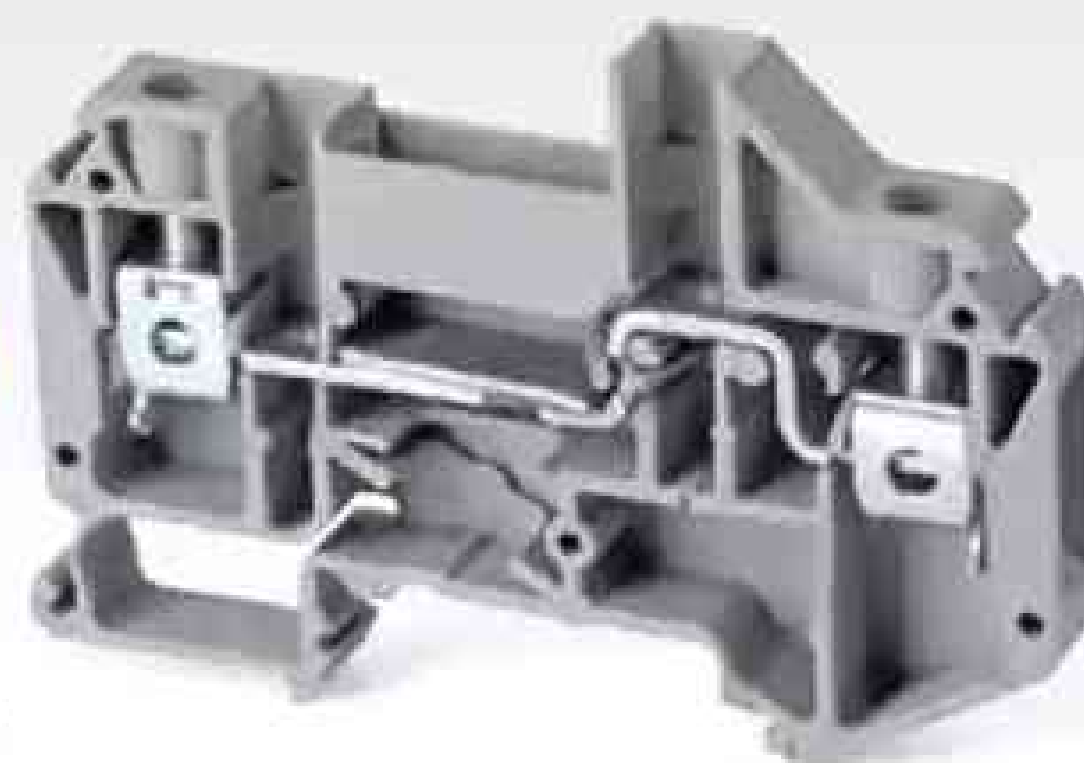
CE

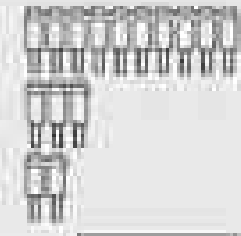
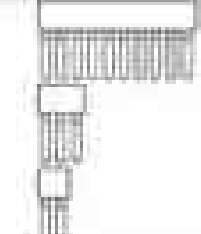
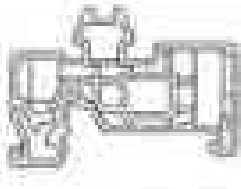


RT/ST6-SHT-L

(RSTU6)

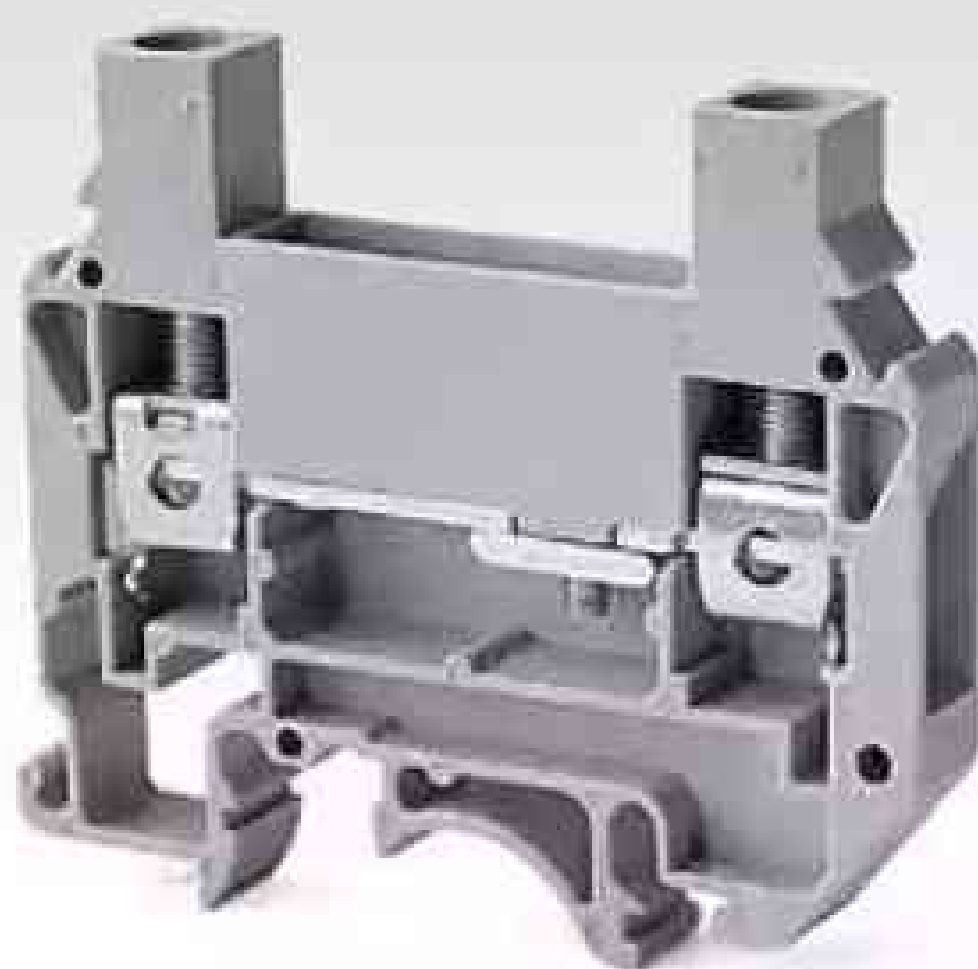
width 8 mm



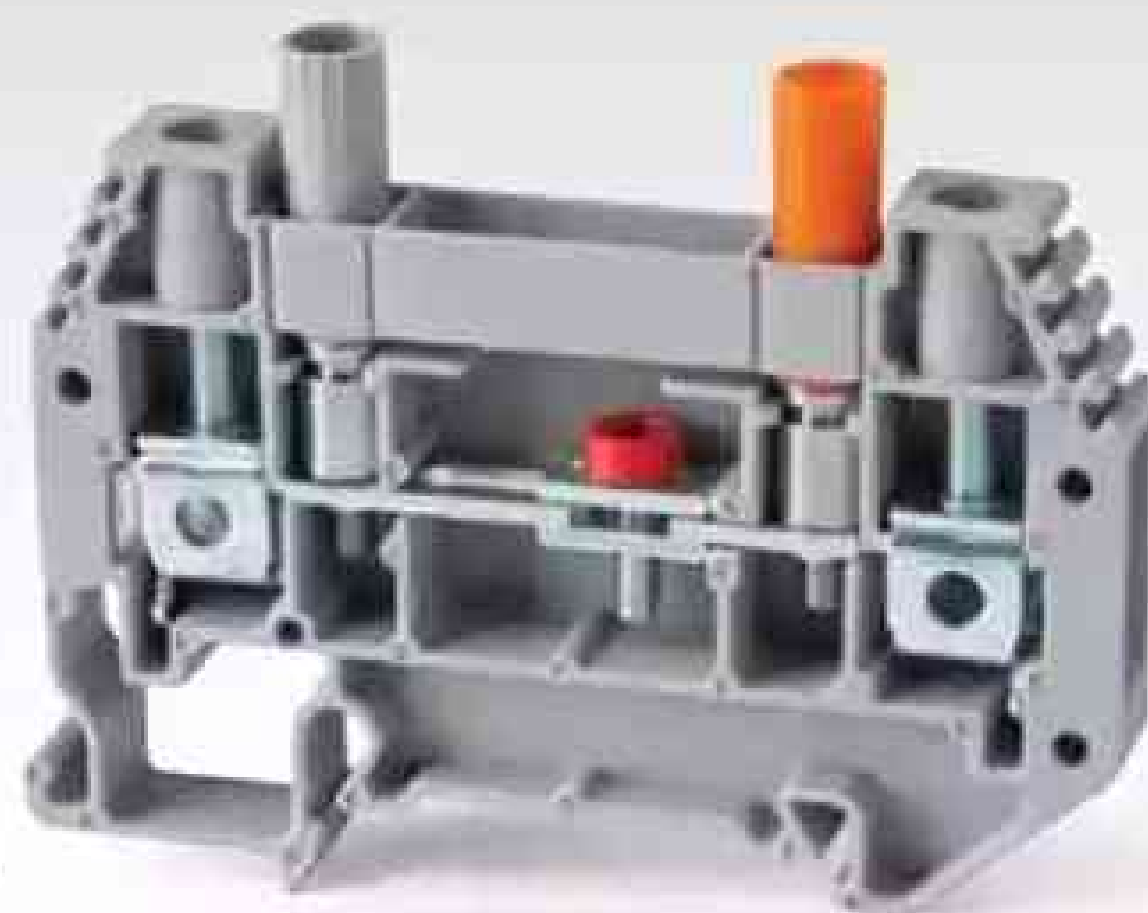
IEC 60947-7-1 Rated data		RT/ST6-SHT			RT/ST6-SHT-L		
Voltage (V) / Impulse voltage (kV)		400 / 6			400 / 6		
Pollution degree/Voltage category/Material group		3/III/I			3/III/I		
Current (A)		41			41		
Cross - section (mm²)		6			6		
Description		Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Test disconnect terminal, for mounting on TH 35-7.5, 15 		RT/ST6-SHT	6010303001	25	RT/ST6-SHT-L	6010305001	25
End Plate width (mm) 		EP-RSTT6 1.5	6020201003	50	EP-RSTT6 1.5	6020201003	50
Moveable cross-connection, for 2 terminal blocks, with 2 screws 		ML2N 2-pos. ML3N 3-pos. ML4N 4-pos.	6020602001 6020602002 6020602003	50 50 50	ML2N 2-pos. ML3N 3-pos. ML4N 4-pos.	6020602001 6020602002 6020602003	50 50 50
max. current (A)		32			32		
Cross-connection 		CC10-6 10-pos. CC3-6 3-pos. CC2-6 2-pos.	6020502209 6020502202 6020502201	10 50 50	CC10-6 10-pos. CC3-6 3-pos. CC2-6 2-pos.	6020502209 6020502202 6020502201	10 50 50
max. current (A)		41			41		
Bridge-comb 		JEB10-6 10-pos. JEB3-6 3-pos. JEB2-6 2-pos.	6020506009 6020506002 6020506001	10 50 50	JEB10-6 10-pos. JEB3-6 3-pos. JEB2-6 2-pos.	6020506009 6020506002 6020506001	10 50 50
max. current (A)		41			41		
End bracket, for TH 35-7.5, 15 		EB/3	6020101003	50	EB/3	6020101003	50
width (mm) Raad recommended		10			10		
End bracket, for TH 35- 7.5, 15 		EB/1	6020101001	50	EB/1	6020101001	50
width (mm) Raad recommended		9.5			9.5		
Marking Tags 		NS8	For details see Accessories		NS8	For details see Accessories	
Marking Holder		Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable		SL	For details see Accessories		SL	For details see Accessories	
Test Socket 		TSS 3/26/4	6020401101	50	TSS 3/26/4	6020401101	50
Screw Driver 		0.6x3.5 0.5x3	- -	- -	0.6x3.5 0.5x3	- -	- -
Colour							
Dimensions (mm)							
Width/Length		8 / 78			8 / 78		
Height, TH 35-7.5/TH 35-15		55.5/63			55.5/63		
Connection capacity							
Rigid Solid (mm²)		0.5-10			0.5-10		
Rigid stranded (mm²)		0.5-10			0.5-10		
Flexible (mm²)		0.5-6			0.5-6		
American Wire Gauge (AWG)		20-8			20-8		
IEC test gauge		A5			A5		
Stripping length (mm)		12			12		
Clamping screw/Tightening torque (N.m)		M3.5 / 1.2			M3.5/1.2		
Center screw/Tightening torque (N.m)		M3 / 0.5			M3 / 0.5		
Insulation material		PA			PA		

RSTP6(RSTP6)
width 8 mm

KEMA CE

**RT/ST6-CMP**(RSTN6)
width 8 mm

EAC KEMA CE

**IEC 60947-7-1 rated data**

Voltage (V) / Impulse voltage (kV)

Pollution degree/Voltage category/Material group

Current (A)

Cross - section (mm²)

DescriptionTest disconnect terminal, for
mounting on G 32

TH 35-7.5, 15

Terminal block, for mounting on

TH 35-7.5, 15

End Plate

width (mm)

End Plate

width (mm)

Moveable cross-connection, for
2, 3, 4 terminal blocks

Cross-connection*

Bridge-comb

max. current (A)

End bracket, for

TH 35-7.5, 15
width (mm) Raad recommended

End bracket, for

TH 35-7.5, 15
width (mm) Raad recommended

Screw Driver

Marking Tags

Marking Holder

Strip Lable

Colour

RSTP6

500 / 6

3/III/I

41

6

Type**Ordering No.****Qty.**

RSTP6

6010304001

25

-

-

-

EP-RSTP6

1.5

6020201004

50

-

-

-

-

-

-

-

-

-

JEB10-6 10-pos.

JEB3-6 3-pos.

JEB2-6 2-pos.

41

6020506009

6020506002

6020506001

10

50

50

EB/3

10

6020101003

50

EB/1

9.5

6020101001

50

1.0 x 5.5

-

-

NS8

For details see Accessories

Marking Holder

6032100001

10

SI

For details see Accessories

-

Dimensions (mm)

Width/Length

Height, G32/TH 35-7.5/TH 35-15

Connection capacity

Rigid Solid (mm²)

Rigid stranded (mm²)

Flexible (mm²)

American Wire Gauge (AWG)

IEC test gauge

Stripping length (mm)

Clamping screw/Tightening torque (N.m)

Center screw/Tightening torque (N.m)

Insulation material

8 / 63

58.5/54.8/63.2

0.5-10

0.5-10

0.5-6

20-8

A5

12

M3.5

1.2

PA

RT/ST6-CMP

400 / 6

3/III/I

41

6

Type**Ordering No.****Qty.**

-

-

-

RT/ST6-CMP

6010306001

25

-

-

-

EP-RSTN6

1.5

6020201006

50

L2 2-pos.

L3 3-pos.

L4 4-pos.

6020501001

6020501002

6020501003

50

50

50

CC10-6 10-pos.

CC3-6 3-pos.

CC2-6 2-pos.

6020502209

6020502202

6020502201

10

50

50

JEB10-6 10-pos.

JEB3-6 3-pos.

JEB2-6 2-pos.

6020506009

6020506002

6020506001

10

50

50

EB/3

10

6020101003

50

EB/1

9.5

6020101001

50

0.6 x 3.5

0.5 x 3

-

-

-

-

NS8

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

-

-

8 / 70.2

- / 50 / 57.6

0.5-10

0.5-10

0.5-6

20-8

A5

12

M3.5/1.2

M3/0.5

PA

*After releasing the Test Socket, you can use the Cross-connection by inserting (CC) instead of mentioned Test Socket.

Disconnect & Component Terminal Blocks



Disconnect and component terminal blocks can be used, in measurement and control systems.

With disconnect terminals the current can quickly and safely be cut to carry out essential maintenance.

The function of RT/SK, in order to rapidly switching circuits has distinguished this type of terminal.

Furthermore RT/SK1.5 TS is characterized by Test Socket for measuring and monitoring circuits.

In addition to switching the circuits, RT/SK1.5 accompanied by its relating accessories, can be used as diode terminal block in RT/SK1.5-D or fuse terminal block in RT/SK1.5-F (with or without LED indicator).

On customer requirements, the capability of mounting any other components such as resistor, capacitor, etc... on terminal blocks RT/SK1.5 would be considered.

RT/SK1.5

(RDT2.5-C)

width 6 mm

KEW CE



RT/SK1.5-TS

(RDT2.5-CTS)

width 6 mm

KEW CE



IEC 60947-7-1 rated data

Voltage (V) / Impulse voltage (kV)

Pollution degree/Voltage category/Material group

Current (A)

Cross section (mm²)

Max current (A) / Max conductor cross section (mm²)

500 / 6

3/III/I

17.5

1.5

20/2.5

500 / 6

3/III/I

17.5

1.5

20/2.5

Description

Disconnect and component terminal, for mounting on TH 35-7.5, 15

End bracket, for

TH 35-7.5, 15

width (mm) Raad recommended

End bracket, for

TH 35-7.5, 15

width (mm) Raad recommended

Bridge-comb

max. current (A)

Screw Driver

Marking Tags

Marking Holder

Strip Lable

Colour

Type

Ordering No.

Qty.

RT/SK1.5

6010801001

50

EB/3

6020101003

50

10

EB/1

6020101001

50

9.5

BC 10-2.5 10-pos.

BC 3-2.5 3-pos.

BC 2-2.5 2-pos.

32

6020504009

6020504002

6020504001

10

50

50

0.5x3

NS6

Marking Holder

SL

For details see Accessories

6032100001

10

For details see Accessories

RT/SK1.5-TS

Type

Ordering No.

Qty.

RT/SK1.5-TS
With socket screw

6010801006

50

EB/3

6020101003

50

10

EB/1

6020101001

50

9.5

BC 10-2.5 10-pos.

BC 3-2.5 3-pos.

BC 2-2.5 2-pos.

32

6020504009

6020504002

6020504001

10

50

50

0.5x3

NS6

Marking Holder

SL

For details see Accessories

6032100001

10

For details see Accessories

Dimensions (mm)

Width/Length

Height, TH 35-7.5/TH 35-15

Connection capacity

Rigid Solid (mm²)

Rigid stranded (mm²)

Flexible (mm²)

American Wire Gauge (AWG)

IEC test gauge

Stripping length (mm)

Clamping screw

Tightening torque (N.m)

Insulation material

6 / 45.3

47.6 / 55.1

0.5-4

0.5-4

0.5-4

20-12

A4

12

M2.5

0.4-0.6

PA

6 / 45.3

47.6 / 55.1

0.5-4

0.5-4

0.5-4

20-12

A4

12

M2.5

0.4-0.6

PA

RT/SK1.5-D
(RDT2.5-CDC)
width 6 mm



RT/SK1.5-R
(RDT2.5-CRC)
width 6 mm



IEC 60947-7-1 Rated data				RT/SK1.5-D			RT/SK1.5-R		
Voltage/Impulse voltage (kV)				500 / 6			500 / 6		
Diode reverse voltage (V)				1000			-		
Current (A)				17.5 *			17.5		
Diode Current (A)				1			-		
Diode				1N4007			-		
Cross - section (mm²)				1.5			1.5		
Description				Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Disconnect and component terminal, for mounting on TH 35-7.5, 1				RT/SK1.5-D	6010801002	50	RT/SK1.5-R	6010801007	50
End bracket, for G 32				EB/2	6020101002	50	EB/2	6020101002	50
TH 35-7.5, 15				10			10		
width (mm) Raad recommended									
Bridge-comb				BC 10-2.5 10-pos.	6020504009	10	BC 10-2.5 10-pos.	6020504009	10
				BC 3-2.5 3-pos.	6020504002	50	BC 3-2.5 3-pos.	6020504002	50
				BC 2-2.5 2-pos.	6020504001	50	BC 2-2.5 2-pos.	6020504001	50
max. current (A)				32			32		
Screw Driver				0.5x3	-	-	0.5x3	-	-
Marking Tags				NS6	For details see Accessories		NS6	For details see Accessories	
Marking Holder				Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable				SL	For details see Accessories		SL	For details see Accessories	
Colour									

Dimensions (mm)		
Width/Length	6 / 45.3	6 / 45.3
Height, TH 35-7.5/TH 35-15	66.4 / 73.9	66.4 / 73.9
Connection capacity		
Rigid Solid (mm²)	0.5-4	0.5-4
Rigid stranded (mm²)	0.5-4	0.5-4
Flexible (mm²)	0.5-4	0.5-4
American Wire Gauge (AWG)	20-12	20-12
IEC test gauge	A4	A4
Stripping length (mm)	12	12
Clamping screw	M2.5	M2.5
Tightening torque (N.m)	0.4-0.6	0.4-0.6
Insulation material	PA	PA

*The maximum operating current up to 1A, when using diode.

FUS® Terminal Blocks



In accordance with the electrical standards, all electrical equipment control systems and machines must be protected with fuse cartridges, thus fuse terminal blocks have been developed to meet requirements of these standards.

The technical data of the fuse terminal blocks, for the protection of electrical devices, is bounded to the application and the use of products.

The RT/SF4 type holds different segments: The base terminal block and the upper hinged-type fuse carrier.

The RT/SF4 type is equipped with a light indicator which signalizes when the fuse blows. Meanwhile the RT/SF4 terminal block can carry a spare fuse cartridge inside the terminal.

The terminal type RT/SK1.5-F (and RT/SK1.5-FLD) has the advantages of easy removing and replacing of the cap (and the fuse) as well as isolation of the fuse signal circuit from the terminal block base, when detaching the cap.

- Maximum power dissipation of fuse terminal blocks at 23°C (based on IEC 60947-7-3):

Type	Overload & short circuit protection		Exclusive short circuit protection	
	Separate	Compound	Separate	Compound
RT/SF4	1.6 watt	1.6 watt	4 watt	1.6 watt
RT/SK1.5-F	2.5 watt	1.6 watt	4 watt	2.5 watt



IEC 60947-7-3 rated data				RT/SF4			RT/SF4-LD		
Voltage (V) / Impulse voltage (kV)				800 / 8			-		
Pollution degree/Voltage category/Material group				3/III/I			3/III/I		
Current (A)				6.3			6.3		
Cross - section (mm²)				4			4		
Description				Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Fuse terminal block, for mounting on TH 35- 7.5, 15 				RT/SF4	6010201001	25	RT/SF4-LD		
for fuse cartridge 5x20 and 5x25mm							24,48 VDC/AC*	6010202001	25
							110,220 VDC/AC*	6010202002	25
End bracket, for TH 35-7.5, 15 				EB/3	6020101003	50	EB/3	6020101003	50
width (mm) Raad recommended 				10			10		
End bracket, for TH 35-7.5, 15 				EB/1	6020101001	50	EB/1	6020101001	50
width (mm) Raad recommended 				9.5			9.5		
Bridge-comb 				JEB10-6 10-pos.	6020506009	10	JEB10-6 10-pos.	6020506009	10
max. current (A)				JEB3-6 3-pos.	6020506002	50	JEB3-6 3-pos.	6020506002	50
				JEB2-6 2-pos.	6020506001	50	JEB2-6 2-pos.	6020506001	50
				41			41		
Screw Driver 				0.5x3.0	-	-	0.5x3.0	-	-
Marking Tags 				NS8	For details see Accessories		NS8	For details see Accessories	
Marking Holder				Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable				SL	For details see Accessories		SL	For details see Accessories	
Colour 									

Dimensions (mm)		
Width/Length	8 / 72.5	8 / 72.5
Height, TH 35-7.5/TH 35-15	55.6 / 63.1	55.6 / 63.1
Connection capacity		
Rigid Solid (mm²)	0.5-4	0.5-4
Rigid stranded (mm²)	0.5-4	0.5-4
Flexible (mm²)	0.5-4	0.5-4
American Wire Gauge (AWG)	20-12	20-12
IEC test gauge	A4	A4
Stripping length (mm)	12	12
Clamping screw	M3	M3
Tightening torque (N.m)	0.5	0.5
Insulation material	PA	PA

* Other voltages available upon request

RT/SK1.5-F

(RFT2.5-CFC)

width 6 mm



RT/SK1.5-FLD

(RFT2.5-CFCLD)

width 6 mm



IEC 60947-7-3 rated data

Voltage (V) / Impulse voltage (kV)

Pollution degree/Voltage category/Material group

Current (A)

Cross-section (mm²)

RT/SK1.5-F

500 / 6

3/III/I

6.3

1.5

RT/SK1.5-FLD

-

3/III/I

6.3

1.5

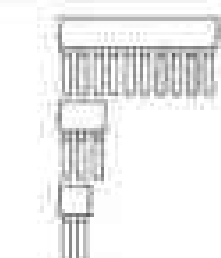
Description

Fuse terminal block, without indicator, for mounting on TH 35- 7.5, 15  for fuse cartridge 5x20 and 5x25mm

End bracket, for G 32  TH 35- 7.5, 15  width (mm) Raad recommended

Bridge-comb 

max. current (A)

Screw Driver 

Marking Tags 

Marking Holder

Strip Lable

Colour 

Type

RT/SK1.5-F

Ordering No.

6010801003

Qty.

25

Type

RT/SK1.5-FLD
24,48 VDC/AC*
110,220 VDC/AC*

Ordering No.

6010801004
6010801005

Qty.

25
25

Type

EB/2

Ordering No.

6020101002

Qty.

50

Type

EB/2

Ordering No.

6020101002

Qty.

50

BC 10-2.5 10-pos.
BC 3-2.5 3-pos.
BC 2-2.5 2-pos.
32

6020504009
6020504002
6020504001

10
50
50

BC 10-2.5 10-pos.
BC 3-2.5 3-pos.
BC 2-2.5 2-pos.
32

6020504009
6020504002
6020504001

10
50
50

0.5x3.0

-

-

0.5x3.0

-

-

NS6

For details see Accessories

NS6

For details see Accessories

Marking Holder

6032100001

10

Marking Holder

6032100001

10

SL

For details see Accessories

SL

For details see Accessories

Dimensions (mm)

Width/Length

6 / 45.3

Height, TH 35-7.5/TH 35-15

66.4 / 73.9

Connection capacity

Rigid Solid (mm²)

0.5-4

Rigid stranded (mm²)

0.5-4

Flexible (mm²)

0.5-4

American Wire Gauge (AWG)

20-12

IEC test gauge

A4

Stripping length (mm)

12

Clamping screw

M2.5

Tightening torque (N.m)

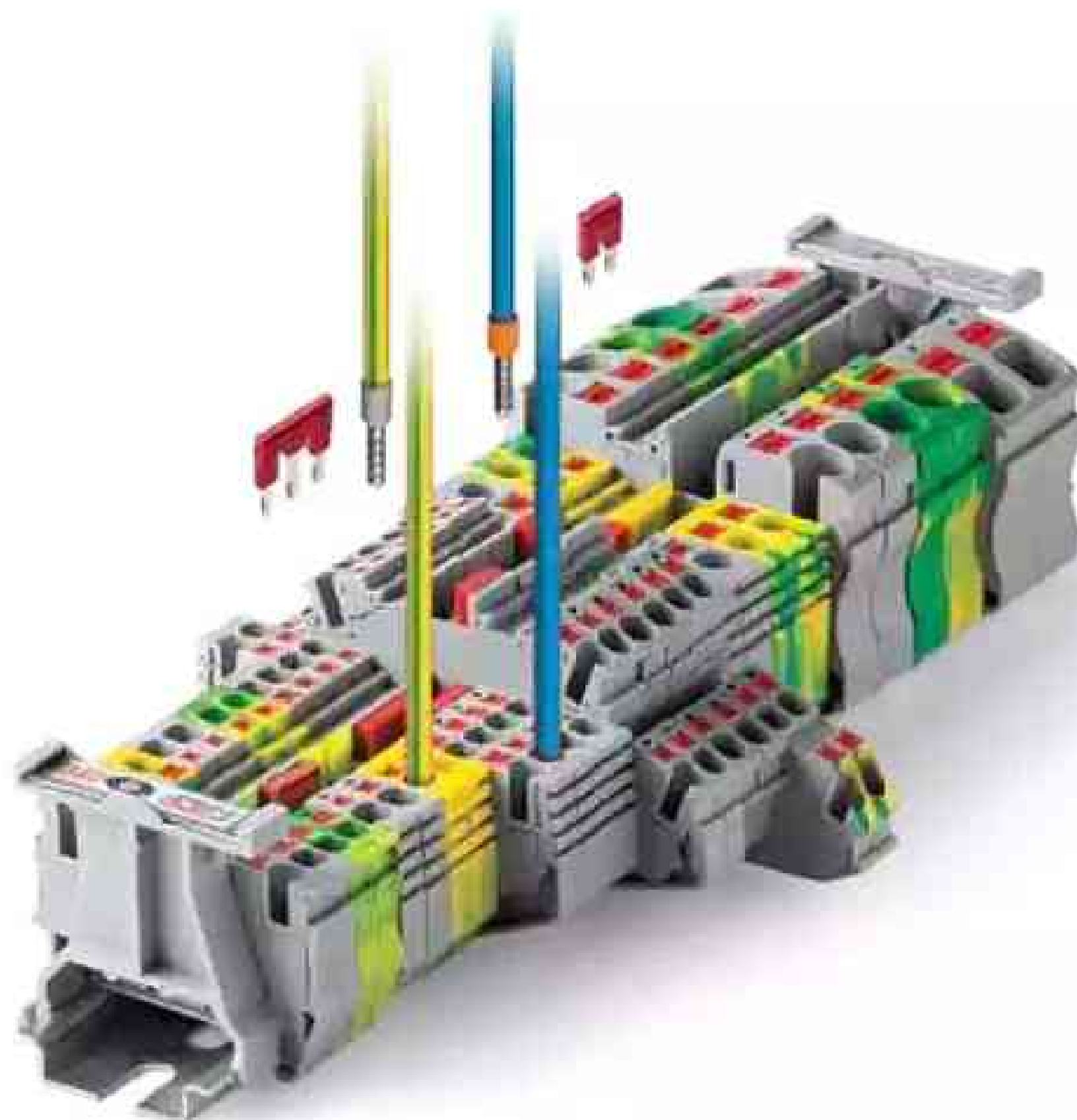
0.4-0.6

Insulation material

PA

* Other Voltages available Upon request

■ Push-In Connection Terminal Blocks



Tool-free cable placing technology in Raad push-in terminal blocks, characterizing this type of terminals by the following advantages:

- Direct inserting of solid conductors or any prepared cables with ferrules (no tools needed).
- Easy release of conductors by the plastic actuation lever with using any type of tools without connecting live parts.
- Space-saving design, optimized handling and easy assembling.
- Easy insertion of conductors by a little pushing force.

RT/PG2.5

(RPIT2.5)

width 5 mm

ERC  CE



RT/PG4

(RPIT4)

width 6 mm

ERC  CE



IEC 60947-7-1 rated data

Voltage (V) / Impulse voltage (kV)

Pollution degree/Voltage category/Material group

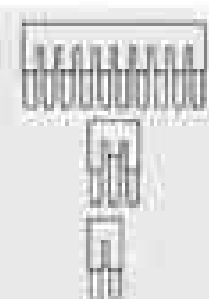
Current (A)

Cross - section (mm²)

Description

Push-in connection terminal for mounting on
TH 35 - 7.5, 15 

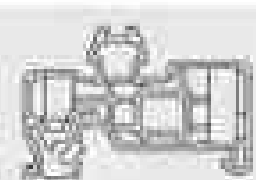
Bridge screwless



End bracket, for
TH 35 - 7.5, 15 
width (mm) Raad recommended



End bracket, for
TH 35 - 7.5, 15 
width (mm) Raad recommended



Marking Tags



Marking Holder

Strip Lable

Colour

RT/PG2.5

800 / 8

3/III/I

24

2.5

Type

Ordering No.

Qty.

RT/PG2.5

6011001005

100

BS 10-2.5 10-pos.

6020505009

10

BS 3-2.5 3-pos.

6020505002

100

BS 2-2.5 2-pos.

6020505001

100

EB/3

6020101003

50

10

6020101001

50

EB/1

6020101001

50

9.5

6032100001

10

Marking Holder

6032100001

10

SL

For details see Accessories

For details see Accessories



RT/PG4

800/8

3/III/I

32

4

Type

Ordering No.

Qty.

RT/PG4

6011002005

100

BS 10-4 10-pos.

6020505109

10

BS 3-4 3-pos.

6020505102

100

BS 2-4 2-pos.

6020505101

100

EB/3

6020101003

50

10

6020101001

50

EB/1

6020101001

50

9.5

6032100001

10

Marking Holder

6032100001

10

SL

For details see Accessories

For details see Accessories



Dimensions (mm)

Width/Length

5/54

6/54

Height, TH 35-7.5/TH 35-15

35.7/43.2

35.7/43.2

Connection capacity

Rigid Solid (mm²)

0.5-2.5

0.5-4

Rigid stranded (mm²)*

0.5-2.5

0.5-4

Flexible (mm²)*

0.5-2.5

1.5-4

American Wire Gauge (AWG)

20-12

20-10

IEC test gauge

A3

A4

Stripping length (mm)

12

12

Insulation material

PA

PA

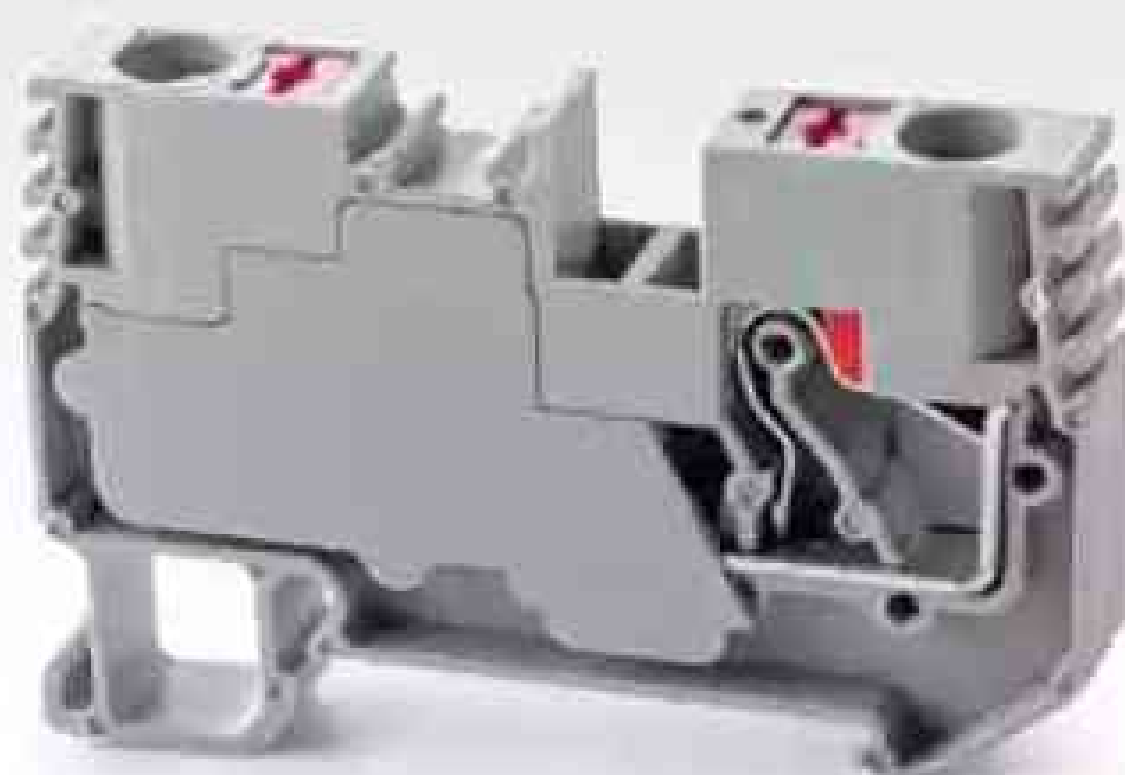
* Prepare this kind of cable with ferrule.

RT/PG6

(RPIT6)

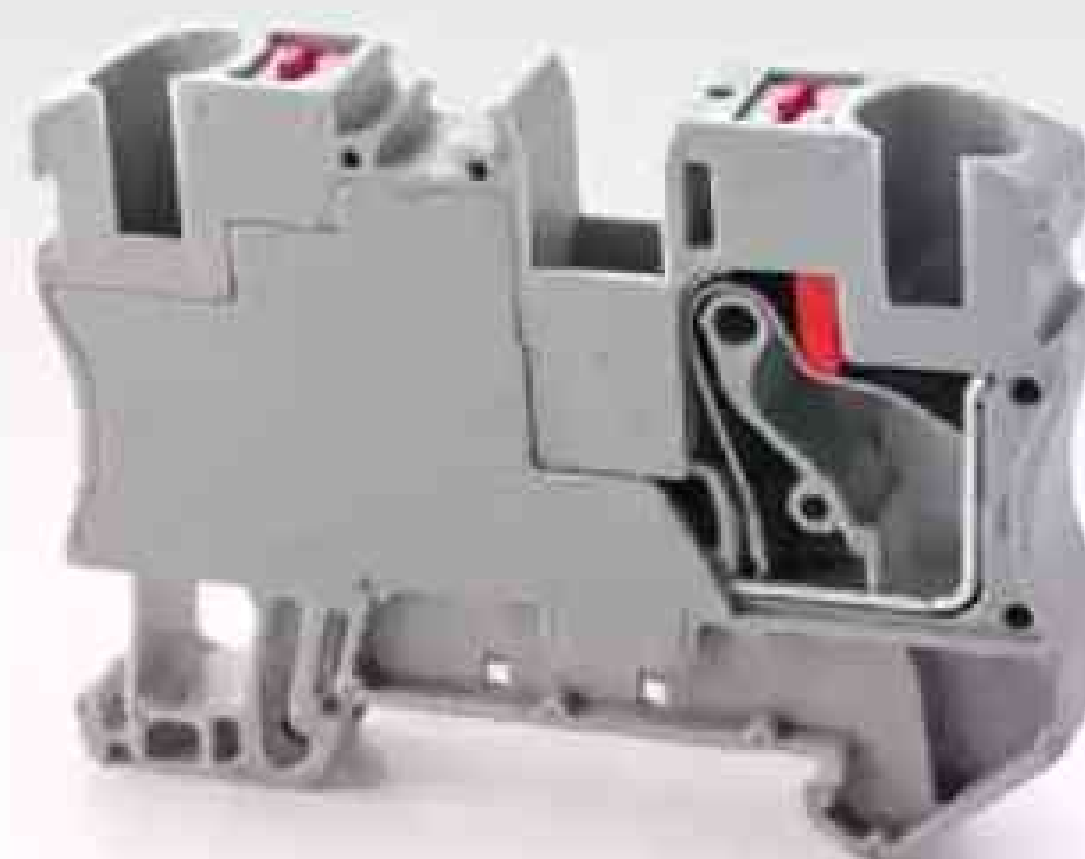
width 8 mm

EAC KEMA CE

**RT/PG10**

(RPIT10)

width 10 mm

**IEC 60947-7-1 rated data**

Voltage (V) / Impulse voltage (kV)

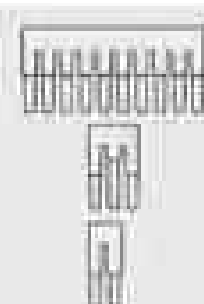
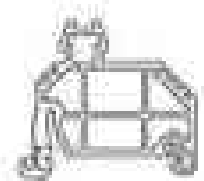
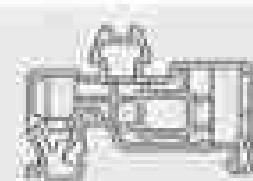
Pollution degree/Voltage category/Material group

Current (A)

Cross - section (mm²)

DescriptionPush-in connection terminal for mounting on
TH 35 - 7.5, 15

Bridge screwless

End bracket, for
TH 35 - 7.5, 15
width (mm) Raad recommendedEnd bracket, for
TH 35-7.5, 15
width (mm) Raad recommended

Marking Tags



Marking Holder

Strip Label

Colour

RT/PG6

1000 / 8

3/III/I

41

6

Type**Ordering No.****Qty.**

RT/PG6

6011003005

50

BS10-6 10-pos.

6020505209

50

BS 3-6 3-pos.

6020505203

50

BS 2-6 2-pos.

6020505201

50

EB/3

6020101003

50

10

EB/1

6020101001

50

9.5

NS8

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

**RT/PG10**

800 / 8

3/III/I

57

10

Type**Ordering No.****Qty.**

RT/PG10

6011004005

50

BS3-10 3pos.

6020505302

10

BS2-10 2pos.

6020505301

10

EB/1

6020101003

50

9.5

EB/3

6020101001

50

9.5

NS10

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

**Dimensions (mm)**

Width/Length

8/61.8

10/68.0

Height, G32/TH 35-7.5/TH 35-15

-/41.9/49.4

50.5/ 58

Connection capacity

Rigid Solid (mm²)

0.5-6

0.5-16

Rigid stranded (mm²)*

0.5-6

0.5-10

Flexible (mm²)*

1.5-6

0.5-10

American Wire Gauge (AWG)

20-8

20-6

IEC test gauge

A5

A6

Stripping length (mm)

12

18

Insulation material

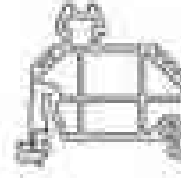
PA

PA

* Prepare this kind of cable with ferrule.

RT/PG16
(RPIT16)
width 12 mm



IEC 60947-7-1 rated data		RT/PG16		
Voltage (V) / Impulse voltage (kV)		1000 / 8		
Pollution degree/Voltage category/Material group		3/III/I		
Current (A)		76		
Cross - section (mm²)		16		
Description		Type	Ordering No.	Qty.
Push-in connection terminal for mounting on TH 35 - 7.5, 15		RT/PG16	6011007005	25
Bridge screwless		BS3-16 3pos.	6020505402	10
		BS2-16 2pos.	6020505401	10
End bracket, for TH 35 - 7.5, 15		EB/1	6020101001	50
width (mm) Raad recommended		9.5		
End bracket, for TH 35- 7.5, 15		EB/3	6020101003	50
width (mm) Raad recommended		10		
Marking Tags		NS10	For details see Accessories	
Marking Holder		Marking Holder	6032100001	10
Strip Lable		SL	For details see Accessories	
Colour				

Dimensions (mm)	
Width/Length	12/ 71.5
Height, TH 35-7.5/TH 35-15	50.5/ 58
Connection capacity	
Rigid Solid (mm²)	0.5-25
Rigid stranded (mm²)*	0.5-16
Flexible (mm²)*	0.5-16
American Wire Gauge (AWG)	20-4
IEC test gauge	
Stripping length (mm)	18
Insulation material	
	PA

* Prepare this kind of cable with ferrule.

Earth Push-In Protective Terminal Blocks



Some of the most practical advantages of using RAAD push-in protective earth terminal blocks have been listed below:

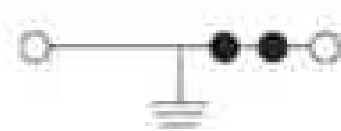
- Significant time and cost savings
- Stainless steel spring continuously providing the necessary contact force between conductor and current carrying part
- Compact construction and high-performance contact technology
- Insulation housing made of high grade fire resistant PA
- Safe and tool-less connecting
- Mountable on TH35 mounting rail
- Easy release of conductor by using any type of tools

RT/PG2.5-E

(RPET2.5)

width 5 mm

ERC K₁₀₀₀



RT/PG4-E

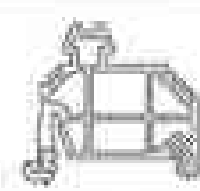
(RPET4)

width 6 mm

ERC K₁₀₀₀



IEC 60947-7-2 rated data	RT/PG2.5-E	RT/PG4-E
Impulse voltage (kV)	8	8
Pollution degree/Voltage category/Material group	3/III/I	3/III/I
Current (A)	-	-
Cross-section (mm ²)	2.5	4

Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Push-in connection terminal for mounting on TH 35-7.5, 15 	RT/PG2.5-E	6011201001	50	RT/PG4-E	6011201002	50
End bracket, for TH 35-7.5, 15  width (mm) Raad recommended 	EB/3	6020101003	50	EB/3	6020101003	50
End bracket, for TH 35-7.5, 15  width (mm) Raad recommended 	EB/1	6020101001	50	EB/1	6020101001	50
Marking Tags 	NS5	For details see Accessories		NS6	For details see Accessories	
Marking Holder	Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable	SL	For details see Accessories		SL	For details see Accessories	
Colour						

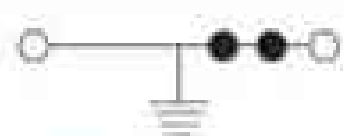
Dimensions (mm)		
Width/Length	5/54	6/54
Height, TH 35-7.5/TH 35-15	35.7/43.2	35.7/43.2
Connection capacity		
Rigid Solid (mm ²)	0.5-2.5	0.5-4
Rigid stranded (mm ²)*	0.5-2.5	0.5-4
Flexible (mm ²)*	0.5-2.5	1.5-4
American Wire Gauge (AWG)	20-12	20-10
IEC test gauge		
Stripping length (mm)	12	12
Insulation material		
	PA	PA

* Prepare this kind of cable with ferrule.

RT/PG6-E

(RPET6)
width 8 mm

ERC KEMA



RT/PG10-E

(RPET10)
width 10 mm



IEC 60947-7-2 rated data

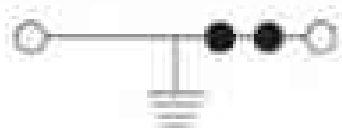
	RT/PG6-E	RT/PG10-E
Impulse voltage (kV)	8	8
Pollution degree/Voltage category/Material group	3/III/I	3/III/I
Current (A)	-	-
Cross-section (mm ²)	6	10

Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Push-in connection terminal for mounting on TH 35-7.5, 15	RT/PG6-E	6011201003	25	RT/PG10-E	6011201003	25
End bracket, for TH 35-7.5, 15 width (mm) Raad recommended	BS10-6	6020505209	100	BS10-6	6020101001	50
End bracket, for TH 35-7.5, 15 width (mm) Raad recommended	EB/1	6020101001	50	EB/1	6020101003	50
Marking Tags	NS8	For details see Accessories		NS10	For details see Accessories	
Marking Holder	Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable	SL	For details see Accessories		SL	For details see Accessories	
Colour						

Dimensions (mm)		
Width/Length	8/61.8	10/68.0
Height, TH 35-7.5/TH 35-15	41.9/49.4	50.5/58
Connection capacity		
Rigid Solid (mm ²)	0.5-6	0.5-16
Rigid stranded (mm ²)*	0.5-6	0.5-10
Flexible (mm ²)*	1.5-6	0.5-10
American Wire Gauge (AWG)	20-8	20-6
IEC test gauge	A5	A6
Stripping length (mm)	12	18
Insulation material	PA	PA

* Prepare this kind of cable with ferrule.

RT/PG16-E
(RPET16)
width 12 mm



IEC 60947-7-2 rated data	RT/PG16-E
Impulse voltage (kV)	8
Pollution degree/Voltage category/Material group	3/III/I
Current (A)	-
Cross-section (mm²)	16

Description	Type	Ordering No.	Qty.
Push-in connection terminal for mounting on TH 35-7.5, 15	RT/PG16-E	6011201005	50
End bracket, for TH 35-7.5, 15 width (mm) Raad recommended	EB/1	6020101001	50
End bracket, for TH 35-7.5, 15 width (mm) Raad recommended	EB/3	6020101003	50
Marking Tags	NS10	For details see Accessories	
Marking Holder	Marking Holder	6032100001	10
Strip Lable	SL	For details see Accessories	
Colour			
Dimensions (mm)			
Width/Length		12/71.5	
Height, TH 35-7.5/TH 35-15		50.5/ 58	
Connection capacity			
Rigid Solid (mm²)		0.5-25	
Rigid stranded (mm²)*		0.5-16	
Flexible (mm²)*		0.5-16	
American Wire Gauge (AWG)		20-4	
IEC test gauge		A7	
Stripping length (mm)		18	
Insulation material		PA	

* Prepare this kind of cable with ferrule.

Multi-Level Push-In Terminal Blocks



RAAD Multi-Level Push-in Terminal Blocks are manufactured to:

- Have a neat design, which saves you space.
- Be suited, exclusively, for 1 or 3-phase load connection.
- Be easy access and independent levels.
- Resist fire due to material, PA.
- Have a high standard locking mechanism in its clamps.
- Be compatible with small accessories.
- Comply with IEC 60947-7-1.
- Be safe and less consuming due to its tool-less connection.
- Be mounted on TH 35 rails.

RT/PG2.5-2L

(DPIT2.5)

width 5 mm

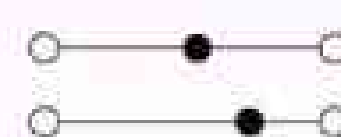
ERC (Kewen)



RT/PG4-2L

(DPIT4)

width 6 mm



IEC 60947-7-1 Rated Data

	RT/PG2.5-2L	RT/PG4-2L
Voltage(V)/Impulse voltage (kV)	500/6	500/8
Pollution degree/Voltage category/Material group	3/III/I	3/III/I
Current (A)	24	32
Cross-section (mm²)	2.5	4

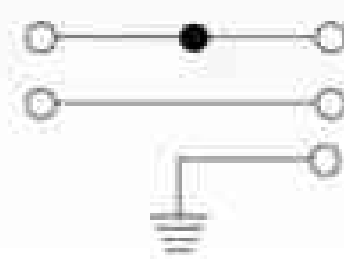
Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Push-in connection terminal for mounting on TH 35-7.5, 15	RT/PG2.5-2L	6011101001	50	RT/PG4-2L	6011102005	50
Bridge screwless	BS 10-2.5 10-pos.	6020505009	10	BS10-4 10-pos.	6020505109	10
	BS 3-2.5 3-pos.	6020505002	100	BS3-4 3-pos.	6020505102	100
	BS 2-2.5 2-pos.	6020505001	100	BS2-4 2-pos.	6020505101	100
End bracket, for TH 35-7.5, 15	EB/3	6020101003	50	EB/1	6020101001	50
width (mm) Raad recommended	10			9.5		
End bracket, for TH 35-7.5, 15	EB/1	6020101001	50	EB/3	6020101003	50
width (mm) Raad recommended	9.5			10		
Partition	GP	6020305005	20	GP	6020305005	20
Width (mm)	3			3		
Marking Tags	NS5	For details see Accessories		NS6	For details see Accessories	
Marking Holder	Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Lable	SL	For details see Accessories		SL	For details see Accessories	
Colour						

Dimensions (mm)		
Width/Length	5.2/88	6/88
Height, TH 35-7.5/TH 35-15	50.2/58.1	50.4/57.9
Connection capacity		
Rigid Solid (mm²)	0.5-2.5	0.5-6
Rigid stranded (mm²)*	0.5-2.5	0.5-4
Flexible (mm²)*	0.5-2.5	0.5-4
American Wire Gauge (AWG)	20-12	20-10
IEC test gauge	A3	A4
Stripping length (mm)	12	12
Insulation material	PA	PA

* Prepare this kind of cable with ferrule.

RT/PG2.5-3L0E5

width 5 mm



IEC 60947-7-1 Rated Data

Voltage(V)/Impulse voltage (kV)
Pollution degree/Voltage category/Material group
Current (A)
Cross-section (mm²)

RT/PG2.5-3L0E5

500/6
3/III/I
24
2.5

Description

Push-in connection terminal for mounting on TH 35-7.5, 15

Bridge screwless

End bracket, for TH 35-7.5, 15 width (mm) Raad recommended

End bracket, for TH 35-7.5, 15 width (mm) Raad recommended

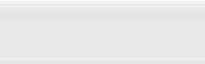
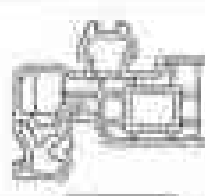
Partition Width (mm)

Marking Tags

Marking Holder

Strip Lable

Colour



Type

RT/PG2.5-3L0E5

BS10-2.5 10-pos.
BS3-2.5 3-pos.
BS2-2.5 2-pos.

EB/1

9.5

EB/3
10

GP
3

NS5

Marking Holder

SL

Ordering No.

6011202001

6020505009
6020505002
6020505001

6020101001

6020101003

6020305005

For details see Accessories

6032100001

For details see Accessories

Qty.

30

10
100
100

50

50

20

10

Dimensions (mm)

Width/Length	5.2/101
Height, TH 35-7.5/TH 35-15	50.2/58.1

Connection capacity

Rigid Solid (mm²)	0.5-2.5
Rigid stranded (mm²)*	0.5-2.5
Flexible (mm²)*	0.5-2.5
American Wire Gauge (AWG)	20-12

IEC test gauge

Stripping length (mm)	12
Insulation material	PA

* Prepare this kind of cable with ferrule.

Multi-Conductor Push-in Terminal Blocks



RAAD Multi-Conductor Push-in Terminal Blocks are manufactured to:

- Resist corrosion, due to its high grade material.
- Contain reliable solution for multiple wire connections.
- Meet the specifications and strict requirements of IEC 60947-7-1 standard.
- Offer space-saving alternative for high density wiring.
- Easily snap onto the DIN rail, TH 35, to make a reliable mechanical contact.
- Enable solid and stranded conductors to be connected without any tools.
- Resist fire due to material, PA.
- Comply with a comprehensive range of accessories, marking and bridging.

RT/PG2.5-1/2

(RPIT2.5)

width 5 mm



RT/PG2.5-2/2

(RPIT2.5-2/2)

width 5 mm



IEC 60947-7-1 Rated Data

	RT/PG2.5-1/2	RT/PG2.5-2/2
Voltage(V)/Impulse voltage (kV)	800/8	800/8
Pollution degree/Voltage category/Material group	3/III/1	3/III/1
Current (A)	24	24
Cross-section (mm ²)	2.5	2.5

Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Push-in connection terminal for mounting on TH 35-7.5, 15	RT/PG2.5-1/2	6011005005	40	RT/PG2.5-2/2	6011006001	40
Bridge screwless	BS 10-2.5 10-pos.	6020505009	10	BS 10-2.5 10-pos.	6020505009	10
	BS 3-2.5 3-pos.	6020505002	100	BS 3-2.5 3-pos.	6020505002	50
	BS 2-2.5 2-pos.	6020505001	100	BS 2-2.5 2-pos.	6020505001	50
End bracket, for TH 35-7.5, 15 width (mm) Raad recommended	EB/3	6020101003	50	EB/3	6020101003	50
End bracket, for TH 35-7.5, 15 width (mm) Raad recommended	9.9			9.9		
	EB/1	6020101001	50	EB/1	6020101001	50
	9.5			9.5		
Marking Tags	NS5	For details see Accessories		NS5	For details see Accessories	
Marking Holder	Marking Holder	6032100001	10	Marking Holder	6032100001	10
Strip Label	SL	For details see Accessories		SL	For details see Accessories	
Colour						

Dimensions (mm)		
Width/Length	5.2/65	5.2/76.5
Height, TH 35-7.5/TH 35-15	35.4/43.2	35.4/43.2
Connection capacity		
Rigid Solid (mm ²)	0.5-2.5	0.5-2.5
Rigid stranded (mm ²)*	0.5-2.5	0.5-2.5
Flexible (mm ²)*	0.5-2.5	0.5-2.5
American Wire Gauge (AWG)	20-12	20-12
IEC test gauge	A3	A3
Stripping length (mm)	12	12
Insulation material	PA	PA

* Prepare this kind of cable with ferrule.

High Current Terminal Blocks



- The RT/SH series are developed to have safe connection of high current carrying conductors in 70, 95, 150, 240 (mm²) sizes.
- Mountable on TH35-7.5, 15 Rail profile in accordance with IEC60715.
- The insulating material is PA, high grade fire resistant.(UI 94)
- Safety from finger touch of live parts by using its supplied special covers.
- Isolation cover can be managed to fit different cable lugs.

RT/SH70

(RTB70)

width 43.5 mm

ERC



RT/SH95

(RTB95)

width 43.5 mm

ERC



IEC 60947-7-1 rated data

Voltage(V)/Impulse voltage (kV)
Pollution degree/Voltage category/Material group
Current (A)
Cross - section (mm²)

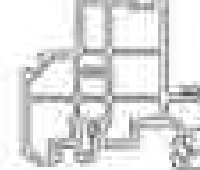
RT/SH70

1000/8
3/III/I
192
70

RT/SH95

1000 / 8
3/III/I
232
95

Description

Terminal block, for mounting on
TH 35-7.5, 15 
End bracket, for
TH 35- 7.5, 15 
width (mm) Raad recommended 
End bracket, for
G 32 , TH 35-7.5, 15 
width (mm) Raad recommended 
Cover
Marking Tags 
Marking Holder
Strip Lable
Colour

Type

Ordering No.

Qty.

RT/SH70

6010501002

5

EB/3

6020101003

50

10

EB/2

6020101002

50

10

RT/SH70

6020803001

10

NS10

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

●

Type

Ordering No.

Qty.

RT/SH95

6010502002

5

EB/3

6020101003

50

10

EB/2

6020101002

50

10

RT/SH95

6020803001

10

NS10

For details see Accessories

Marking Holder

6032100001

10

SL

For details see Accessories

●

Dimensions (mm)

Width/Length

43.5/202

43.5/202

Height, TH 35-7.5/TH 35-15

72/79

72/79

Connection capacity

Cable lugs DIN 46234 (mm²)

2.5-70

6-95

Cable lugs DIN 46235 (mm²)

16-70

16-95

American Wire Gauge DIN 46234 (AWG)

14-2/0

10-3/0

American Wire Gauge DIN 46235 (AWG)

6-2/0

6-3/0

Clamping screw

M8

M10

Hole diameter/Power rail

9/25 x 3

11/25 x 5

Tightening torque (N.m)

15-20

25-30

Insulation material

PA

PA

RT/SH150

(RTB150)

width 43.5 mm

EAC

**RT/SH240**

(RTB240)

width 46 mm

EAC

**IEC 60947-7-1 rated data**

Voltage(V)/Impulse voltage (kV)

Pollution degree/Voltage category/Material group

Current (A)

Cross - section (mm²)**Description**Terminal block, for mounting on
TH 35-7.5, 15 End bracket, for
TH 35- 7.5, 15 
width (mm) Raad recommendedEnd bracket, for
G 32 , TH 35-7.5, 15 
width (mm) Raad recommended

Cover

Marking Tags

Marking Holder

Strip Lable

Colour

**RT/SH150**

1000/8

3/III/I

309

150

Type

RT/SH150

EB/3

10

EB/2

10

RT/SH150

NS10

Marking Holder

SL

Ordering No.

6010503001

6020101003

6020101002

6020803001

For details see Accessories

6032100001

For details see Accessories

Qty.

5

50

50

10

10

RT/SH240

1000 / 8

3/III/I

415

240

Type

RT/SH240

EB/3

10

EB/2

10

RT/SH240

NS10

Marking Holder

SL

Ordering No.

6010504001

6020101003

6020101002

6020803002

For details see Accessories

6032100001

For details see Accessories

Qty.

4

50

50

10

10

Dimensions (mm)

Width/Length

Height, G32/TH 35-7.5/TH 35-15

Connection capacityCable lugs DIN 46234 (mm²)Cable lugs DIN 46235 (mm²)

American Wire Gauge DIN 46234 (AWG)

American Wire Gauge DIN 46235 (AWG)

Clamping screw

Hole diameter/Power rail

Tightening torque (N.m)

Insulation material

43.5/202

-72/79

10-150

25-150

8-300 Kcmil

4-300 Kcmil

M12

13/30 x 5

25-30

PA

46/251

-74/81

25-240 *

50-185 *

4-500 Kcmil

0-350 Kcmil

M16

17/29.7 x 9.7

30-35

PA

*Cable Lugs for RT/SH 240 should be installed under the current bar.

Transformer Terminal Blocks



- RAAD transformer terminal blocks with nominal cross section 4mm² and operating voltage 800V are made in accordance with IEC 60947-7-1.
- Flame proof material PA, flammability class V2.
- Can be fit insulating cover.
- No need for special preparations.
- Easy to mark.

IEC 60947-7-1 rated data

Voltage(V)/Impulse voltage (KV)
Pollution degree/ Voltage category/ Material group
Current (A)
Cross - section (mm²)

RT/TC4

800 / 6
3/III/1
32
4

Description

Transformer terminal block
Marking Tags
color

1 2 3

Type

RT/TC4
NS6.4

Ordering No.

6010499002
For details see Accessories

Qty.

50

Dimensions (mm)

Width/Length

7.55/21.7

Connection capacity

Rigid solid (mm²)

0.5-4

Rigid stranded (mm²)

0.5-4

Flexible (mm²)

0.5-4

American wire gauge (AWG)

20-12

IEC test gauge

A4

Striping length (mm)

9

Clamping screw

M2.5

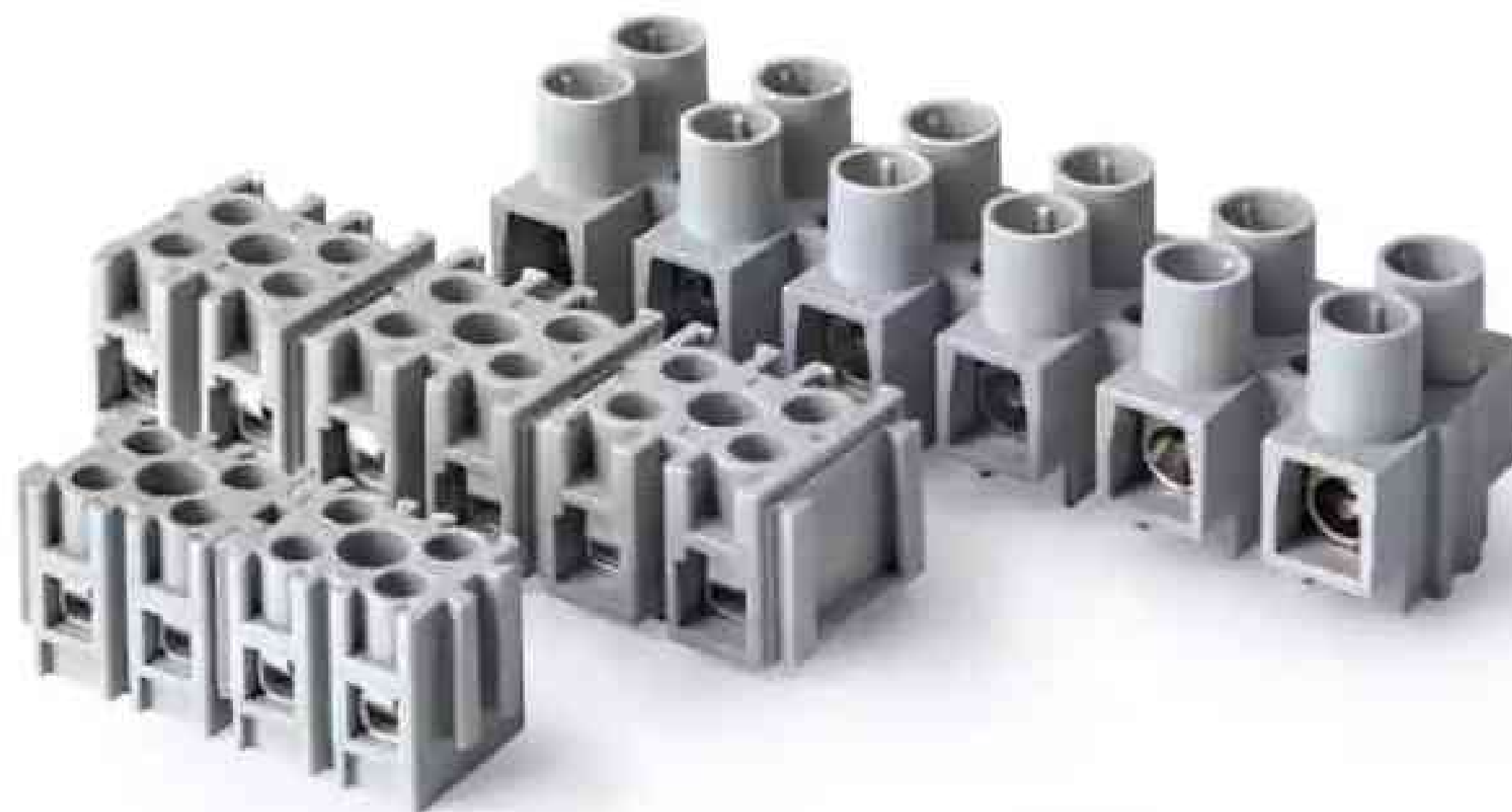
Tightening torque (N.m)

0.6

Insulation material

PA

Strip Series Terminal Blocks



The Strip terminals can be used for household and similar purposes, with direct mounting.

- The types RT/SS2.5 and RT/SS6 strip terminals have the benefit of double modules, "which can be mounted with any required strips by sliding fitting."



- The similar height for RT/SS2.5 and RT/SS6 has distinguished these types of terminals, due to make adjacent terminal blocks in different sizes with unit height, by tightening their bodies together.



RT/SS2.5
(RMT2.5)
EBC

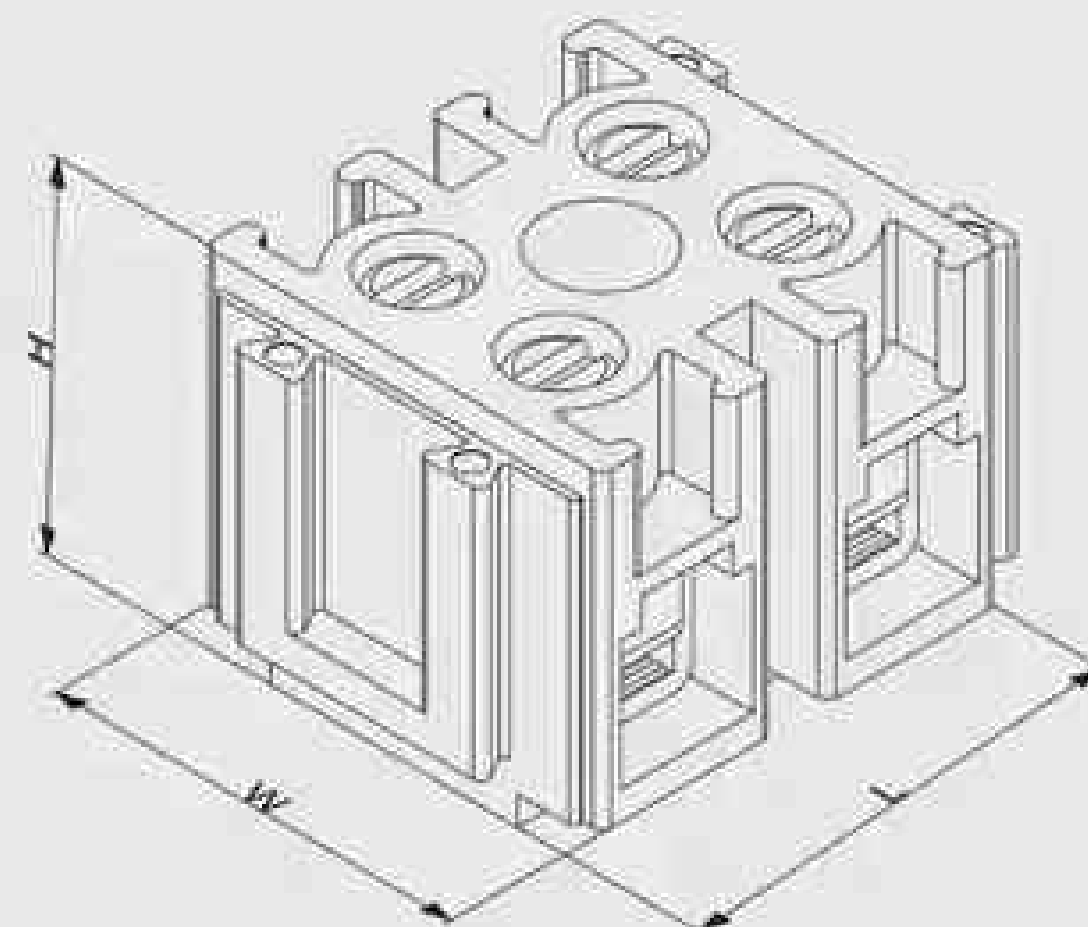
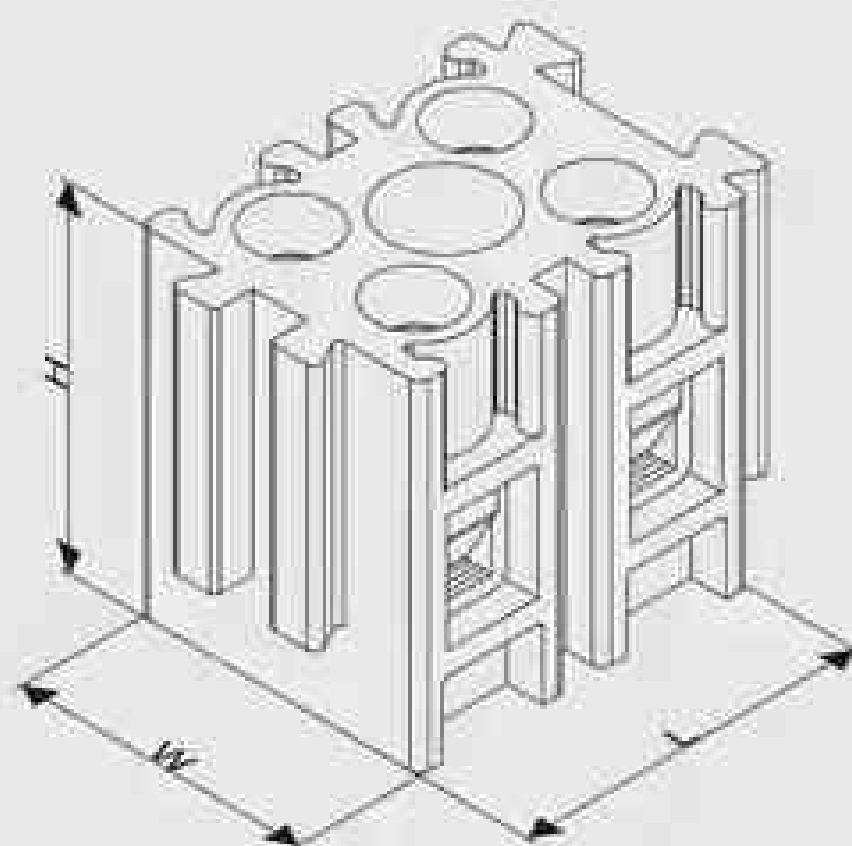


RT/SS6
(RMT6)
EBC



IEC 60947-7-1	RT/SS2.5			RT/SS6		
Voltage (V) / Impulse voltage (kV)	500 / 6			750 / 8		
Pollution degree/Voltage category/Material group	3/III/I			3/III/I		
Current (A)	24			41		
Cross - section (mm²)	2.5			6		
Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Strip Terminals Block	RT/SS2.5	6010103001	100	RT/SS6	6010103002	60
Screw Driver 	0.5x3.0	5010204002	-	0.6x3.5	5010204003	-
Marking Tags 	NS6	For details see Accessories		NS6	For details see Accessories	
Colour						

Connection capacity		
Rigid Solid (mm²)	0.5-4	0.5-10
Rigid stranded (mm²)	0.5-4	0.5-10
Flexible (mm²)	0.5-2.5	0.5-6
American Wire Gauge (AWG)	20-12	20-8
IEC test gauge	A3	A5
Stripping length (mm)	10	12
Clamping screw/Tightening torque (N.m)	M2.5 / 0.4-0.6	M3.5 / 0.8-1.2
Insulation material	PA	PA
Dimensions (W/H/L) (mm)	14.7/17.8/21.4	21/17.8/25.5



RT/SS16
(B16)



IEC 60998-2-1		RT/SS16	
Voltage (V) / Impulse voltage (kV)		400 / 6	
Pollution degree/Voltage category/Material group		3/III/I	
Current (A)		76	
Cross - section (mm²)		16	
Description	Type	Ordering No.	Qty.
Strip Terminals Block	RT/SS16/12	6010102008	8
	RT/SS16/10	6010102007	16
	RT/SS16/8	6010102006	24
	RT/SS16/6	6010102005	30
	RT/SS16/5	6010102004	32
	RT/SS16/4	6010102003	48
	RT/SS16/3	6010102002	32
	RT/SS16/2	6010102001	96
Screw Driver		1.0x5.5	5010204004
Colour			

Connection capacity	
Rigid Solid (mm²)	0.5-16
Rigid stranded (mm²)	0.5-16
Flexible (mm²)	0.5-10
American Wire Gauge (AWG)	6-20
IEC test gauge	
Stripping length (mm)	8.5
Clamping screw/Tightening torque (N.m)	
Insulation material	PA
Dimensions (W/H/L) (mm)	
15/26.4/26.4	

Splicing Connectors



- Best for use in junction boxes, power-houses and compact electrical devices, LED light fixtures
- Convenient wiring via extremely compact design
- Easy to use, Easy insertion of conductors (Rigid or stranded 0.5 to 4 mm²)
- Available in 2, 3 and 5 wire connectors
- specially designed for low-voltage installations (up to 450 V and up to 32A)
- providing safe and strength electrical and mechanical connections
- Continuous operating temperature -20 C0 to 85 C0 (working)
- Designed according to IEC 60998-1 requirements
- Test slot designed for measuring the connector voltage
- Transparent housing to assure proper insertion of conductors

IEC 60947-7-1 rated data

Voltage(V)/Impulse voltage (KV)
Pollutiondegree/Voltagecategory/Materialgroup
Current (A)
Gross - section (mm²)

RT/LH4

450/ 4
3/III/I
32A
4

Description	Type	Ordering No.	Qty.
Splicing Connector	RT/LH4-5 5-pos.	6011301005	50
	RT/LH4-3 3-pos.	6011301003	50
	RT/LH4-2 2-pos.	6011301002	50
Total number of connection points	2,3,5		
color	Transparent		

Dimensions (mm)

Width/ Height
Length: 2 pole, 3 pole, 5 pole

20.6/ 10.5
13/ 18.6/ 29.8

Connection capacity

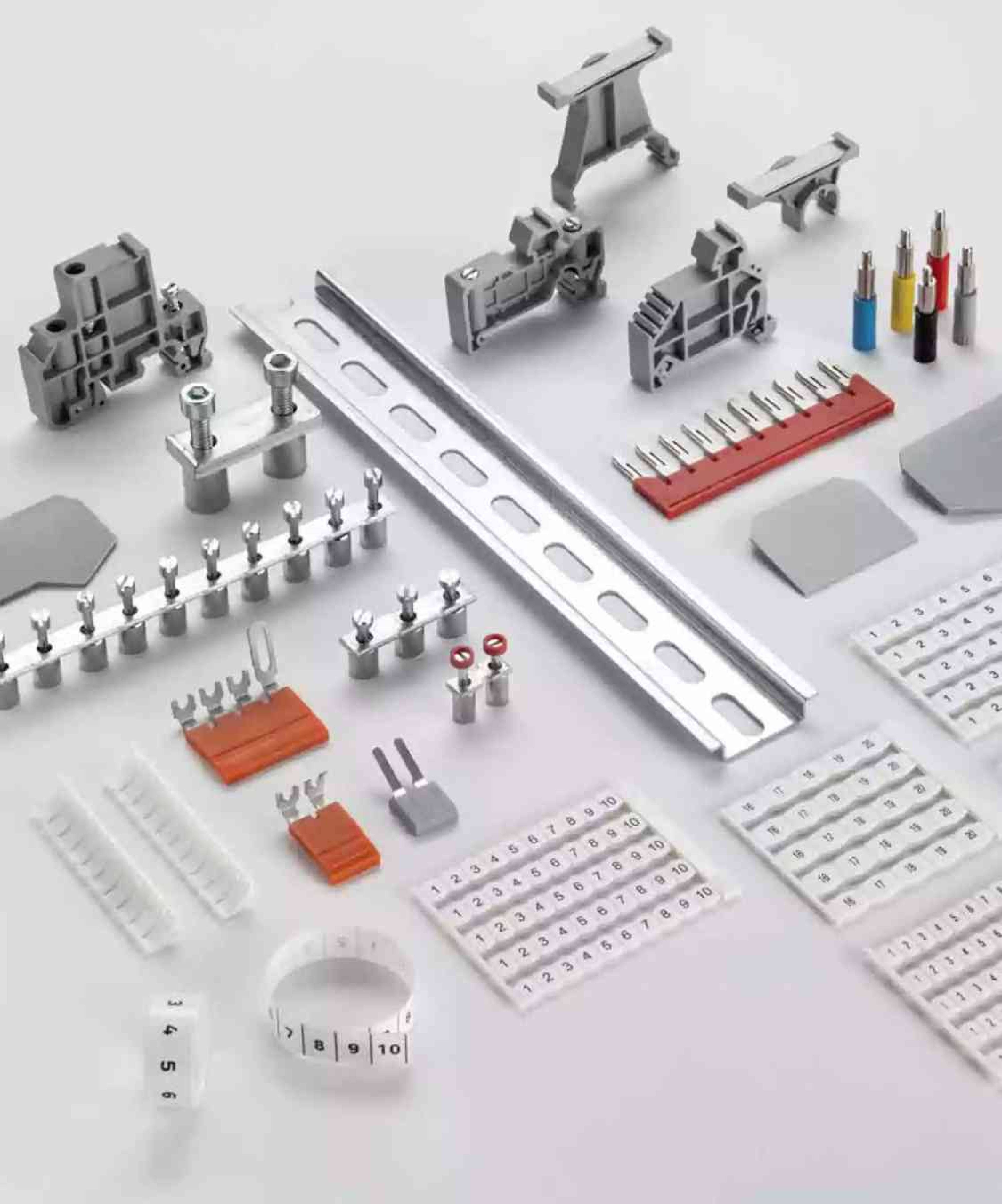
Solid (mm²)
Stranded (mm²)
American wire gauge (AWG)
Strip length (mm)

0.5-4
0.5-4
20 - 12
11

IEC test gauge

Insulation material: body, lever
Flammability rating per UL 94
Weight (g), 2 pole, 3 pole, 5 pole

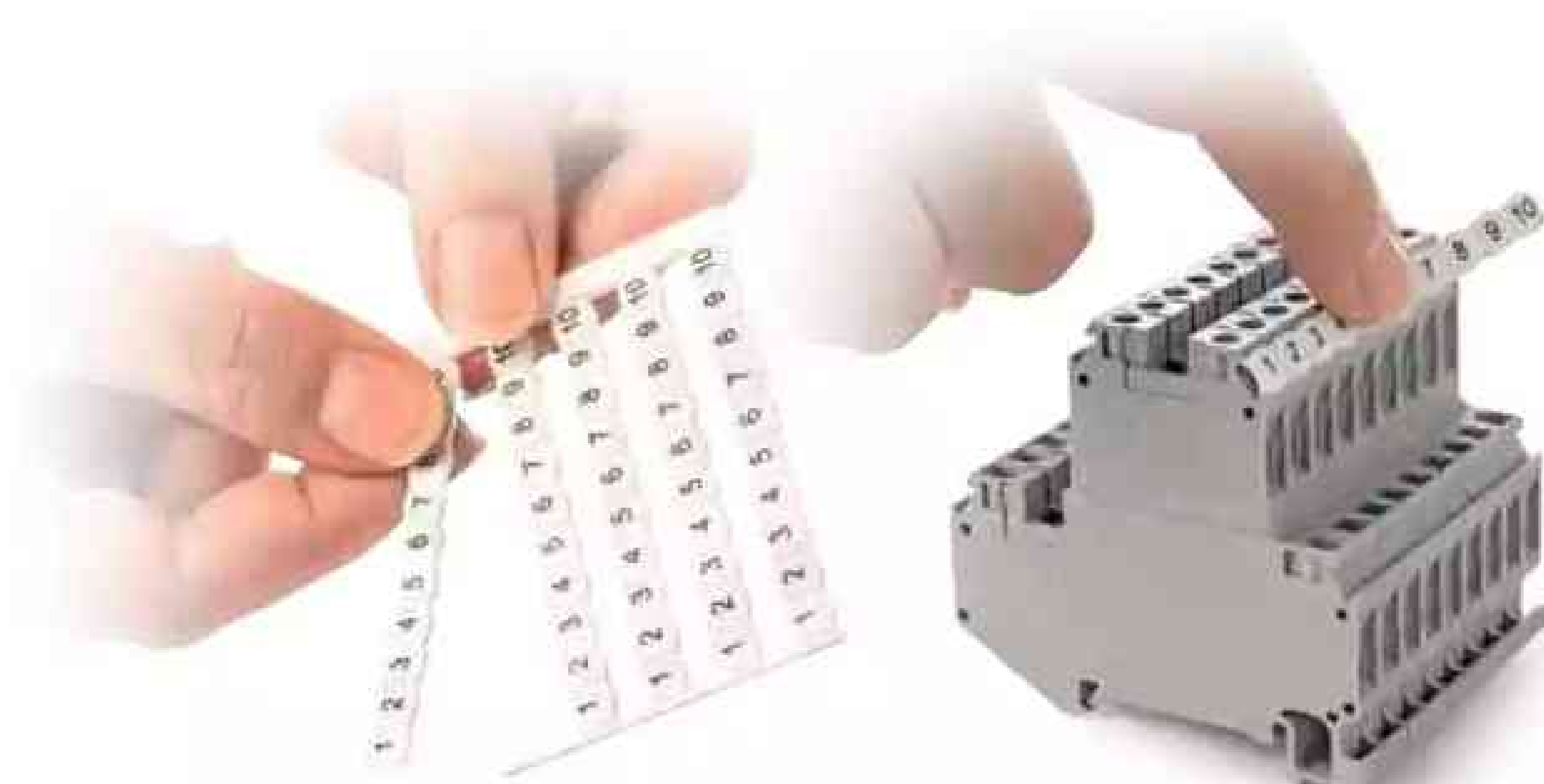
A3
PC/ PA
V2
2.3/ 3.3/ 5





■ Terminal Block Accessories

- **Marking System**
- **End Plates and Partitions**
- **Cross-Connections**
- **Test Accessories**
- **End Brackets**



Marking System

Marking Tags

The NS type Marking Tags

This type of labeling meets the advantage of easy and quick handling. The NS sheets consist of white polyamide with black printings. The sheets are labeled horizontally with maximum 3 characters, easy to read and high-contrast. The hot impressed black printings are absolutely wiping resistant. One NS sheet consists of 5 strips, includes 10 single tags that can be simply pushed into the label slots of the terminal blocks. The NS sheets can be divided at any point and can be manually labeled with ease.



NS5 (width 5 mm)	NS6 (width 6 mm)	NS6.4 (width 6.4 mm)	NS8 (width 8 mm)	NS10 (width 10 mm)
RT/PG2.5	RT/SU2.5	RT/SU4	RT/SU6	RT/SU10
RT/PG2.5-E	RT/SU2.5-H	RT/SU4-E	RT/SU6-E	RT/SU10-E
RT/PG2.5-2L	RT/SU2.5-E	RT/SU4-SO	RT/ST6	RT/SU10-SO
RT/PG2.5-1/2	RT/SU2.5-SO	RT/SU4-2L	RT/ST6-L	RT/SU16
RT/PG2.5-2/2	RT/SU2.5-2L	RT/SU4-3L	RT/ST6-SHT	RT/SU16-E
RT/PG2.5-3LOE5	RT/SU2.5-2L-L		RT/ST6-SHT-L	RT/SU25
	RT/SU2.5-3LOE5		RSTP6	RT/SU35
	RT/SK1.5		RT/ST6-CMP	RT/SU35-E
	RT/SK1.5-TS		RT/SF4	RT/SU50
	RT/SK1.5-D		RT/SF4-LD	RT/SU70
	RT/SK1.5-R		RT/PG6	RT/SU95
	RT/SK1.5-F		RT/PG6-E	RT/SU150
	RT/SK1.5-FLD			RT/PG10
	RT/PG4			RT/PG10-E
	RT/PG4-E			RT/PG16
	RT/SS2.5			RT/PG16-E
	RT/PG4-2L			RT/SH70
	RT/SS6			RT/SH95
				RT/SH150
				RT/SH240

Packing

The NS sheets are delivered in plastic bags of 10 sheets=50 strips=500 single tags.

NS Special printings

Special printings can be offered on request.

Marking Strip

The Marking Strip

This type of label is used in both push-in and screw terminal blocks on a specific place in the body and can be printed by our thermal printers easily. The material of the strip is PVC which has 11.2 mm width and is arranged in 2 rows in each roll. There is a special accessory called NS holder which is used to mount this strip on terminals that do not the strip place in the body. In the below table products that have the possibility to use these marking accessories are listed.



Marking strip

Push-in terminal blocks:

RT/PG2.5, RT/PG2.5E, RT/PG2.5-1/2, RT/PG2.5-2/2, RT/PG4, RT/PG4E, RT/PG6, RT/PG6E, RT/PG10, RT/PG10E, RT/PG16, RT/PG16E, RT/PG2.5-2L, RT/PG4-2L, RT/ST6-SHT, RT/ST6-SHT-L, RT/SF4, RT/SF4-LD, RT/PG2.5-3LOE5,

Screw terminal blocks:

RT/SG2.5, RT/SG2.5E, RT/SG4, RT/SG4E, RT/SG6, RT/SG6E, RT/SG10, RT/SG10E, RT/SU10-2L

NS Holder

Screw terminal blocks:

RT/SU2.5, RT/SU4, RT/SU6, RT/SU10, RT/SU16, RT/SU25, RT/SU35, RT/SU50, RT/SU95, RT/SU150, RT/SU4-2L, RT/SU2.5-2L, RT/SU2.5-2L-L, RT/SH70, RT/SH95, RT/SH150, RT/SH240, RT/SK2.5, RT/SU4-3L, RT/SK2.5-TS, DSO, DSO-LD, RT/ST6, RT/ST6-L, RT/ST6-CMP, RSTP6

Accessories: EB/1, EB/2, EB/3,

Group Marking Carriers

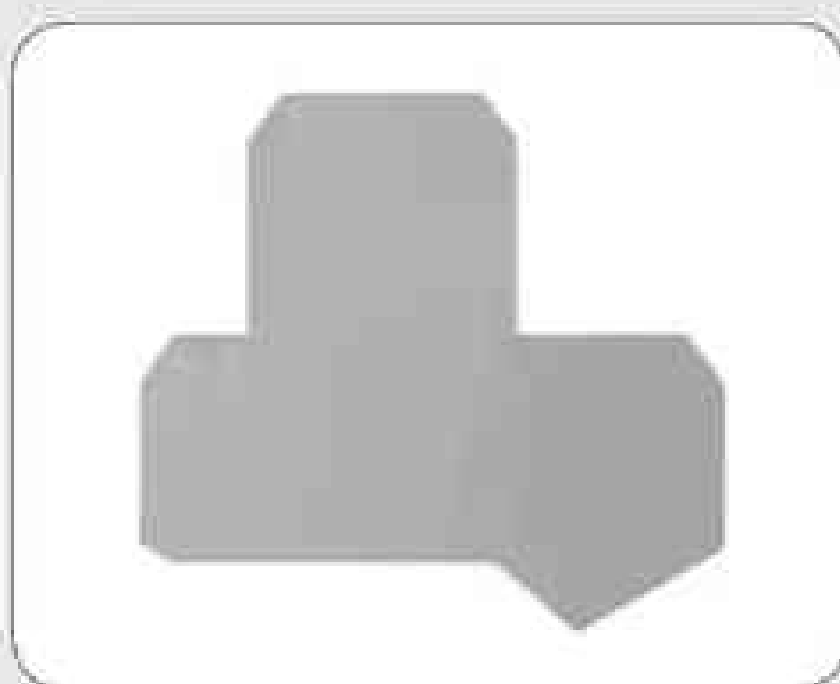


Description	Type	Ordering No.	Qty.	Material	Dimensions (W/H/L)(mm)
Group marking carrier, for mounting on TH 35- 7.5, 15 width (mm)	LB/1 18.5	6020102001	50	PA	19.5 / 47 / 44.4

Description	Type	Ordering No.	Qty.	Material	Dimensions (W/H/L)(mm)
Group marking carrier, for mounting on TH 35- 7.5, 15 width (mm)	LB/2 18.5	6020102002	50	PA	9.5 / 47.1 / 43.7

Description	Type	Ordering No.	Qty.	Material	Dimensions (W/H/L)(mm)
Group marking carrier, for mounting on EB/1 width (mm)	ELB/1 18.5	6020102003	50	PA	9.5 / 22.6 / 43.7

End Plates and Partitions

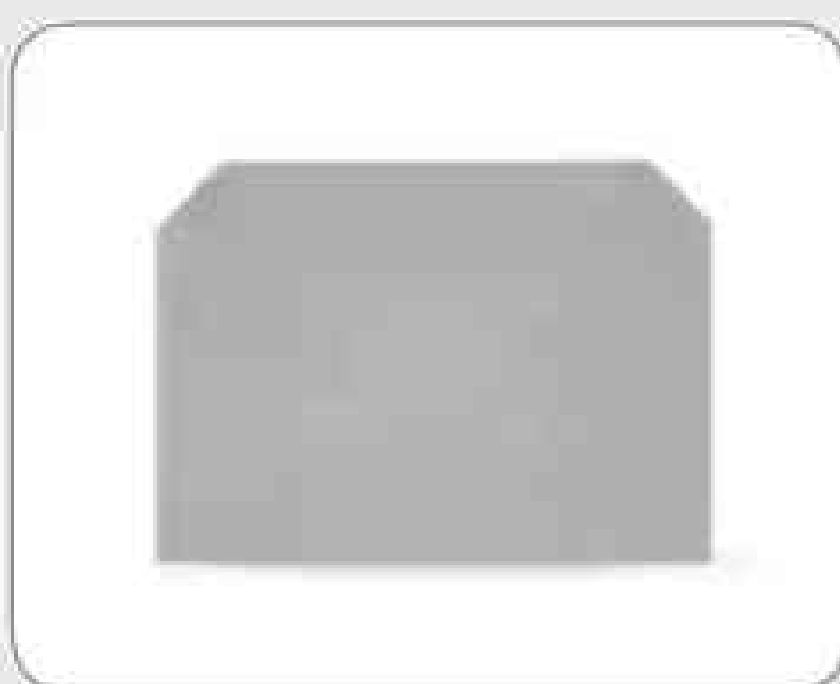


End Plate (EP)

The last terminal in a row must, in most cases, be covered with an end plate. Within one terminal strip, composed of various terminal sizes, end plates should also be interposed. The end plate external dimensions correspond to the core dimensions of the attendant terminal. The end plates are held by an end bracket.

Type	Ordering No.	Application	Material	Qty.
EP-RDT4	6020204101	RDT4-R1, RDT4-D1, RDT4-TS, RDT4	PA6.6	100
EP-RTP2.5	6020202005	RT/SU2.5	PA6.6	100
EP-RTP4, 6, 10	6020202105	RT/SU2.5, 2.5H, 4, 6, 10	PA6.6	50
EP1-DRTP4	6020203002	RT/SU4-2L	PA6.6	20
EP2-DRTP4	6020203003	RT/SU4-2L	PA6.6	20
EP3-DRTP4	6020203004	RT/SU4-2L	PA6.6	20
EP-RSTT6	6020201003	RT/ST6-SHT, RT/ST6-SHT-L	PA6.6	50
EP-RSTP6	6020201004	RSTP6	PA6.6	50
EP-RSTN6	6020201006	RT/SU2.5/4-2L	PA6.6	50
EP-DRTP2.5/4	6020203001	RT/SU2.5/4-2L, RT/SU2.5/4-2L-L	PA6.6	20
EP- RT/SU10-2L	6020203020	RT/SU10-2L	PA	20
EP-RT/SU2.5-3LOE5	6020206002	RT/SU2.5-3LOE5	PA	20
EP-RT/SG2.5-10	6020206003	RT/SG2.5, RT/SG4, RT/SG6, RT/SG10, RT/SG2.5-E, RT/SG4-E, RT/SG6-E, RT/SG10-E	PA	50

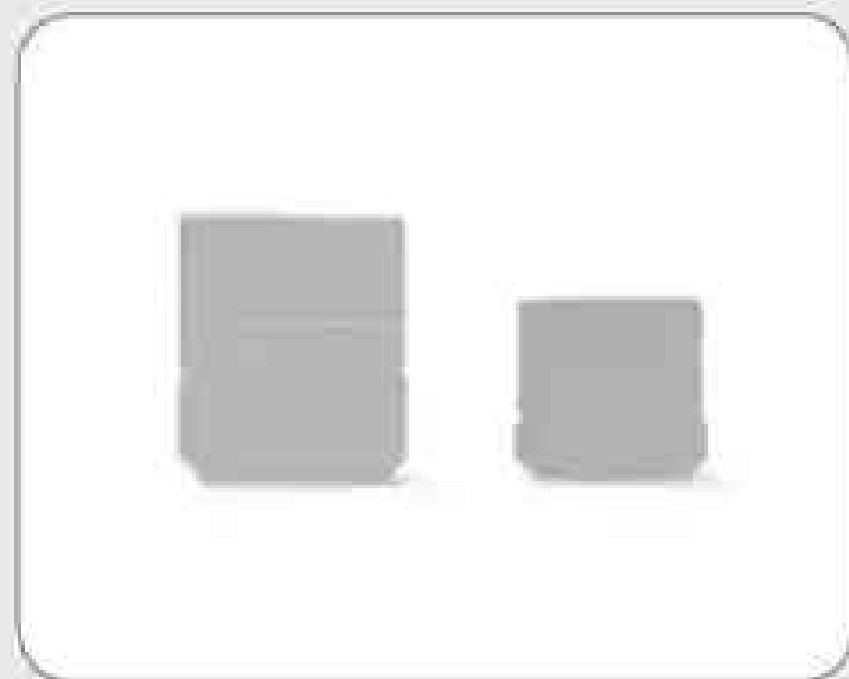
* Applicable for all terminal blocks with exception RT/SU95,150, RT/ST6, RT/ST6-L.



Partition (P)

Depending upon the operating voltage, a partition must be fitted next to cross-connection groups, so that the necessary clearance and creepage distance can be maintained.

Type	Ordering No.	Application	Material	Qty.
P-RTP2.5	6020301005	RT/SU2.5	PA6.6	100
P-RTP4, 6, 10	6020301105	RT/SU2.5	PA6.6	50
P-DRTP4	6020302001	RT/SU4-2L	PA6.6	20
P-RTS2.5, 4, 6	6020303001	RT/SU2.5,4,6	PA6.6	100



Small Partition (SP)

Space-saving partitions can be post-fitted between cross-connections for terminal blocks.

Type	Ordering No.	Application	Material	Qty.
SP-2.5-10	6020304001	RT/SU4,6,10	PA6.6	100
SP-D4	6020304004	RT/SU4-2L	PA6.6	100



General Partition (GP)

These types of partitions serve for RT/SU16-50.

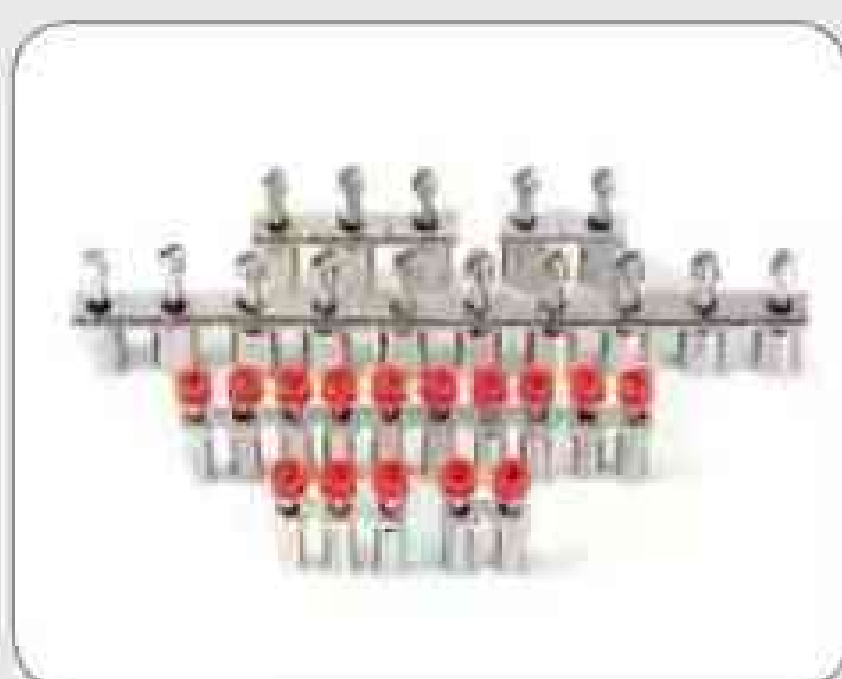
Type	Ordering No.	Application	Material	Qty.
GP	6020305005	RT/SU16-50	PA6.6	20



Cover Base (CB\1)

To safety from finger touch of live parts for electrical components, type of insulated covers can be used and mounted on CB\1.

Type	Ordering No.	Application	Material	Qty.
CB\1	6020802001	*	PA6.6	10



For cross-connection bar, connection sleeves and screws are already cap-tively mounted with the corresponding number of poles. The cross-connection then only requires inserting in the individual terminal row when fitting. The cross-connection unit is supplied in 2, 3 and 10 poles. Easy to cut the insulated body of terminal blocks by nose plier or cutting tools in order to use rapidly jumping systems, is distinguished Raad terminal blocks. This method can be used for types: RT/ST6, RT/ST6-SHT, RT/SU4-3L,...

Screw Cross-Connection Bar (CC)

To handle cross-connection of several terminal blocks, with the same poten-tial, copper cross-connection bars are used. These cross-connection bars sup-plied in 2, 3 and 10 poles; and their length are equal to the individual terminal width. The cross-connection bar is electrically joined through a connection sleeve to the terminal block busbar.

The length of the brass connection sleeve is matched to the individual termi-nal. In order to be able to connect the cross-connection bar and the connection sleeve to a terminal block busbar, a brass screw is applied. The cross-connec-tions are designed so that where a terminal does not need any cross-connec-tion; it is possible to remove the screw and its sleeve, thus no cross-connection occurs in the terminal.

Type	Max.Current (A)	Ordering No.	Application	Qty.
CC10-2.5	24	6020502009	RT/SU2.5/4-2L, RT/SU2.5 RT/SU2.5-H	10
CC3-2.5		6020502002		50
CC2-2.5		6020502001		50
CC10-4	32	6020502109	RT/SU4	10
CC3-4		6020502102		50
CC2-4		6020502101		50
CC10-D4	32	6020503009	RT/SU4-2L RT/SU2.5-3LOE5	10
CC3-D4		6020503002		50
CC2-D4		6020503001		50
CC10-6	41	6020502209	RT/SU6, RT/ST6, RT/ST6-L RT/ST6-SHT RT/ST6-SHT-L, RT/ST6-CMP	10
CC3-6		6020502202		50
CC2-6		6020502201		50
CC10-10	57	6020502309	RT/SU10 RT/SU10-2L	10
CC3-10		6020502302		50
CC2-10		6020502301		50
CC10-16	76	6020502409	RT/SU16	10
CC3-16		6020502402		20
CC2-16		6020502401		20
CC10-25	96	6020502419	RT/SU25	10
CC3-25		6020502412		20
CC2-25		6020502411		20
CC10-35	114	6020502439	RT/SU35	10
CC3-35		6020502432		20
CC2-35		6020502431		20
CC3-50	132	6020502452	RT/SU50	10
CC2-50		6020502451		10
CC2-70	132	6020502472	RT/SU70	10
CC3-70		6020502471		10
CC3-95	200*	6020502492	RT/SU95	10
CC2-95		6020502491		10
CC2-150	250	6020502511	RT/SU150	10

* In accordance with IEC/EN 60947-7-1, 210 A is recommended and in accordance with IEC/EN 60079-7, 200A is recommended.



Bridge Comb (BC)

This type of cross connection is consisted of plastic (PA) and copper parts and meet the best connection between the same voltage level of various terminal blocks, needing no special tools. This type of cross-connection in 2, 3, 10 branches/poles are available based on request.

Type	Max.Current (A)	Ordering No.	Application	Qty.
BC 10-2.5	32	6020504009	RT/SU2.5, RT/SU2.5-H	10
BC 3-2.5		6020504002	RT/SU2.5-2L, RT/SU2.5-2L-L	50
BC 2-2.5		6020504001	RT/SK1.5, RT/SK1.5-R RT/SK1.5-D, RT/SK1.5-R RT/SK1.5-F, RT/SK1.5-FLD	50
BC10-4	32	6020504109	RT/SU4, RDT4	10
BC3-4		6020504102		50
BC2-4		6020504101		50
BC10-D4	32	6020504209	RT/SU4-2L, RT/SU4-3L	10
BC3-D4		6020504202		50
BC2-D4		6020504201		50
JEB10-6	41	6020506009	RT/SU6, RT/ST6	10
JEB3-6		6020506002	RT/ST6-L, RT/ST6-SHT	50
JEB2-6		6020506001	RT/ST6-SHT-L, RSTP6 RT/ST6-CMP	50

* In accordance with IEC/EN 60947-7-1, 210 A is recommended and in accordance with IEC/EN 60079-7, 200A is recommended.

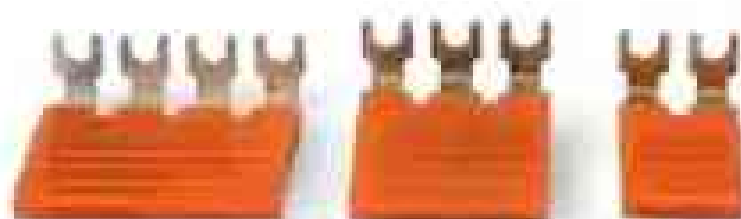
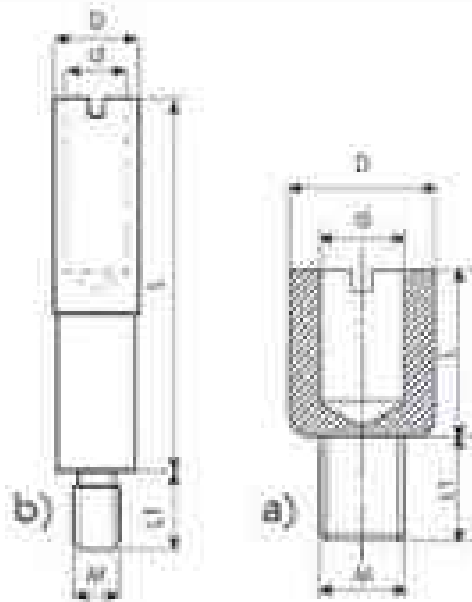


Bridge Screwless (BS)

Confidence in connection attained by using copper for metal parts of BS. This type of jumpers can be used for Raad screwless terminal block types: RT/PG.

Type	Max.Current (A)	Ordering No.	Application	Qty.
BS 10-2.5	24	6020505009	RT/PG2.5	10
BS 3-2.5		6020505002		50
BS 2-2.5		6020505001		50
BS 3-4	32	6020505102	RT/PG6	50
BS 2-4		6020505101		50
BS 3-6	41	6020505203	RT/PG6	50
BS 2-6		6020505201		50

* In accordance with IEC/EN 60947-7-1, 210 A is recommended and in accordance with IEC/EN 60079-7, 200A is recommended.



Test Socket

This type of test accessory, made of brass, is tightened in the middle of terminal block busbar.

Type	Ordering No.	Drawing	L	L1	d	D	M	Application	Qty.
TS3/6/2.3	6020402001	a	6	3.5	2.3	4	3	RT/SU2.5,4,4,RT/SU4-2L, RT/SU2.5-H, RT/SU4-3L, RT/SU2.5/4-2L	50
TS3/8/4	6020402002	a	8	3.5	4	6	3	RT/SU10	50
TS3.5/8/4	6020402003	a	8	5	4	7	3.5	RT/SU	50
TS4/8/4	6020402004	a	8	5	4	7	4	RT/SU25,35	50
TSS3/26/4	6020401101	b	26	4	4	5.5	3	RT/ST6,RT/ST6-L,RT/ST6-SHT, RT/ST6-SHT-L,RT/SU6,10	50

Moveable Cross Connection (Link)

Moveable link, which is half in plastic (PA) and half in brass, permits the current branching for the terminal block, functioning as a cross-connection, which makes a connection, and thus installed, can be also disconnected. It is also used in test disconnect terminal blocks.

Type	Ordering No.	Application	Qty.
ML2N	6020602001	RT/ST6,RT/ST6-L,RT/ST6-SHT,RT/ST6-SHT-L	50
ML3N	6020602002	RT/ST6,RT/ST6-L,RT/ST6-SHT,RT/ST6-SHT-L	50
ML4N	6020602003	RT/ST6,RT/ST6-L,RT/ST6-SHT,RT/ST6-SHT-L	50
L2	6020501001	RT/ST6-CMP	50
L3	6020501002	RT/ST6-CMP	50
L4	6020501003	RT/ST6-CMP	50

End Brackets



These type of accessories are provided to keep tightly installed terminal blocks on rail.

Type	Ordering No.	Description	Dimensions (W / H / L) (mm)	Qty.
EB/1	6020101001	End bracket For mounting on TH35, adjustable with terminal NS marking	9.5 / 35 / 50.6	50
Material			PA	



Type	Ordering No.	Description	Dimensions (W / H / L) (mm)	Qty.
EB/2	6020101002	End bracket For mounting on G32 and TH35, adjustable with terminal NS marking	10 / 50 / 55.5	50
Material			PA	



Type	Ordering No.	Description	Dimensions (W / H / L) (mm)	Qty.
EB/3	6020101003	End bracket For mounting on TH35, adjustable with terminal NS marking	10 / 42.8 / 45.6	50
Material			PA	

Fuse-Switch Disconnectors



Protecting devices used in electrical circuits, from short circuit is inevitable. To meet the needs of the most demanding customers, Raad manufacturing co., has recently produced new type of products suitable for disconnection and switching, in accordance with international standards.

Raad fuse switch-disconnector introduces a new level of safety, special for 10.3x38, AC fuses.

The design of Raad fuse- holders, in compliance with the IEC 60947-3 standard, has distinguished this type of product for switching under load, to ensure protection from any undesirable damaging currents.

RFH10, is mountable on TH 35-15, TH 35-7.5 DIN rails in accordance with IEC60715 and make high level of finger touch protection, while changing fuses.

Utilization of durable self-extinguish thermoplastic material with extra resistance to high current in body of RFH10 and on the other hand silver plated copper for its contact is strong proof to evidence the quality of this product.

Raad fuse holders are available in 1, 2, 3 or 4 poles; with or without LED-indicator. Multi-pole units can be also assembled by using of special accessory introduced as in next pages.

Easy installing and high level of protection

EAC

The design of RFH10 is space-saving and allows you to easily insert or replace fuses by flipping the hinge of knob.



RFH10 has safety design for finger-touch protection and not accessible to live parts, in accordance with international protection standards.

Detecting the defective phase and blown fuses is simply achieved by indicator light LED.



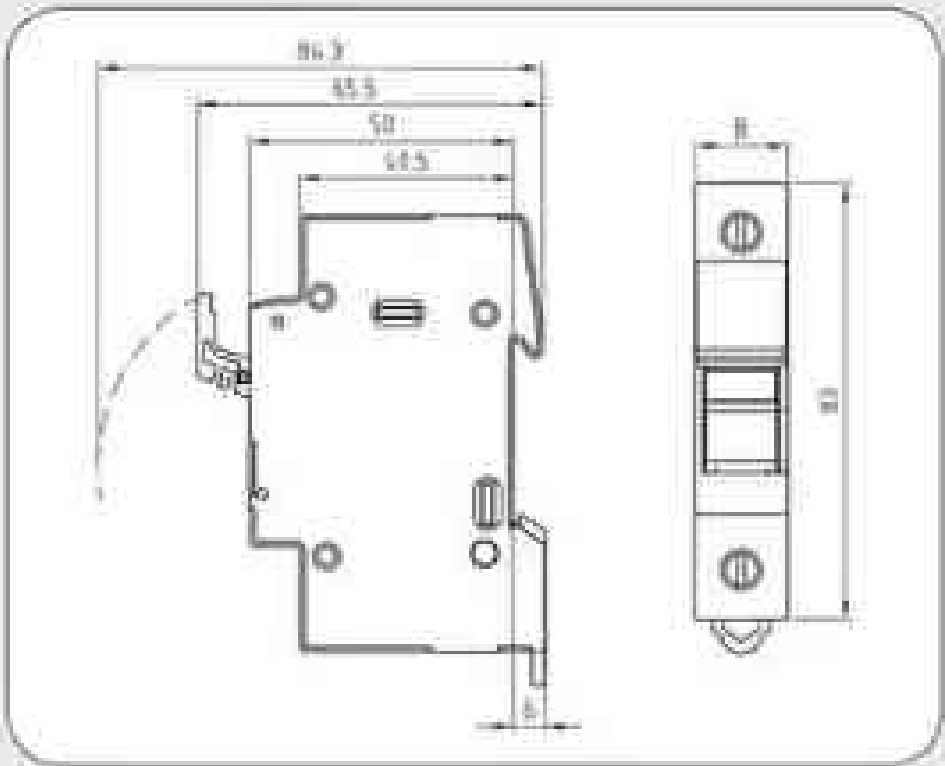
RFH10, securely protection of electrical circuits

Using Raad fuse holders, is a secure solution for circuit isolating from short circuit and overload.

Due to AC-22B utilization category, according to IEC60947-3 standard, RFH10 is designed for switching under load and protection.

This product can be used in automation switchboards for switching of mixed resistive and inductive loads; so protection of control circuits, primary and secondary of transformers, motors and other resistive or inductive loads is advantages of using RFH10.

Technical Data accordance with IEC 60947-3



RFH10- modular fuse holder for 10.3x38 cylindrical fuse-link	
Number of pole	1p, 1p+N, 2p, 3p, 3p+N, 4P
Type of current	AC
Utilization category	AC-22B
Rated current (A)	32
Rated voltage (V)	690
Rated conditional short circuit current (KA)	120
Max. power dissipation (w)	3
Connection capacity (mm ²)	0.5-16
Tightening torque (N.m)	2.5
IEC test gauge	B7
insulation material	PA

Definition and Characteristics

Disconnect

Mechanical switching device which, in the open position, complies with the requirements specified for the isolating function.

Compliance to international standards, any maintenance operations on installation are prohibited unless circuits have been previously disconnected.

Fuse-disconnector

Disconnect in which a fuse-link or fuse-carrier with fuse-link forms the moving contact. Refer to this definition not all of the fuse holders are disconnect, so they must meet the requirements of IEC60947-3 standard.

Fuse-switch-disconnector

Switch-disconnector in which a fuse-link or fuse-carrier with fuse-link forms the moving contact. Refer to this standard definition, and utilization category of AC22-B identified in next clause, a fuse-switch-disconnector with these characteristics can be switched under load.

Utilization Categories

IEC 60947-3 Utilization Categories (Table2)

Nature of current	Utilization categories		Typical applications
	Category A	Category B	
Alternating current	AC-20A ^a	AC-20B ^a	- Connecting and disconnecting under no-load conditions - Switching of resistive loads including moderate overloads - Switching of mixed resistive and inductive loads, including moderate overloads - Switching of motor loads or other highly inductive loads
	AC-21A	AC-21B	
	AC-22A	AC-22B	
	AC-23A	AC-23B	
Direct current	DC-20A ^a	DC-20B ^a	- Connecting and disconnecting under no-load conditions - Switching of resistive loads including moderate overloads - Switching of mixed resistive and inductive loads, including moderate overloads (e.g. shunt motors) - Switching of highly inductive loads (e.g. series motors)
	DC-21A	DC-21B	
	DC-22A	DC-22B	
	DC-23A	DC-23B	

a. The use of these utilization categories is not permitted in the USA.

Refer to circumstance of situations, the AC22-B utilization category can be operated of mixed resistive and inductive loads with moderate overloads. Mixed load consist of: Transformers, corrected motors, capacitor batteris, discharge lamps, heating, etc.



1-pole						
Rated operational voltage (V)	Rated current (A)	Type	Dimension B (mm)	Ordering No.	Indicator	Qty.
690	32	RFH10	17.5	6050101001	-	12
		RFH10-LD		6050201001	LED	12



1-pole+N						
Rated operational voltage (V)	Rated current (A)	Type	Dimension B (mm)	Ordering No.	Indicator	Qty.
690	32	RFH10N	35	6050102001	-	6
		RFH10N-LD		6050202001	LED	6



2-pole						
Rated operational voltage (V)	Rated current (A)	Type	Dimension B (mm)	Ordering No.	Indicator	Qty.
690	32	RFH102	35	6050101002	-	6
		RFH102-LD		6050201002	LED	6



3-pole						
Rated operational voltage (V)	Rated current (A)	Type	Dimension B (mm)	Ordering No.	Indicator	Qty.
690	32	RFH103	52.5	6050101003	-	4
		RFH103-LD		6050201003	LED	4



3-pole+N						
Rated operational voltage (V)	Rated current (A)	Type	Dimension B (mm)	Ordering No.	Indicator	Qty.
690	32	RFH103N	70	6050102003	-	3
		RFH103N-LD		6050202003	LED	3



4-pole						
Rated operational voltage (V)	Rated current (A)	Type	Dimension B (mm)	Ordering No.	Indicator	Qty.
690	32	RFH104	70	6050101004	-	3
		RFH104-LD		6050201004	LED	3



Circuit Protection

Low voltage circuit breakers (below 1000 volts) are used to protect circuits in lighting installations, industrial electricity, wires and cables, machinery, etc. against overload and short circuit faults and leakage currents.

These circuit breakers are used in industry and some of them are also used for household and similar installations.

In the following, we will introduce some of them, which are among the products of RAAD Company:

One of the most widely used of these circuit breakers is the MCB.

MCB is commonly used in low currents and in lighting panels and low current distribution panels or to protect control circuits of electrical equipment and installations. This circuit breaker is produced in the nominal current range of 1 to 63 A and its auxiliary equipment can be mentioned as an AUXILIARY CONTACT that can be used next to the MCB if needed in circuits.

Another circuit breaker called the RCCB is used to protect life from the risk of electric shock and to prevent leakage current in electrical circuits.

These circuit breakers are divided into two types in terms of sensitivity: household and industrial, which in addition to protecting people from direct or indirect electrical contact, are also effective in protecting industrial devices and equipment by preventing current leakage.

There are other types of MCBs that, in addition to protecting circuits against overload and short circuits, also have leakage current protection capabilities, called RCBO.

Other circuit breakers are ISOLATOR that can be manually disconnected and reconnected and do not automatically provide any protection.

Miniature Circuit Breaker



RB/M 6/10 KA (MCB)

Miniature Circuit Breaker (MCB) Used in electrical circuits to protect equipment and circuits against overload fault or short circuit fault.

RAAD MCBs are available in two types of AC and DC in rated currents from 1 to 63 amps and in curves "B", "C" and "D" for different applications.

RAAD MCBs are also made for neutral pole and these products are produced in 1P, 1P + N, 2P, 3P, 3P + N and 4 poles.

The interior design and body of MCBs are such that they can easily withstand short circuit current in two capacities of 6KA and 10KA.

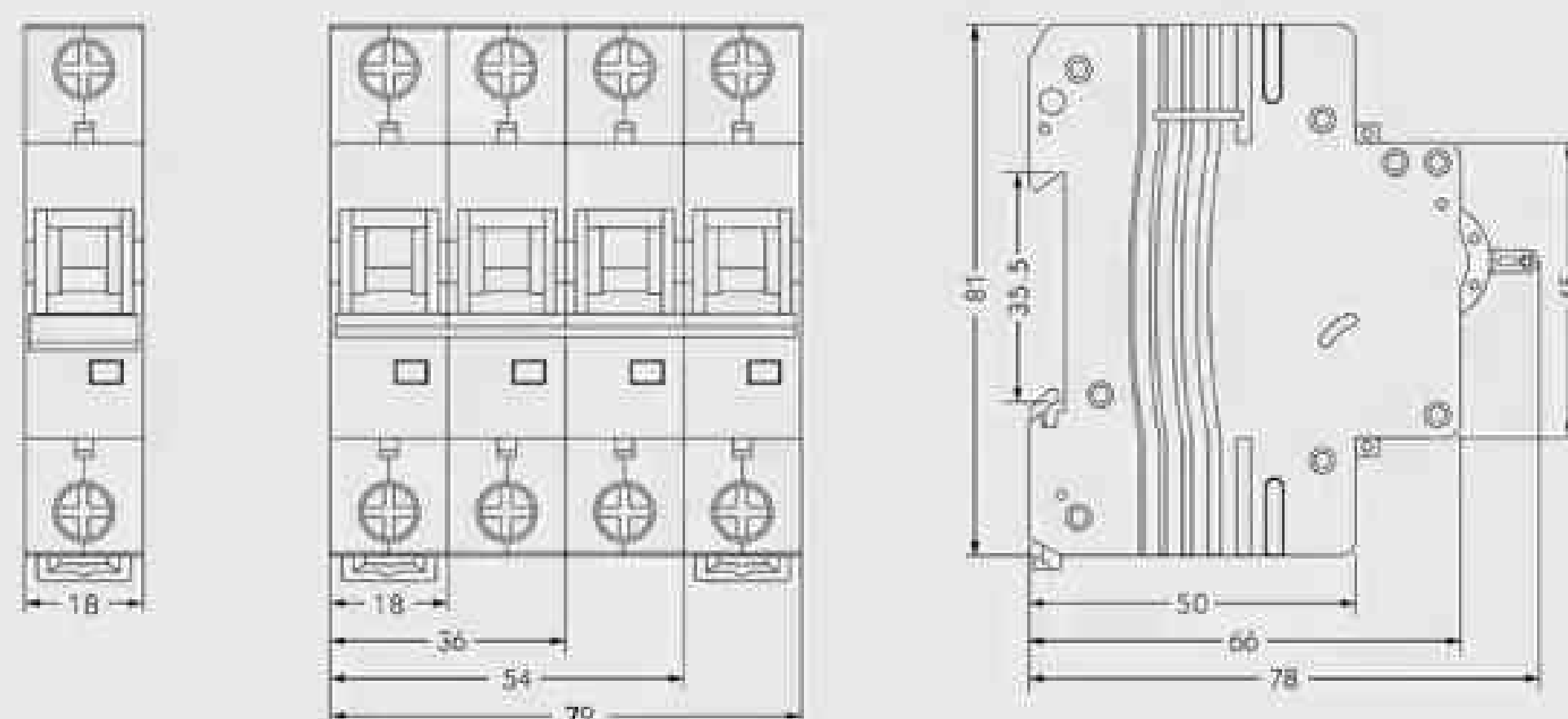
The electrical and mechanical life of RAAD MCBs is 8,000 and 20,000 cycles, respectively.

RAADs MCBs also have two busbars at the top and bottom of the product. These products have the ability to install auxiliary contacts for better use in circuits.

The design and adjustment of all MCBs produced by this company is in accordance with all the test clauses of the international standard IEC 60898-1(for AC) and IEC 2-60947 (for DC) and all MCBs have product approval and certification.

All MCBs have a special hologram for authenticity of the product and a text message number informing the customer.

Overall and Installation Dimension (mm)



Technical Data

Electrical Features

Rated current I_n	1, 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63 A
Poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated voltage U_e	230/ 400 V
Insulation voltage U_i	500 V
Rated frequency	50/ 60 Hz
Rated breaking capacity	6 KA, 10 KA
Energy limiting class	3
Rated impulse withstand voltage(1.5/50) U_{imp}	4,000 V
Dielectric test voltage at ind. Freq. for 1 min	2 KV
Pollution degree	2
Thermo-magnetic release characteristic	B, C, D

Mechanical Features

Electrical life/ 6KA	8,000 Cycles
Electrical life/ 10KA	10,000 Cycles
Mechanical life	20,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30
Ambient temperature (with daily average ≤ 35)	-5 ~ +40
Storage temperature	-25 ~ +70

Installation

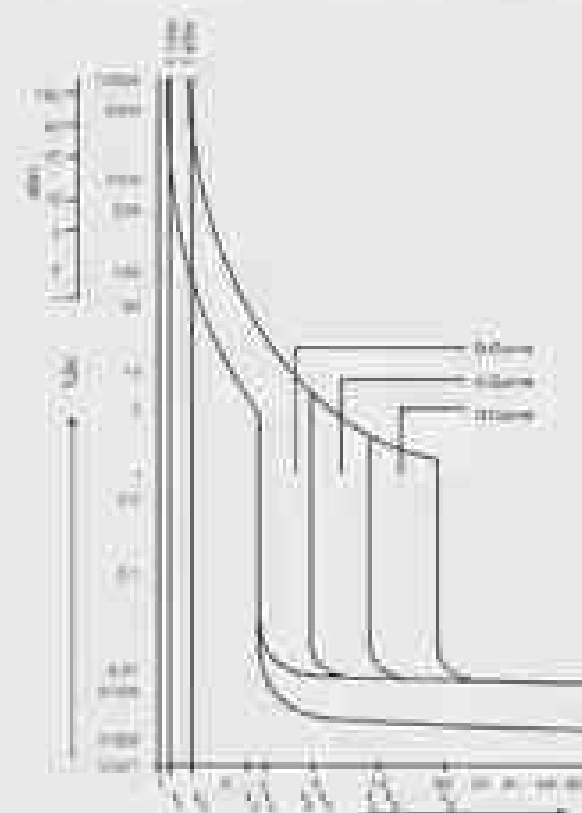
Terminal connection type	Cable/Pin- type busbar/U- type busbar
Terminal size top/bottom for cable	25mm ² 18- 3 AWG
Terminal size top/bottom for busbar	25mm ² 18- 3 AWG
Tightening torque	2.5Nm 22In- lbs
Mounting	On DIN rail EN 60715 (35mm) by means of fast clip device
Connection	From top and bottom

Combination with accessories

Auxiliary contact	CB
Alarm contact	FB

MCB Characteristics

Characteristics Curves



As per IEC60895	Thermal Tripping			Magnetic Tripping		
	No tripping current	Tripping current I_t	Time Limits t	Hold current I_h	Trip current I_{Δ}	Time Limits t
B Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1h$ $< 1h$	$3 \times I_n$	$5 \times I_n$	$\geq 0.1s$ $< 0.1s$
C Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1h$ $< 1h$	$5 \times I_n$	$10 \times I_n$	$\geq 0.1s$ $< 0.1s$
D Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1h$ $< 1h$	$10 \times I_n$	$20 \times I_n$	$\geq 0.1s$ $< 0.1s$

Tripping characteristics

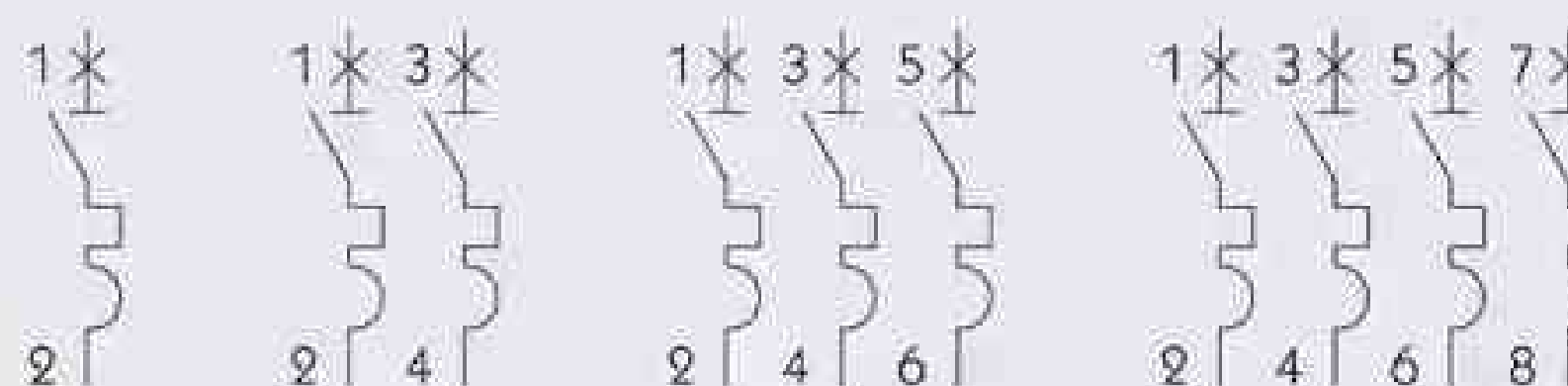
Based on the Tripping Characteristics, MCB are available in "B", "C" and "D" curve to suit different types of applications.

"B" Curve for protection of electrical circuits with equipment that does not cause inrush current (lighting and distribution circuits) Short circuit release is set to (3-5) I_n .

"C" Curve for protection of electrical circuits with equipment that cause inrush current (inductive loads and motor circuits) Short circuit release is set to (5-10) I_n .

"D" Curve for protection of electrical circuits with cause high inrush current, typically 12-15 times the thermal rated current (transformers, x-ray machines etc.) Short circuit release is set to (10-20) I_n .

Circuit Diagram

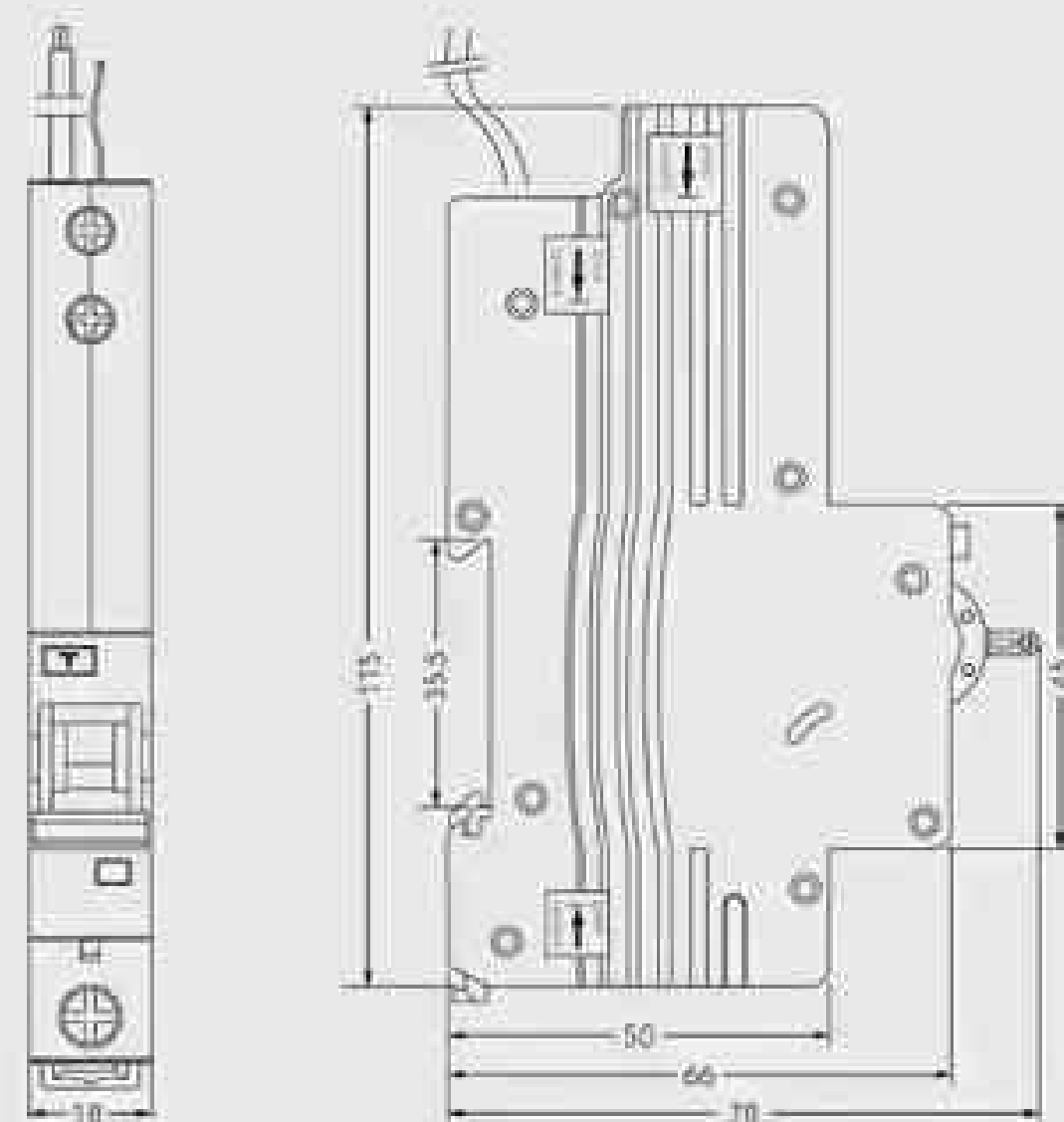


Auxiliary Contact

RB/M - CB , RB/M - FB

Auxiliary Contacts are used in command circuits and their task is to add normal open (NO) and normal close (NC) contacts on circuits. Auxiliary contacts alone do not protect and always be installed on MCB or RCBO, and when the MCB or RCBO trips due to a faults, the auxiliary contacts will also trip with it. RAAD Auxiliary contacts can withstand current up to 3 amps under nominal voltage. RAAD Auxiliary contacts are produced in two type (FB & CB). The CB type has 1NO1+NC and the FB type has 2NO2+NC. In addition FB type has an indicator that turns blue when a faults occurs and it is possible to fully identify whether the Auxiliary contact was cut off manually or disconnected due to a faults on the MCB or RCBO. The electrical and mechanical life of RAAD Auxiliary contacts is 60,000 and 10,000 cycles respectively. RAAD Auxiliary contacts are made in full compliance with the international standard IEC 60947-5-1.

Overall and Installation Dimension (mm)



Technical Data

Electrical Features

Rated value	AC 230/400V 50/60 Hz 3A
	DC 130V 1A
	DC 48V 2A
	DC 24V 6A
Configurations	CB 1 N/O + 1 N/C
	FB 2 N/O + 2 N/C
Rated impulse withstand voltage (1.2/50) Uimp	4,000 V
Rated short circuit making capacity	20Ie, t = 0.1s
Dielectric test voltage at ind. Freq. for 1min	2 kV
Insulation voltage Ui	500 V
Pollution degree	2

Mechanical Features

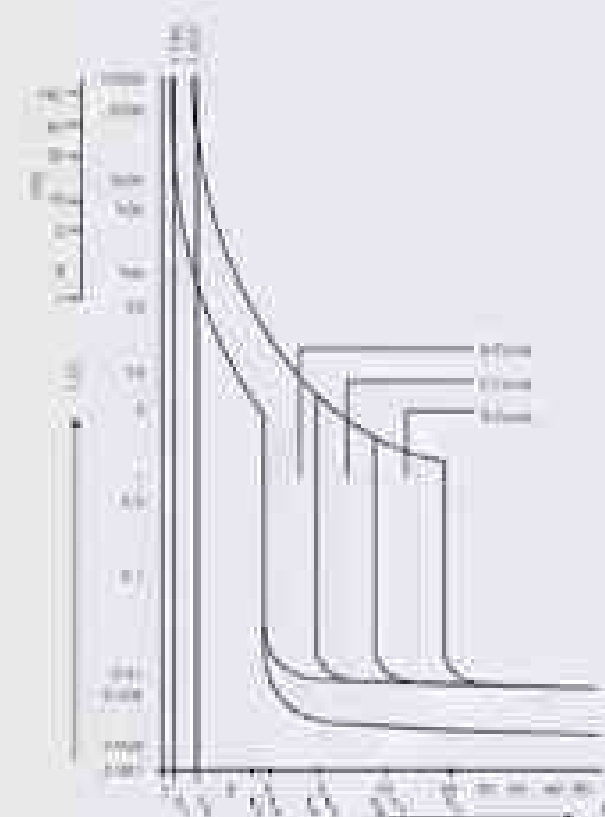
Electrical life	6,000 Cycles
Mechanical life	10,000 Cycles
Protection degree	IP20
Ambient temperature (with daily average $\leq 35^{\circ}\text{C}$)	$-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Storage temperature	$-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Installation

Terminal connection type	Cable
Terminal size top/bottom for cable	2.5 mm ² 18- 13 AWG
Tightening torque	0.8 Nm 7In- lbs

Auxiliary Characteristics

Characteristics Curves

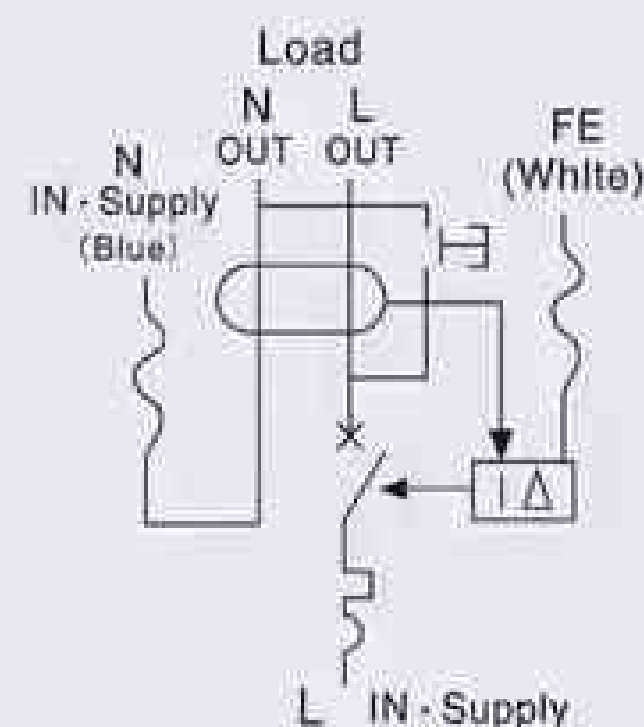


As per IEC60898	Thermal Tripping			Magnetic Tripping		
	No tripping current I_n	Tripping current I_t	Time Limits t	Hold current I_h	Trip current I_m	Time Limits t
B Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1\text{h}$	$3 \times I_n$	$5 \times I_n$	$\geq 0.1\text{s}$
			$< 1\text{h}$			$< 0.1\text{s}$
C Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1\text{h}$	$5 \times I_n$	$10 \times I_n$	$\geq 0.1\text{s}$
			$< 1\text{h}$			$< 0.1\text{s}$

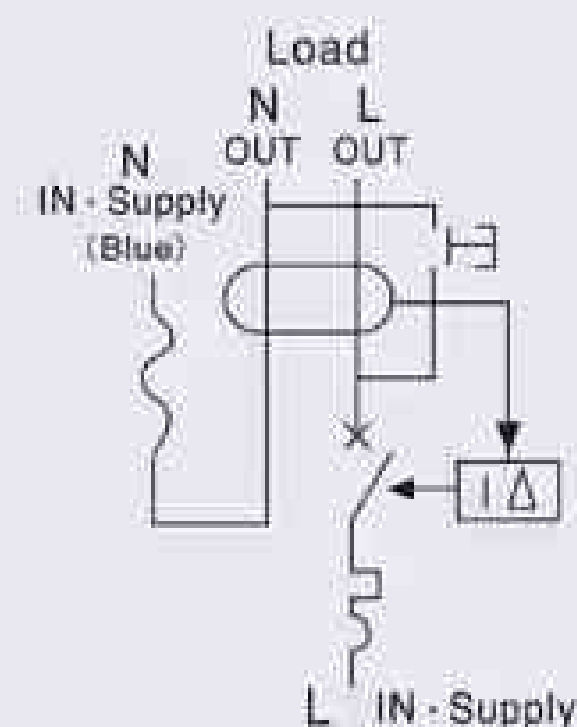
Tripping characteristics

Type	Tripping current I_{Δ}/I_n	
AC	$0.5I_{\Delta n} < I_{\Delta} < I_{\Delta n}$	
A	Lagging Angle	$I_{\Delta n} > 0.01 \text{ A}$ $I_{\Delta n} \leq 0.01 \text{ A}$
	0°	$0.35I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$ $0.35I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	90°	$0.25I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$ $0.25I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	135°	$0.11I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$ $0.11I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$

Circuit Diagram



AC TYPE



A TYPE

Residual Current Circuit Breaker



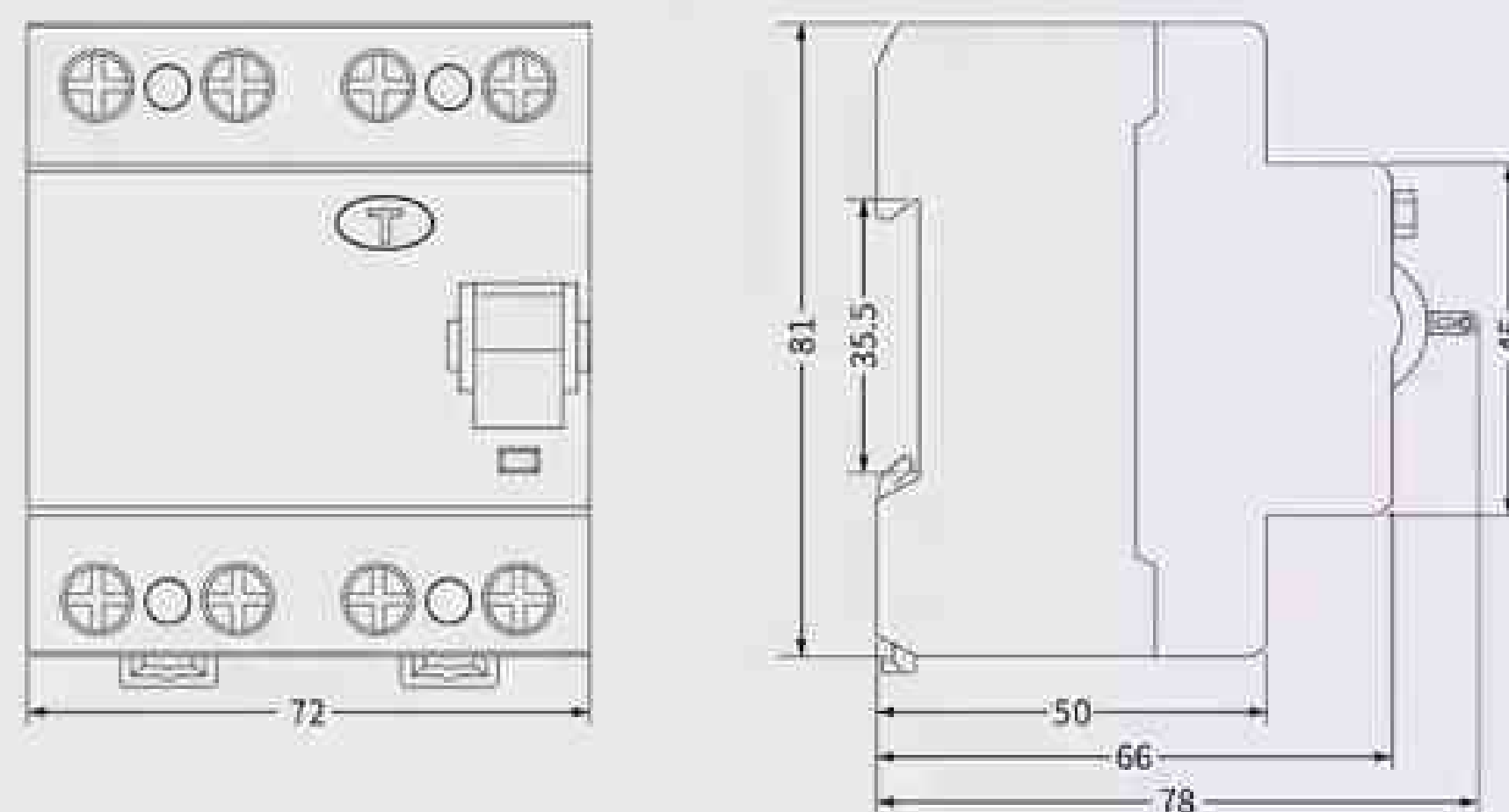
RB/RC (RCCB)

RCCBs are designed to protect against leakage current, and always note that these products cannot provide protection against short circuit faults and overload faults. RAAD Company RCCBs are produced in two leakage currents, the 30 mA type is suitable for protection against electric shock and the 300 mA type is for fire protection and equipment protection against leakage current. Note that the 300 mA type is not suitable for protecting against human shock.

RAAD RCCBs are made of electromagnetic type and cut the circuit in less than 100 milliseconds by comparing the reciprocating current after detecting a leakage current. RAADs RCCBs are produced in AC class in two types of 2P (1P+N) and 4P (3P+N) with a rated current between 16 and 63 amps, and in two short-circuit disconnection powers of 6 KA and 10 KA. The electrical and mechanical life of RAAD RCCBs is 2,000 and 4,000 cycles, respectively.

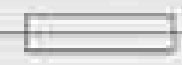
RAADs RCCBs also have two busbars at the top and bottom of the product. RAAD RCCBs are made in full compliance with the international standard IEC 61008-1. All RCCBs have a special hologram for authenticity of the product and a text message number informing the customer.

Overall and Installation Dimension (mm)



Technical Data

Electrical Features

Mode	Electromagnetic
Type	AC, A
Rated current I_n	16, 25, 32, 40, 63 A
Poles	2P (1P+N), 4P (3P+N)
Rated voltage U_e	2P 230 V~ 4P 400 V~
Insulation voltage U_i	500V
Rated frequency	50/ 60 Hz
Rated residual operation current ($I_{\Delta n}$)	10, 30, 100, 300 mA
Rated residual making and breaking capacity ($I_{\Delta m}$)	500 ($I_n=16-40A$) 630 ($I_n=63A$)
Short-circuit current $I_{nc} = I_{\Delta c}$	RB/RC 6 KA RB/RC 10 KA
SCPD fuse	RB/RC  6000 RB/RC  10000
Break time under $I_{\Delta n}$	≤ 0.15
Rated impulse withstand voltage (1.5/50) U_{imp}	4000 V
Dielectric test voltage at ind. Freq. for 1min	2.5 KV
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

Installation

Contact position indicator	Yes
Protection degree	IP20
Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$-5^\circ\text{C} \sim +40^\circ\text{C}$
Storage temperature	$-25^\circ\text{C} \sim +70^\circ\text{C}$
Terminal connection type	Cable/ Pin-type bus bar/ U-type bus bar
Terminal size top/ bottom for cable	25mm ² 18- 3AWG
Terminal size top/ bottom for bus bar	25mm ² 18- 3AWG
Tightening torque	2.5Nm 22In- lbs
Mounting	On DIN rail EN60715 (35mm) by means of fast clip device
Connection	From top and bottom

RCCB Characteristics

Tripping characteristics

Type	Tripping current I_{Δ}/A		
AC	$0.5I_{\Delta n} < I_{\Delta} < I_{\Delta n}$		
A	Lagging Angle	$I_{\Delta n} > 0.01 \text{ A}$	$I_{\Delta n} \leq 0.01 \text{ A}$
	0°	$0.35I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.35I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	90°	$0.25I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.25I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	135°	$0.11I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.11I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$

Alternative Current Sensitive



They react to AC current which, whether suddenly applied or slowly arising.

Pulsating direct current sensitive



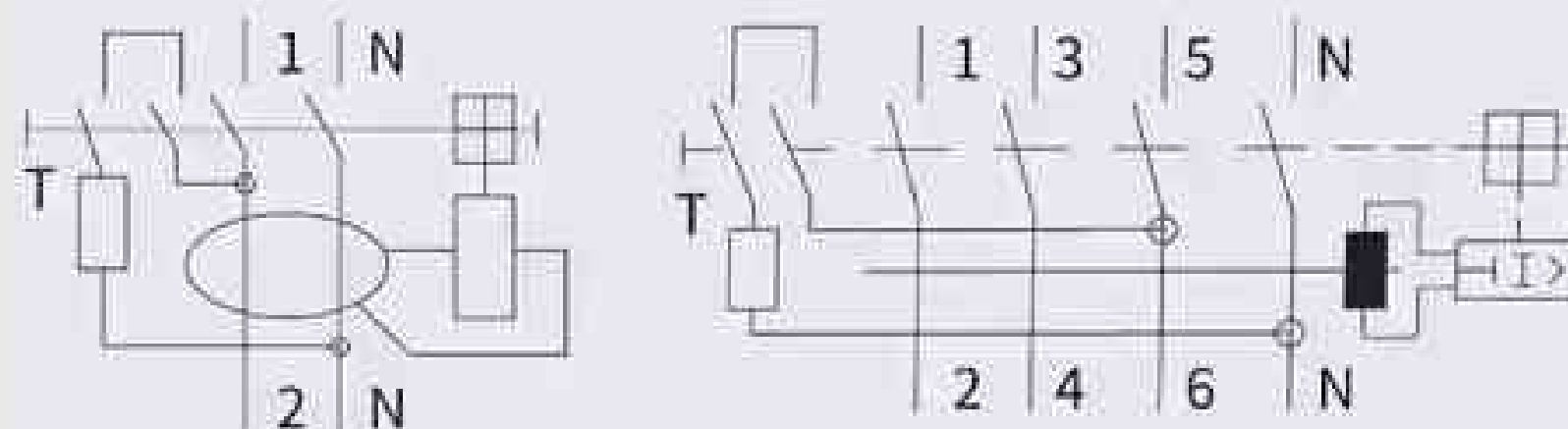
They react to AC and pulsating DC fault current which reach 0 or almost 0 within one time period of the mains frequency.

Surge current proof



RCCB's surge capacity. Not tripping at standardized 8/20 μs surge-current waves acc. to VDE 0432 Part 2 with surge current values of up to 250A.

Circuit Diagram



Residual Current Circuit Breaker with Overcurrent



RB/RO (RCBO)

Residual Current Circuit Breaker with Overcurrent (RCBO) used to protect against short circuit faults, overload faults and leakage currents.

In fact, this product is a combination of an MCB and an RCCB.

RAAD Company RCBOs are only in the type of 2P (1P+N) and AC type and in the nominal current of 6 to 63 amps and in the curve of B, C and D and in the leakage current of 30 mA and in the rated breaking capacity is 6KA And 10KA.

RAAD Company RCBOs cut off the circuit in less than 100 milliseconds when a leak current error occurs.

The electrical and mechanical life of RAAD RCBOs is 4,000 and 10,000 cycles, respectively.

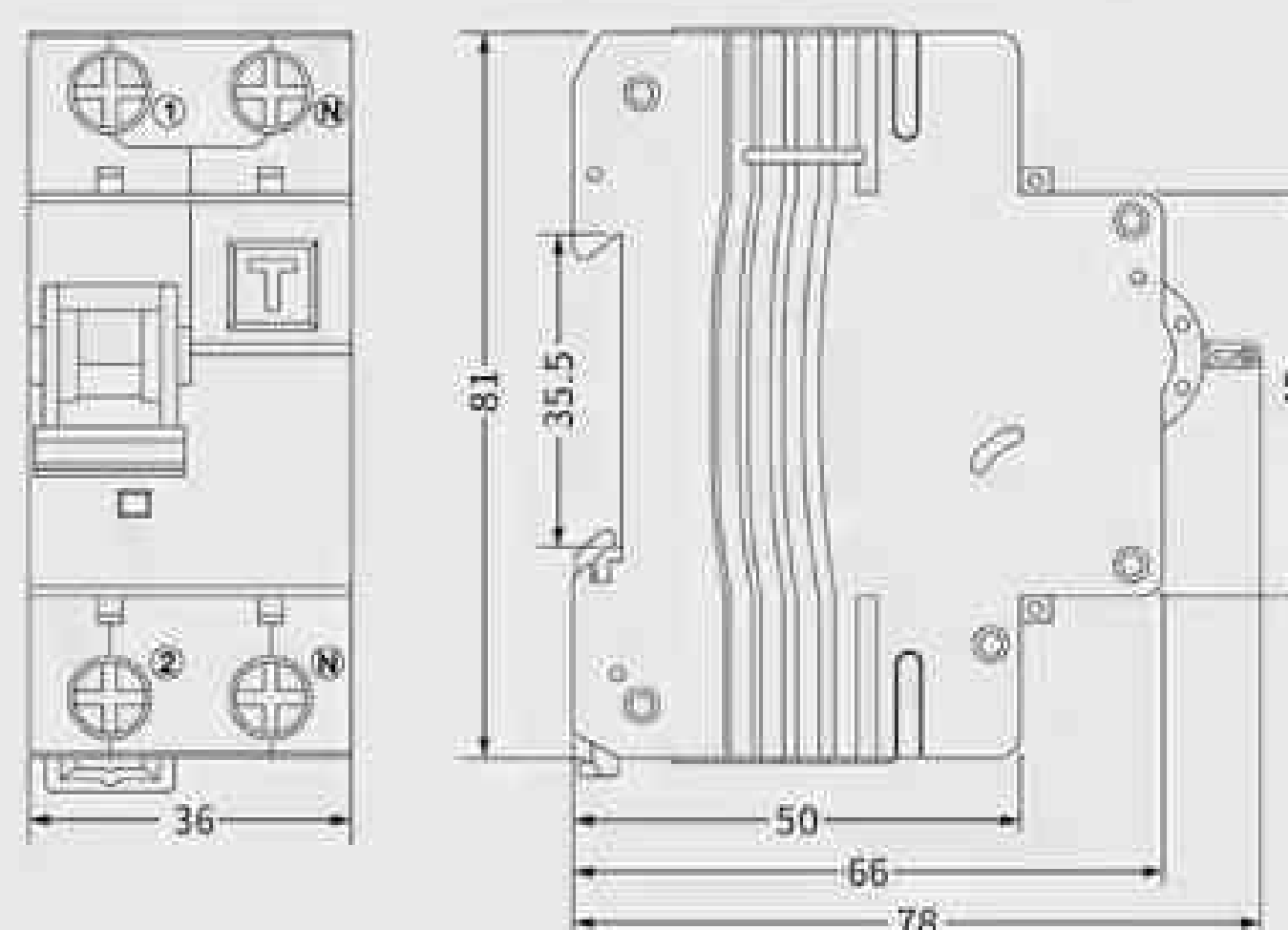
RAADs RCBOs also have two busbars at the top and bottom of the product.

These products have the ability to install auxiliary contacts for better use in circuits.

RAAD RCBOs are made in full compliance with the international standard IEC 61009-1.

All RCBOs have a special hologram for authenticity of the product and a text message number informing the customer.

Overall and Installation Dimension (mm)



Technical Data

Electrical Features

Mode	Electronic
Type	AC
Rated current I_n	6, 10, 16, 20, 25, 32, 40, 50, 63A
Poles	2P(1P+N)
Rated voltage U_e	2P 240V~
Insulation voltage U_i	500V
Rated frequency	50/60Hz
Rated residual operating current ($I_{\Delta n}$)	30 mA
Break time under $I_{\Delta n}$	$\leq 0.1s$
Rated breaking capacity	6,000A
Energy limiting class	3
Rated impulse withstand voltage (1.5/50) U_{imp}	4,000V
Dielectric test voltage at ind. Freq. for 1min	2kV
Pollution degree	2
Thermo-magnetic release characteristic	B, C, D

Mechanical Features

Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30°C
Ambient temperature (with daily average $\leq 35^\circ C$)	$-5^\circ C \sim +40^\circ C$
Storage temperature	$-25^\circ C \sim +70^\circ C$

Installation

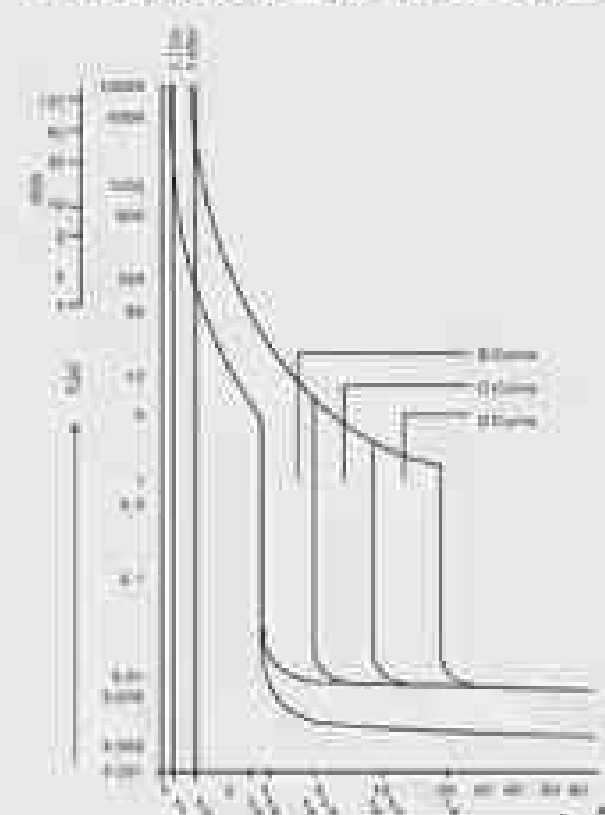
Terminal connection type	Cable/Pin-type busbar/U-type busbar
Terminal size top/bottom for cable	25mm ² 18-3AWG
Terminal size top/bottom for busbar	25mm ² 18-3AWG
Tightening torque	2.5Nm/22In-lbs
Mounting	On DIN rail EN60715 (35mm) by means of fast clip device
Connection	From top

Combination with accessories

Auxiliary contact	CB
Alarm contact	FB

RCBO Characteristics

Characteristics Curves

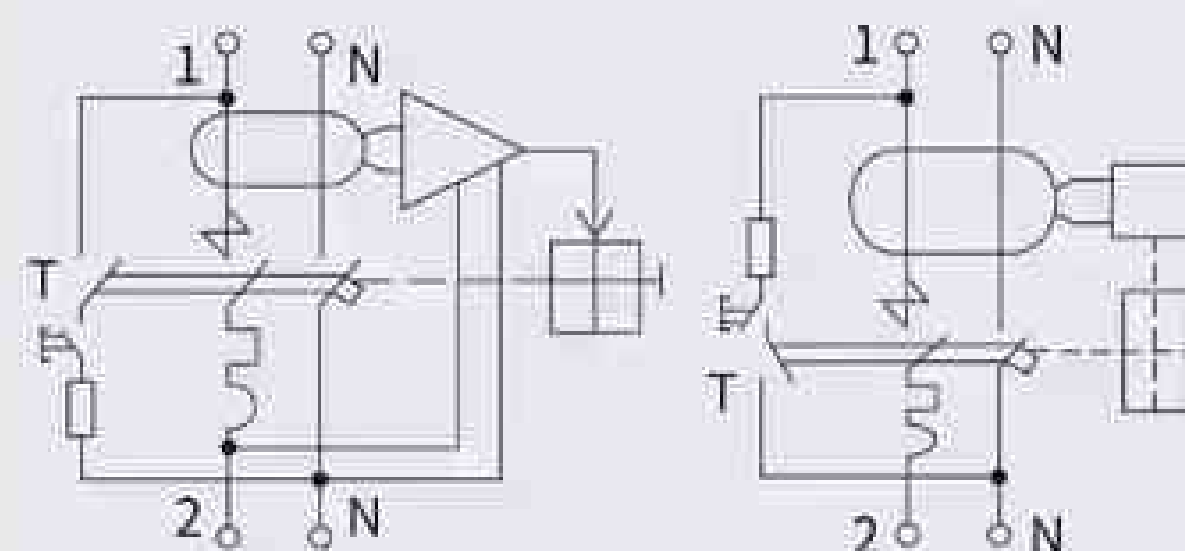


	Thermal Tripping			Magnetic Tripping		
	No tripping current	Tripping current I_t	Time Limits t	Hold current I_h	Tripping current I_t	Time Limits t
B Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1h$ $< 1h$	$3 \times I_n$	$5 \times I_n$	$\geq 0.1s$ $< 0.1s$
C Curve	$1.13 \times I_n$	$1.45 \times I_n$	$\geq 1h$ $< 1h$	$5 \times I_n$	$10 \times I_n$	$\geq 0.1s$ $< 0.1s$

Tripping characteristics

Type	Tripping current I_{Δ}/A		
AC	$0.5I_{\Delta n} < I_{\Delta} < I_{\Delta n}$		
A	Lagging Angle	$I_{\Delta n} > 0.01 A$	$I_{\Delta n} \leq 0.01 A$
	0°	$0.35I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.35I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	90°	$0.25I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.25I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	135°	$0.11I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.11I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$

Circuit Diagram



ISOLATOR



RB/I

Isolator switches do not provide for any protection and only used to isolate the circuit.

RAAD Isolators are AC-22A type and are suitable for cutting under load.

RAAD Isolators are produced in two type of 1P and 3P and in nominal currents of 32 to 63 Amps.

Rated short-time withstand current (ICW) in RAAD Isolators are 12In for 1 sec.

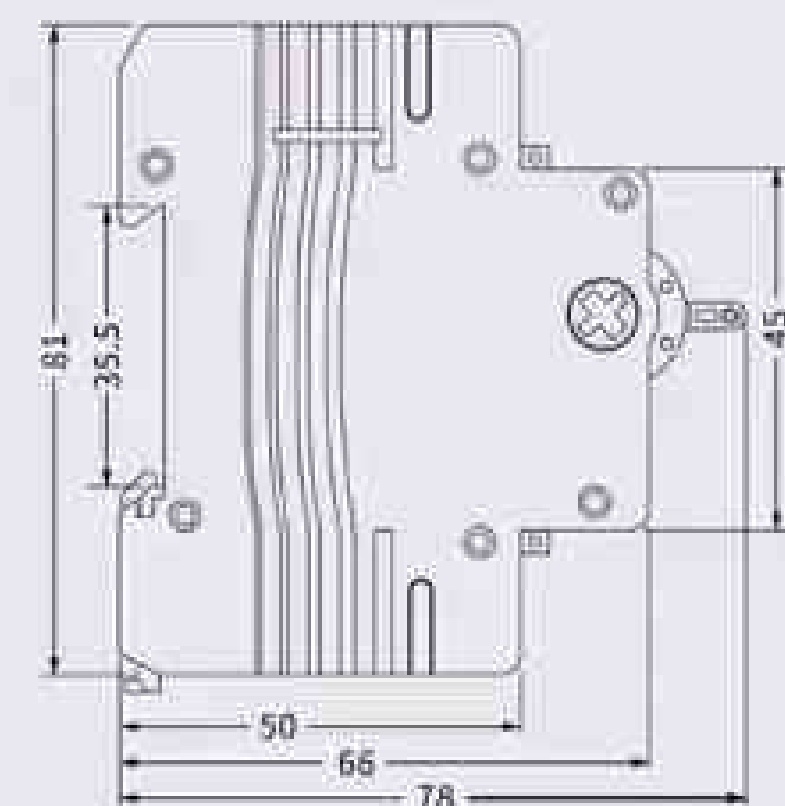
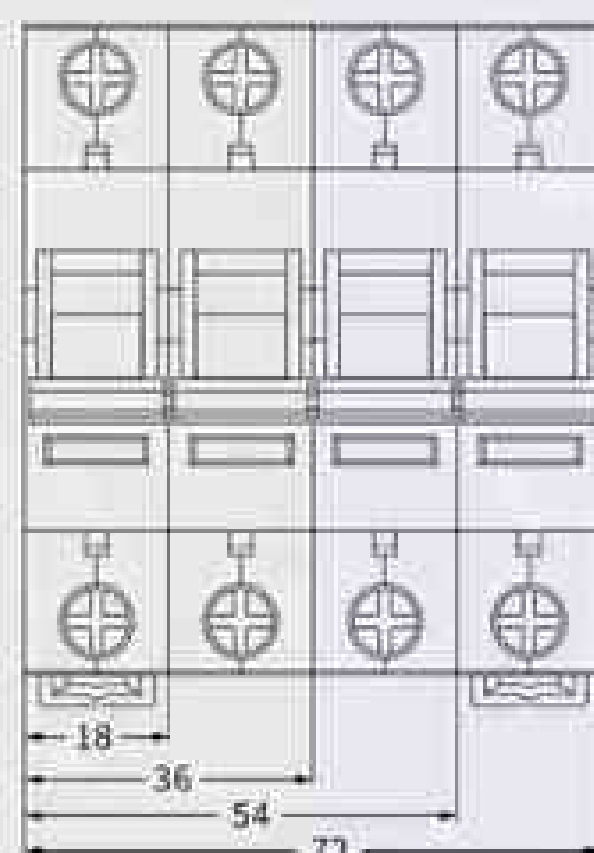
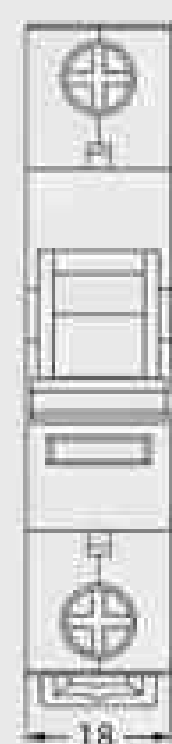
The electrical and mechanical life of RAAD Isolators is 4,000 and 10,000 cycles respectively.

RAADs Isolators also have two busbars at the top and bottom of the product.

RAAD Isolators are made in full compliance with the international standard IEC 60947-3.

All Isolators have a special hologram for authenticity of the product and a text message number informing the customer.

Overall and Installation Dimension (mm)



Technical Data

Electrical Features

Rated current I_n	32,40,50,63
Poles	1P,2P,3P,4P
Rated voltage U_e	240/415V
Insulation voltage U_i	500V
Rated frequency	50/60Hz
Rated short-time withstand current I_{cw}	$12I_e, 1s$
Rated making and breaking capacity	$3I_e, 1.05U_e, \cos \phi = 0.65$
Rated short circuit making capacity	$20I_e, t=0.1s$
Rated impulse withstand voltage(1.5/50) U_{imp}	4,000V
Dielectric test voltage at ind.Freq. for 1min	2.5kV
Utilization category	AC-22A

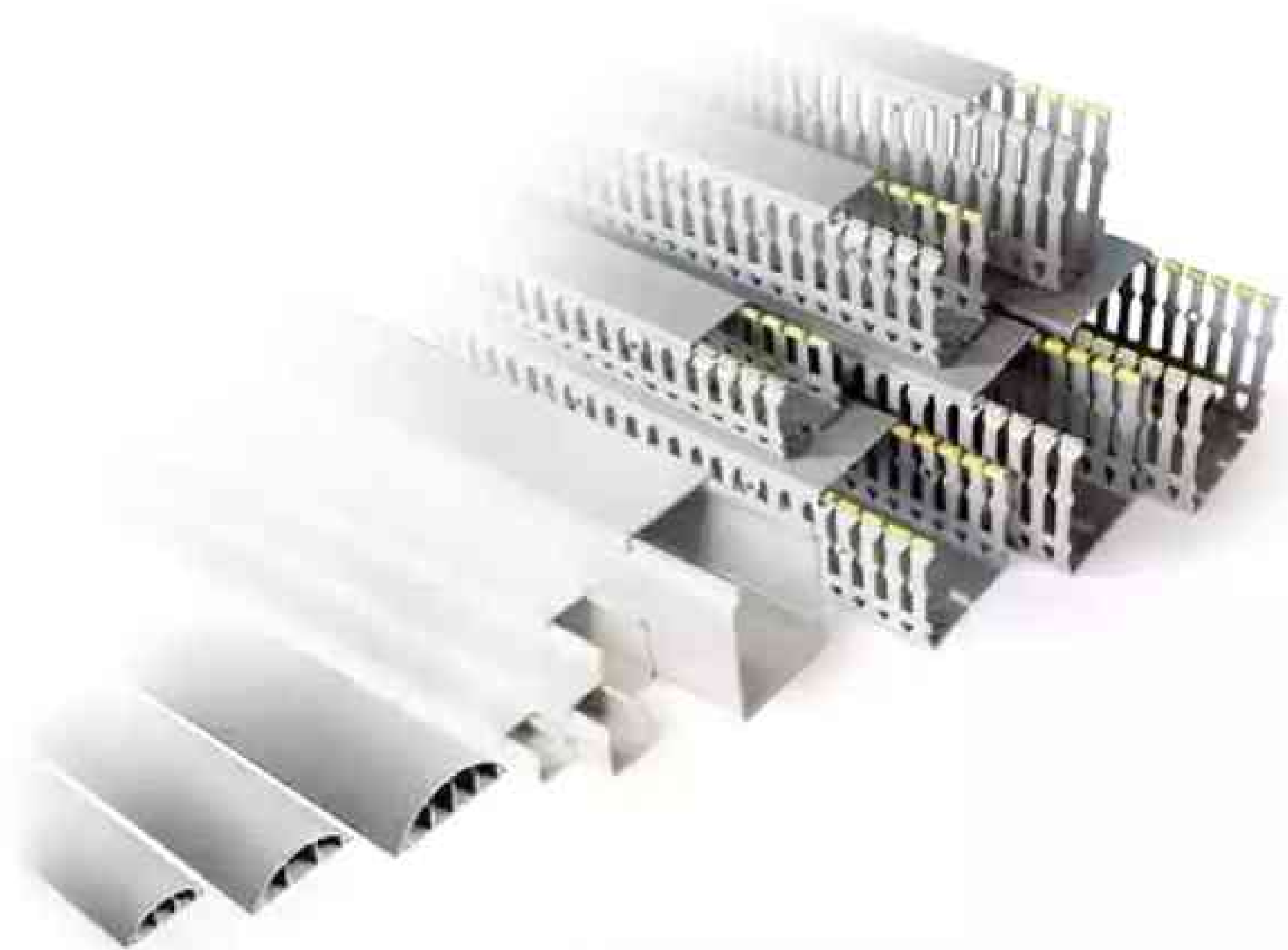
Mechanical Features

Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	Yes
Protection degree	IP20

Installation

Terminal connection type	Cable/Pin-type busbar/U-type busbar
Terminal size top/bottom for cable	50mm ² 18-2AWG
Terminal size top/bottom for busbar	50mm ² 18-2AWG
Tightening torque	3.5Nm 30In-lbs
Mounting	On DIN rail EN60715(35mm) by means of fast clip device
Connection	From top and bottom

■ Wiring Duct Systems



As part of the business development efforts, Raad Manufacturing Co. is now in a position to offer high quality "WIRING DUCTS" to customers.

These series of wiring ducts, feature as an excellent assembly and are ideal for any type of power and control panels preferably for control panels where performance remains unaltered over time even under the heaviest operating conditions.

The reliability and durability of these products is guaranteed by a very severe selection of raw materials employed for their production and rigorous process controls.

Correct installation by qualified staff, as well as proper use and periodical maintenance contribute to the safety and safeguarding of people and property.

Construction Specifications



- Slotted wiring duct for installation in cabinets based on standards EN 50085-1+A1 and EN-50085-2-3 (IEC 61084-1+A1).
- The base perforation of the wiring duct allows mounting on the panel or on Din mounting rails.
- Duct material as Rigid PVC, self-extinguishing (non-flame propagating) and resistant to abnormal heat and fire up to 960°C (glow-wire test) in conforming with IEC/EN 60695-2-11 standards.
- Product without Lead (Pb) in accordance with RoHS requirements.
- Technical characteristics of PVC duct as shown in Table 5.
- Complementary construction details as illustrated in Figures 1 to 5.
- Duct dimensional details, as shown in Figures 6 and 7.
- Nominal sizes and dimensions as shown in Table 1.
- The thickness of wall, bottom and cover as shown in Table 4.
- Standard length as 2 meters.

OPERATING INSTRUCTIONS

- The maximum application (operating) temperature as +60°C in accordance with IEC/EN standards.
- The minimum storage/ transport temperature as -45°C.
- The minimum installation/ application temperature as -25°C.

- The number of conductors must not exceed the recommended values, considering 60% stuffing coefficient (Table 2).
- Suitable for small sized wires employed in electric and electronic control panels.
- The deformation of horizontal duct walls under recommended conductor loading has been subjected to limited investigation.

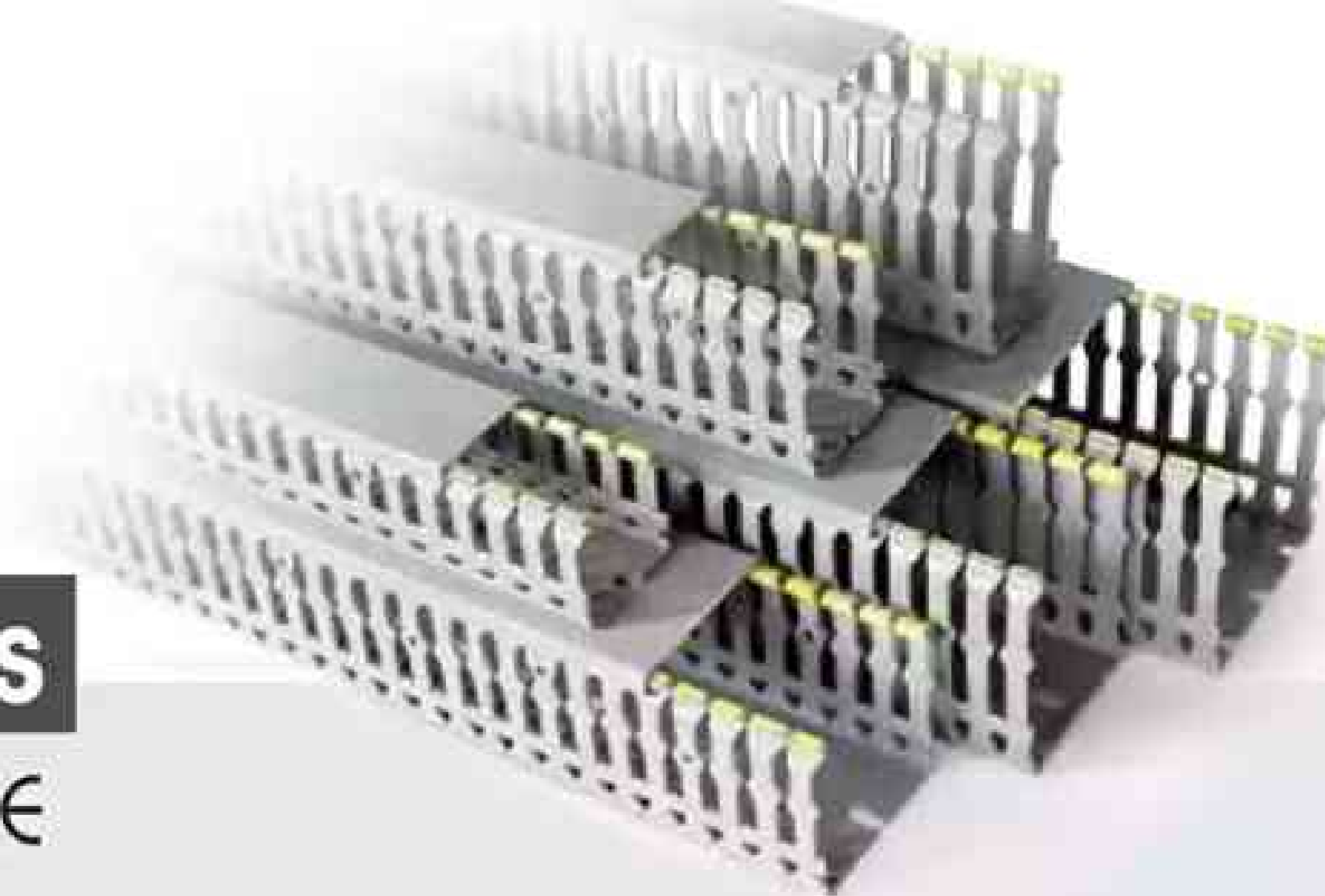
The acceptability of deformation under more rigorous conditions such as load bearing cover or required mechanical spacing must be evaluated in the end-use investigation.

Slotted Wiring Ducts

Type: RWD



CE



- High quality products conforming to international standards.
- Designed to meet the needs of panel builders regarding to advanced and time-saving panel assembling.
- Complying with international certificates KEMA, CE.



Figure 1

- Two predetermined break lines for breaking off and removal of sidewall finger segments only as well as removal of sidewall finger and base segments.



Figure 2

- The possibility of making different distinct levels, by using special pins inside the holes contrived in the duct fingers.

It is mentionable that ducts with the height up to 40 (mm), have only one hole in the middle, while for duct height including 60 (mm) and more, two holes provide the above - mentioned possibility.



Figure 3

- Provided with a soft yellow PVC strip for handling purposes to avoid hand-accidents during the cabling as well as making the cover very steady.
- Burr-free edges.



Figure 4

- Non-slip covers design of minimum encumbrance and maximum grip.

Table 1- Nominal Sizes

Nominal size (WxH)mm	Ordering No.	Total Length in Carton (m)	Qty. in Carton
25 x 40	6110105008	60	30
25 x 60	6110105012	40	20
25 Cover	6115050005	40	20
40 x 40	6110108008	40	20
40 x 60	6110108012	36	18
40 x 80	6110108016	28	14
40 Cover	6115050008	40	20
60 x 40	6110112008	32	16
60 x 60*	6110112012	24	12
60 x 80	6110112016	16	8
60 Cover	6115050012	40	20
80 x 60	6110116012	20	10
80 x 80	6110116016	16	8
80 Cover	6115050016	20	10
100 x 60	6110120012	12	6
100 x 80	6110120016	8	4
100 x 100	6110120020	8	4
100 Cover	6115050020	20	10

* This size granted  standard.

- WxH (Width x Height)
- Each standard length is 2 meters.
- For dimensional details see Figure 7.
- Standard unit as duct complete with cover.

Figure 5

- Duct Base Dimensional Details

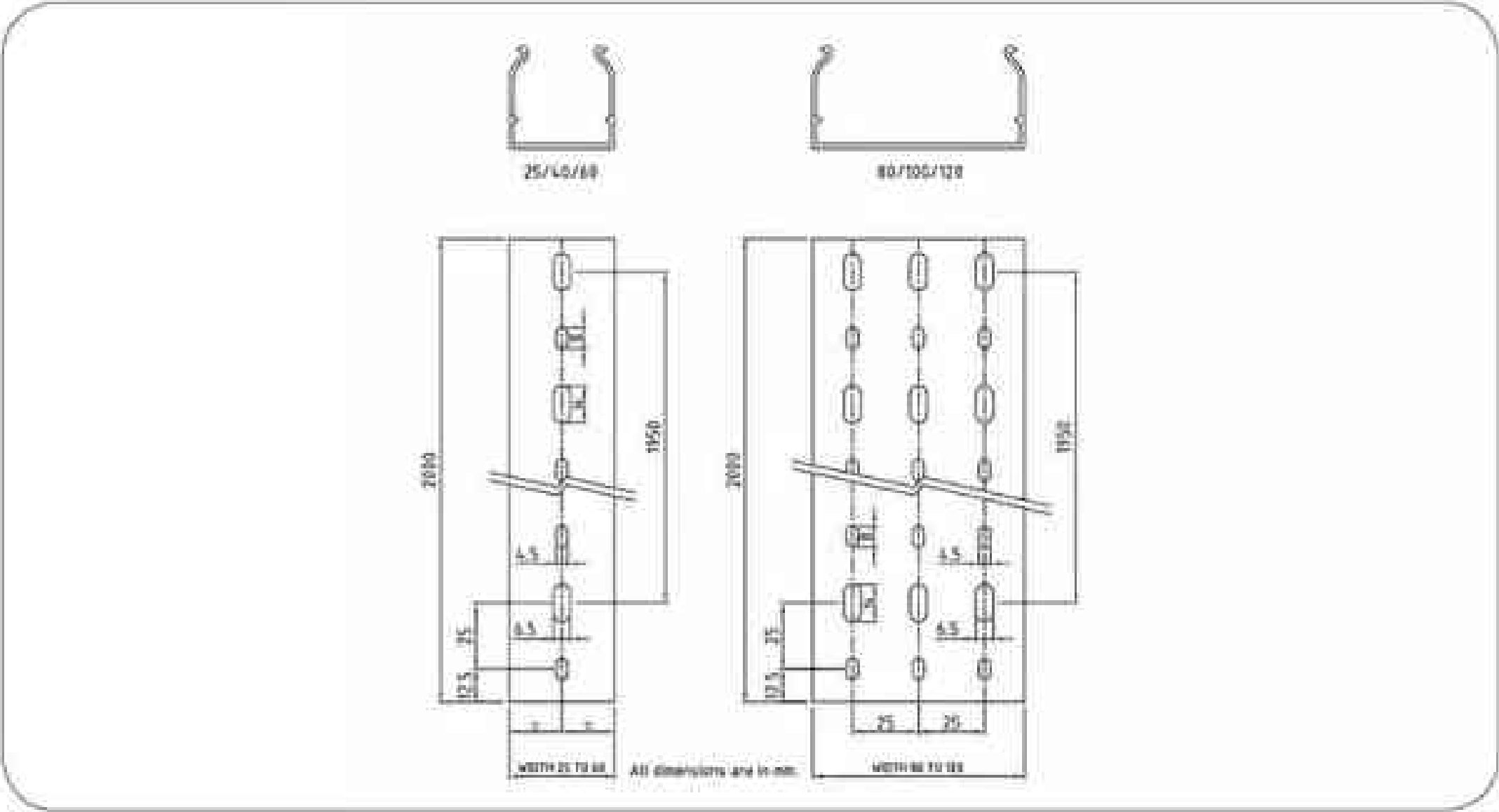


Figure 6

- Dimensional Details

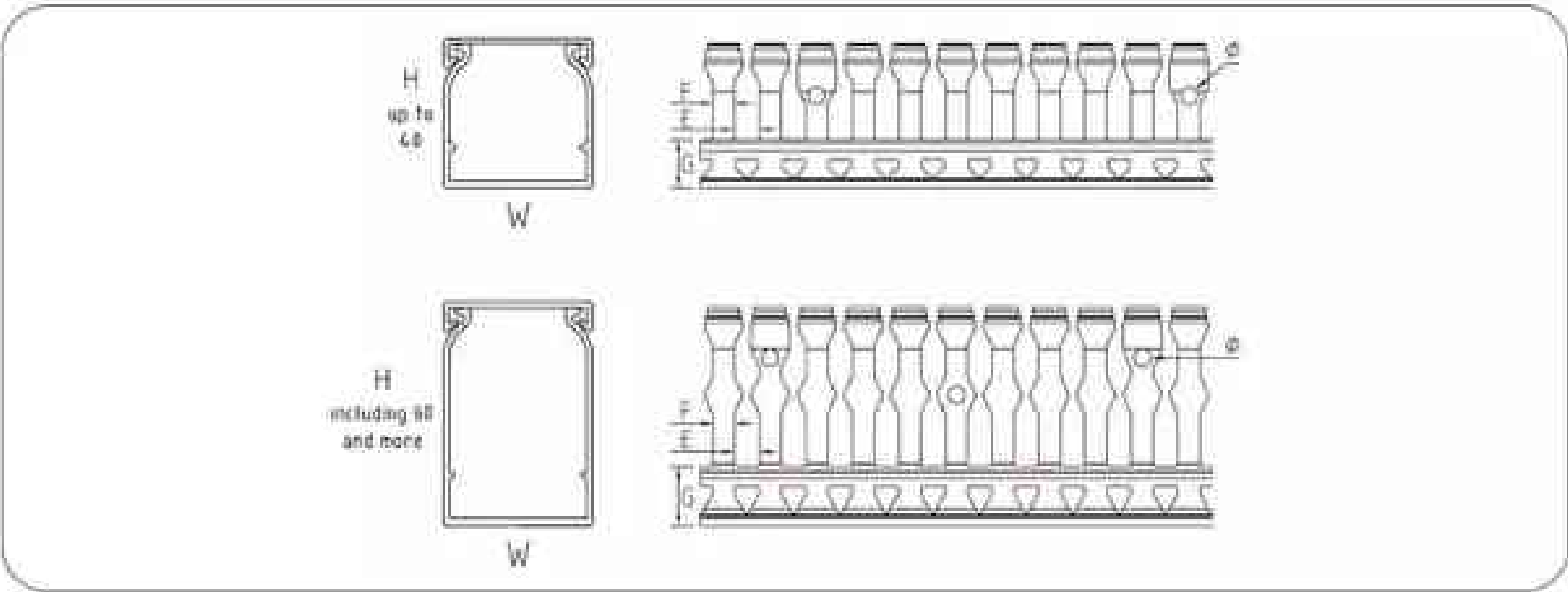


Table 2

Recommended maximum number of wires to be used per wiring duct based on 60% fill capacity (Wire fill capacity)

Duct Nominal Size (W×H) mm	Nominal Cross-Section of Conductors		
	1 mm ² (O.D=1.844mm)	1.5 mm ² (O.D=3.168 mm)	2.5 mm ² (O.D=3.768mm)
25×40	81	60	42
40×40	130	96	67
60×40	195	144	101
25×60	122	90	63
40×60	195	144	101
60×60	293	216	151
80×60	390	288	201
100×60	488	360	252
25×80	163	120	84
40×80	260	192	134
60×80	390	288	201
80×80	521	384	269
100×80	651	480	336
80×100	651	480	336
100×100	813	600	420

* O.D =Output Diameter

* The number of conductors in table 2 is calculated by: 60%×[(W×H)/(O.D)²]

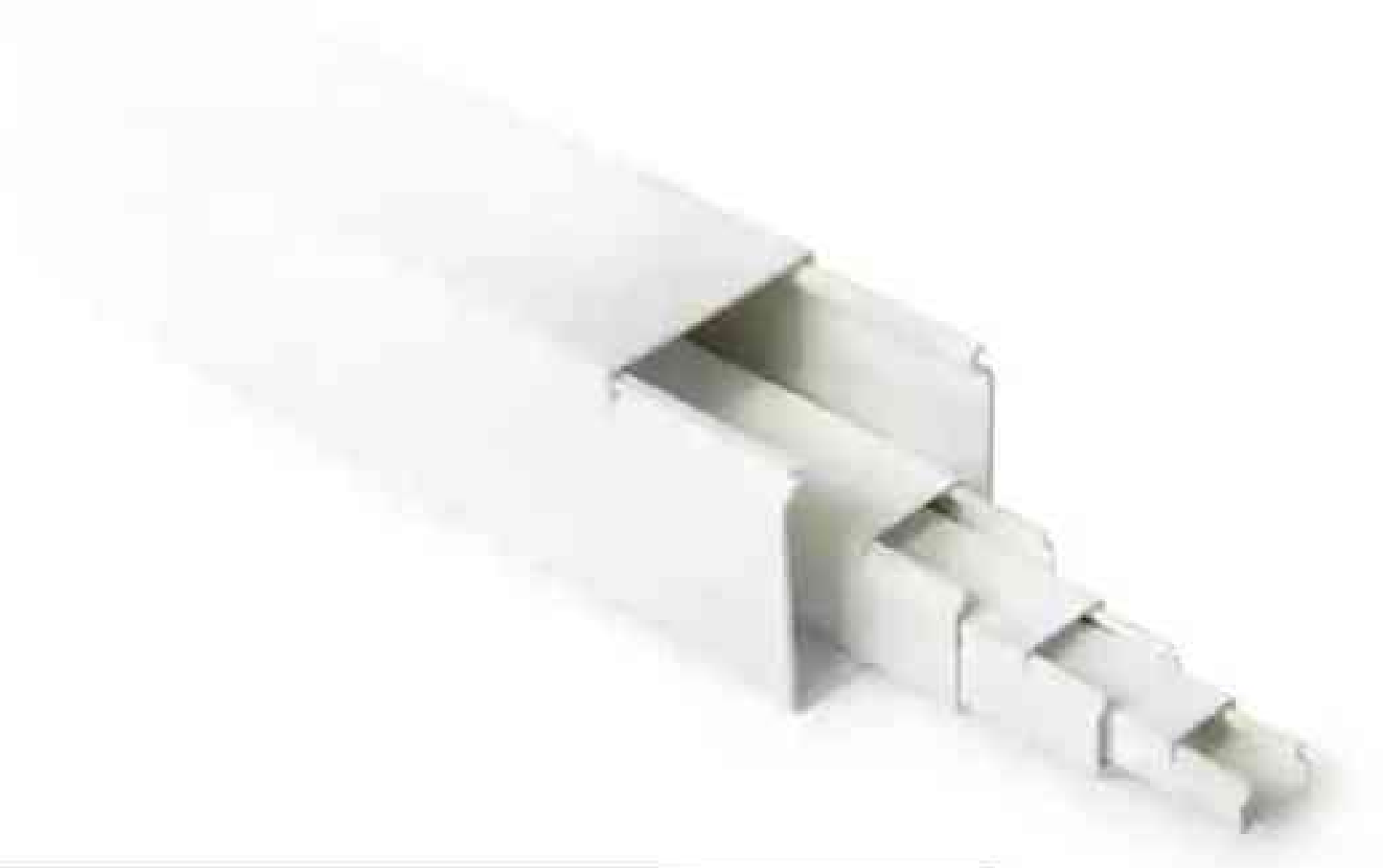
- For comparison of standard cross-sections between AWG and metric sizes, refer to Table 3 (see IEC 60947-7-1,Table 1)

Table 3- Standard cross-sections of round copper conductors

Metric size ISO mm ²	Comparison between AWG and metric sizes	
	Size AWG	Equivalent metric area mm ²
0.2	24	0.205
0.34	22	0.324
0.5	20	0.519
0.75	18	0.82
1	-	-
1.5	16	1.3
2.5	14	2.1
4	12	3.3
6	10	5.3

Table 4 - Wall, Bottom, Cover Thickness and Dimension (mm)

Duct Nominal Size (W×H) mm	Dimensions (mm)						Thickness (mm)		
	W	H	E	F	G	φ	Walls	Bottom	Cover
25 x 40	25	40	6.5	5.9	12.8	4.5	1.6	2.0	1.35
40 x 40	25	60	6.5	6	15.7	4.5	1.6	2.0	1.35
60 x 40	40	40	6.5	5.9	12.8	4.5	1.6	1.8	1.35
25 x 60	40	60	6.5	6	15.7	4.5	1.6	2.0	1.35
40 x 60	40	80	6.5	6	19.8	4.5	1.5	2.0	1.35
60 x 60	60	40	6.5	5.9	12.8	4.5	1.85	2.0	1.35
80 x 60	60	60	6.5	6	15.7	4.5	1.85	2.1	1.5
100 x 60	60	80	6.5	6	19.8	4.5	1.6	2.0	1.5
40 x 80	80	60	6.5	6	15.7	4.5	1.9	2.0	1.35
60 x 80	80	80	6.5	6	19.8	4.5	1.85	2.1	1.35
80 x 80	100	60	6.5	6	15.7	4.5	1.9	2.1	1.5
100 x 80	100	80	6.5	6	19.8	4.5	1.9	2.0	1.5
100 x 100	100	100	6.5	6	19.8	4.5	1.9	2.1	1.55

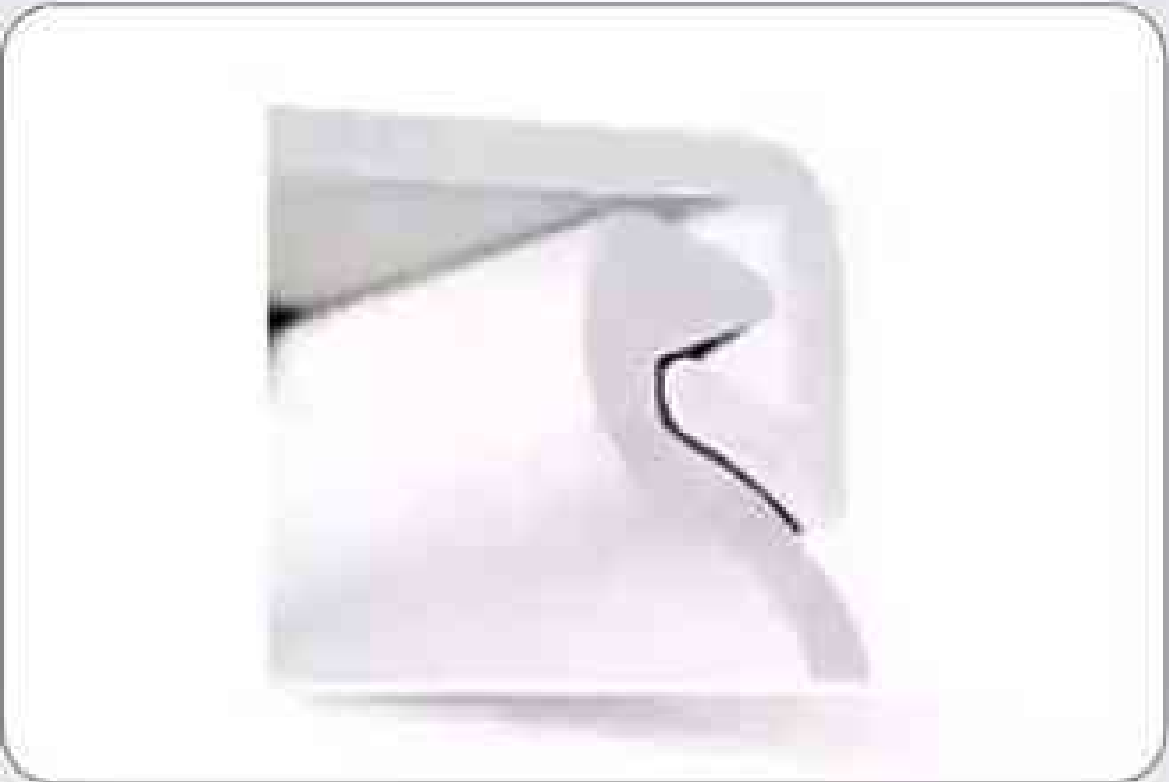
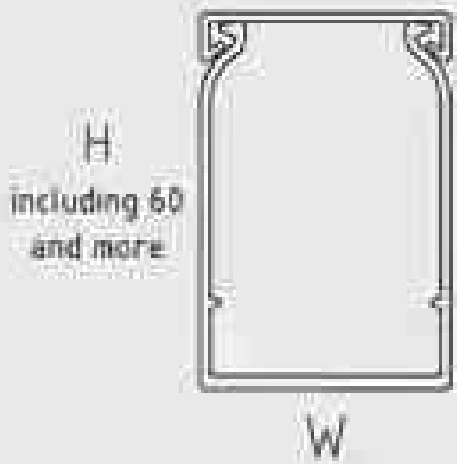
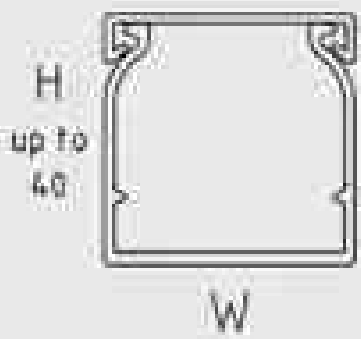


Non-slotted Wiring Duct

Type: HWD

Using RAAD Household Wiring Duct (HWD) makes your room look more appealing by hiding and safely storing the wires that go across walls, ceilings and floors. HWDs are widely used in buildings, offices, houses and residential properties, just to name a few. Using the HWDs will provide your wires with an appropriate casing, helping you to place your cables into pre-determined paths. This product comes with a cover to simplify the process of purchasing. The use of heat-resistant PVC avoids any damage caused by the heat-emitting equipments.

Nominal Size (WxH) mm	Ordering No.	Qty. in Package	Total Length in Package (m)
20 x 12	6110204003	65	130
20 x 20	6110204004	42	84
25 x 20	6110205004	36	72
30 x 30	6110206006	20	40
40 x 40	6110208008	20	40
60 x 40	6110212008	16	32
60 x 60	6110212012	12	24
100 x 60	6110220020	6	12



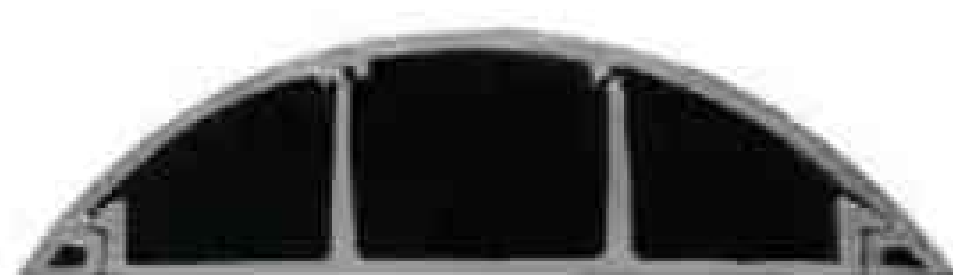


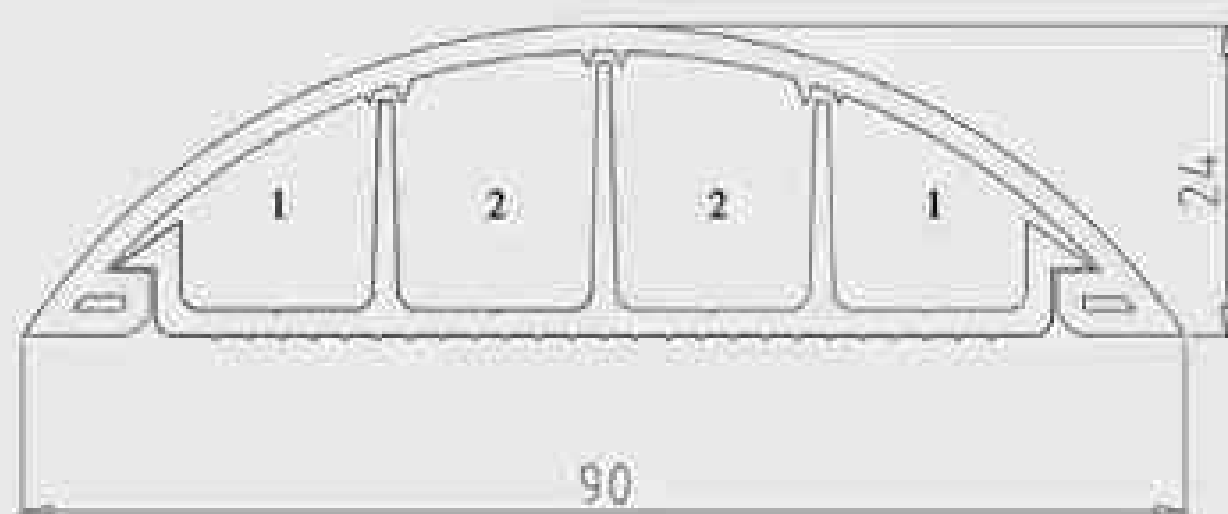
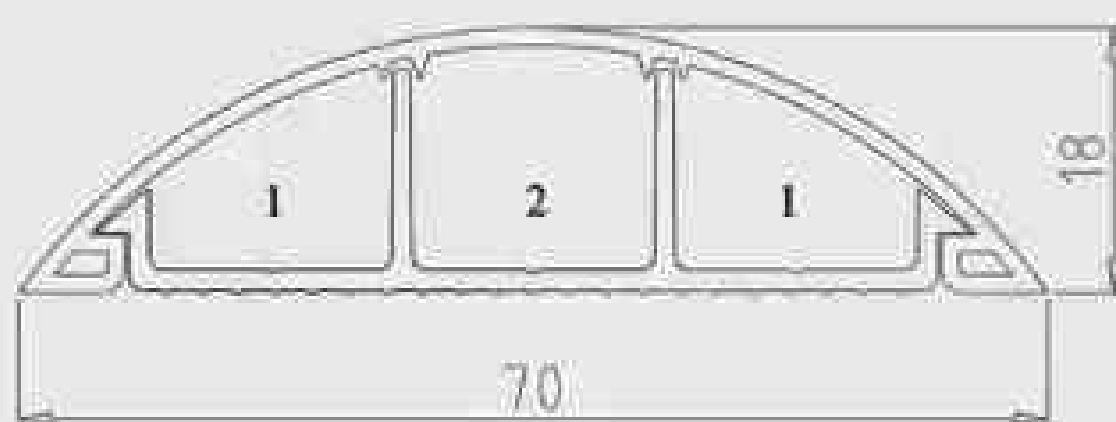
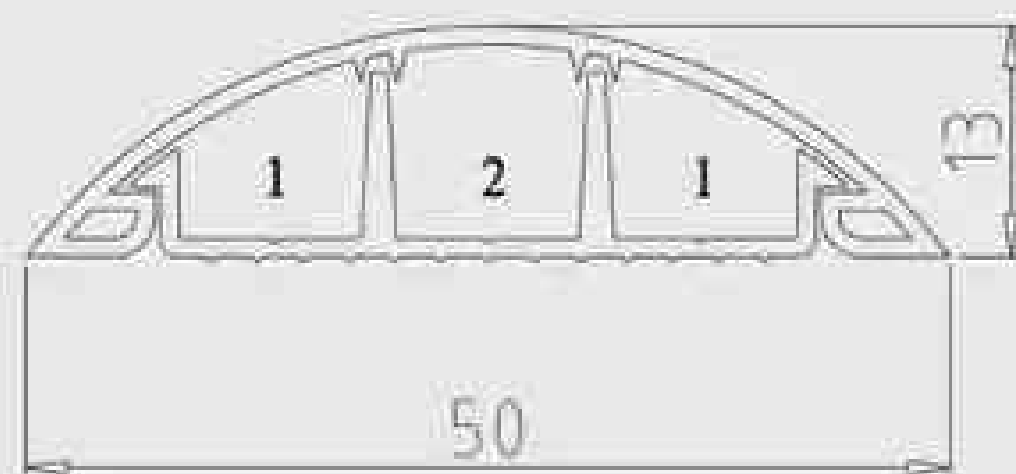
Onfloor Wiring Duct

Type: OWD

- Insulating, shock-proof, self-extinguishing material
- Standard 2-meter long base complete with cover
- Complying with the EN 50085-2-2 European Standard
- Residential and commercial application
- Special design giving high resistance to crushing
- Degree of protection IP40
- Various compartments suitable for house electric, telephone and data transmission cables separately
- Providing optimum reliability and safety through compliance with relevant standards
- Providing high cable retention

Nominal Size (WxH) mm	Ordering No.	Qty. in carton	Total Length in carton	Ordering No.
50 x 13	6110310010	30	60	6110310010
70 x 18	6110310014	14	28	6110310014
90 x 24	6110310018	8	16	6110310018





RAAD Onfloor Wiring Ducts can be ordered in 3 sizes as follows.

Duct Size		50 x 13	
Technical Information		Compartment	
		1	2
Useful cross section (mm ²)		76	103
Cable Ø Max (mm)		9.1	11
Usable cross section area (mm ²)	1.5	6	8
	2.5	5	6
	4	3	4
	6	2	3
Duct Size		70 x 18	
Technical Information		Compartment	
		1	2
Useful cross section (mm ²)		174	244
Cable Ø Max (mm)		11	16.2
Usable cross section area (mm ²)	1.5	11	15
	2.5	9	13
	4	6	10
	6	4	6
Duct Size		90 x 24	
Technical Information		Compartment	
		1	2
Useful cross section (mm ²)		195.5	298
Cable Ø Max (mm)		12.9	16.2
Usable cross section area (mm ²)	1.5	13	19
	2.5	10	16
	4	7	11
	6	5	7



Din Rail Socket Outlet

The capability of Raad Din Rail Socket Outlet (DSO) in mounting on din rails as well its standard format, distinguished this type of product.

The main connection terminals (L1, N, PE) are arranged on one side of the socket for easy connection.

The advantages of DSO are as follows:

- Mountable on TH35-15 and TH35-7.5 din rails in accordance with IEC/EN 60715.
- Having three connection terminals: phase-neutral-earth.
- With and without light indicator (LED)
- Applied UI 94 high grade fire- resistant plastic material.
- The sockets are supplied with Marking Tags.

DSO
width 44.8 mm



DSO-LD
width 44.8 mm



IEC 60884-1 rated data			DSO			DSO-LD		
Voltage (V)			250			250		
Current (A)			16			16		
Description			Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Din rail socket outlet, for mounting on TH 35-7.5, 15 			DSO	6080101001	5	DSO-LD	6080201001	5
Colour								

Dimensions (mm)		
Width / Length / Height	44.8/78/63	44.8/78/63
Connection capacity		
Rigid Solid (mm²)	0.5-6	0.5-6
Rigid stranded (mm²)	0.5-6	0.5-6
Flexible (mm²)	0.5-6	0.5-6
Clamping screw	M3.5	M3.5
Tightening torque (N.m)		
	1.2	1.2
Insulation material	PA	PA
Degree of Protection	IP 20	IP 20

Control Switches

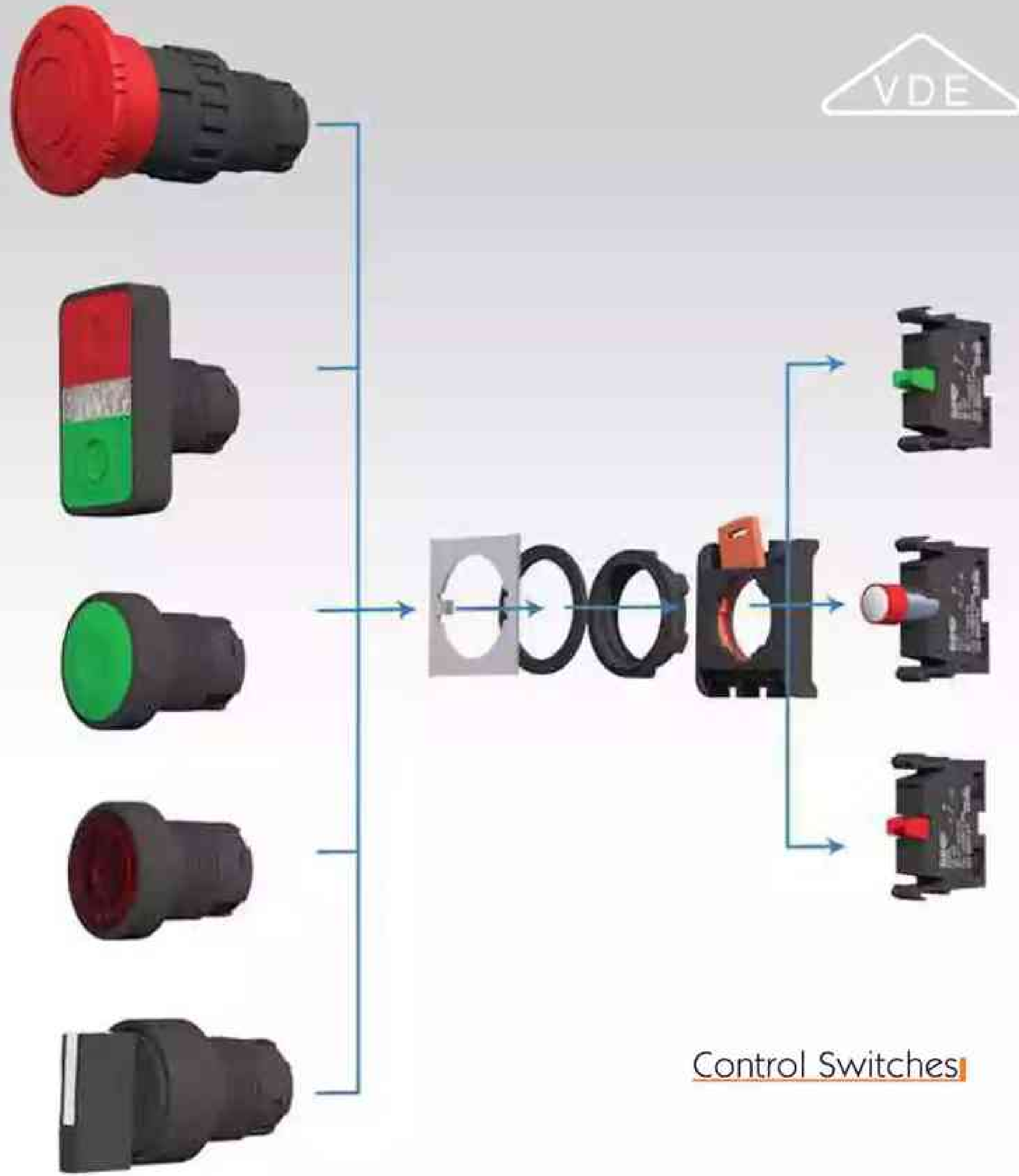


The range of 22mm diameter Control Switches is designed in accordance to IEC 60947-5-1 and IEC 60947-5-5 to provide the following features:

- Easy and rapid installation
- Fixing method unaffected by excessive vibration
- Produced from flame resistant material
- Plastic bush construction resistant to corrosion and longer mechanical life
- Independent assembling of NC and NO contacts and freely combined for convenient replacement
- Outstanding appearance and ergonomics
- The BA9S lamp can be requested in each color



Resistant to unwilling rotation during normal operation, due to anti-rotation washer.



Control Switches

Working and mounting conditions:	
Conforming standard	IEC 60947-5-1
Ambient temperature	-5 ~ +40
Altitude	2000m
Pollution degree	3
Technical Data:	
Rated insulation voltage (V)	400
Rated impulse withstand voltage (kV)	4
Conventional thermal current (A)	10
Utilization Category	AC-15, DC-13
push button color	●●●●●●
Rated operational voltage(V)*	
380	1.9
240	3
120	6

*: For illuminated push buttons the rated operational voltage of lamps are: 24, 48, 110, 220 V (AC/DC)



IEC 60947-5-1	FBO			FBC		
Impulse Voltage (kV)	4			4		
Rated Insulation Voltage (V)	400			400		
Current (A)	3			3		
Pollution Degree/Voltage Category/ Material Group	3/III/I			3/III/I		
Utilization Category	AC-15, DC-13			AC-15, DC-13		
Ambient Temperature (°C)	-5~40			-5~40		
Contact						
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 
Number of contacts	1	0	0	0	1	0

Description	Voltage (v)	Color	Ordering No.	Qty.	Voltage (v)	Color	Ordering No.	Qty.
Pushbutton, Spring-return	Up to 380		6070302001	15	Up to 380		6070301001	15
			6070302006					
			6070302005					
			6070302004					
			6070302009					

Connection Capacity								
Rigid Solid (mm ²)	0.5-4							
Stripping Length (mm)	9							
Clamping Screw	M3							
Tightening Torque (N.m)	0.5							
Insulation material	PA							

Dimension								
								

FBC-O
VDE CE



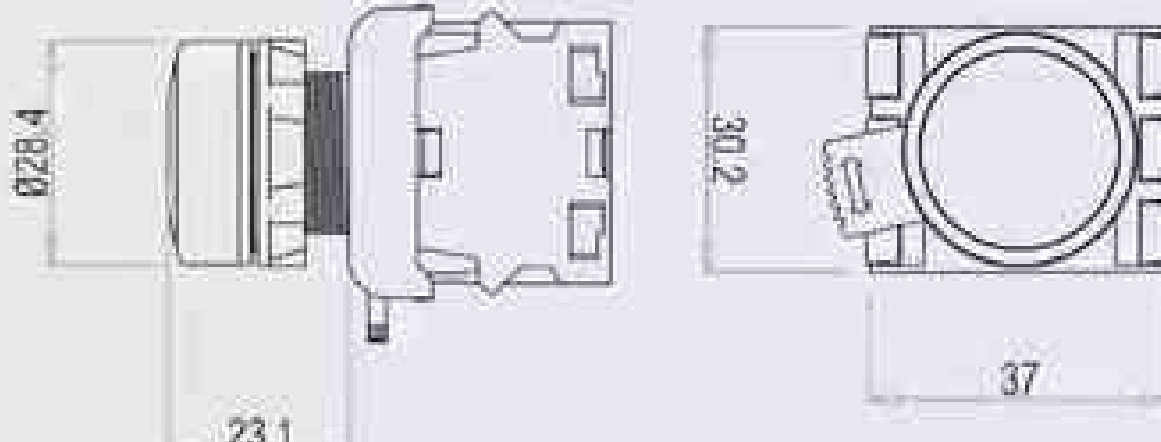
FBC-C
VDE CE



IEC 60947-5-1	FBC-O			FBC-C		
Impulse Voltage (kV)	4			4		
Rated Insulation Voltage (V)	400			400		
Current (A)	3			3		
Pollution Degree/Voltage Category/ Material Group	3/III/I			3/III/I		
Utilization Category	AC-15, DC-13			AC-15, DC-13		
Ambient Temperature (oC)	-5~40			-5~40		
Contact						
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 
Number of contacts	1	0	0	0	1	0

Description	Voltage (v)	Color	Ordering No.	Qty.	Voltage (v)	Color	Ordering No.	Qty.
Pushbutton, Spring-return	Up to 380		6070302101	15	Up to 380		6070301101	15
			6070302106					
			6070302105					
			6070302104					
			6070302102					

Connection Capacity								
Rigid Solid (mm ²)	0.5-4							
Stripping Length (mm)	9							
Clamping Screw	M3							
Tightening Torque (N.m)	0.5							
Insulation material	PA & White Chromated							

Dimension								
								

FBL-O
VDE CE



FBL-C
VDE CE



IEC 60947-5-1	FBL-O			FBL-C		
Impulse Voltage (kV)	4			4		
Rated Insulation Voltage (V)	400			400		
Current (A)	3			3		
Pollution Degree/Voltage Category/ Material Group	3/III/I			3/III/I		
Utilization Category	AC-15, DC-13			AC-15, DC-13		
Ambient Temperature (oC)	-5~40			-5~40		
Contact						
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 
Number of contacts	1	0	1	0	1	1

Description	Voltage (v)	Color	Ordering No.	Qty.	Voltage (v)	Color	Ordering No.	Qty.
Pushbutton, Spring-return, Illuminated with lamp ...	24		6070302008	15	24		6070301006	15
			6070302027					
			6070302023					
			6070302019					
Pushbutton, Spring-return, Illuminated with lamp ...	48		6070302007	15	48		6070301005	15
			6070302026					
			6070302022					
			6070302018					
Pushbutton, Spring-return, Illuminated with lamp ...	110		6070302003	15	110		6070301004	15
			6070302025					
			6070302021					
			6070302017					
Pushbutton, Spring-return, Illuminated with lamp ...	220		6070302002	15	220		6070301003	15
			6070302024					
			6070302020					
			6070302016					

Connection Capacity								
Rigid Solid (mm ²)	0.5-4							
Stripping Length (mm)	9							
Clamping Screw	M3							
Tightening Torque (N.m)	0.5							
Insulation material	PA							

Dimension								
								

FBCL-O
VDE CE

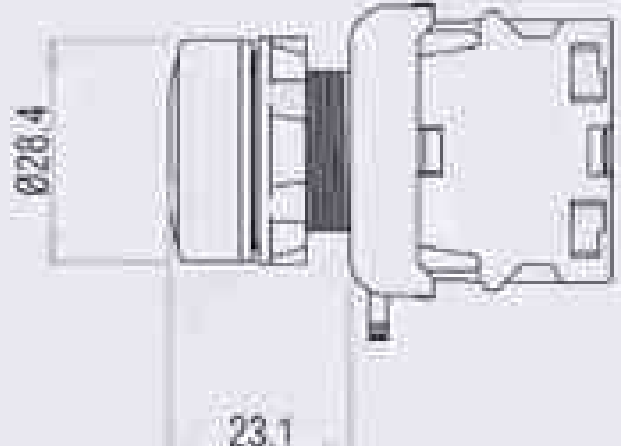
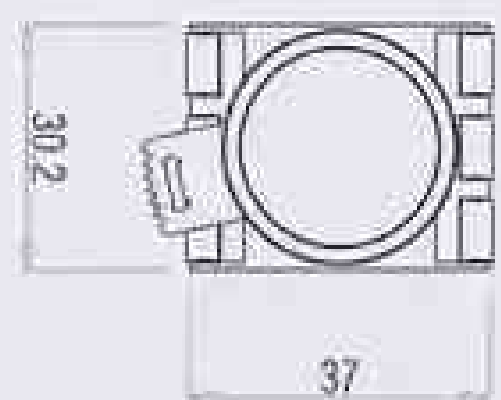


FBCL-C
VDE CE



IEC 60947-5-1	FBCL-O			FBCL-C		
Impulse Voltage (kV)	4			4		
Rated Insulation Voltage (V)	400			400		
Current (A)	3			3		
Pollution Degree/Voltage Category/ Material Group	3/III/I			3/III/I		
Utilization Category	AC-15, DC-13			AC-15, DC-13		
Ambient Temperature (°C)	-5~40			-5~40		
Contact						
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 
Number of contacts	1	0	1	0	1	1

Description	Voltage (v)	Color	Ordering No.	Qty.	Voltage (v)	Color	Ordering No.	Qty.
Pushbutton, Spring-return, Illuminated with lamp ...	24		6070302111	10	24		6070301106	10
			6070302127					
			6070302123					
			6070302115					
Pushbutton, Spring-return, Illuminated with lamp ...	48		6070302110	10	48		6070301105	10
			6070302126					
			6070302122					
			6070302114					
Pushbutton, Spring-return, Illuminated with lamp ...	110		6070302109	10	110		6070301104	10
			6070302125					
			6070302121					
			6070302113					
Pushbutton, Spring-return, Illuminated with lamp ...	220		6070302108	10	220		6070301103	10
			6070302124					
			6070302120					
			6070302112					
Connection Capacity								
Rigid Solid (mm²)	0.5-4							
Stripping Length (mm)	9							
Clamping Screw	M3							
Tightening Torque (N.m)	0.5							
Insulation material	PA & White Chromated							

Dimension	
	

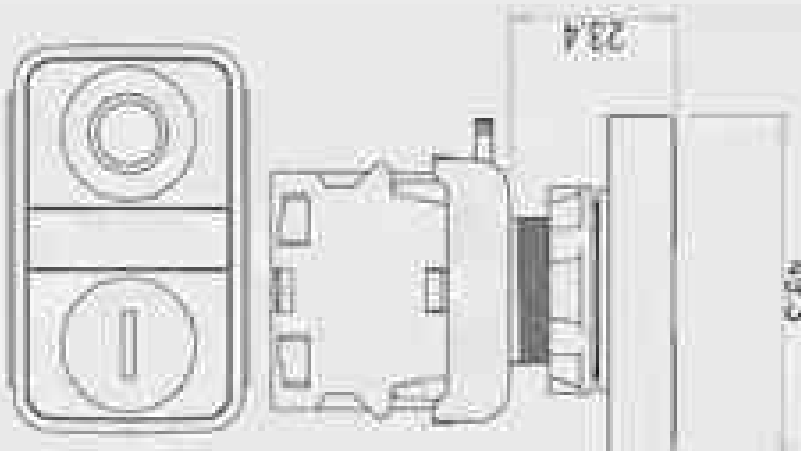
DPB
VDE CE



DPBC
VDE CE



IEC 60947-5-1	DPB			DPBC		
Impulse Voltage (kV)	4			4		
Rated Insulation Voltage (V)	400			400		
Current (A)	3			3		
Pollution Degree/Voltage Category/ Material Group	3/III/I			3/III/I		
Utilization Category	AC-15, DC-13			AC-15, DC-13		
Ambient Temperature (oC)	-5~40			-5~40		
Contact						
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 
Number of contacts	1	1	0	1	1	0

Description	Voltage (v)	Ordering No.	Qty.	Voltage (v)	Ordering No.	Qty.
Double Pushbutton Spring-return	Up to 380v	6070303001	10	Up to 380v	6070303101	10
Connection Capacity						
Rigid Solid (mm2)	0.5-4					
Stripping Length (mm)	9					
Clamping Screw	M3					
Tightening Torque (N.m)	0.5					
Insulation material	PA, PA & White Chromated					
Dimension						
						

DPBL
VDE CE

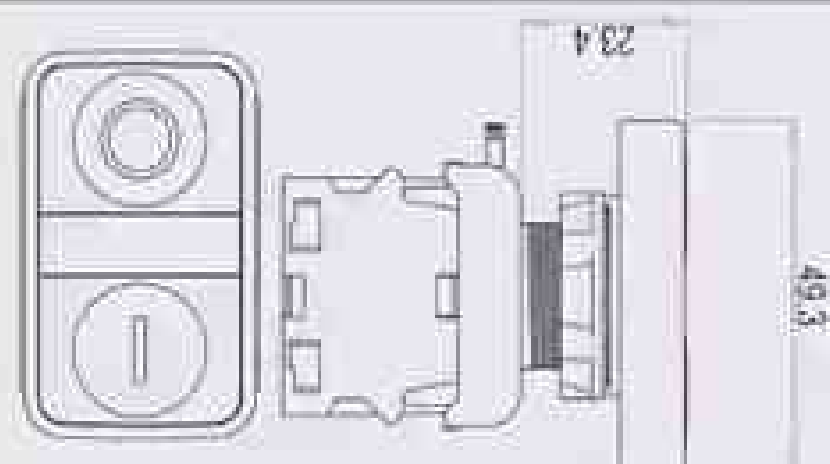


DPBCL
VDE CE



IEC 60947-5-1	DPBL			DPBCL		
Impulse Voltage (kV)	4			4		
Rated Insulation Voltage (V)	400			400		
Current (A)	3			3		
Pollution Degree/Voltage Category/ Material Group	3/III/I			3/III/I		
Utilization Category	AC-15, DC-13			AC-15, DC-13		
Ambient Temperature (oC)	-5~40			-5~40		
Contact						
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 
Number of contacts	1	1	1	1	1	1

Description	Voltage (v)	Ordering No.	Qty.	Voltage (v)	Ordering No.	Qty.
Double Pushbutton Spring-return Illuminated with lamp	24	6070303009	10	220	6070303102	10
	48	6070303008	10			
	110	6070303007	10			
	220	6070303002	10			
Double Pushbutton Spring-return Illuminated with RED lamp	220	6070303003	10	220	6070303103	10
Connection Capacity						
Rigid Solid (mm²)				0.5-4		
Stripping Length (mm)				9		
Clamping Screw				M3		
Tightening Torque (N.m)				0.5		
Insulation material	PA, PA & White Chromated					
Dimension						

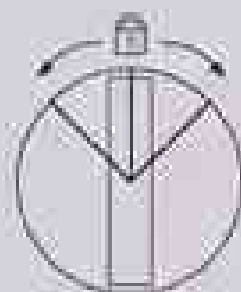


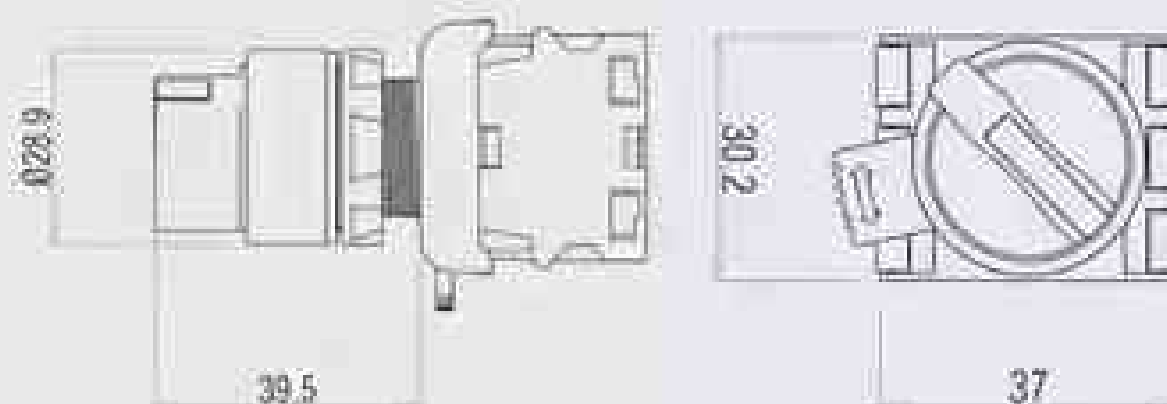


IEC 60947-5-1		ESTR		
Impulse Voltage (kV)		4		
Rated Insulation Voltage (V)		400		
Current (A)		3		
Pollution Degree/Voltage Category/ Material Group		3/III/I		
Utilization Category		AC-15, DC-13		
Ambient Temperature (oC)		-5~40		
Contact				
Contact type		NO 	NC 	Lamp 
Number of contacts		0	1	0

Description	Voltage (v)	Ordering No.	Qty.
Emergency stop button, Turn to release ESTR Spring-return	Up to 380v	6070301002	10
Connection Capacity			
Rigid Solid (mm2)	0.5-4		
Stripping Length (mm)	9		
Clamping Screw	M3		
Tightening Torque (N.m)	0.5		
Insulation material	PA		
Dimension			
			



IEC 60947-5-1		Selector Switches (momentary)				
Impulse Voltage (kV)	4					
Rated Insulation Voltage (V)	400					
Current (A)	3					
Pollution Degree/ Voltage Category/Material Group	3/III/1					
Utilization Category	AC-15 , DC-13					
Ambient Temperature (°C)	-5~40					
Type of position						
	Two position momentary			Three position momentary		
Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Selector switch, momentary	SEI2	6070303010	12	SEI3	6070303011	12
Selector switch, momentary, coated	SEIC2	6070303110	12	SEIC3	6070303111	12
Contact						
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 
Number of contacts	1	-	-	2	-	-
Color						
Voltage	Up to 380					
Connection Capacity						
Rigid Solid (mm2)	0.5-4					
Stripping Length (mm)	9					
Clamping Screw	M3					
Tightening Torque (N.m)	0.5					
Insulation material	PA, PA & White Chromated					
Dimension						



SEI-L
VDE CE



IEC 60947-5-1

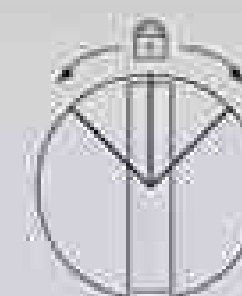
Selector Switches with LED (momentary)

Impulse Voltage (kV)	4
Rated Insulation Voltage (V)	400
Current (A)	3
Pollution Degree/ Voltage Category/Material Group	3/III/I
Utilization Category	AC-15, DC-13
Ambient Temperature (°C)	-5~40

Type of position



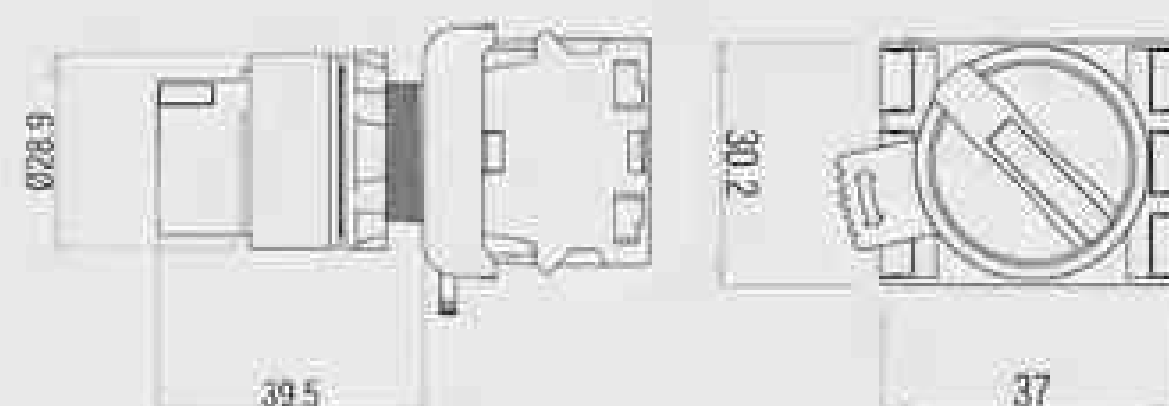
Two position momentary



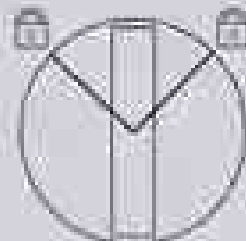
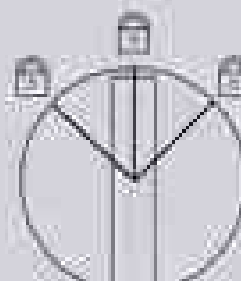
Three position momentary

Description	Type	Ordering No.	Color	Qty.	Type	Ordering No.	Color	Qty.
Selector switch, momentary with lamp	SEI2-L	6070303012		12	SEI3-L	6070303014		12
	SEI2-L	6070303013		12	SEI3-L	6070303017		12
	SEI2-L	6070303016		12	SEI3-L	6070303017		12
Selector switch, momentary, coated and with lamp	SEI2C-L	6070303112		12	SEI3C-L	6070303114		12
	SEI2C-L	6070303113		12	SEI3C-L	6070303115		12
Contact								
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 		
Number of contacts	1	-	1	2	-	1		
Voltage	220							
Connection Capacity								
Rigid Solid (mm ²)	0.5-4							
Stripping Length (mm)	9							
Clamping Screw	M3							
Tightening Torque (N.m)	0.5							
Insulation material	PA, PA & White Chromated							

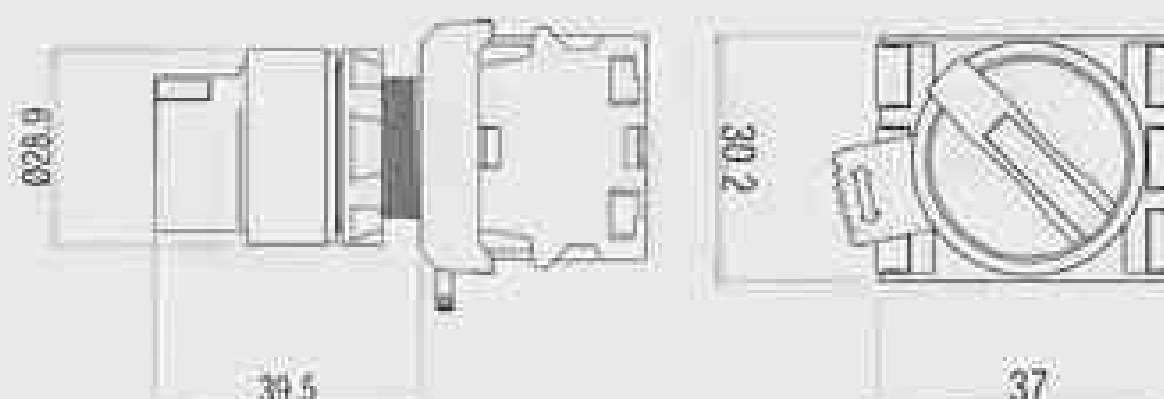
Dimension





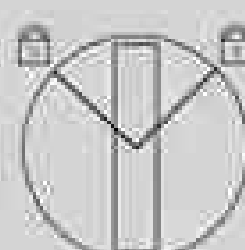
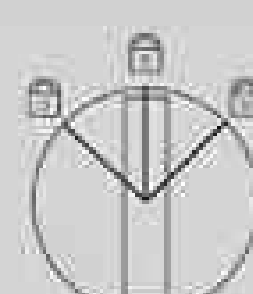
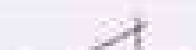
IEC 60947-5-1		Selector Switches (stay-put)				
Impulse Voltage (kV)	4					
Rated Insulation Voltage (V)	400					
Current (A)	3					
Pollution Degree/ Voltage Category/Material Group	3/III/1					
Utilization Category	AC-15, DC-13					
Ambient Temperature (°C)	-5~40					
Type of position						
	Two position stay-put			Three position stay-put		
Description	Type	Ordering No.	Qty.	Type	Ordering No.	Qty.
Selector switch, stay-put	SES2	6070303020	12	SES3	6070303021	12
Selector switch, stay-put, coated	SESC2	6070303120	12	SESC3	6070303121	12
Contact						
Contact type	NO 	NC 	Lamp 	NO 	NC 	Lamp 
Number of contacts	1	-	-	2	-	-
Color						
Voltage	Up to 380					
Connection Capacity						
Rigid Solid (mm²)	0.5-4					
Stripping Length (mm)	9					
Clamping Screw	M3					
Tightening Torque (N.m)	0.5					
Insulation material	PA, PA & White Chromated					
Dimension						

Dimension



SES-L
VDE CE



IEC 60947-5-1		Selector Switches with LED (stay-put)						
Impulse Voltage (kV)	4							
Rated Insulation Voltage (V)	400							
Current (A)	3							
Pollution Degree/ Voltage Category/Material Group	3/III/I							
Utilization Category	AC-15 , DC-13							
Ambient Temperature (°C)	-5~40							
Type of position	 Two position stay-put				 Three position stay-put			
Description	Type	Ordering No.	Color	Qty.	Type	Ordering No.	Color	Qty.
Selector switch, stay-put with lamp	SES2-L	6070303022	●	12	SES3-L	6070303024	●	12
	SES2-L	6070303023	●	12	SES3-L	6070303025	●	12
	SES2-L	6070303026	●	12	SES3-L	6070303027	●	12
Selector switch, stay-put, coated with lamp	SESC2-L	6070303122	●	12	SESC3-L	6070303124	●	12
	SESC2-L	6070303123	●	12	SESC3-L	6070303125	●	12
Contact								
Contact type	NO 	NC 	Lamp 		NO 	NC 	Lamp 	
Number of contacts	1	-	1	2	2	-	1	1
Voltage	220							
Connection Capacity								
Rigid Solid (mm ²)	0.5-4							
Stripping Length (mm)	9							
Clamping Screw	M3							
Tightening Torque (N.m)	0.5							
Insulation material	PA, PA & White Chromated							
Dimension								



RNCC
VDE CE



RNOC
VDE CE



RSC
VDE CE



IEC 60947-5-1	RNCC	RNOC	RSC
Diagram			
Utilization category	AC-15 DC-13	AC-15 DC-13	3/III/I
Rated insulation voltage (V)	400	400	-5~40
Rated operational Voltage (A)	AC 240V/DC 250V		
Rated operational current (A)	AC 3A / DC 0.27A		
Conventional free air thermal current (A)	10		
Pollution Degree/Voltage Category/Material Group	3/III/I		
Ambient Temperature (°C)	-5~40		
Description	Voltage	Ordering Number	Qty.
Single normaly open contact	Up to 380V	6070401001	50
Single normally close contact		6070402001	50
Single lamp contact		6070403001	50
Connection Capacity			
Rigid Solid (mm ²)	0.5-4		
Stripping Length (mm)	9		
Clamping Screw	M3		
Tightening Torque (N.m)	0.5		



IEC 60947-5-1		Lamp			
Diagram					
Pollution Degree/Voltage Category/Material Group		3/III/I			
Ambient Temperature (°C)		-5~40			
Description	Voltage	Color	Power	Ordering Number	Qty.
BA9S/M-W 24VAC/DC	24VAC/DC		0.17 W	6070204001	25
BA9S/M-W 48VAC/DC	48VAC/DC		0.41 W	6070204002	25
BA9S/M-W 110VAC/DC	110VAC/DC		0.44 W	6070204003	25
BA9S/M-W 220VAC/DC	220VAC/DC		0.48 W	6070204004	25
BA9S/M-G 24VAC/DC	24VAC/DC		0.17 W	6070205001	25
BA9S/M-G 48VAC/DC	48VAC/DC		0.41 W	6070205002	25
BA9S/M-G 110VAC/DC	110VAC/DC		0.44 W	6070205003	25
BA9S/M-G 220VAC/DC	220VAC/DC		0.48 W	6070205004	25
BA9S/M-R 24VAC/DC	24VAC/DC		0.17 W	6070206001	25
BA9S/M-R 48VAC/DC	48VAC/DC		0.41 W	6070206002	25
BA9S/M-R 110VAC/DC	110VAC/DC		0.44 W	6070206003	25
BA9S/M-R 220VAC/DC	220VAC/DC		0.48 W	6070206004	25
Connection Capacity					
Rigid Solid (mm ²)		0.5-4			
Stripping Length (mm)		9			
Clamping Screw		M3			
Tightening Torque (N.m)		0.5			

IN22



RSL22



IEC 60947-5-1

Light source

fixed

Interchangeable

Max current (mA)

20

-

Max power dissipation (W)

-

2.4

Pollution Degree/Voltage Category/
Material Group

3/III/I

3/III/I

Ambient Temperature (°C)

-5~40

-5~40

Description	Voltage	Color	Ordering Number	Qty.	Voltage	Color	Ordering Number	Qty.
Panel indicator light with integral LED	24v AC/DC	●	6070105001	25	24v AC/DC	●	6070110001	25
	24v AC/DC	●	6070105002	25	24v AC/DC	●	6070110002	25
	24v AC/DC	○	6070105003	25	24v AC/DC	○	6070110003	25
	24v AC/DC	●	6070105004	25	24v AC/DC	●	6070110004	25
	24v AC/DC	●	6070105005	25	24v AC/DC	●	6070110005	25
	110v AC/DC	●	6070103001	25	48v AC/DC	●	6070120001	25
	110v AC/DC	●	6070103002	25	48v AC/DC	●	6070120002	25
	110v AC/DC	○	6070103003	25	48v AC/DC	○	6070120003	25
	110v AC/DC	●	6070103004	25	48v AC/DC	●	6070120004	25
	110v AC/DC	●	6070103005	25	48v AC/DC	●	6070120005	25
	220v AC/DC	●	6070102401	25	48v AC/DC	●	6070130001	25
	220v AC/DC	●	6070102402	25	110v AC/DC	●	6070130002	25
	220v AC/DC	○	6070102403	25	110v AC/DC	○	6070130003	25
	220v AC/DC	●	6070102404	25	110v AC/DC	●	6070130004	25
	220v AC/DC	●	6070102405	25	110v AC/DC	●	6070130005	25
	220v DC	●	6070102421	25	220v AC/DC	●	6070140001	25
	220v DC	●	6070102422	25	220v AC/DC	●	6070140002	25
	220v DC	○	6070102423	25	220v AC/DC	○	6070140003	25
	220v DC	●	6070102424	25	220v AC/DC	●	6070140004	25
	220v DC	●	6070102425	25	220v AC/DC	●	6070140005	25

Connection Capacity

Rigid Solid (mm²)

0.5-4

Stripping Length (mm)

9

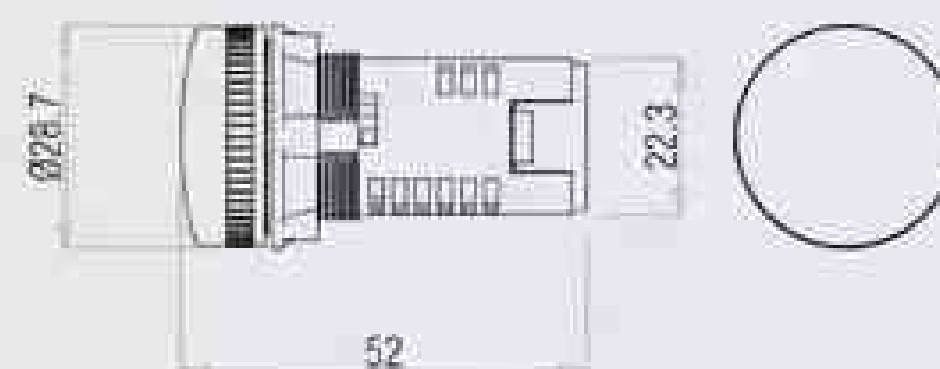
Clamping Screw

M3

Tightening Torque (N.m)

0.5

Dimension



Mounting Rails And Accessories

TH 35-7.5/S



TH 35-15/S

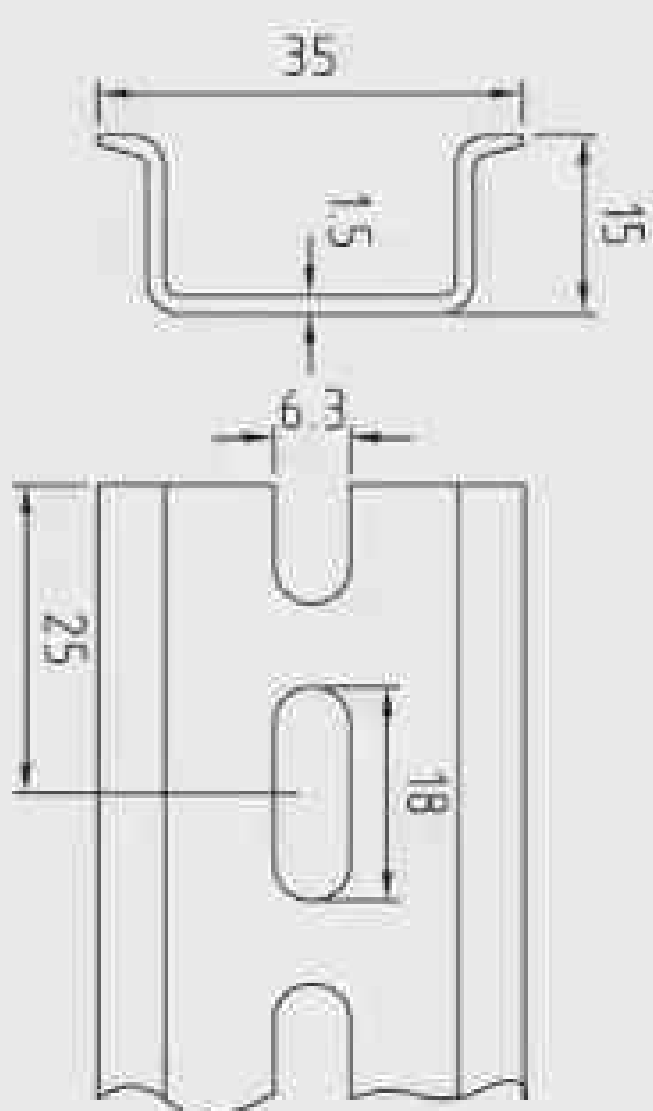


IEC 60715 mounting rails form the basis for the mounting of modular terminal blocks, as well as for rail mountable electro technical and electric components. Active and passive components are installed on mounting rails. In control cabinet design, the TH 35-15 and TH 35-7.5 rails stand out with their high degree of dimensional accuracy and surface tempering. All steel versions are electroplated and additionally coated with a white chromate comply with the IEC 60715, EN50022, EN50035 standards. Raad supplies components which are totally co-ordinated in their functionality.

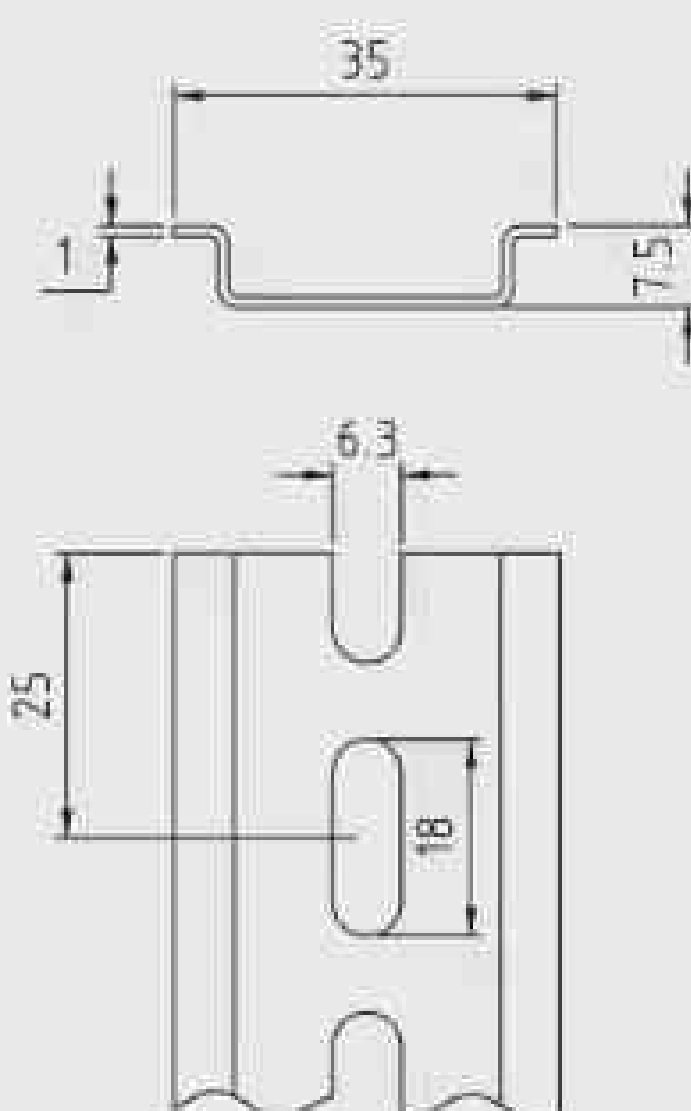
The mounting rails can also be used as a protective busbar. Raad protective conductor terminals meet the requirements specified in IEC 60947-7-2.

The rails are both produced in slotted and non-slotted form for easier application by the users.

Description	Type	Ordering No.	Qty.
Mounting Rail In according to IEC 60715, EN50022, EN50035, White chromated, Slotted	TH 35-7.5/S	6090101002	20
Mounting Rail In according to IEC 60715, EN50022, EN50035, White chromated, Slotted	TH 35-15/S	6090102002	10
Material	Steel, galvanized & White chromated		



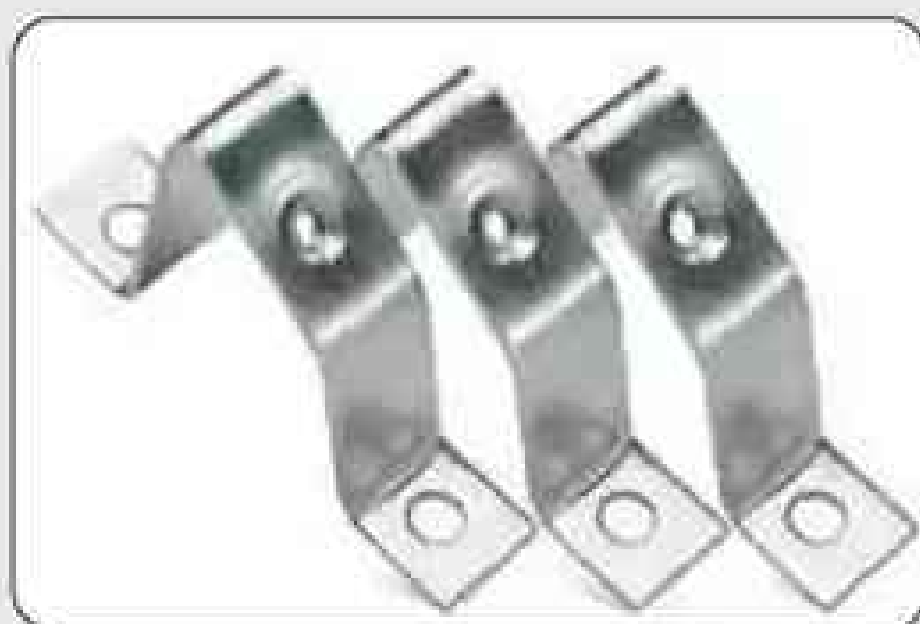
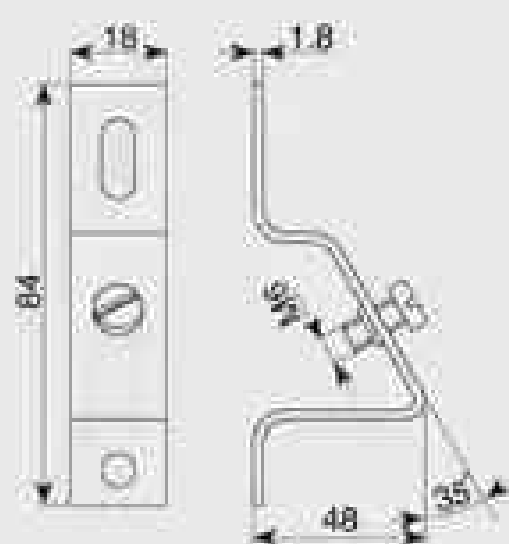
TH35-15



TH35-7.5



Mounting Rail Support



Mounting Rail Support

Angled Rail supports (ARS) hold sloped attachment of mounting rails at an angle of 35°. Their designs are available with M6 threads.

Description	Type	Ordering No.	Qty.
Angled rail support allow for sloped attachment of mounting rail at an angle of 35°, with M6 thread	ARS/M6	6090202001	10
Material	Steel, galvanized & white chromated		



Nylon Cable Tie

- RAAD Cable Ties which are made with some features and benefits:
- Available in seven sizes
- High tensile strength with very low insertion force
- Made of high quality engineering plastic PA
- Ergonomic bend tail offers quick and simple installation
- Easy application either manually or with an application tool

IEC 62275

Material

PA

Flammability

UL 94 V2

Operating Temperature (°C)

-40 ~ +80

Type	Name	ØBundle (mm)		Color	Ordering Number	Qty.
		min	max			
Cable tie	RC 100*2.5	2.0	21.0	Natural (NA)	6100100010	100
	RC 150*2.5	2.4	34.0		6100100015	100
	RC 200*2.5	2.4	55.0		6100100020	100
	RC 200*3.6	2.0	54.0		6100200020	100
	RC 250*3.6	2.0	70.0		6100200025	100
	RC 300*3.6	2.0	82.0		6100200030	100
	RC 400*4.8	2.0	110.0		6100300040	100

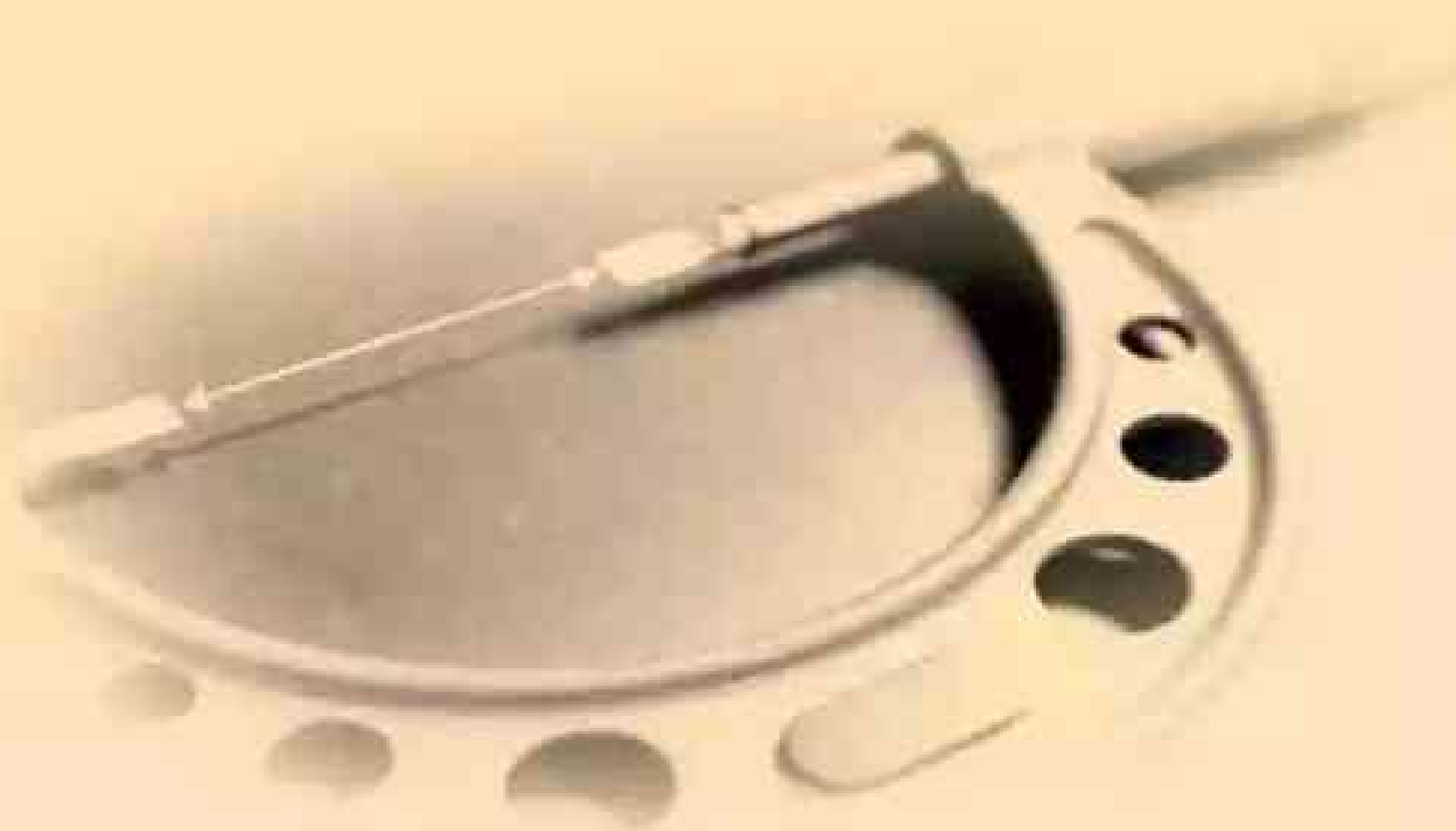
Dimension (mm)

Name	L	W	T
RC 100*2.5	98.00±2.00	2.50±0.05	1.00±0.05
RC 150*2.5	148.00±2.00	2.50±0.05	1.10±0.05
RC 200*2.5	198.00±2.00	2.50±0.10	1.15±0.10
RC 200*3.6	198.00±2.00	3.60±0.10	1.20±0.10
RC 250*3.6	245.00±5.00	3.60±0.10	1.30±0.10
RC 300*3.6	295.00±5.00	3.60±0.10	1.40±0.05
RC 400*4.8	395.00±5.00	4.75±0.05	1.35±0.10

General Technical Information



- **Certificates**
- **Material**
- **Standard and Regulations**



Certificates



Achieving a uniform quality on production in mass production is impossible unless through establishment of quality management system. Having the certificate of quality management system in accordance with ISO 9001:2015 issued by authorized and well-known standard institutions, Raad Manufacturing Company is seeking to assure its customers for the existence of such system.

Furthermore, Raad products quality is proven by outstanding institutions, being well-known in electric field all around the world, offered various types of certificates, in accordance with 2006/95/EC LV Directive.

Both, the certificates of products quality and quality management system indicate reliable products, manufactured by the company. The development plan to gain other certificates on products quality and quality management system is still alive and continuing.

Raad products use parts and materials conform to standards in electrical industry and are subject to quality control system.

Metals

All metal parts in Raad products are electro-plated using the latest state of the art engineering methods.

The surface protection conforms to technical standards. Steel parts at the beginning are zinc-plated and then a white chromate layer coats over the zinc, providing the best possible passivation.

Copper and brass parts are tin-plated. Tin plating provides excellent protection against corrosion and has good electrical conduction.

Steel

This is the most commonly used grade of spring steel strip in our push-in clamps. The tensile strength can reach up to 2200 MPa. The material offers the user a unique combination of tensile strength/spring properties in conjunction with excellent formability. These strips are processed into clamp parts even at comparatively high tensile strengths and are analytically compliant to the American material standard AISI 301 (US S30100). The temperature resistance depending on the type of load: up to 250 °C.

Insulating Materials

Raad terminal blocks use thermoplastics for insulating materials.

Thermoplastics are processed using economical and environmentally healthy injection molding processes, and have good recycling properties and can be re-used. Polyamide is a thermoplastic, used in the insulation body of Raad products. This modern semi-crystalline material has excellent electrical, mechanical, chemical and other characteristics even at 100°C for continuous operating.

The short-time peak temperatures are permissible up to about 200°C and the melting point is around 260°C.

Polyamide absorbs moisture from its surroundings, on average 2.8 %. This makes the PA more flexible and resistant to breakage, even at -40°C. Today PA is approved for use by the approval authorities such as CSA, NEMKO, KEMA, PTB, SEV, UL, VDE, etc.

Properties	Standard	Unit	PA 6.6
Max. application temperature (RTI)	IEC60216-1	°C, <5000h °C, <20.000h	125 100-130
Flammability class	UL94	-	V2
Comparative tracking index (CTI)	IEC60112	CTI CTIM	600 575(475)
Dielectric strength (1 mm thickness)	IEC60243-1	kV/mm	31
Surface resistivity	IEC60093	Ω	>10 ¹⁵
Volume resistivity	IEC60093	Ω.cm	10 ¹⁵
Tropical and termite resistance	-	-	good



EX Certificate

Terminal blocks for Potentially Explosive Atmosphere and Hazardous Location (ATEX-Directive 94/9/EC).

Now, Raad Terminal Blocks can be used in potentially explosive environments.

To assure such capability, various tests, namely as corrosion test, mechanical test and vibration test as well as ordinary tests are conducted on the terminal blocks.

All in all, IEC 60947-7-1, IEC 60947-7-2 and IEC 60947-7-3 standards pinpoint various mechanical, electrical and thermal requirements. Compliance with the mentioned standards is certified by an authorized certification body, granting product certificate.

Further to these standards, requirements of EN 60079-0, EN 60079-7, EN50281-1-1 or IEC 61241-1 standards as well as ATEX-Directive 94/9/EC are taken into consideration by an EU ATEX Notified Body in order to assure products capability to be used in potentially explosive environments.

These terminal blocks, were subjected to shock and vibration tests in accordance with the standards IEC/EN 60068-2-6 and IEC/EN 60068-2-27 respectively, carried out by TUV product service.

Consequently, the obtained certificates are "EC-TYPE Examination Certificate" on Products and "Production Quality Assurance Notification" on quality management system, proving the fact that the products can be applied in potentially explosive environments.

In ATEX-Directive 94/9/EC certificate, terminal block belongs to components category, meaning that they must be applied in approved connection boxes for type of protection "e", increased safety, having no need to be printed with CE.

Ex Marking



II2 GD Ex e IIC Gb

II2 Equipment group (II) and category (2)

GD Type of explosive atmosphere

G-Gas vapor or mist

D-Dust

Ex Ex-Explosion protection

e Increased safety

IIC Electrical equipment group/a typical gas is hydrogen

Gb Equipment protection level

0344 Notified body identification number

KEMA Notified body

04ATEX2265 U Certification number

ATEX Conformity with 94/9/EC

U Component

400V (Example) Nominal voltage

4mm² (Example) Nominal cross-section

Instruction for safe installation and assembling

The Raad Ex-terminal blocks are mountable on EN 50022, EN 50035, IEC60715, G32, TH35-7.5 and TH35-15 mounting rails.

When using Ex terminal blocks and accessories, the attention should be drawn towards clearances and creepage that have to be met.

When cross-connections or bridges are used, a partition plate is necessary between connections as well as at the beginning and end of each connection.

On the other hand, equipotential zones that were made due to applying cross-connections must be separated by means of partition plates.

Intended area of use and operation conditions

The ATEX Directive 94/9/EC ANNEX I defines levels of protection for various categories of equipment as follows:

Level of Protection	Category		Performance of Protection	Conditions of Operation
	Group I	Group II		
Very High	M1		Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains energized and functioning when explosive atmosphere present
Very High		1	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains energized and functioning in Zones 0,1,2 (G) and /or 20,21,22 (D)
High	M2		Suitable for normal operation and severe operating conditions	Equipment de-energized when explosive atmosphere present
High		2	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains energized and functioning in Zones 1,2 (G) and /or 21,22 (D)
Normal		3	Suitable for normal operation	Equipment remains energized and functioning in Zones 2(G) and/or 22(D)

Depending on the maximum surface temperature of the equipment, the electrical equipment of group II is limited in temperature classes T1 up to T6.



Classification of maximum surface temperatures for group II electrical apparatus.

Temperature Class	Maximum Surface Temperature(°C)
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

Electrical equipment shall normally be designed for use in the operating temperature range between -40°C and +80°C. If the real ambient temperature is higher, the permitted operating current must be reduced accordingly.

Raad terminal blocks for the type of protection-increased safety “e” are generally chased in T6. When using RAAD terminal blocks in electrical apparatus of temperature classes T1 up to T5 the highest temperature of the insulating parts shall not exceed 85°C.

Characteristics of tools which may be used with the equipment

All Raad Ex-screw terminal blocks should be used with a proper universal Screw Driver or allen wrench. No special tool is required.

Standards and Regulations

All Raad Products are manufactured in accordance with the following latest edition of standards as minimum:

IEC/EN 60947-7-1

Low-voltage switchgear and controlgear
Part 7: Ancillary equipment
Section 1: Terminal blocks for copper conductors

IEC/EN 60947-7-2

Low-voltage switchgear and controlgear
Part 7: Ancillary equipment
Section 2: Protective conductor terminal blocks for copper conductors

IEC/EN 60947-7-3

Low-voltage switchgear and controlgear
Part 7: Ancillary equipment
Section 3: Safety requirements for fuse terminal blocks

IEC/EN 60947-1

Low-voltage switchgear and controlgear
Part 1: General rules

IEC/EN 60998-2-1

Connecting devices for low voltage circuits for household and similar purposes
Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

IEC/EN 60998-1

Connecting devices for low voltage circuits for household and similar purposes
Part 1: General requirements

IEC/EN 60664-1

Insulation coordination for equipment within low voltage systems
Part 1: Principles, requirements and tests

IEC/EN 60715

Dimensions of low-voltage switchgear and controlgear. Standardized mounting on rails for mechanical support of electrical devices in switchgear and controlgear installations

IEC/EN 60127-1

Miniature fuses
Part 1: Definitions of miniature fuses and general requirements for miniature fuse-links

IEC/EN 60127-2

Miniature fuses
Part 2: Cartridge fuse-links

IEC/EN 60695-11-5

Fire hazard testing
Part 11-5: Test Flames-Needle-Flame test method

IEC/EN 60068-2-6

Environmental testing
Part 2-6: Tests: Vibration (sinusoidal)

IEC/EN 60068-2-27

Environmental testing
Part 2-27: Tests: Shock

IEC/EN 60529

Classification of degrees of protection provided by enclosures (IP code)

IEC/EN 60112

Methods for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions

IEC/EN 60243-1

Methods of test for electric strength of solid insulating materials
Part 1: Tests at power frequencies

IEC/EN 60093

Methods of testing of electrical insulating materials specific contact resistance and specific surface resistance of solid, electrically insulating materials

IEC/EN 60216-1

Electrical insulating materials
Properties of thermal endurance
Part 1: Ageing procedures and evaluation of test results

IEC/EN 60695-2-10

Fire hazard testing
Part 2-10: Glowing/hot-wire based test methods
Glow-wire apparatus and common test procedure

IEC/EN 60695-2-11

Fire hazard testing

Part 2-11: Glowing/hot-wire based test methods

Glow-wire flammability test method

IEC/EN 60079-0

Electrical apparatus for explosive gas atmospheres

Part 0: General requirements

IEC/EN 60079-7

Electrical apparatus for explosive gas atmospheres

Part 7: Increased safety 'e'

UL 94

Test for flammability of plastic materials for parts in devices and appliances

UL 1059

Standard for terminal blocks

CSA CC 22.2 No.158

Terminal blocks

EN 50085-1

Cable trunking systems and cable ducting systems for electrical installations

part 1: general requirements

EN 50085-2-3

Cable trunking systems and cable ducting systems for electrical installations

part 2-3: particular requirements for slotted cable trunking systems intended for installations in cabinets.

IEC 61084-1

Cable trunking and ducting systems for electrical installations

part1: general requirements

IEC60884-1

plugs and socket-outlets for household and similar purposes

part1: General requirements

IEC60947-5-1

Low voltage switchgear and controlgear

part 5-1: Control circuit devices and switching elements-Electromechanical control circuit devices

IEC60947-3

Low-voltage switchgear and controlgear

Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units

IEC60269-1

Low-voltage fuses

Part 1: General requirements

Terminal block tests

IEC 60947-7-1 is the main standard which meets all types of Raad terminal blocks. All Raad products are designed, manufactured and tested in accordance with the standard, which along with IEC 60947-1 determines the tests to be conducted on terminal blocks, each as a type test. Tests details are specified in the standards. Below is an abstract of the foregoing tests.

Attachment of the terminal block to its mounting rail

To assure the stability of the terminal block to its mounting rail, with standard shape and dimension values, a relevant test is conducted by inserting a 150 mm long steel pin with a diameter specified in table 3 of IEC 60947-7-1. It is connected to each clamping unit and a tightening torque must be applied, as given in table 4 of IEC 60947-1. Force must be applied to the pin with regular intensity and without tears; the corresponding value must be taken from table 3 of IEC 60947-7-1. The distance between the application point of the force and the centre of clamping unit must be equal to 100 mm. During the test, no terminal block must disengage from its mounting rail or suffer any damage.

Rated cross-section of terminal block		Force N	Diameter of pin mm
mm²	AWG/kcmil		
0.2	24	1	1.0
0.34	22		
0.5	20		
0.75	18		
1.0	-		
1.5	16		
2.5	14		
4	12		
6	10		
10	8		
16	6	5	2.8
25	4		
35	2		
50	0		
70	00		
95	000	10	5.7
-	0000		
120	250kcmil		
150	300kcmil		
185	350kcmil		
240	500kcmil		
300	600kcmil	20	20.5

Mechanical strength of terminals

To handle this test on screw-clamp terminal blocks, the rigid conductors must be used, which have the rated cross-section stated by the manufacture. The conductors must be connected and disconnected five times depending

on the screw clamping, as determined in table 4 of IEC 60947-1. Where a screw is loosened, a new conductor must be applied. During the test, clamping units shall not work loose and there shall be no damage that will impair the further use of the screwed connections.

IEC 60947-1 Tightening torques for the verification of the mechanical strength of screw-type terminals (Table4)

Diameter of thread mm		Tightening torque N.m		
Metric standard values	Range of diameter	I	II	III
1.6	≥1.6	0.05	0.1	0.1
2.0	>1.6 up to and including 2.0	0.1	0.2	0.2
2.5	>2.0 up to and including 2.8	0.2	0.4	0.4
3.0	>2.8 up to and including 3.0	0.25	0.5	0.5
-	>3.0 up to and including 3.2	0.3	0.6	0.6
3.5	>3.2 up to and including 3.6	0.4	0.8	0.8
4.0	>3.6 up to and including 4.1	0.7	1.2	1.2
4.5	>4.1 up to and including 4.7	0.8	1.8	1.8
5	>4.7 up to and including 5.3	0.8	2.0	2.0
6	>5.3 up to and including 6.0	1.2	2.5	3.0
8	>6.0 up to and including 8.0	2.5	3.5	6.0
10	>8.0 up to and including 10.0	-	4.0	10.0
12	>10 up to and including 12	-	-	14.0
14	>12 up to and including 15	-	-	19.0
16	>15 up to and including 20	-	-	25.0
20	>20 up to and including 24	-	-	36.0
24	>24	-	-	50.0

Column I Applies to screws without heads which, when tightened, do not protrude from the hole, and to other screws which cannot be tightened by means of a screwdriver with a blade wider than the root diameter of the screw.

Column II Applies to nuts and screws which are tightened by means of a screwdriver.

Column III Applies to nuts and screws which can be tightened by means other than a screwdriver.

Damage and accidental loosening of conductors-flexion test

Specifically, this test is applied on terminal blocks suited for the connection of unprepared round copper conductors. It is a must to test both rigid and flexible conductors with min. and max. cross-sections; optionally, connections of multiple conductors to a single clamping unit. A particular test apparatus is considered to aid the test performance. During the test, neither must the conductor slip out of the clamping unit, nor does breakage occur near the clamping unit. Soon after the flexion test, a pull-out test must occur without restoring the initial tightening torque.

Pull-out test

After the flexion test was conducted, a pull-out is carried-out by force, the value of which is presented in table 5 of IEC 60947-1 to the conductor attached to the clamping unit; this force must be applied regularly and without tears, for 1 minute; for screw-clamp terminal blocks, the tightening screws must not be newly tightened. During the test, neither must the conductor slip out of the clamping unit,

nor does breakage occur near the clamping unit.

Rated cross-section

It is the value of max connectable conductor cross-section. The rated cross-section shall be selected from the standard cross-sections presented in table 1, IEC 60947-1. Where a ferrule is applied on a flexible conductor, then a terminal block of one step higher rated cross-section must be used, for example, a 2.5mm² flexible conductor covered with the relating ferrule must be inserted to a one step higher cross-section, i.e. terminal block with rated cross-section 4mm².

IEC 60947-1

Test values for flexion and pull-out tests for round copper conductors (Table5)

Conductor cross-section		Diameter of bushing hole ^{a)}	Height H ^a	Mass	Pulling force
mm ²	AWG/kcmil	mm	mm	kg	N
0.2	24	6.5	260	0.2	10
0.34	22	6.5	260	0.2	15
0.5	20	6.5	260	0.3	20
0.75	18	6.5	260	0.4	30
1.0	-	6.5	260	0.4	35
1.5	16	6.5	260	0.4	40
2.5	14	9.5	280	0.7	50
4.0	12	9.5	280	0.9	60
6.0	10	9.5	280	1.4	80
10	8	9.5	280	2.0	90
16	6	13.0	300	2.9	100
25	4	13.0	300	4.5	135
-	3	14.5	320	5.9	156
35	2	14.5	320	6.8	190
-	1	15.9	343	8.6	236
50	0	15.9	343	9.5	236
70	00	19.1	368	10.4	285
95	000	19.1	368	14	351
-	0000	19.1	368	14	427
120	250kcmil	22.2	406	14	427
150	300kcmil	22.2	406	15	427
185	350kcmil	25.4	432	16.8	503
-	400kcmil	25.4	432	16.8	503
240	500kcmil	28.6	464	20	578
300	600kcmil	28.6	464	22.7	578

a) Tolerances: for height H ± 15 mm, for diameter of the bushing hole ± 2 mm.

b) If the bushing hole diameter is not large enough to accommodate the conductor without binding, a bushing having the next larger hole size may be used.

IEC 60947-7-1

Standard cross-sections of round copper conductors and approximate relationship between mm² and AWG/kcmil sizes (Table1)

Rated cross-section mm ²	AWG/kcmil size	Equivalent metric area mm ²
0.2	24	0.205
0.34	22	0.324
0.5	20	0.519
0.75	18	0.82
1	-	-
1.5	16	1.3
2.5	14	2.1
4	12	3.3
6	10	5.3
10	8	8.4
16	6	13.3
25	4	21.2
35	2	33.6
-	1	42.4
50	0	53.5
70	00	67.4
95	000	85.0
-	0000	107.2
120	250kcmil	127
150	300kcmil	152
185	350kcmil	177
-	400kcmil	203
240	500kcmil	253
300	600kcmil	304

NOTE: The dash, when it appears, counts as a size when considering connecting capacity (see 7.1.7.2).

Rated connection capacity

It is the range of cross-sections and the number of connectable conductors based on which the terminal blocks are designed. The IEC 60947-7-1 determines the relation between the rated cross-section and rating connecting capacity of terminal blocks. Practically, terminal blocks up to 35mm², must be possible to connect a conductor of cross-section equal to the nominal cross-section and lower up to two cross-sections.

Insulation coordination for equipment within low voltage systems

IEC 60664-1 deals with insulation coordination for equipment within low voltage systems. It specifies the requirements for clearances, creepage distances and solid insulation for equipment based upon the performance criteria. Terminal blocks standard, IEC 60947-7-1, has the rules for coordination of insulation in accordance with IEC 60664-1.

Clearances

Degrees of pollution in the micro-environment

• Pollution degree 1

No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.

• Pollution degree 2

Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be expected.

• Pollution degree 3

Conductive pollution occurs or dry non-conductive pollution occurs which becomes conductive due to condensation which is to be expected.

• Pollution degree 4

The pollution generates persistent conductivity caused by conductive dust, rain or snow.

Overvoltage categories

• Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriately low level.

Examples for such devices are protected electronic circuits.

• Equipment of overvoltage category II is energy-consuming equipment to be supplied from the fixed installation. Examples of such equipment are appliances, portable tools and other household and similar loads.

• Equipment of over voltage category III is equipment in fixed installations and for cases where the reliability and the

availability of the equipment are subject to special requirements. Examples of such equipment are switches in fixed installation and equipment for industrial use with permanent connection to the fixed installation.

• Equipment of overvoltage category IV is for use at the origin of the installation. Examples of such equipment are electricity meters and primary over-current protection equipment

EN 60664-1 Rated impulse voltage for equipment energized directly from the low-voltage mains (Table1)

Nominal voltage of the supply system based on IEC 60038 ¹⁾ V		Voltage line to neutral derived from normal voltages a.c. or d.c. up to and including V	Rated impulse voltage ¹⁾ V			
Three phase	Single phase		Over voltage category			
			I	II	III	IV
		50	230	500	800	1500
		100	500	800	1500	2500
	120-240	150	800	1500	2500	4000
230/400 277/480		300	1500	2500	4000	6000
400/690		600	2500	4000	6000	8000
1000		1000	4000	6000	8000	12000

1) Equipment with these rated impulse voltages can be used in installation in accordance with IEC60364-4-443.

2) The / mark indicates a four-wire three-phase distribution system. The lower value is the voltage line -to- neutral, while the higher value is the voltage line-to-line. Where only one value is indicated, it refers to three-wire, three-phase systems and specifies value line-to-line.

IEC 60947-1 Minimum clearance in air (Table13)

Rated impulse withstand voltage Uimp kV	Minimum clearances mm							
	Case A Inhomogeneous field conditions (see 2.5.63)				Case B Homogeneous field ideal conditions (see 2.5.62)			
	Pollution degree				Pollution degree			
	1	2	3	4	1	2	3	4
0.33	0.01				0.01			
0.5	0.04	0.2			0.04	0.2		
0.8	0.1		0.8		0.1		0.8	
1.5	0.5	0.5		1.6	0.3	0.3		1.6
2.5	1.5	1.5	1.5		0.6	0.6		
4.0	3	3	3	3	1.2	1.2	1.2	
6.0	5.5	5.5	5.5	5.5	2	2	2	2
8.0	8	8	8	8	3	3	3	3
12	14	14	14	14	4.5	4.5	4.5	4.5

NOTE: The values of minimum clearance in air are based on 1,2/50 ms impulse voltage, for barometric pressure of 80 kPa, equivalent to normal atmospheric pressure at 2 000 m above sea level.

Creepage distances

The creepage distance is based on the rated voltage which is derived from the working voltage or nominal voltage of the supply system. The minimum creepage distances are allocated to the rated voltage according to the pollution degree and material group in table 15, IEC 60947-1.

In this catalog the products must be measured in compliance with IEC 60664-1 for overvoltage category III, pollution degree 3 and material group I, otherwise the product information would include additional details.

Material groups

According to the range of values of the comparative tracking index (CTI), material groups are classified as follows:

- Material Group I $600 \leq \text{CTI}$
- Material Group II $400 \leq \text{CTI} < 600$
- Material Group IIIa $175 \leq \text{CTI} < 400$
- Material Group IIIb $100 \leq \text{CTI} < 175$

The CTI values refer to values obtained in accordance with IEC 60112, method A, for the insulating material used.

IEC 60947-1
Minimum creepage distances (Table 15)

Rated insulation voltage of equipment or working voltage a.c. r.m.s or d.c. ⁴⁾ V	Creepage distances for equipment subject to long term stress mm														
	Pollution degree			Pollution degree				Pollution degree				Pollution degree			
	1 ⁵⁾	2 ⁵⁾	1	2				3				4			
	Material group			Material group				Material group				Material group			
	1)	2)	1)	I	II	IIIa	IIIb	I	II	IIIa	IIIb	I	II	IIIa	IIIb
10	0.025	0.04	0.08	0.4	0.4	0.4		1	1	1		1.6	1.6	1.6	
12.5	0.025	0.04	0.09	0.42	0.42	0.42		1.05	1.05	1.05		1.6	1.6	1.6	
16	0.025	0.04	0.1	0.45	0.45	0.45		1.1	1.1	1.1		1.6	1.6	1.6	
20	0.025	0.04	0.11	0.48	0.48	0.48		1.2	1.2	1.2		1.6	1.6	1.6	
25	0.025	0.04	0.125	0.5	0.5	0.5		1.25	1.25	1.25		1.7	1.7	1.7	
32	0.025	0.04	0.14	0.53	0.53	0.53		1.3	1.3	1.3		1.8	1.8	1.8	
40	0.025	0.04	0.16	0.56	0.8	1.1		1.4	1.6	1.8		1.9	2.4	3	
50	0.025	0.04	0.18	0.6	0.85	1.2		1.5	1.7	1.9		2	2.5	3.2	
63	0.04	0.063	0.2	0.63	0.9	1.25		1.6	1.8	2		2.1	2.6	3.4	
80	0.063	0.1	0.22	0.67	0.95	1.3		1.7	1.9	2.1		2.2	2.8	3.6	
100	0.1	0.16	0.25	0.71	1	1.4		1.8	2	2.2		2.4	3	3.8	
125	0.16	0.25	0.28	0.75	1.05	1.5		1.9	2.1	2.4		2.5	3.2	4	
160	0.25	0.4	0.32	0.8	1.1	1.6		2	2.2	2.5		3.2	4	5	
200	0.4	0.63	0.42	1	1.4	2		2.5	2.8	3.2		4	5	6.3	
250	0.56	1	0.56	1.25	1.8	2.5		3.2	3.6	4		5	6.3	8	
320	0.75	1.6	0.75	1.6	2.2	3.2		4	4.5	5		6.3	8	10	
400	1	2	1	2	2.8	4		5	5.6	6.3		8	10	12.5	
500	1.3	2.5	1.3	2.5	3.6	5		6.3	7.1	8		10	12.5	16	
630	1.8	3.2	1.8	3.2	4.5	6.3		8	9	10		12.5	16	20	
800	2.4	4	2.4	4	5.6	8		10	11	12.5		16	20	25	3)
1000	3.2	5	3.2	5	7.1	10		12.5	14	16		20	25	32	
1250			4.2	6.3	9	12.5		16	18	20		25	32	40	
1600			5.6	8	11	16		20	22	25		32	40	50	
2000			7.5	10	14	20		25	28	32		40	50	63	
2500			10	12.5	18	25		32	36	40		50	63	80	
3200			12.5	16	22	32		40	45	50	3)	63	80	100	
4000			16	20	28	40		50	56	63		80	100	125	
5000			20	25	36	50		63	71	80		100	125	160	
6300			25	32	45	63		80	90	100		125	160	200	
8000			32	40	56	80		100	110	125		160	200	250	
10000			40	50	71	100		125	140	160		200	250	320	

1) Material groups I, II, IIIa, IIIb.

2) Material groups I, II, IIIa.

3) Values of creepage distances in this area have not been established. Material groups IIIb is in general not recommended for application in pollution degree 3 above 630 V and in pollution degree 4.

4) As an exception, for rated insulation voltages 127 V, 208 V, 415/440 V, 660/690 V and 830 V, creepage distances corresponding to the lower values 125 V, 200 V, 400 V, 630 V and 800 V respectively may be used.

5) The values given in these two columns apply to creepage distances of printing

circuit materials.

6) The values of creepage distances stated for 250 V can be used for 230 V ($\pm 10\%$) normal voltage.

NOTE 1 It is appreciated that tracking or erosion will not occur on insulation subjected to working voltages of 32 V and below. However, the possibility of electrolytic corrosion has to be considered and for this reason minimum creepage distances have been specified.

NOTE 2 Voltage values are selected in accordance with the R₁₀ series.

Dielectric test

The test is conducted on 5 adjacent terminal blocks, mounted on a metallic mounting rail and connected with rated cross-section conductors.

Test voltage must have a sinusoidal waveform with a frequency between 45 and 62 Hz.

The values applied, for 5 seconds, are those specified in the table 12A, IEC 60947-1. Irrespective of glow discharges without drop of voltage, no disruptive discharges shall occur during the test.

IEC 60947-1 Dielectric test voltage corresponding to the rated insulation voltage (Table 12A)		
Rated insulation voltage U_i V	AC test voltage (r.m.s.) V	DC test voltage ^{2), 3)} V
$U_i \leq 60$	1000	1415
$60 < U_i \leq 300$	1500	2120
$300 < U_i \leq 690$	1890	2670
$690 < U_i \leq 800$	2000	2830
$800 < U_i \leq 1000$	2200	3110
$1000 < U_i \leq 1500^{1)}$	-	3820

1) For d.c. only.

2) Test voltages based on 4.1.2.3.1, third paragraph of IEC 60664-1.

3) A direct current test voltage may be used only if an alternating test voltage cannot be applied. See also 3) b) ii) of 8.3.3.4.1.

Short-time withstand current

The standard IEC 947-7-1 obliges terminal blocks to withstand a current equal to 120A per each square mm of rated cross-section for 1 second.

Voltage drop

Voltage drop at the terminal indicates an index of contact resistance against the follow of current. The voltage drop test is conducted before and after mechanical strength, short-time withstand current and temperature-rise tests. IEC 60947-7-1 states that the voltage drop, measured on a new terminal block, must be lower than 3.2 mV and after the tests lower than 150 % of the value measured before the tests.

Temperature-rise test

The current in a terminal block causes overheating due to continuous operation. The overheating level shall not overcome a specified value, thus a temperature-rise test is applied to verify this performance requirement. The test is conducted by means of temperature-rise test on 5 neighboring terminal blocks connected at a test current as specified in table 4, IEC 60947-7-1. The temperature-rise of any part of the centrally located terminal block shall not exceed 45 K.

IEC 60947-7-1

Values of test current for temperature-rise test, ageing test and voltage drop test for metric wire sizes (Table 4)

Rated cross-section mm ²	Test current A	Rated cross-section mm ²	Test current A
0.2	4	25	101
0.5	6	35	125
0.75	9	50	150
1	13.5	70	192
1.5	17.5	95	232
2.5	24	120	269
4	32	150	309
6	41	185	353
10	57	240	415
16	76	300	520

Verification of thermal characteristics

The Thermal characteristics are checked by the needle flame test.

The test is carried out according to IEC60695-11-5 successively in the area of one clamping unit of three terminal blocks.

The test flame is applied to the surface of test specimen and removing after the specified time.

With no any glowing of the test specimen or extinguishing the sample within 30s, the test is passed.

Vibration and shock resistant

Shock Test

The purpose of this test is to reveal mechanical weakness and/or degradation in specified performances or accumulated damage or degradation caused by shocks.

The following test is done in accordance with required by the specifications: shock test to BS EN60068-2-27

Shock pulse: Half sine

Acceleration: 40g

Pulse duration: 6ms

Test directions: In all three major orthogonal axes

Number of shocks: 1000 in each axis

Total number: 3000

Vibration Test

The purpose of this test is to determine the ability of components, equipments and other articles to withstand any mechanical weakness and/or degradation caused by vibration.

The following test is done in accordance with required by the specifications: swept sine vibration to BS EN 60068-2-6

Frequency range: 55 Hz to 2000 Hz

Test levels: 55 Hz to 58.1 Hz: 1.5mm displacement peak to peak

58.1 Hz to 2000 Hz: 100 m/s² (10g)

Vibration directions: In all three major orthogonal axes

Duration: 10 swept cycles in each axis

Sweep rate: 1 octave/minute

Wiring Duct Tests

The following tests as type tests should be carried out for testing of wiring ducts in accordance with the main standards EN 50085-1 and EN 50085-2-3:

● Check marking

Each system component shall be marked with:

- The manufacturer's or responsible vendor's name or trade mark or identification mark,
- A product identification mark, which may be, for example a catalog number, a symbol or the like.

● Cable support test

Each test is made on one sample of slotted trunking length having a length of about 250 mm.

The sample is securely fixed to a rigid support. Then the sample is subjected to an evenly distributed load of 0.8 g/mm² for metre length of the declared usable area for cables.

The load consists of copper cables, half load cables of 25 mm² nominal cross section and other half cables of 2.5 mm² nominal cross section. This load is preserved for 2 h in climatic chamber to 60 °C.

After about 2 h, with the load still applied, the distortion shall not exceed 10% of the height with a maximum of 10 mm.

The Same result shall be obtained for the width.

● Impact test for storage and transport

The test is carried out on the samples of trunking lengths each about 250 mm long.

Before the test, the samples are aged at the temperature of 70 °C for 168 h continuously.

The test apparatus consists basically of a hammer which falls freely from rest, through a vertical height on to an intermediate part placed on the sample held in a horizontal plane.

The mass of the hammer is 0.5 kg and the fall height is 100 mm.

The samples are placed in a refrigerator at the temperature of -45° C for 2 h.

Within 10 s after the removal of the sample from the refrigerator the hammer is allowed to fall so that an impact is applied to the centre of the cover or the centre of the bottom of the base .

After the test the samples shall show no signs of disintegration nor shall there be any cracks, that are likely to impair safety.

● Insulation resistance test

Before the test, the sample shall be placed in the humidity cabinet with a relative humidity between 91% and 95% at a temperature maintained between 25 °C and 30 °C. The samples are kept in the cabinet for 120 h .

Immediately after conditioning, two conductive foils used as electrodes are applied, one to the outer surface and one to the inner surface of the sample .

The insulation resistance is measured by applying a d.c. voltage of 500 V between the electrodes.

The measurement is made 60 s after the application of the voltage.

The insulation resistance shall not be less than 100 MΩ.

● Dielectric strength test

Immediately after the insulation resistance test, a voltage of $(2 U_n + 1000)$ V, where U_n is the rated voltage of substantially sine-wave form and having a nominal frequency of 50 Hz, is then applied between electrodes. Initially not more than half the voltage is applied and then it is raised to the test voltage as rapidly as possible without transient over voltage.

The voltage is maintained for about 5 s.

No flashover or breakdown shall occur during the test.

● Resistance to heat

The part under the test shall be placed on a 3 mm thick steel plate in direct contact with it so as to be supported to withstand the test force .

When it is not possible to carry out the test on the sample, the test shall be carried out on a piece of the same material with at least 2 mm thick .

The surface of the part to be tested is placed in the horizontal position and a steel ball of 5 mm diameter is pressed against the surface with a force of 20 N .

The test is carried out in a heating cabinet at the temperature of 70 °C.

After 1 h, the ball is removed from the sample which is then cooled down within 10 s to approximately room temperature by immersion in cold water.

The diameter of the impression caused by the ball is measured and shall not exceed 2 mm.

● **Resistance to flame propagation (needle flame test)**

This test is carried out in accordance with standard EN 60695-11-5 at the following conditions.

The test is made on two sets of samples whose length is about 675 mm.

The sample is placed vertically with its lower extremity about 100 mm above the tissue covered pinewood board, in a rectangular metal enclosure with an open face.

It shall be securely fixed to a rigid support through the fixing holes, in the base of the trunking.

The burner (needle flame) is positioned on the sample in such a way that the axis forms an angle of about 45° with the horizontal one, and the flame is applied centrally to the boundary of an opening of the wall approximately 200 mm above the wrapping tissue covered pinewood board, the end of the burner tube being distanced 5 mm from the sample.

The test is repeated but with the burner applied to one extremity of the cover.

The sample is subjected to the exposure of the flame for 60 s each time.

The sample is regarded as having passed the test if:

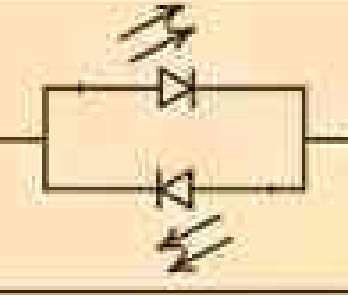
- it does not ignite; or if
- in the case of ignition, the flames or glowing of the sample extinguish within 30 s after removal of the test flame and there is no ignition of the wrapping tissue or scorching of the pinewood board.

● **Fire hazard**

- Compliance is checked by glow wire test in accordance with the standards EN 50085-1 and EN 60695-2-11.

Symbols

In circuit diagrams, the following symbols have been used as minimum:

Clamp	
Test Socket connection	
Resistor	
Diode	
Bipolar LED	
Fuse	
Neon Lamp	
Ground	
Moveable Link	
Sliding Connection	
Disconnectable	
Cross Connection/ Bridge Comb	

The applicability of Test Sockets are shown in the schematic diagrams of only test/disconnect terminal blocks, for its usage on other terminal blocks, refer to related descriptions..

INDEX

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
A				CC3-25 RTP25	6020502412	20	-
ARS/M6	6090202001	10	100	CC3-35 RTP35	6020502432	20	-
B				CC3-4 RTP4	6020502102	50	2000
BC 10-2.5	6020504009	10	500	CC3-50 RTP50	6020502452	10	-
BC 10-4	6020504109	10	500	CC3-6 RTP6	6020502202	50	2000
BC 2-2.5	6020504001	50	2000	CC3-70 RTP70	6020502472	10	-
BC 2-4	6020504101	50	2000	CC3-95 RTP95	6020502492	10	-
BC 2-D4	6020504201	50	2000	CC3-D4	6020503002	10	500
BC 3-2.5	6020504002	50	2000	CC4-4 RTP4	6020502103	50	2000
BC 3-4	6020504102	50	2000	D			
BC 3-D4	6020504202	50	2000	DPB	6070303001	10	120
BS 2-4	6020505101	100	-	DPB-C	6070303101	10	120
BS 2-6	6020505201	50	-	DPBL Red220	6070303003	10	120
BS 3-4	6020505102	100	-	DPBL110	6070303007	10	120
BS 2-2.5	6020505001	100	-	DPBL220	6070303002	10	120
BS 3-2.5	6020505002	100	-	DPBL24	6070303009	10	120
BS 4-2.5	6020505003	100	-	DPBL48	6070303008	10	120
BS 10-2.5	6020505009	10	500	DPBL-C 220	6070303102	10	120
BS 10-4	6020505109	10	-	DPBL-C Red220	6070303103	10	120
C				DRTP4-NL	6010723005	50	800
CB/1	6020802001	20	800	DSO Gray	6080101001	5	50
CC10-10 RTP10	6020502309	10	500	DSO Green	6080101002	5	50
CC10-16 RTP16	6020502409	10	250	DSO LD Gray	6080201001	5	50
CC10-2.5 RTP2.5	6020502009	10	500	DSO LD Green	6080201002	5	50
CC10-25 RTP25	6020502419	10	250	EB/1	6020101001	50	1000
CC10-35 RTP35	6020502439	10	250	EB/2	6020101002	50	600
CC10-4 RTP4	6020502109	10	500	EB/3 Black	6020101005	50	1000
CC10-6 RTP6	6020502209	10	500	EB/3 Gray	6020101003	50	1000
CC10-D4	6020503009	10	500	ELB\1 Black	6020102004	50	1200
CC2-10 RTP10	6020502301	50	2000	ELB\1 Gray	6020102003	50	1200
CC2-150 RTP150	6020502511	10	-	EP1-DRTP4	6020203002	20	500
CC2-16 RTP16	6020502401	20	800	EP2-DRTP4	6020203003	20	400
CC2-2.5 RTP2.5	6020502001	50	2000	EP3-DRTP4	6020203004	20	500
CC2-25 RTP25	6020502411	20	-	EP-DRTP2.5-4 Blue	6020203005	20	500
CC2-35 RTP35	6020502431	20	-	EP-DRTP2.5-4 Gray	6020203001	20	500
CC2-4 RTP4	6020502101	50	2000	EP-RETN 2.5-10	6020206001	50	3000
CC2-50 RTP50	6020502451	10	-	EP-RSTN6	6020201006	50	500
CC2-6 RTP6	6020502201	50	2000	EP-RSTP6	6020201004	50	900
CC2-70 RTP70	6020502471	10	-	EP-RSTT6	6020201003	50	600
CC2-95 RTP95	6020502491	10	-	EP-RTP2.5 Blue	6020202001	100	2000
CC2-D4	6020503001	50	2000	EP-RTP2.5 Gray	6020202005	100	2000
CC3-10 RTP10	6020502302	50	2000	EP-RTP2.5 Red	6020202006	100	2000
CC3-150 RTP150	6020502512	50	2000	EP-RTP2.5 Yellow	6020202004	100	2000
CC3-16 RTP16	6020502402	20	800	EP-RTP2.5H-10 Black	6020202109	50	3000
CC3-2.5 RTP2.5	6020502002	50	2000	EP-RTP2.5H-10 Blue	6020202101	50	3000

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
EP-RTP2.5H-10 Brown	6020202107	50	3000	FBL-O-C White 48	6070302114	15	180
EP-RTP2.5H-10 Gray	6020202105	50	3000	FBL-O-C White110	6070302113	15	180
EP-RTP2.5H-10 Green	6020202102	50	3000	FBL-O-C White220	6070302112	15	180
EP-RTP2.5H-10 Red	6020202106	50	3000	FBL-O-C yellow110	6070302125	15	180
EP-RTP2.5H-10 Yellow	6020202104	50	3000	FBL-O-C yellow220	6070302124	15	180
EP-RTS2.5	6020205001	50	3000	FBL-O-C yellow24	6070302127	15	180
EP-RTS4	6020205101	50	3000	FBL-O-C yellow48	6070302126	15	180
EP-RTS6	6020205201	50	3000	FB-O Black	6070302006	15	180
ESTR	6070301002	10	120	FB-O Blue	6070302004	15	180
F				FB-O Green	6070302001	15	180
FB-C	6070301001	15	180	FB-O White	6070302009	15	180
FB-C-C	6070301101	15	180	FB-O Yellow	6070302005	15	180
FBL-C 110	6070301004	15	180	FB-O-C Black	6070302106	15	180
FBL-C 220	6070301003	15	180	FB-O-C Blue	6070302104	15	180
FBL-C 24	6070301006	15	180	FB-O-C Green	6070302101	15	180
FBL-C 48	6070301005	15	180	FB-O-C White	6070302102	15	180
FBL-C-C 110	6070301104	15	180	FB-O-C YellO-Cw	6070302105	15	180
FBL-C-C 220	6070301103	15	180	G			
FBL-C-C 24	6070301106	15	180	GP Blue	6020305001	20	600
FBL-C-C 48	6070301105	15	180	GP Gray	6020305005	20	600
FBL-O Blue110	6070302021	15	180	H			
FBL-O Blue220	6070302020	15	180	HWD 100*60	6110220020	6	12
FBL-O Blue24	6070302023	15	180	HWD 20*12	6110204003	63	126
FBL-O Blue48	6070302022	15	180	HWD 20*20	6110204004	42	84
FBL-O Green 110	6070302003	15	180	HWD 25*20	6110205004	36	72
FBL-O Green 220	6070302002	15	180	HWD 40*40	6110208008	20	40
FBL-O Green 24	6070302008	15	180	HWD 60*40	6110212008	16	32
FBL-O Green 48	6070302007	15	180	HWD 60*60	6110212012	12	24
FBL-O White 24	6070302019	15	180	I			
FBL-O White 48	6070302018	15	180	IN Blue 22-110	6070103001	25	250
FBL-O White110	6070302017	15	180	IN Blue 22-220	6070102401	25	250
FBL-O White220	6070302016	15	180	IN Blue 22-220-DC	6070102421	25	250
FBL-O Yellow110	6070302025	15	180	IN Blue 22-24	6070105001	25	250
FBL-O Yellow220	6070302024	15	180	IN Green 22-110	6070103002	25	250
FBL-O Yellow24	6070302027	15	180	IN Green 22-220	6070102402	25	250
FBL-O Yellow48	6070302026	15	180	IN Green 22-220-DC	6070102422	25	250
FBL-O-C Blue110	6070302121	15	180	IN Green 22-24	6070105002	25	250
FBL-O-C Blue220	6070302120	15	180	IN Red 22-110	6070103005	25	250
FBL-O-C Blue24	6070302123	15	180	IN Red 22-220	6070102405	25	250
FBL-O-C Blue48	6070302122	15	180	IN Red 22-220-DC	6070102425	25	250
FBL-O-C Green 110	6070302109	15	180	IN Red 22-24	6070105005	25	250
FBL-O-C Green 220	6070302108	15	180	IN White 22-110	6070103003	25	250
FBL-O-C Green 24	6070302111	15	180	IN White 22-220	6070102403	25	250
FBL-O-C Green 48	6070302110	15	180	IN White 22-220-DC	6070102423	25	250
FBL-O-C White 24	6070302115	15	180	IN White 22-24	6070105003	25	250

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
IN Yellow 22-110	6070103004	25	250	NS10 L2	6030600073	10	-
IN Yellow 22-220	6070102404	25	250	NS10 L3	6030600074	10	-
IN Yellow 22-220-DC	6070102424	25	250	NS10 R1	6030600070	10	-
IN Yellow 22-24	6070105004	25	250	NS10 R2	6030600071	10	-
J				NS10 S	6030600065	10	-
JEB10-6	6020506009	10	500	NS10 U	6030600067	10	-
JEB2-6	6020506001	50	2000	NS10 G	6030600088	10	-
JEB3-6	6020506002	50	2000	NS10 RL	6030600077	10	-
L				NS10 T	6030600066	10	-
LAMP BA9S/M-G 110VAC/DC	6070205003	25	250	NS10 V	6030600068	10	-
LAMP BA9S/M-G 220VAC/DC	6070205004	25	250	NS10 W	6030600069	10	-
LAMP BA9S/M-G 24VAC/DC	6070205001	25	250	NS10 E	6030600076	10	-
LAMP BA9S/M-G 48VAC/DC	6070205002	25	250	NS10Y	6030600137	10	-
LAMP BA9S/M-R 110VAC/DC	6070206003	25	250	NS10 0.....0	6030600128	10	-
LAMP BA9S/M-R 220VAC/DC	6070206004	25	250	NS10 1.....5	6030600008	10	-
LAMP BA9S/M-R 24VAC/DC	6070206001	25	250	NS10 1.....25	6030600006	10	-
LAMP BA9S/M-R 48VAC/DC	6070206002	25	250	NS10 1...19...6	6030600140	10	-
LAMP BA9S/M-W 110VAC/DC	6070204003	25	250	NS10 1...5-A	6030600145	10	-
LAMP BA9S/M-W 220VAC/DC	6070204004	25	250	NS10 101010	6030600029	10	-
LAMP BA9S/M-W 24VAC/DC	6070204001	25	250	NS10 11.....15	6030600010	10	-
LAMP BA9S/M-W 48VAC/DC	6070204002	25	250	NS10 13.....13	6030600129	10	-
LB/1	6020102001	50	400	NS10 14.....14	6030600130	10	-
LB/2	6020102002	50	1000	NS10 15.....15	6030600131	10	-
M				NS10 16.....16	6030600132	10	-
Marking Holder	6032100001	10		NS10 16.....20	6030600011	10	-
ML2N RSTT6&RST6	6020602001	50	2500	NS10 1a.....3n	6030600049	10	-
ML3N RSTT6&RST6	6020602002	50	2500	NS10 1a.....2n	6030600046	10	-
ML4N RSTT6&RST6	6020602003	50		NS10 1a.1n.....dn	6030600059	10	-
N				NS10 1a1.1a2...2n	6030600058	10	-
NC Contact	6070402001	50	-	NS10 1S1....1S5	6030600106	10	-
NO Contact	6070401001	50	-	NS10 1S1....1S6	6030600036	10	-
NS10 White	6030600001	10	-	NS10 201.....225	6030600089	10	-
NS10 -... R	6030600098	10	-	NS10 21.....25	6030600012	10	-
NS10 111	6030600020	10	-	NS10 226.....250	6030600090	10	-
NS10 222	6030600021	10	-	NS10 26.....30	6030600013	10	-
NS10 333	6030600022	10	-	NS10 26.....50	6030600007	10	-
NS10 -..... R	6030600005	10	-	NS10 2S1....2S5	6030600107	10	-
NS10 d3.d3	6030600087	10	-	NS10 2S1....2S6	6030600037	10	-
NS10 F.F	6030600085	10	-	NS10 31.....35	6030600014	10	-
NS10 PE.PE	6030600086	10	-	NS10 36.....40	6030600015	10	-
NS10 -..... R	6030600083	10	-	NS10 3S1....3S6	6030600038	10	-
NS10 O	6030600075	10	-	NS10 3S1....3S5	6030600108	10	-
NS10 R	6030600064	10	-	NS10 41.....45	6030600016	10	-
NS10 L1	6030600072	10	-	NS10 444	6030600023	10	-

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS10 46....50	6030600017	10	-	NS10 EARTH-B	6030600032	10	-
NS10 4S1....4S6	6030600039	10	-	NS10 EN....EN	6030600104	10	-
NS10 4S1....4S5	6030600109	10	-	NS10 ERT....ERT	6030600095	10	-
NS10 51....55	6030600114	10	-	NS10 Ha.Hn	6030600044	10	-
NS10 51....75	6030600018	10	-	NS10 L....L	6030600124	10	-
NS10 555	6030600024	10	-	NS10 L...L-A	6030600155	10	-
NS10 56....60	6030600115	10	-	NS10 L1...L1-A	6030600152	10	-
NS10 5S1....5S6	6030600040	10	-	NS10 L2...L2-A	6030600153	10	-
NS10 5S1....5S5	6030600110	10	-	NS10 L3...L3-A	6030600154	10	-
NS10 6.....10	6030600009	10	-	NS10 MP.....U	6030600003	10	-
NS10 6...10-A	6030600146	10	-	NS10 MP....ER	6030600030	10	-
NS10 61....65	6030600116	10	-	NS10 MP.....+BT	6030600097	10	-
NS10 66....70	6030600117	10	-	NS10 MP1.....W	6030600078	10	-
NS10 666	6030600025	10	-	NS10 N...N-A	6030600150	10	-
NS10 6S1....6S6	6030600041	10	-	NS10 PE...PE-A	6030600151	10	-
NS10 71....75	6030600118	10	-	NS10 R.....+D	6030600081	10	-
NS10 76....80	6030600119	10	-	NS10 R.....-BT	6030600084	10	-
NS10 76...100	6030600019	10	-	NS10 R.....U	6030600034	10	-
NS10 777	6030600026	10	-	NS10 R.....F5	6030600139	10	-
NS10 7S1....7S6	6030600042	10	-	NS10 R.....N	6030600127	10	-
NS10 7S1....7S5	6030600111	10	-	NS10 R....+-C	6030600045	10	-
NS10 81....85	6030600120	10	-	NS10 R.....PE	6030600103	10	-
NS10 86....90	6030600121	10	-	NS10 R.....S	6030600113	10	-
NS10 888	6030600027	10	-	NS10 R.....S-N	6030600133	10	-
NS10 8S1....8S6	6030600043	10	-	NS10 R....+-A	6030600061	10	-
NS10 91....95	6030600122	10	-	NS10 R....+-B	6030600063	10	-
NS10 96....100	6030600123	10	-	NS10 R.S.T.....S-B	6030600080	10	-
NS10 999	6030600028	10	-	NS10 R.S.T.....S-A	6030600079	10	-
NS10 9S1....9S6	6030600052	10	-	NS10 R...U..	6030600142	10	-
NS10 a.....n	6030600048	10	-	NS10 R1.....R+	6030600091	10	-
NS10 a.....dn	6030600050	10	-	NS10 R1....T	6030600094	10	-
NS10 a.n.a.n	6030600054	10	-	NS10 RB2...N	6030600141	10	-
NS10 A11...A23	6030600051	10	-	NS10 RB2...V	6030600143	10	-
NS10 A11.A12....A33	6030600060	10	-	NS10 RSTN	6030600031	10	-
NS10 A11-A12-A13	6030600053	10	-	NS10 S.....L3	6030600135	10	-
NS10 as1.....n	6030600062	10	-	NS10 SP...SP-A	6030600156	10	-
NS10 B1.....B11	6030600047	10	-	NS10 U.....N	6030600136	10	-
NS10 B1....B1	6030600101	10	-	NS10 U.....V	6030600134	10	-
NS10 B2....B2	6030600102	10	-	NS10 U....W	6030600138	10	-
NS10 -BT....-BT	6030600096	10	-	NS10 U.V....E	6030600057	10	-
NS10 d1.d2...d1	6030600035	10	-	NS10 U...N-A	6030600144	10	-
NS10 E.....R2	6030600082	10	-	NS10 U1.....MP	6030600092	10	-
NS10 Earth	6030600002	10	-	NS10 U1....V1	6030600100	10	-
NS10 EARTH....B1	6030600055	10	-	NS10 U1...W2-A	6030600125	10	-
NS10 EARTH....B2	6030600056	10	-	NS10 U1.....W2	6030600105	10	-

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS10 U1...U1	6030600147	10	-	NS5 66.....SP2	6030200030	10	-
NS10 V.....W1	6030600004	10	-	NS5 69.....72	6030200042	10	-
NS10 V1.....N	6030600126	10	-	NS5 69.....MP	6030200047	10	-
NS10 V1...V1	6030600148	10	-	NS5 7.....7	6030200077	10	-
NS10 W1.....BAT1	6030600099	10	-	NS5 71.....80	6030200052	10	-
NS10 W1...W1	6030600149	10	-	NS5 71.....MP	6030200028	10	-
NS10 X.....W	6030600112	10	-	NS5 80.....COM	6030200031	10	-
NS10N.....L	6030600093	10	-	NS5 80.....L5D	6030200036	10	-
NS10NNN	6030600033	10	-	NS5 80.....RS1	6030200040	10	-
NS5 -..... A	6030200034	10	-	NS5 81.....90	6030200053	10	-
NS5 1.....50	6030200015	10	-	NS5 9.....9	6030200078	10	-
NS5 1.....1	6030200075	10	-	NS5 90C.....66	6030200046	10	-
NS5 1.....10	6030200008	10	-	NS5 91.....100	6030200054	10	-
NS5 1000.....130	6030200066	10	-	NS5 A.....DOWN	6030200027	10	-
NS5 1000...120 -A	6030200093	10	-	NS5 ALM.....CM	6030200048	10	-
NS5 101.....150	6030200017	10	-	NS5 ALM.....72-A	6030200023	10	-
NS5 11.....15	6030200039	10	-	NS5 ALM.....72-B	6030200024	10	-
NS5 11...20	6030200009	10	-	NS5 ALM.....72-C	6030200025	10	-
NS5 110...140 -A	6030200090	10	-	NS5 ALM....JU2	6030200006	10	-
NS5 12.....12	6030200083	10	-	NS5 CA1.....MP	6030200032	10	-
NS5 12.....C2	6030200002	10	-	NS5 DC3.....ER	6030200022	10	-
NS5 130.....RG-A	6030200063	10	-	NS5 DC6.....BT24	6030200004	10	-
NS5 130...MP -A	6030200094	10	-	NS5 DR9.....DR16	6030200049	10	-
NS5 135.....LP	6030200067	10	-	NS5 E.....EC1	6030200044	10	-
NS5 14.....14	6030200082	10	-	NS5 ECN.....72	6030200045	10	-
NS5 151.....200	6030200018	10	-	NS5 Erth	6030200088	10	-
NS5 17.....17	6030200079	10	-	NS5 F.....ER	6030200051	10	-
NS5 2.....818	6030200058	10	-	NS5 F1.....F10	6030200026	10	-
NS5 201.....250	6030200019	10	-	NS5 FR+.....LP	6030200057	10	-
NS5 21.....30	6030200010	10	-	NS5 FR+...LP -A	6030200089	10	-
NS5 22.....22	6030200080	10	-	NS5 FTO.....D	6030200043	10	-
NS5 251.....300	6030200020	10	-	NS5 FTO.....FV	6030200033	10	-
NS5 301.....350	6030200055	10	-	NS5 FTO.....FTO	6030200073	10	-
NS5 31.....31	6030200084	10	-	NS5 H1A.....MO	6030200064	10	-
NS5 31.....40	6030200011	10	-	NS5 MP.....SV	6030200037	10	-
NS5 32.....32	6030200085	10	-	NS5 MP.....120	6030200062	10	-
NS5 33.....33	6030200081	10	-	NS5 MPD.....11	6030200003	10	-
NS5 351.....400	6030200056	10	-	NS5 PE.....PE	6030200087	10	-
NS5 4.....4	6030200076	10	-	NS5 RS1.....E	6030200050	10	-
NS5 401.....450	6030200059	10	-	NS5 RS1.....DC2	6030200021	10	-
NS5 41.....50	6030200012	10	-	NS5 RS1.....DC5	6030200005	10	-
NS5 451.....500	6030200060	10	-	NS5 RS2.....66	6030200041	10	-
NS5 51.....60	6030200013	10	-	NS5 RX.....90C	6030200029	10	-
NS5 51.....100	6030200016	10	-	NS5 S4.....MPD	6030200038	10	-
NS5 61.....70	6030200014	10	-	NS5 SP+.....M2	6030200065	10	-

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS5 TR...LP -A	6030200092	10	-	NS6 1.....SCN	6030300546	10	1700
NS5 UN in.....MP	6030200061	10	-	NS6 1....10	6030300031	10	1700
NS5 V.V.V	6030200074	10	-	NS6 1....10-A	6030300569	10	1700
NS5 VA.....VA	6030200068	10	-	NS6 1....50	6030300038	10	1700
NS5 VB.....VB	6030200069	10	-	NS6 1....LMP-A	6030300946	10	1700
NS5 VC.....VC	6030200070	10	-	NS6 1+.....1	6030300649	10	1700
NS5 VD.....VD	6030200071	10	-	NS6 1+....1+-A	6030300974	10	1700
NS5 VLB404:B430L.....CF3	6030200035	10	-	NS6 10,10	6030300027	10	1700
NS5 VV	6030200095	10	-	NS6 10-.....10	6030300668	10	1700
NS5 W.....W	6030200072	10	-	NS6 10...500	6030300048	10	1700
NS5 WL.....MP	6030200007	10	-	NS6 10+.....10	6030300667	10	1700
NS5N.....N	6030200086	10	-	NS6 10-...10-A	6030300986	10	1700
NS5NO-1...1 -A	6030200091	10	-	NS6 100,100	6030300648	10	1700
NS5White	6030200001	10	-	NS6 1000....120-A	6030300951	10	1700
NS6-	6030300378	10	1700	NS6 101....101	6030300476	10	1700
NS6 E.....T20	6030300530	10	1700	NS6 101....,110	6030300091	10	1700
NS6 (-.....-)	6030300071	10	1700	NS6 101....150	6030300039	10	1700
NS6 (-.....-+)	6030300042	10	1700	NS6 10A	6030300788	10	1700
NS6 (-.....+)	6030300504	10	1700	NS6 10B	6030300789	10	1700
NS6 (-.....+++)	6030300068	10	1700	NS6 10C	6030300790	10	1700
NS6 --.....-	6030300797	10	1700	NS6 10S	6030300756	10	1700
NS6 -...-A	6030300928	10	1700	NS6 10SC	6030300718	10	1700
NS6 +1.....+10	6030300924	10	1700	NS6 11.....24	6030300162	10	1700
NS6 +11.....+20	6030300923	10	1700	NS6 11-.....11	6030300670	10	1700
NS6 +22	6030300774	10	1700	NS6 -11.....-20	6030300922	10	1700
NS6 +23	6030300777	10	1700	NS6 11.....64	6030300135	10	1700
NS6 +24	6030300768	10	1700	NS6 11....20-A	6030300562	10	1700
NS6 +24.....	6030300437	10	1700	NS6 11....11-A	6030300894	10	1700
NS6 +24.....CPL	6030300355	10	1700	NS6 11....15	6030300032	10	1700
NS6 0...9	6030300026	10	1700	NS6 11....20	6030300052	10	1700
NS6 000	6030300078	10	1700	NS6 11.11	6030300195	10	1700
NS6 01....10	6030300496	10	1700	NS6 11+.....11	6030300669	10	1700
NS6 1,2,3,4....2	6030300898	10	1700	NS6 11+....11+-A	6030300988	10	1700
NS6 1-.....1	6030300650	10	1700	NS6 110....C10	6030300306	10	1700
NS6 -1.....-10	6030300925	10	1700	NS6 110....ER-A	6030300074	10	1700
NS6 1.....-A	6030300882	10	1700	NS6 110....ER-B	6030300079	10	1700
NS6 1...-....-A	6030300897	10	1700	NS6 110....140	6030300347	10	1700
NS6 1.....BX	6030300361	10	1700	NS6 110....FAN1	6030300912	10	1700
NS6 1.....G22	6030300072	10	1700	NS6 110.110	6030300300	10	1700
NS6 1.....15	6030300344	10	1700	NS6 110...140-A	6030300948	10	1700
NS6 1.....2	6030300559	10	1700	NS6 110ac	6030300419	10	1700
NS6 1.....25	6030300887	10	1700	NS6 110l.....B	6030300028	10	1700
NS6 1.....DC	6030300482	10	1700	NS6 111	6030300002	10	1700
NS6 1.....LMP	6030300888	10	1700	NS6 111....120	6030300066	10	1700
NS6 1.....PE	6030300558	10	1700	NS6 111.111	6030300301	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 112.....N1	6030300905	10	1700	NS6 17-.....17	6030300682	10	1700
NS6 11S	6030300757	10	1700	NS6 17.17	6030300201	10	1700
NS6 11SC	6030300719	10	1700	NS6 17+.....17	6030300681	10	1700
NS6 11SC.....20SC	6030300695	10	1700	NS6 17+....R5-A	6030300997	10	1700
NS6 12-.....12	6030300672	10	1700	NS6 17S	6030300763	10	1700
NS6 12....12-A	6030300895	10	1700	NS6 17SC	6030300725	10	1700
NS6 12.12	6030300196	10	1700	NS6 18-.....18	6030300684	10	1700
NS6 12+.....12	6030300671	10	1700	NS6 18.18	6030300202	10	1700
NS6 12-...12-A	6030300989	10	1700	NS6 18+.....18	6030300683	10	1700
NS6 121....130	6030300067	10	1700	NS6 18-....R4-A	6030300996	10	1700
NS6 12ac	6030300417	10	1700	NS6 18S	6030300764	10	1700
NS6 12S	6030300758	10	1700	NS6 18S...18S-A	6030301028	10	1700
NS6 12S...12S-A	6030301036	10	1700	NS6 18SC	6030300726	10	1700
NS6 12SC	6030300720	10	1700	NS6 19-.....19	6030300686	10	1700
NS6 13-.....13	6030300674	10	1700	NS6 19.....SCN	6030300549	10	1700
NS6 13.....SCN	6030300548	10	1700	NS6 19.19	6030300203	10	1700
NS6 13.13	6030300197	10	1700	NS6 19+.....19	6030300685	10	1700
NS6 13+.....13	6030300673	10	1700	NS6 19+....R6-A	6030300998	10	1700
NS6 13+...13+-A	6030300991	10	1700	NS6 19S	6030300765	10	1700
NS6 131....140	6030300069	10	1700	NS6 19SC	6030300727	10	1700
NS6 13S	6030300759	10	1700	NS6 1A	6030300729	10	1700
NS6 13SC	6030300721	10	1700	NS6 1A.....4A	6030300692	10	1700
NS6 14-.....14	6030300676	10	1700	NS6 1A.....17A	6030300576	10	1700
NS6 14.14	6030300198	10	1700	NS6 1A....PE-A	6030301045	10	1700
NS6 14+.....14	6030300675	10	1700	NS6 1B	6030300730	10	1700
NS6 14-...14-A	6030300992	10	1700	NS6 1B.....17B	6030300577	10	1700
NS6 141....150	6030300077	10	1700	NS6 1C	6030300731	10	1700
NS6 14S	6030300760	10	1700	NS6 1C.....17C	6030300578	10	1700
NS6 14SC	6030300722	10	1700	NS6 1CF.....110	6030300142	10	1700
NS6 15-.....15	6030300678	10	1700	NS6 1CF....VLL	6030300113	10	1700
NS6 15.15	6030300199	10	1700	NS6 1CF.1CF	6030300284	10	1700
NS6 15+.....15	6030300677	10	1700	NS6 1D.....17D	6030300579	10	1700
NS6 15+....R1-A	6030300993	10	1700	NS6 1L....50L	6030300791	10	1700
NS6 151....200	6030300100	10	1700	NS6 1N.....50N	6030300610	10	1700
NS6 15S	6030300761	10	1700	NS6 1R.....50R	6030300607	10	1700
NS6 15S...15S-A	6030301027	10	1700	NS6 1S	6030300747	10	1700
NS6 15SC	6030300723	10	1700	NS6 1S.....50S	6030300608	10	1700
NS6 16-.....16	6030300680	10	1700	NS6 1SC	6030300709	10	1700
NS6 16....20	6030300033	10	1700	NS6 1SC.....10SC	6030300694	10	1700
NS6 16.16	6030300200	10	1700	NS6 1T.....50T	6030300609	10	1700
NS6 16+.....16	6030300679	10	1700	NS6 1U	6030300101	10	1700
NS6 16-....R3-A	6030300995	10	1700	NS6 1UP.....GND	6030300627	10	1700
NS6 16S	6030300762	10	1700	NS6 1UP....1DN	6030300529	10	1700
NS6 16S...16S-A	6030301040	10	1700	NS6 1V	6030300115	10	1700
NS6 16SC	6030300724	10	1700	NS6 1W	6030300116	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 2-.....2	6030300652	10	1700	NS6 24V....12	6030300906	10	1700
NS6 2.....-A	6030300883	10	1700	NS6 24V...DC2	6030300900	10	1700
NS6 2-...2--A	6030300976	10	1700	NS6 24V...T12	6030300901	10	1700
NS6 2+.....2	6030300651	10	1700	NS6 25.....SCN	6030300550	10	1700
NS6 20-.....20	6030300688	10	1700	NS6 25.25	6030300209	10	1700
NS6 20.20	6030300204	10	1700	NS6 25+....R16-A	6030301009	10	1700
NS6 20+.....20	6030300687	10	1700	NS6 251....300	6030300086	10	1700
NS6 20-....R9-A	6030301001	10	1700	NS6 26....30	6030300037	10	1700
NS6 201.....1	6030300348	10	1700	NS6 26.26	6030300210	10	1700
NS6 201....250	6030300085	10	1700	NS6 26-....R17-A	6030301010	10	1700
NS6 20S	6030300766	10	1700	NS6 261....270	6030300315	10	1700
NS6 20S...20S-A	6030301041	10	1700	NS6 27.27	6030300211	10	1700
NS6 20SC	6030300728	10	1700	NS6 27+....R19-A	6030301012	10	1700
NS6 -21	6030300772	10	1700	NS6 271....280	6030300316	10	1700
NS6 21....25	6030300035	10	1700	NS6 28.28	6030300212	10	1700
NS6 21....30	6030300056	10	1700	NS6 28-....S1-A	6030301013	10	1700
NS6 21....30-A	6030300319	10	1700	NS6 281....290	6030300317	10	1700
NS6 21.21	6030300205	10	1700	NS6 28S...28S-A	6030301042	10	1700
NS6 21+....R11-A	6030301003	10	1700	NS6 29.29	6030300213	10	1700
NS6 21S	6030300773	10	1700	NS6 2A	6030300732	10	1700
NS6 21S...21S-A	6030301029	10	1700	NS6 2B	6030300733	10	1700
NS6 21S...40S-A	6030301030	10	1700	NS6 2C	6030300734	10	1700
NS6 -22	6030300775	10	1700	NS6 2S	6030300748	10	1700
NS6 22.22	6030300206	10	1700	NS6 2SC	6030300710	10	1700
NS6 22-....R10-A	6030301002	10	1700	NS6 2U	6030300112	10	1700
NS6 222	6030300006	10	1700	NS6 2V	6030300125	10	1700
NS6 226....238	6030300512	10	1700	NS6 2W	6030300120	10	1700
NS6 227....236	6030300509	10	1700	NS6 3-.....3	6030300654	10	1700
NS6 22S	6030300776	10	1700	NS6 3.....-A	6030300884	10	1700
NS6 -23	6030300778	10	1700	NS6 3+.....3	6030300653	10	1700
NS6 23.23	6030300207	10	1700	NS6 3+....3+-A	6030300975	10	1700
NS6 23+....R13-A	6030301006	10	1700	NS6 30.30	6030300214	10	1700
NS6 231....240	6030300293	10	1700	NS6 301....350	6030300087	10	1700
NS6 23S	6030300767	10	1700	NS6 31.....SCN	6030300551	10	1700
NS6 -24	6030300769	10	1700	NS6 31....35	6030300040	10	1700
NS6 24.....14	6030300163	10	1700	NS6 31...40	6030300060	10	1700
NS6 24.....22	6030300044	10	1700	NS6 31...40-A	6030300570	10	1700
NS6 24.....CBN	6030300139	10	1700	NS6 31.31	6030300215	10	1700
NS6 -24.....+24	6030300590	10	1700	NS6 311....320	6030300312	10	1700
NS6 24.24	6030300208	10	1700	NS6 32.32	6030300216	10	1700
NS6 24-....R14-A	6030301007	10	1700	NS6 321....330	6030300313	10	1700
NS6 241....250	6030300308	10	1700	NS6 32S...32S-A	6030301035	10	1700
NS6 24ac	6030300418	10	1700	NS6 33.33	6030300217	10	1700
NS6 24S	6030300770	10	1700	NS6 331....340	6030300314	10	1700
NS6 24S...24S-A	6030301037	10	1700	NS6 333	6030300010	10	1700



Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 34.34	6030300218	10	1700	NS6 49.49	6030300233	10	1700
NS6 35.35	6030300219	10	1700	NS6 4A	6030300738	10	1700
NS6 351....400	6030300080	10	1700	NS6 4B	6030300739	10	1700
NS6 36.....45	6030300507	10	1700	NS6 4B.....6C	6030300693	10	1700
NS6 36...40	6030300049	10	1700	NS6 4BS	6030300489	10	1700
NS6 36.36	6030300220	10	1700	NS6 4C	6030300740	10	1700
NS6 37.....SCN	6030300552	10	1700	NS6 4S	6030300750	10	1700
NS6 37.37	6030300221	10	1700	NS6 4S...4S-A	6030301038	10	1700
NS6 38.38	6030300222	10	1700	NS6 4SC	6030300712	10	1700
NS6 39.39	6030300223	10	1700	NS6 5-.....5	6030300658	10	1700
NS6 3A	6030300735	10	1700	NS6 5+.....5	6030300657	10	1700
NS6 3B	6030300736	10	1700	NS6 5+...5+-A	6030300980	10	1700
NS6 3C	6030300737	10	1700	NS6 50.50	6030300234	10	1700
NS6 3S	6030300749	10	1700	NS6 501....550	6030300095	10	1700
NS6 3S...3S-A	6030301023	10	1700	NS6 51.....VB12	6030300614	10	1700
NS6 3S...18S-A	6030301024	10	1700	NS6 51....100	6030300036	10	1700
NS6 3SC	6030300711	10	1700	NS6 51....55	6030300053	10	1700
NS6 3U	6030300126	10	1700	NS6 51....60	6030300117	10	1700
NS6 3V	6030300129	10	1700	NS6 51....60-A	6030300318	10	1700
NS6 3W	6030300124	10	1700	NS6 51....66	6030300105	10	1700
NS6 4-.....4	6030300656	10	1700	NS6 51....69	6030300503	10	1700
NS6 4.....-A	6030300885	10	1700	NS6 51....T7	6030300322	10	1700
NS6 4-...4--A	6030300977	10	1700	NS6 51.51	6030300235	10	1700
NS6 4+.....4	6030300655	10	1700	NS6 51L.....80L	6030300792	10	1700
NS6 40.40	6030300224	10	1700	NS6 51N.....80N	6030300611	10	1700
NS6 401....450	6030300081	10	1700	NS6 52.52	6030300236	10	1700
NS6 40S...44S-A	6030301031	10	1700	NS6 52S...60S-A	6030301033	10	1700
NS6 41....45	6030300050	10	1700	NS6 53.53	6030300237	10	1700
NS6 41....50	6030300064	10	1700	NS6 54.54	6030300238	10	1700
NS6 41....50-A	6030300571	10	1700	NS6 55.55	6030300239	10	1700
NS6 41.41	6030300225	10	1700	NS6 551....600	6030300497	10	1700
NS6 42.42	6030300226	10	1700	NS6 555	6030300018	10	1700
NS6 43.....SCN	6030300553	10	1700	NS6 56....60	6030300054	10	1700
NS6 43.43	6030300227	10	1700	NS6 56.56	6030300240	10	1700
NS6 44.....227	6030300508	10	1700	NS6 57.57	6030300241	10	1700
NS6 44.44	6030300228	10	1700	NS6 58.58	6030300242	10	1700
NS6 444	6030300014	10	1700	NS6 59.59	6030300243	10	1700
NS6 45.45	6030300229	10	1700	NS6 5A	6030300741	10	1700
NS6 451....500	6030300090	10	1700	NS6 5-A	6030300835	10	1700
NS6 46....50	6030300051	10	1700	NS6 5B	6030300742	10	1700
NS6 46.46	6030300230	10	1700	NS6 5C	6030300743	10	1700
NS6 47.47	6030300231	10	1700	NS6 5KT.....O2	6030300148	10	1700
NS6 48.48	6030300232	10	1700	NS6 5S	6030300751	10	1700
NS6 48S...52S-A	6030301032	10	1700	NS6 5SC	6030300713	10	1700
NS6 49.....SCN	6030300554	10	1700	NS6 6-.....6	6030300660	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 6+.....6	6030300659	10	1700	NS6 70	6030300702	10	1700
NS6 6-...6--A	6030301004	10	1700	NS6 70.70	6030300254	10	1700
NS6 60.60	6030300244	10	1700	NS6 70.....--A	6030300954	10	1700
NS6 601....650	6030300498	10	1700	NS6 701....750	6030300500	10	1700
NS6 60S...64S-A	6030301034	10	1700	NS6 71SR2	6030300279	10	1700
NS6 61.....70-A	6030300604	10	1700	NS6 71....75	6030300058	10	1700
NS6 61....65	6030300055	10	1700	NS6 71....80	6030300119	10	1700
NS6 61....70	6030300118	10	1700	NS6 71....80-A	6030300637	10	1700
NS6 61.61	6030300245	10	1700	NS6 71.71	6030300255	10	1700
NS6 62.62	6030300246	10	1700	NS6 71-C.71-C	6030300305	10	1700
NS6 63.63	6030300247	10	1700	NS6 72.72	6030300256	10	1700
NS6 634.....721	6030300136	10	1700	NS6 73.73	6030300257	10	1700
NS6 64.64	6030300248	10	1700	NS6 74.74	6030300258	10	1700
NS6 65.65	6030300249	10	1700	NS6 75.75	6030300259	10	1700
NS6 651....700	6030300499	10	1700	NS6 751....800	6030300501	10	1700
NS6 66....70	6030300057	10	1700	NS6 76....80	6030300059	10	1700
NS6 66.66	6030300250	10	1700	NS6 76.76	6030300260	10	1700
NS6 666	6030300021	10	1700	NS6 77.....2	6030300589	10	1700
NS6 67.67	6030300251	10	1700	NS6 77.77	6030300261	10	1700
NS6 68.....VB24	6030300575	10	1700	NS6 777	6030300022	10	1700
NS6 68.....B2-A	6030300536	10	1700	NS6 78.78	6030300262	10	1700
NS6 68....MP	6030300334	10	1700	NS6 79.79	6030300263	10	1700
NS6 68.....V12	6030300889	10	1700	NS6 7A	6030300780	10	1700
NS6 68...B2	6030300324	10	1700	NS6 7B	6030300781	10	1700
NS6 68....EF1	6030300323	10	1700	NS6 7C	6030300779	10	1700
NS6 68....EF1-A	6030300328	10	1700	NS6 7S	6030300753	10	1700
NS6 68....VB	6030300325	10	1700	NS6 7SC	6030300715	10	1700
NS6 68....VB-A	6030300327	10	1700	NS6 8-.....8	6030300664	10	1700
NS6 68...VB-B	6030300333	10	1700	NS6 8+.....8	6030300663	10	1700
NS6 68.23...24.VB24	6030300893	10	1700	NS6 8-...8-A	6030300983	10	1700
NS6 68.68	6030300252	10	1700	NS6 80...MP	6030300568	10	1700
NS6 68-C.68-C	6030300309	10	1700	NS6 80.80	6030300264	10	1700
NS6 69.....RXO	6030300615	10	1700	NS6 801....850	6030300502	10	1700
NS6 69.69	6030300253	10	1700	NS6 81....85	6030300061	10	1700
NS6 69-C.69-C	6030300307	10	1700	NS6 81....90	6030300121	10	1700
NS6 6A	6030300744	10	1700	NS6 81....90-A	6030300920	10	1700
NS6 6B	6030300745	10	1700	NS6 81.81	6030300265	10	1700
NS6 6C	6030300746	10	1700	NS6 82.82	6030300266	10	1700
NS6 6S	6030300752	10	1700	NS6 83.83	6030300267	10	1700
NS6 6S...6S-A	6030301025	10	1700	NS6 84....96	6030300510	10	1700
NS6 6SC	6030300714	10	1700	NS6 84.84	6030300268	10	1700
NS6 7-.....7	6030300662	10	1700	NS6 85.85	6030300269	10	1700
NS6 7.....SCN	6030300547	10	1700	NS6 851....900	6030300513	10	1700
NS6 7+.....7	6030300661	10	1700	NS6 86....90	6030300062	10	1700
NS6 7+....7+-A	6030300982	10	1700	NS6 86.86	6030300270	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 87.87	6030300271	10	1700	NS6 α.....	6030300439	10	1700
NS6 88.88	6030300638	10	1700	NS6 A.....E	6030300916	10	1700
NS6 888	6030300023	10	1700	NS6 A.....L3	6030300357	10	1700
NS6 89.89	6030300639	10	1700	NS6 A+.....A	6030300795	10	1700
NS6 8A	6030300782	10	1700	NS6 A+.....FLC	6030300075	10	1700
NS6 8B	6030300783	10	1700	NS6 A+.....LMP1	6030300518	10	1700
NS6 8C	6030300784	10	1700	NS6 A.....-A	6030300705	10	1700
NS6 8S	6030300754	10	1700	NS6 A1	6030300833	10	1700
NS6 8S...8S-A	6030301039	10	1700	NS6 A1.....A2	6030300157	10	1700
NS6 8SC	6030300716	10	1700	NS6 A1.....P12	6030300159	10	1700
NS6 9-.....9	6030300666	10	1700	NS6 A1.....P2	6030300161	10	1700
NS6 9+.....9	6030300665	10	1700	NS6 A1.....A4	6030300160	10	1700
NS6 9+....9+-A	6030300985	10	1700	NS6 A1.....P3	6030300158	10	1700
NS6 90.....DR7	6030300624	10	1700	NS6 A1.....Y1	6030300156	10	1700
NS6 90.90	6030300302	10	1700	NS6 A1.....Y2	6030300152	10	1700
NS6 901.....950	6030300514	10	1700	NS6 A1.....P1	6030300154	10	1700
NS6 90A.....ECN	6030300143	10	1700	NS6 A1.....P1-B	6030300155	10	1700
NS6 90A.....JU2	6030300425	10	1700	NS6 A1.....P5	6030300151	10	1700
NS6 90A.....SR1	6030300435	10	1700	NS6 A1.....Y2-B	6030300153	10	1700
NS6 90-C.90-C	6030300303	10	1700	NS6 ABC.....X	6030300045	10	1700
NS6 91	6030300490	10	1700	NS6 ABC....Z	6030300046	10	1700
NS6 91.....60	6030300794	10	1700	NS6 AL.....12	6030300150	10	1700
NS6 91.....W2	6030300632	10	1700	NS6 ALM...CM	6030300099	10	1700
NS6 91....100	6030300073	10	1700	NS6 ALR	6030300868	10	1700
NS6 91....100-A	6030300921	10	1700	NS6 ALR...V24	6030300956	10	1700
NS6 91....95	6030300063	10	1700	NS6 ALR...V24-A	6030300963	10	1700
NS6 92.92	6030300640	10	1700	NS6 AUX	6030300845	10	1700
NS6 93.93	6030300641	10	1700	NS6 B+.....B	6030300796	10	1700
NS6 94.94	6030300642	10	1700	NS6 B.....-A	6030300706	10	1700
NS6 95....227	6030300511	10	1700	NS6 B...M	6030300969	10	1700
NS6 95.95	6030300643	10	1700	NS6 B1	6030300421	10	1700
NS6 951....1000	6030300515	10	1700	NS6 B1....DCH	6030300096	10	1700
NS6 96....100	6030300065	10	1700	NS6 B2	6030300422	10	1700
NS6 96.96	6030300644	10	1700	NS6 B3...B3	6030300544	10	1700
NS6 97.97	6030300645	10	1700	NS6 BB	6030300107	10	1700
NS6 98.98	6030300646	10	1700	NS6 BK+....FAN2	6030300913	10	1700
NS6 99.99	6030300647	10	1700	NS6 BM+	6030300837	10	1700
NS6 999	6030300025	10	1700	NS6 BM-	6030300838	10	1700
NS6 9A	6030300785	10	1700	NS6 Bm+...Mp	6030300955	10	1700
NS6 9B	6030300786	10	1700	NS6 BM1.B635.B652.....H2	6030300171	10	1700
NS6 9C	6030300787	10	1700	NS6 BR+.....	6030300409	10	1700
NS6 9S	6030300755	10	1700	NS6 BR-.....	6030300410	10	1700
NS6 9S...9S-A	6030301026	10	1700	NS6 BR1	6030300807	10	1700
NS6 9SC	6030300717	10	1700	NS6 BR1MP	6030300276	10	1700
NS6 A	6030300176	10	1700	NS6 BR1.....CA1	6030300167	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 BR1.....CM -A	6030300166	10	1700	NS6 CAn	6030300415	10	1700
NS6 BR1.....CM -B	6030300170	10	1700	NS6 CANFLC-A	6030300277	10	1700
NS6 BR1.....CA1-A	6030300505	10	1700	NS6 CAN.....FLC	6030300168	10	1700
NS6 BR1.....FTO-A	6030300084	10	1700	NS6 CAN.CAN	6030300298	10	1700
NS6 BR1.....H8	6030300041	10	1700	NS6 CAN....110	6030300424	10	1700
NS6 BR1.....MP-A	6030300479	10	1700	NS6 CBD	6030300844	10	1700
NS6 BR1.....24	6030300475	10	1700	NS6 cf3.....	6030300442	10	1700
NS6 BR1.....68	6030300336	10	1700	NS6 CF3.CF3	6030300285	10	1700
NS6 BR1.....CM2	6030300340	10	1700	NS6 CM.....1A	6030300586	10	1700
NS6 BR1.....FLC	6030300043	10	1700	NS6 CM1	6030300850	10	1700
NS6 BR1.....FTO -B	6030300008	10	1700	NS6 CM2	6030300853	10	1700
NS6 BR1.....G22	6030300138	10	1700	NS6 COM	6030300408	10	1700
NS6 BR1.....HP2	6030300338	10	1700	NS6 COM.....D	6030300076	10	1700
NS6 BR1.....REV-A	6030300516	10	1700	NS6 CPL	6030300849	10	1700
NS6 BR1....FTO-C	6030300083	10	1700	NS6 CPL2	6030300082	10	1700
NS6 BR1....FTO--D	6030300320	10	1700	NS6 CPL2.....H8	6030300335	10	1700
NS6 BR1....FTO-E	6030300358	10	1700	NS6 CPL2.....H8-A	6030300345	10	1700
NS6 BR1....FTO-F	6030300477	10	1700	NS6 CRV	6030300369	10	1700
NS6 BR1....FTO-G	6030300486	10	1700	NS6 CRV.....DC7	6030300144	10	1700
NS6 BR1....REV	6030300483	10	1700	NS6 D	6030300173	10	1700
NS6 BR1....ST2	6030300484	10	1700	NS6 D1	6030300823	10	1700
NS6 BR1...RVD	6030300360	10	1700	NS6 D1.....H6	6030300566	10	1700
NS6 BR2	6030300808	10	1700	NS6 D2...D11	6030300915	10	1700
NS6 BT-	6030300863	10	1700	NS6 DC.DC	6030300281	10	1700
NS6 BT+	6030300862	10	1700	NS6 DC1	6030300851	10	1700
NS6 BUZ.....L5	6030300617	10	1700	NS6 DC1....1	6030300104	10	1700
NS6 C.....0	6030300013	10	1700	NS6 DC1....80	6030300106	10	1700
NS6 C.....Ni	6030300696	10	1700	NS6 DC1....DC5	6030300429	10	1700
NS6 C...Ni-A	6030300952	10	1700	NS6 DC2	6030300854	10	1700
NS6 C.C	6030300291	10	1700	NS6 DC8.....LF1	6030300145	10	1700
NS6 C.....-A	6030300707	10	1700	NS6 DCB	6030300859	10	1700
NS6 C1	6030300834	10	1700	NS6 DD	6030300826	10	1700
NS6 C1.....LF1	6030300588	10	1700	NS6 DD2....GL	6030300103	10	1700
NS6 C1...LEF	6030300481	10	1700	NS6 DD9....W0	6030300093	10	1700
NS6 C1...+EL	6030300903	10	1700	NS6 DFC	6030300829	10	1700
NS6 C1...LV2	6030300899	10	1700	NS6 DIB	6030300876	10	1700
NS6 C1.....FLC	6030300469	10	1700	NS6 DM-	6030300861	10	1700
NS6 C11.....10	6030300587	10	1700	NS6 DM+	6030300860	10	1700
NS6 C2....-EL	6030300904	10	1700	NS6 DM1....A	6030300968	10	1700
NS6 C24.....C21	6030300592	10	1700	NS6 DN.DN	6030300297	10	1700
NS6 C9.....+24	6030300337	10	1700	NS6 DO .DO	6030300280	10	1700
NS6 C9.....24	6030300137	10	1700	NS6 DO1	6030300852	10	1700
NS6 CA.....R2	6030300594	10	1700	NS6 DO2	6030300855	10	1700
NS6 CA1...TP1	6030300445	10	1700	NS6 DOB	6030300858	10	1700
NS6 CA1.CA1	6030300299	10	1700	NS6 dp....dp	6030300545	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 DR1	6030300380	10	1700	NS6 F1	6030300194	10	1700
NS6 DR1.....ERT	6030300428	10	1700	NS6 F1.....T12	6030300908	10	1700
NS6 DR10	6030300389	10	1700	NS6 F1....F10-A	6030300935	10	1700
NS6 DR11	6030300390	10	1700	NS6 F11...F20-A	6030300936	10	1700
NS6 DR12	6030300391	10	1700	NS6 F2.....T24	6030300909	10	1700
NS6 DR13	6030300392	10	1700	NS6 F21...F30-A	6030300937	10	1700
NS6 DR14	6030300393	10	1700	NS6 F31...F40-A	6030300938	10	1700
NS6 DR15	6030300394	10	1700	NS6 F41...F50-A	6030300939	10	1700
NS6 DR16	6030300395	10	1700	NS6 F51...F60-A	6030300940	10	1700
NS6 DR2	6030300381	10	1700	NS6 F61...F70-A	6030300941	10	1700
NS6 DR3	6030300382	10	1700	NS6 F71...F80-A	6030300942	10	1700
NS6 DR4	6030300383	10	1700	NS6 F81...F90-A	6030300943	10	1700
NS6 DR5	6030300384	10	1700	NS6 FAN	6030300411	10	1700
NS6 DR6	6030300385	10	1700	NS6 FIR	6030300832	10	1700
NS6 DR6.....G	6030300623	10	1700	NS6 FIR....6kT	6030300110	10	1700
NS6 DR7	6030300386	10	1700	NS6 FLC	6030300836	10	1700
NS6 DR8	6030300387	10	1700	NS6 FLC.....O	6030300353	10	1700
NS6 DR9	6030300388	10	1700	NS6 FLC.....+24	6030300017	10	1700
NS6 DR9.....DC9	6030300149	10	1700	NS6 FLC.....+24-B	6030300019	10	1700
NS6 DS.CS.US	6030300272	10	1700	NS6 FLC....G22-A	6030300351	10	1700
NS6 e.....	6030300440	10	1700	NS6 FLC....FLC	6030300541	10	1700
NS6 E.....98	6030300134	10	1700	NS6 FLC....G22	6030300089	10	1700
NS6 E.....T17	6030300528	10	1700	NS6 FLC...H11	6030300444	10	1700
NS6 E.....T20	6030300630	10	1700	NS6 FLC...H11-A	6030300449	10	1700
NS6 E....FTO	6030300485	10	1700	NS6 FR+...LP-A	6030300947	10	1700
NS6 E.E.E	6030300122	10	1700	NS6 FTO.....U2	6030300631	10	1700
NS6 E...E-A	6030301020	10	1700	NS6 FTO...B1-A	6030300919	10	1700
NS6 E...TR	6030300973	10	1700	NS6 FTO....MP	6030300102	10	1700
NS6 E1	6030300191	10	1700	NS6 FTO.FTO	6030300283	10	1700
NS6 E2	6030300192	10	1700	NS6 FTS	6030300412	10	1700
NS6 E3	6030300193	10	1700	NS6 g....	6030300441	10	1700
NS6 EC1.EC1	6030300288	10	1700	NS6 G.G	6030300294	10	1700
NS6 EC1.....ECN	6030300430	10	1700	NS6 G1	6030300824	10	1700
NS6 ECN.ECN	6030300287	10	1700	NS6 G1...VCM	6030300452	10	1700
NS6 EFN....EF1	6030300330	10	1700	NS6 G22.....G90	6030300108	10	1700
NS6 EL	6030300930	10	1700	NS6 G90....FLC	6030300465	10	1700
NS6 ENL	6030300805	10	1700	NS6 G90....REVC	6030300480	10	1700
NS6 EPH	6030300806	10	1700	NS6 G90...CBN	6030300123	10	1700
NS6 ERT....69	6030300329	10	1700	NS6 G90.....BT3	6030300468	10	1700
NS6 ERTH	6030300926	10	1700	NS6 GMD.....E1	6030300565	10	1700
NS6 ES.....68	6030300798	10	1700	NS6 GND	6030300870	10	1700
NS6 ESC	6030300827	10	1700	NS6 GND	6030300907	10	1700
NS6 F	6030300175	10	1700	NS6 GND.....S5	6030300591	10	1700
NS6 F ~.....	6030300917	10	1700	NS6 GND...T24	6030300902	10	1700
NS6 F.....80	6030300618	10	1700	NS6 GNE.....110	6030300634	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 MP....H5-A	6030300964	10	1700	NS6 RL.....DL	6030300540	10	1700
NS6 MP....W2	6030300436	10	1700	NS6 RS1.....B2	6030300029	10	1700
NS6 MP...G22	6030300467	10	1700	NS6 RS1.....GND	6030300304	10	1700
NS6 N.N	6030300128	10	1700	NS6 RS1.RS1	6030300289	10	1700
NS6 NOR	6030300843	10	1700	NS6 RS2.RS2	6030300290	10	1700
NS6 NUL	6030300819	10	1700	NS6 RS3	6030300366	10	1700
NS6 O...	6030300945	10	1700	NS6 RS43	6030300367	10	1700
NS6 O.....H8	6030300339	10	1700	NS6 RST	6030300488	10	1700
NS6 O.S	6030300793	10	1700	NS6 RSTN	6030300034	10	1700
NS6 OL.....OL	6030300612	10	1700	NS6 R-UP.R-UP	6030300310	10	1700
NS6 ON.....ON	6030300613	10	1700	NS6 RX...T17...	6030300934	10	1700
NS6 OS...OS	6030301050	10	1700	NS6 RX...U2.T17...	6030300961	10	1700
NS6 OSCN.....OSCN	6030300561	10	1700	NS6 S.S.S	6030300005	10	1700
NS6 OSCR	6030300689	10	1700	NS6 S.S.S....-A	6030300573	10	1700
NS6 OSCR....3	6030300932	10	1700	NS6 S1.....S1	6030300534	10	1700
NS6 OVL.....A	6030300359	10	1700	NS6 S1.....S40	6030300472	10	1700
NS6 OVL...FLC -B	6030300009	10	1700	NS6 S1...S12...	6030300967	10	1700
NS6 OVL....H12	6030300478	10	1700	NS6 S1....S1-A	6030300978	10	1700
NS6 OVL....H12-A	6030300532	10	1700	NS6 S10....R12-A	6030301005	10	1700
NS6 OVL...VV	6030300321	10	1700	NS6 S11....R15-A	6030301008	10	1700
NS6 OVL...FLC-A	6030300088	10	1700	NS6 S12....R18-A	6030301011	10	1700
NS6 OVL.OVL	6030300282	10	1700	NS6 S13....S4-A	6030301014	10	1700
NS6 P	6030300178	10	1700	NS6 S15....E-A	6030301019	10	1700
NS6 P.....72	6030300625	10	1700	NS6 S2.....S2	6030300535	10	1700
NS6 P2.....10	6030300020	10	1700	NS6 S2....COM	6030300635	10	1700
NS6 PE,PE	6030300111	10	1700	NS6 S2....CF3	6030300141	10	1700
NS6 PE.....-A	6030300605	10	1700	NS6 S2...S2-A	6030300979	10	1700
NS6 PE.....PE	6030300557	10	1700	NS6 S3...S3-A	6030300981	10	1700
NS6 PE...U-A	6030300896	10	1700	NS6 S4.....91	6030300619	10	1700
NS6 PE..A...PE-A	6030301044	10	1700	NS6 S4.....L5D	6030300140	10	1700
NS6 PH	6030300708	10	1700	NS6 S4...S4-A	6030300984	10	1700
NS6 PHC.....O	6030300015	10	1700	NS6 S5....S5-A	6030300987	10	1700
NS6 PHS	6030300820	10	1700	NS6 S5....T2-A	6030301015	10	1700
NS6 PTC	6030300831	10	1700	NS6 S6...S6-A	6030300990	10	1700
NS6 R	6030300131	10	1700	NS6 S7.....UPSI	6030300799	10	1700
NS6 R.....-A	6030300597	10	1700	NS6 S7....R2-A	6030300994	10	1700
NS6 R.....B	6030300533	10	1700	NS6 S8....R7-A	6030300999	10	1700
NS6 R1.....R40	6030300471	10	1700	NS6 S9...R8-A	6030301000	10	1700
NS6 R1....T12-A	6030301046	10	1700	NS6 SC.....SC	6030300560	10	1700
NS6 R1.....FLP	6030300470	10	1700	NS6 SC1....	6030300970	10	1700
NS6 RC	6030300492	10	1700	NS6 SC2....	6030300971	10	1700
NS6 R-DN.R-DN	6030300311	10	1700	NS6 SCN.....-A	6030300601	10	1700
NS6 REV.G22...REV	6030300114	10	1700	NS6 SCR.....-A	6030300602	10	1700
NS6 REV.REV	6030300286	10	1700	NS6 SCR....	6030300944	10	1700
NS6 RL -.....	6030300800	10	1700	NS6 SEN...M	6030301049	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6 VDS	6030300811	10	1700	NS6.4 ...-16...-11	6030400746	10	1700
NS6 VLL	6030300379	10	1700	NS6.4 ...8...1	6030400756	10	1700
NS6 VLL.....VO	6030300098	10	1700	NS6.4 ...81...11	6030400751	10	1700
NS6 Vm.....VD	6030300700	10	1700	NS6.4 ...-81...-11	6030400750	10	1700
NS6 Vm...VD-A	6030300953	10	1700	NS6.4 ...82...12	6030400752	10	1700
NS6 VMD	6030300493	10	1700	NS6.4 +GUL1...+GL	6030400739	10	1700
NS6 VML	6030300494	10	1700	NS6.4 CM.....UPSR	6030400708	10	1700
NS6 VMP	6030300495	10	1700	NS6.4+	6030400093	10	1700
NS6 VO.....MP	6030300433	10	1700	NS6.4+++	6030400074	10	1700
NS6 VSC	6030300841	10	1700	NS6.4 01.....01	6030400020	10	1700
NS6 VSH.....V12	6030300506	10	1700	NS6.4 24...23	6030400787	10	1700
NS6 VSH....MOR	6030300331	10	1700	NS6.4 *12.12.12	6030400039	10	1700
NS6 VSH....MOR-A	6030300332	10	1700	NS6.4 ... 1W1...1U1	6030400707	10	1700
NS6 VSH...VD	6030300891	10	1700	NS6.4 ... 6...115	6030400713	10	1700
NS6 VUF	6030300810	10	1700	NS6.4 ... L1,L2,L3,N,PE	6030400610	10	1700
NS6 VUS	6030300809	10	1700	NS6.4 ... L11	6030400720	10	1700
NS6 VUS...VCM	6030300959	10	1700	NS6.4 ... L12	6030400721	10	1700
NS6 W1	6030300400	10	1700	NS6.4 ... ST	6030400716	10	1700
NS6 W2	6030300403	10	1700	NS6.4 ... ST0	6030400717	10	1700
NS6 White	6030300001	10	1700	NS6.4 ... ST3	6030400718	10	1700
NS6 x	6030300362	10	1700	NS6.4 ... ST4	6030400719	10	1700
NS6 X,Y,Z,N	6030300007	10	1700	NS6.4 SSS	6030400623	10	1700
NS6 X1	6030300179	10	1700	NS6.4 UPSR	6030400701	10	1700
NS6 X1...2-A	6030300931	10	1700	NS6.4 E.E.E	6030400676	10	1700
NS6 X10	6030300188	10	1700	NS6.4 F1.F1.F1	6030400674	10	1700
NS6 X11	6030300189	10	1700	NS6.4 F2.F2.F2	6030400675	10	1700
NS6 X12	6030300190	10	1700	NS6.4 ST2.ST2	6030400677	10	1700
NS6 X2	6030300180	10	1700	NS6.4 VVV	6030400672	10	1700
NS6 X3	6030300181	10	1700	NS6.4 WWW	6030400673	10	1700
NS6 X4	6030300182	10	1700	NS6.4 U.U.U	6030400679	10	1700
NS6 X5	6030300183	10	1700	NS6.4 95	6030400662	10	1700
NS6 X6	6030300184	10	1700	NS6.4 +RC.....STM	6030400661	10	1700
NS6 X7	6030300185	10	1700	NS6.4 +RC...T15	6030400650	10	1700
NS6 X8	6030300186	10	1700	NS6.4 +RC...T15-A	6030400790	10	1700
NS6 X9	6030300187	10	1700	NS6.4 0SCR	6030400588	10	1700
NS6 XVL....PHC	6030300109	10	1700	NS6.4 1 +10+	6030400585	10	1700
NS6 Y	6030300130	10	1700	NS6.4 1.....5	6030400106	10	1700
NS6 Z.DN	6030300371	10	1700	NS6.4 1.....2	6030400647	10	1700
NS6 Z.UP	6030300372	10	1700	NS6.4 1.....244	6030400177	10	1700
NS6 ZQ2112	6030300275	10	1700	NS6.4 1.....TH	6030400642	10	1700
NS6.4	6030400097	10	1700	NS6.4 1....19	6030400283	10	1700
NS6.4 ...+10...+1	6030400748	10	1700	NS6.4 1.3.5.7.9	6030400243	10	1700
NS6.4 ...+16...+11	6030400749	10	1700	NS6.4 1...10-A	6030400781	10	1700
NS6.4 ...115...125	6030400779	10	1700	NS6.4 10,10	6030400038	10	1700
NS6.4 ...16...11	6030400747	10	1700	NS6.4 -10...-1	6030400745	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6.4 100.....24-A	6030400337	10	1700	NS6.4 16.16.16	6030400047	10	1700
NS6.4 100.....24-B	6030400341	10	1700	NS6.4 16...14	6030400786	10	1700
NS6.4 100.....24-C	6030400343	10	1700	NS6.4 161.....170	6030400302	10	1700
NS6.4 100....100	6030400705	10	1700	NS6.4 16N.16N	6030400369	10	1700
NS6.4 1001.....1050	6030400628	10	1700	NS6.4 16N.16N	6030400395	10	1700
NS6.4 1051.....1110	6030400629	10	1700	NS6.4 17.17.17	6030400049	10	1700
NS6.4 10N.10N	6030400363	10	1700	NS6.4 17N.17N	6030400370	10	1700
NS6.4 11-.....20-	6030400593	10	1700	NS6.4 17N.17N	6030400396	10	1700
NS6.4 11.....X1	6030400306	10	1700	NS6.4 18.18.18	6030400050	10	1700
NS6.4 11...304	6030400611	10	1700	NS6.4 18N.18N	6030400371	10	1700
NS6.4 11.13.15.17.19	6030400245	10	1700	NS6.4 18N.18N	6030400397	10	1700
NS6.4 11+.....20+	6030400592	10	1700	NS6.4 19.19.19	6030400051	10	1700
NS6.4 11...20-A	6030400782	10	1700	NS6.4 19N.19N	6030400372	10	1700
NS6.4 110	6030400164	10	1700	NS6.4 19N.19N	6030400398	10	1700
NS6.4 110.....CM2	6030400634	10	1700	NS6.4 1A.....10A	6030400589	10	1700
NS6.4 11-11-11	6030400037	10	1700	NS6.4 1A...10A	6030400766	10	1700
NS6.4 11A...20A	6030400767	10	1700	NS6.4 1B.....10B	6030400590	10	1700
NS6.4 11B...20B	6030400770	10	1700	NS6.4 1B...10B	6030400769	10	1700
NS6.4 11C...15C...	6030400773	10	1700	NS6.4 1C.....10C	6030400591	10	1700
NS6.4 11D...15D...	6030400775	10	1700	NS6.4 1C...10C	6030400772	10	1700
NS6.4 11L...20L	6030400758	10	1700	NS6.4 1D...10D	6030400774	10	1700
NS6.4 11N.11N	6030400364	10	1700	NS6.4 1E.....50E	6030400426	10	1700
NS6.4 11N...20N	6030400761	10	1700	NS6.4 1IC...8IC...	6030400754	10	1700
NS6.4 11PE...20PE	6030400764	10	1700	NS6.4 1IE...8IE...	6030400753	10	1700
NS6.4 12....X0	6030400108	10	1700	NS6.4 1L...10L	6030400757	10	1700
NS6.4 1-2...252	6030400292	10	1700	NS6.4 1M...8M...	6030400755	10	1700
NS6.4 12.14.16.18.20	6030400246	10	1700	NS6.4 1N.....50N	6030400424	10	1700
NS6.4 124...902	6030400777	10	1700	NS6.4 1N.1N	6030400354	10	1700
NS6.4 12N.12N	6030400365	10	1700	NS6.4 1N...10N	6030400760	10	1700
NS6.4 13.13.13	6030400040	10	1700	NS6.4 1PE...10PE	6030400763	10	1700
NS6.4 132.26.R.S	6030400317	10	1700	NS6.4 1u1.....-A	6030400696	10	1700
NS6.4 13N.13N	6030400366	10	1700	NS6.4 1U1....Y	6030400712	10	1700
NS6.4 14.14.14	6030400045	10	1700	NS6.4 1V1.....-A	6030400695	10	1700
NS6.4 146.79...R.S	6030400318	10	1700	NS6.4 1W1.....-A	6030400694	10	1700
NS6.4 14N.14N	6030400367	10	1700	NS6.4 2.....20	6030400287	10	1700
NS6.4 151.....160	6030400301	10	1700	NS6.4 2.4.6.8.10	6030400244	10	1700
NS6.4 152.132.133..N-B	6030400295	10	1700	NS6.4 20.20.20	6030400066	10	1700
NS6.4 152.132.133.42	6030400325	10	1700	NS6.4 20.....E	6030400618	10	1700
NS6.4 152.132.133.R	6030400326	10	1700	NS6.4 201.....X1	6030400638	10	1700
NS6.4 152.132.79..N-A	6030400294	10	1700	NS6.4 201-x1	6030400608	10	1700
NS6.4 152.132.79.42	6030400322	10	1700	NS6.4 20N.20N	6030400373	10	1700
NS6.4 152.132.79.6	6030400321	10	1700	NS6.4 20N.20N	6030400399	10	1700
NS6.4 152.....N	6030400621	10	1700	NS6.4 21....39	6030400284	10	1700
NS6.4 15N.15N	6030400368	10	1700	NS6.4 21.21.21	6030400067	10	1700
NS6.4 15N.15N	6030400394	10	1700	NS6.4 21.23.25.27.29	6030400247	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6.4 21A...30A	6030400768	10	1700	NS6.4 31N.31N	6030400384	10	1700
NS6.4 21B...30B	6030400771	10	1700	NS6.4 32	6030400419	10	1700
NS6.4 21L...30L	6030400759	10	1700	NS6.4 32.34.36.38.40	6030400250	10	1700
NS6.4 21N.21N	6030400374	10	1700	NS6.4 32...E	6030400776	10	1700
NS6.4 21N...30N	6030400762	10	1700	NS6.4 32N.32N	6030400385	10	1700
NS6.4 21PE...30PE	6030400765	10	1700	NS6.4 33	6030400420	10	1700
NS6.4 22.....40	6030400288	10	1700	NS6.4 33N.33N	6030400386	10	1700
NS6.4 22.22.22	6030400068	10	1700	NS6.4 34	6030400430	10	1700
NS6.4 22.24.26.28.30	6030400248	10	1700	NS6.4 34N.34N	6030400387	10	1700
NS6.4 22N.22N	6030400375	10	1700	NS6.4 35	6030400431	10	1700
NS6.4 23.23.23	6030400078	10	1700	NS6.4 35N.35N	6030400388	10	1700
NS6.4 23N.23N	6030400376	10	1700	NS6.4 36	6030400432	10	1700
NS6.4 24.....C6	6030400345	10	1700	NS6.4 36N.36N	6030400389	10	1700
NS6.4 24.24.24	6030400090	10	1700	NS6.4 37	6030400433	10	1700
NS6.4 24N.24N	6030400377	10	1700	NS6.4 37N.37N	6030400390	10	1700
NS6.4 24V.24V	6030400423	10	1700	NS6.4 38	6030400434	10	1700
NS6.4 25.25.25	6030400092	10	1700	NS6.4 38.....ERTH	6030400400	10	1700
NS6.4 251.....344	6030400178	10	1700	NS6.4 38N.38N	6030400391	10	1700
NS6.4 253.....344	6030400293	10	1700	NS6.4 39	6030400435	10	1700
NS6.4 25N.25N	6030400378	10	1700	NS6.4 39N.39N	6030400392	10	1700
NS6.4 26.26.26	6030400100	10	1700	NS6.4 3N.3N	6030400356	10	1700
NS6.4 26.27.....RST	6030400316	10	1700	NS6.4 40	6030400436	10	1700
NS6.4 26.....E	6030400620	10	1700	NS6.4 400	6030400166	10	1700
NS6.4 26.....E-A	6030400622	10	1700	NS6.4 400A	6030400167	10	1700
NS6.4 26N.26N	6030400379	10	1700	NS6.4 401	6030400165	10	1700
NS6.4 27.....60	6030400053	10	1700	NS6.4 402	6030400168	10	1700
NS6.4 27.27.27	6030400101	10	1700	NS6.4 403.....-B	6030400282	10	1700
NS6.4 274.....893-B	6030400214	10	1700	NS6.4 403.....-A	6030400169	10	1700
NS6.4 27N.27N	6030400380	10	1700	NS6.4 404	6030400170	10	1700
NS6.4 28.....89	6030400654	10	1700	NS6.4 40N.40N	6030400393	10	1700
NS6.4 28.28.28	6030400102	10	1700	NS6.4 41	6030400437	10	1700
NS6.4 28N.28N	6030400381	10	1700	NS6.4 41.....59	6030400285	10	1700
NS6.4 29.29.29	6030400103	10	1700	NS6.4 41.43.45.47.49	6030400251	10	1700
NS6.4 29N.29N	6030400382	10	1700	NS6.4 410.....-A	6030400171	10	1700
NS6.4 2N.2N	6030400355	10	1700	NS6.4 410.....-B	6030400281	10	1700
NS6.4 2u1.....-A	6030400690	10	1700	NS6.4 411	6030400173	10	1700
NS6.4 2u2.....-A	6030400693	10	1700	NS6.4 419	6030400151	10	1700
NS6.4 2V1.....-A	6030400689	10	1700	NS6.4 419.....404	6030400123	10	1700
NS6.4 2V2.....-A	6030400692	10	1700	NS6.4 419A	6030400162	10	1700
NS6.4 2W1.....-A	6030400688	10	1700	NS6.4 42	6030400438	10	1700
NS6.4 2W2.....-A	6030400691	10	1700	NS6.4 42.....60	6030400289	10	1700
NS6.4 30.30.30	6030400104	10	1700	NS6.4 42.44.46.48.50	6030400252	10	1700
NS6.4 30N.30N	6030400383	10	1700	NS6.4 420	6030400163	10	1700
NS6.4 31	6030400409	10	1700	NS6.4 43	6030400439	10	1700
NS6.4 31.33.35.37.39	6030400249	10	1700	NS6.4 44	6030400440	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6.4 44.....W	6030400228	10	1700	NS6.4 72.....96	6030400655	10	1700
NS6.4 45	6030400441	10	1700	NS6.4 72.74.76.78.80	6030400258	10	1700
NS6.4 46	6030400442	10	1700	NS6.4 73	6030400469	10	1700
NS6.4 47	6030400443	10	1700	NS6.4 74	6030400470	10	1700
NS6.4 47.....O	6030400149	10	1700	NS6.4 75	6030400471	10	1700
NS6.4 48	6030400444	10	1700	NS6.4 76	6030400472	10	1700
NS6.4 49	6030400445	10	1700	NS6.4 77	6030400473	10	1700
NS6.4 4N.4N	6030400357	10	1700	NS6.4 78	6030400474	10	1700
NS6.4 50	6030400446	10	1700	NS6.4 79	6030400475	10	1700
NS6.4 51	6030400447	10	1700	NS6.4 7N.7N	6030400360	10	1700
NS6.4 51.....MPD	6030400332	10	1700	NS6.4 80	6030400476	10	1700
NS6.4 51.53.55.57.59	6030400253	10	1700	NS6.4 80.....CRV	6030400331	10	1700
NS6.4 51E.....60E	6030400427	10	1700	NS6.4 80.....PI	6030400234	10	1700
NS6.4 51N.....60N	6030400425	10	1700	NS6.4 80.....K30	6030400230	10	1700
NS6.4 52	6030400448	10	1700	NS6.4 80.....K30	6030400233	10	1700
NS6.4 52.54.56.58.60	6030400254	10	1700	NS6.4 80.....VO-A	6030400094	10	1700
NS6.4 53	6030400449	10	1700	NS6.4 80....VO-B	6030400008	10	1700
NS6.4 54	6030400450	10	1700	NS6.4 81	6030400477	10	1700
NS6.4 55	6030400451	10	1700	NS6.4 81.....44	6030400637	10	1700
NS6.4 56	6030400452	10	1700	NS6.4 81.....89	6030400678	10	1700
NS6.4 57	6030400453	10	1700	NS6.4 81.....LF2	6030400154	10	1700
NS6.4 58	6030400454	10	1700	NS6.4 81.....95	6030400098	10	1700
NS6.4 59	6030400455	10	1700	NS6.4 81.83.85.87.89	6030400259	10	1700
NS6.4 5N.5N	6030400358	10	1700	NS6.4 82	6030400478	10	1700
NS6.4 60	6030400456	10	1700	NS6.4 82.84.86.88.90	6030400260	10	1700
NS6.4 60.....145	6030400298	10	1700	NS6.4 83	6030400479	10	1700
NS6.4 61	6030400457	10	1700	NS6.4 84	6030400480	10	1700
NS6.4 61.....79	6030400286	10	1700	NS6.4 85	6030400481	10	1700
NS6.4 61.63.65.67.69	6030400255	10	1700	NS6.4 86	6030400482	10	1700
NS6.4 62	6030400458	10	1700	NS6.4 87	6030400483	10	1700
NS6.4 62....80	6030400290	10	1700	NS6.4 870....x3	6030400176	10	1700
NS6.4 62.64.66.68.70	6030400256	10	1700	NS6.4 870...X3-B	6030400291	10	1700
NS6.4 63	6030400459	10	1700	NS6.4 870.....X3-C	6030400625	10	1700
NS6.4 64	6030400460	10	1700	NS6.4 870...X3	6030400778	10	1700
NS6.4 65	6030400461	10	1700	NS6.4 88	6030400484	10	1700
NS6.4 66	6030400462	10	1700	NS6.4 89	6030400485	10	1700
NS6.4 67	6030400463	10	1700	NS6.4 8N.8N	6030400361	10	1700
NS6.4 68	6030400464	10	1700	NS6.4 9.....ERTH	6030400347	10	1700
NS6.4 68....G22	6030400175	10	1700	NS6.4 9.....EARTH-F	6030400406	10	1700
NS6.4 69	6030400465	10	1700	NS6.4 9.....ERTH	6030400683	10	1700
NS6.4 6N.6N	6030400359	10	1700	NS6.4 9.13.5.....-A	6030400136	10	1700
NS6.4 70	6030400466	10	1700	NS6.4 9.13.5.....-B	6030400180	10	1700
NS6.4 71	6030400467	10	1700	NS6.4 9.13.5.....-C	6030400179	10	1700
NS6.4 71.73.75.77.79	6030400257	10	1700	NS6.4 9.13.5.....-D	6030400191	10	1700
NS6.4 72	6030400468	10	1700	NS6.4 9.13.5.....-E	6030400192	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6.4 90	6030400486	10	1700	NS6.4 CL	6030400217	10	1700
NS6.4 901.....950	6030400626	10	1700	NS6.4 CM.....G220	6030400336	10	1700
NS6.4 902.....124	6030400670	10	1700	NS6.4 CM.CM	6030400418	10	1700
NS6.4 902.....124-B	6030400215	10	1700	NS6.4 CM2.....2	6030400333	10	1700
NS6.4 91.93.95.97.99	6030400261	10	1700	NS6.4 CM2.....14	6030400330	10	1700
NS6.4 92.94.96.98.100	6030400262	10	1700	NS6.4 CO1.....24V	6030400344	10	1700
NS6.4 951.....1000	6030400627	10	1700	NS6.4 CO1.....MP	6030400338	10	1700
NS6.4 99.97.75	6030400324	10	1700	NS6.4 CO1.....V1	6030400342	10	1700
NS6.4 99.....U1	6030400619	10	1700	NS6.4 COM	6030400218	10	1700
NS6.4 999	6030400034	10	1700	NS6.4 COM.....T7	6030400120	10	1700
NS6.4 9N.9N	6030400362	10	1700	NS6.4 CRV....69-A	6030400267	10	1700
NS6.4 A	6030400349	10	1700	NS6.4 CRV....69-B	6030400095	10	1700
NS6.4 A.....CM1	6030400660	10	1700	NS6.4 D.....NO1	6030400664	10	1700
NS6.4 A.....MD	6030400659	10	1700	NS6.4 DC6...BT24	6030400300	10	1700
NS6.4 A....LO	6030400667	10	1700	NS6.4 Diode	6030400303	10	1700
NS6.4 A....MD	6030400736	10	1700	NS6.4 DO	6030400210	10	1700
NS6.4 A.B.C.D.E	6030400107	10	1700	NS6.4 E.....N	6030400297	10	1700
NS6.4 A.....X19	6030400630	10	1700	NS6.4 E.N.....20	6030400143	10	1700
NS6.4 AB.....25	6030400122	10	1700	NS6.4 E.N.....W	6030400146	10	1700
NS6.4 AL.AL	6030400421	10	1700	NS6.4 E.N....E	6030400142	10	1700
NS6.4 B-.B-	6030400411	10	1700	NS6.4 E.....U1	6030400616	10	1700
NS6.4 B+.....Nu	6030400645	10	1700	NS6.4 EAN....	6030400607	10	1700
NS6.4 B+.B+	6030400410	10	1700	NS6.4 EMR.EMR	6030400422	10	1700
NS6.4 B...W..	6030400733	10	1700	NS6.4 erth...Fn1	6030400723	10	1700
NS6.4 B1.....B4	6030400314	10	1700	NS6.4 erth...Fn1..erth	6030400722	10	1700
NS6.4 B1...W1..	6030400732	10	1700	NS6.4 erth...Fn1-A	6030400737	10	1700
NS6.4 B2.R2.W2...B2	6030400784	10	1700	NS6.4 erth...T15	6030400793	10	1700
NS6.4 BG.....24b	6030400405	10	1700	NS6.4 erth...UPSR	6030400724	10	1700
NS6.4 BR-	6030400208	10	1700	NS6.4 erth...UPSR..	6030400743	10	1700
NS6.4 BR+	6030400207	10	1700	NS6.4 FN1.FN2.FN3	6030400024	10	1700
NS6.4 BR-.....Fn1	6030400652	10	1700	NS6.4 G.....+AL	6030400601	10	1700
NS6.4 -BR.....Fn1	6030400666	10	1700	NS6.4 -GL.....+GL	6030400671	10	1700
NS6.4 BR-.....Mu	6030400653	10	1700	NS6.4 GL.....RS-	6030400635	10	1700
NS6.4 BR-.....110	6030400641	10	1700	NS6.4 -GL....GND	6030400685	10	1700
NS6.4 BR-...R1	6030400735	10	1700	NS6.4 GND	6030400268	10	1700
NS6.4 BT+.....N	6030400714	10	1700	NS6.4 H8.....TP4	6030400021	10	1700
NS6.4 BT+.....W0-B	6030400096	10	1700	NS6.4 H8....MPC	6030400174	10	1700
NS6.4 BT+.....W0-C	6030400016	10	1700	NS6.4 H9...G220	6030400161	10	1700
NS6.4 BT+.....W0-A	6030400266	10	1700	NS6.4 L.....T2	6030400643	10	1700
NS6.4 C	6030400350	10	1700	NS6.4 L.....-A	6030400687	10	1700
NS6.4 C1.....D25	6030400313	10	1700	NS6.4 L1.....AL	6030400651	10	1700
NS6.4 C7.....MP	6030400346	10	1700	NS6.4 L1.....L2	6030400307	10	1700
NS6.4 C8.....Lu	6030400646	10	1700	NS6.4 L1....CFD	6030400308	10	1700
NS6.4 C9.....SP2	6030400403	10	1700	NS6.4 L2...-RC	6030400792	10	1700
NS6.4 CFU...CFD	6030400147	10	1700	NS6.4 L2...STM	6030400742	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6.4 L3	6030400348	10	1700	NS6.4 P2.....-A	6030400698	10	1700
NS6.4 L3.....1	6030400401	10	1700	NS6.4 PE...PE-A	6030400663	10	1700
NS6.4 L3.....C8	6030400402	10	1700	NS6.4 PI1....77	6030400309	10	1700
NS6.4 L3.....LAP1	6030400150	10	1700	NS6.4 PR....PRE	6030400311	10	1700
NS6.4 L3.....43	6030400227	10	1700	NS6.4 PSW....MU	6030400684	10	1700
NS6.4 L3.....OVL	6030400328	10	1700	NS6.4 PSW....MU-A	6030400710	10	1700
NS6.4 L4...L4	6030400783	10	1700	NS6.4 PW2.....PW1	6030400699	10	1700
NS6.4 L5.....MP	6030400656	10	1700	NS6.4 R.....T	6030400296	10	1700
NS6.4 L5...B2	6030400609	10	1700	NS6.4 R.....24B	6030400404	10	1700
NS6.4 L5.L5	6030400413	10	1700	NS6.4 R.....D10B	6030400312	10	1700
NS6.4 L5.....MP-A	6030400738	10	1700	NS6.4 R.....W4	6030400310	10	1700
NS6.4 L6.....46	6030400148	10	1700	NS6.4 R....N-A	6030400632	10	1700
NS6.4 L6.L6	6030400414	10	1700	NS6.4 R....S...CFD	6030400124	10	1700
NS6.4 LF2.....SP2	6030400153	10	1700	NS6.4 R.76.75	6030400323	10	1700
NS6.4 -LP.....EA1	6030400606	10	1700	NS6.4 R.S.T....75	6030400315	10	1700
NS6.4 MD.....MU	6030400665	10	1700	NS6.4 R.....N	6030400617	10	1700
NS6.4 MD.....R1	6030400669	10	1700	NS6.4 R.....Y19	6030400631	10	1700
NS6.4 MP	6030400190	10	1700	NS6.4 R1.....N	6030400636	10	1700
NS6.4 MP -.....	6030400352	10	1700	NS6.4 R3.....+GL	6030400702	10	1700
NS6.4 MP.....LO	6030400657	10	1700	NS6.4 R3...R1	6030400711	10	1700
NS6.4 MP.....W	6030400280	10	1700	NS6.4 RI.RI	6030400408	10	1700
NS6.4 MP.....C15	6030400351	10	1700	NS6.4 RI...B-	6030400728	10	1700
NS6.4 MP.....LA2	6030400335	10	1700	NS6.4 RI...S1	6030400729	10	1700
NS6.4 MP.....LAP2	6030400229	10	1700	NS6.4 RL.....G-B	6030400334	10	1700
NS6.4 MP...LAZ	6030400160	10	1700	NS6.4 RL.....G-A	6030400159	10	1700
NS6.4 MP...B+	6030400612	10	1700	NS6.4 RL.....LF1	6030400152	10	1700
NS6.4 MP... 1	6030400602	10	1700	NS6.4 RS1...DC5	6030400299	10	1700
NS6.4 MP.....F	6030400600	10	1700	NS6.4 RST.....MP	6030400327	10	1700
NS6.4 MPO.MPO	6030400412	10	1700	NS6.4 S1...S2	6030400785	10	1700
NS6.4 MU.....MD	6030400682	10	1700	NS6.4 SN	6030400213	10	1700
NS6.4 MU.....N	6030400709	10	1700	NS6.4 SP	6030400209	10	1700
NS6.4 NC	6030400236	10	1700	NS6.4 SP...SP-A	6030400789	10	1700
NS6.4 NO	6030400219	10	1700	NS6.4 SP1.....20	6030400028	10	1700
NS6.4 O	6030400407	10	1700	NS6.4 SP1...V2-B	6030400027	10	1700
NS6.4 O.O	6030400417	10	1700	NS6.4 ST.....23	6030400155	10	1700
NS6.4 o1.o1	6030400426	10	1700	NS6.4 ST1...ST1	6030400613	10	1700
NS6.4 o2.o2	6030400429	10	1700	NS6.4 STM....	6030400780	10	1700
NS6.4 OL	6030400216	10	1700	NS6.4 STM...L1	6030400791	10	1700
NS6.4 ON.ON	6030400353	10	1700	NS6.4 T	6030400212	10	1700
NS6.4 OOS.....SP2	6030400329	10	1700	NS6.4 T1.....L	6030400648	10	1700
NS6.4 OVL	6030400211	10	1700	NS6.4 T1....T13	6030400232	10	1700
NS6.4 P1	6030400237	10	1700	NS6.4 T1.T2....T1	6030400235	10	1700
NS6.4 P1.....-A	6030400697	10	1700	NS6.4 T1...T1	6030400615	10	1700
NS6.4 P1.P2	6030400025	10	1700	NS6.4 T10	6030400241	10	1700
NS6.4 P2	6030400238	10	1700	NS6.4 T11	6030400242	10	1700



Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6.4 T11....T12	6030400730	10	1700	NS6.4ND....-BR...Fn1	6030400706	10	1700
NS6.4 T11....T15	6030400605	10	1700	NS6.4NO....NC2	6030400681	10	1700
NS6.4 T14....-RC	6030400794	10	1700	NS6.4Nu.....9	6030400639	10	1700
NS6.4 T16.....MP	6030400644	10	1700	NS6.4V 200	6030400624	10	1700
NS6.4 T16.....B2	6030400640	10	1700	NS6/4EARTH	6030400072	10	1700
NS6.4 T16...Fn1	6030400740	10	1700	NS6/4 -.AL.....O2	6030400598	10	1700
NS6.4 T16...RL..Fn1	6030400744	10	1700	NS6/4 0....9	6030400035	10	1700
NS6.4 T17....COM	6030400734	10	1700	NS6/4 000	6030400105	10	1700
NS6.4 T2.....B	6030400649	10	1700	NS6/4 1 -10	6030400586	10	1700
NS6.4 T2...T2	6030400614	10	1700	NS6/4 1,2,3,N,Y,B	6030400189	10	1700
NS6.4 T3.....T3	6030400668	10	1700	NS6/4 1....10	6030400042	10	1700
NS6.4 T7	6030400239	10	1700	NS6/4 1....50	6030400054	10	1700
NS6.4 T7....L2-A	6030400741	10	1700	NS6/4 10....500	6030400172	10	1700
NS6.4 T7...L2	6030400725	10	1700	NS6/4 101....110	6030400061	10	1700
NS6.4 T7...L2...	6030400726	10	1700	NS6/4 101....150	6030400140	10	1700
NS6.4 T8	6030400240	10	1700	NS6/4 10SCR....100SCR	6030400587	10	1700
NS6.4 TP3.....P	6030400023	10	1700	NS6/4 11....15	6030400043	10	1700
NS6.4 U.V.W...U	6030400788	10	1700	NS6/4 11....20	6030400046	10	1700
NS6.4 U1....W1	6030400704	10	1700	NS6/4 11....234	6030400069	10	1700
NS6.4 U2.....ERT	6030400703	10	1700	NS6/4 110SCR....200SCR	6030400594	10	1700
NS6.4 UL1.....MPO	6030400658	10	1700	NS6/4 111	6030400002	10	1700
NS6.4 UL1.....MPO-A	6030400727	10	1700	NS6/4 111....120	6030400062	10	1700
NS6.4 UR-UR-.....	6030400416	10	1700	NS6/4 11SCR....20SCR	6030400596	10	1700
NS6.4 UR+UR+.....	6030400415	10	1700	NS6/4 12....264	6030400036	10	1700
NS6.4 V48.....COM	6030400032	10	1700	NS6/4 121....130	6030400063	10	1700
NS6.4 V48.....C2	6030400031	10	1700	NS6/4 125....167	6030400198	10	1700
NS6.4 v6.....CF	6030400110	10	1700	NS6/4 131....140	6030400064	10	1700
NS6.4 VL....GND	6030400033	10	1700	NS6/4 141....150	6030400065	10	1700
NS6.4 W.V.V1.U1	6030400320	10	1700	NS6/4 15,15	6030400041	10	1700
NS6.4 W1...U1..	6030400731	10	1700	NS6/4 151....200	6030400111	10	1700
NS6.4 White	6030400001	10	1700	NS6/4 16....20	6030400044	10	1700
NS6.4 X..X	6030400156	10	1700	NS6/4 19....EARTH	6030400597	10	1700
NS6.4 X2...X2	6030400633	10	1700	NS6/4 1C....ASH	6030400226	10	1700
NS6.4 Z.Z	6030400157	10	1700	NS6/4 1CF....VLL	6030400131	10	1700
NS6.4L1.....L10	6030400305	10	1700	NS6/4 1N....30N	6030400490	10	1700
NS6.4N.....19	6030400141	10	1700	NS6/4 1R....30R	6030400488	10	1700
NS6.4N.....-A	6030400686	10	1700	NS6/4 1S....30S	6030400487	10	1700
NS6.4N.....Earth	6030400231	10	1700	NS6/4 1SCR....10SCR	6030400595	10	1700
NS6.4N.20.....6	6030400144	10	1700	NS6/4 1T....30T	6030400489	10	1700
NS6.4N.26.....E	6030400145	10	1700	NS6/4 1U	6030400129	10	1700
NS6.4N.26.E.154	6030400319	10	1700	NS6/4 1V	6030400134	10	1700
NS6.4N1.....N10	6030400304	10	1700	NS6/4 1W	6030400137	10	1700
NS6.4ND....	6030400680	10	1700	NS6/4 201....250	6030400114	10	1700
NS6.4ND....Fn1	6030400700	10	1700	NS6/4 21....25	6030400048	10	1700
NS6.4ND...+BR...Fn1	6030400715	10	1700	NS6/4 21....30	6030400082	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6/4 222	6030400006	10	1700	NS6/4 751....800	6030400204	10	1700
NS6/4 241....294	6030400015	10	1700	NS6/4 76....80	6030400085	10	1700
NS6/4 251....300	6030400115	10	1700	NS6/4 777	6030400026	10	1700
NS6/4 254....283	6030400112	10	1700	NS6/4 80....CCA	6030400071	10	1700
NS6/4 26....30	6030400052	10	1700	NS6/4 801....850	6030400205	10	1700
NS6/4 271....344	6030400194	10	1700	NS6/4 81....85	6030400087	10	1700
NS6/4 274....893	6030400196	10	1700	NS6/4 81....90	6030400059	10	1700
NS6/4 2U	6030400130	10	1700	NS6/4 84....53	6030400099	10	1700
NS6/4 2V	6030400182	10	1700	NS6/4 851....900	6030400206	10	1700
NS6/4 2W	6030400138	10	1700	NS6/4 86....90	6030400088	10	1700
NS6/4 301....350	6030400116	10	1700	NS6/4 888	6030400030	10	1700
NS6/4 31....35	6030400158	10	1700	NS6/4 902....124	6030400197	10	1700
NS6/4 31....40	6030400086	10	1700	NS6/4 91....100	6030400060	10	1700
NS6/4 333	6030400010	10	1700	NS6/4 91....95	6030400089	10	1700
NS6/4 351....400	6030400117	10	1700	NS6/4 96....100	6030400091	10	1700
NS6/4 36....40	6030400075	10	1700	NS6/4 A,B,L	6030400011	10	1700
NS6/4 3U	6030400183	10	1700	NS6/4 ABC....X	6030400263	10	1700
NS6/4 3V	6030400186	10	1700	NS6/4 ABC....Z	6030400128	10	1700
NS6/4 3W	6030400181	10	1700	NS6/4 ADR....D9B	6030400278	10	1700
NS6/4 401....450	6030400118	10	1700	NS6/4 ALM....CM	6030400125	10	1700
NS6/4 41....45	6030400076	10	1700	NS6/4 B,B	6030400135	10	1700
NS6/4 41....50	6030400058	10	1700	NS6/4 C5....UDL	6030400274	10	1700
NS6/4 444	6030400014	10	1700	NS6/4 CA1....V3	6030400271	10	1700
NS6/4 451....500	6030400119	10	1700	NS6/4 CM.....B1	6030400340	10	1700
NS6/4 46....50	6030400077	10	1700	NS6/4 CRV....71	6030400012	10	1700
NS6/4 501....550	6030400199	10	1700	NS6/4 CRV....ECN	6030400264	10	1700
NS6/4 51....100	6030400109	10	1700	NS6/4 D....C4	6030400273	10	1700
NS6/4 51....55	6030400079	10	1700	NS6/4 D7....OVR	6030400270	10	1700
NS6/4 51....60	6030400055	10	1700	NS6/4 D9....U10	6030400276	10	1700
NS6/4 551....600	6030400200	10	1700	NS6/4 DC1....80	6030400127	10	1700
NS6/4 555	6030400018	10	1700	NS6/4 DD9....W0	6030400221	10	1700
NS6/4 56....60	6030400080	10	1700	NS6/4 EC1....L5D	6030400265	10	1700
NS6/4 601....650	6030400201	10	1700	NS6/4 G	6030400584	10	1700
NS6/4 61....65	6030400081	10	1700	NS6/4 L	6030400184	10	1700
NS6/4 61....70	6030400056	10	1700	NS6/4 L,L....B	6030400007	10	1700
NS6/4 651....700	6030400202	10	1700	NS6/4 L1,L2,L3	6030400222	10	1700
NS6/4 66....1	6030400013	10	1700	NS6/4 L1....L1	6030400582	10	1700
NS6/4 66....70	6030400083	10	1700	NS6/4 L1L2....N	6030400133	10	1700
NS6/4 666	6030400022	10	1700	NS6/4 L2....L2	6030400583	10	1700
NS6/4 68....L5D	6030400269	10	1700	NS6/4 L3....D6	6030400223	10	1700
NS6/4 68....T	6030400279	10	1700	NS6/4 LMP....,-22	6030400220	10	1700
NS6/4 70,71,132	6030400009	10	1700	NS6/4 LPE	6030400121	10	1700
NS6/4 701....750	6030400203	10	1700	NS6/4 PE,PE	6030400139	10	1700
NS6/4 71....75	6030400084	10	1700	NS6/4 R	6030400188	10	1700
NS6/4 71....80	6030400057	10	1700	NS6/4 REV.....D	6030400581	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6/4 RS1.....O	6030400339	10	1700	NS6/4 v12.v12	6030400502	10	1700
NS6/4 RSTN	6030400113	10	1700	NS6/4 v13.v13	6030400503	10	1700
NS6/4 SP1.....S2	6030400003	10	1700	NS6/4 v14.v14	6030400504	10	1700
NS6/4 SP1.....V2-A	6030400029	10	1700	NS6/4 v15.v15	6030400505	10	1700
NS6/4 SP1.....W6	6030400073	10	1700	NS6/4 v16.v16	6030400506	10	1700
NS6/4 T1.....T10	6030400599	10	1700	NS6/4 v17.v17	6030400507	10	1700
NS6/4 U1.....MP	6030400019	10	1700	NS6/4 v18.v18	6030400508	10	1700
NS6/4 u1.u1	6030400521	10	1700	NS6/4 v19.v19	6030400509	10	1700
NS6/4 u10.u10	6030400530	10	1700	NS6/4 v2.v2	6030400492	10	1700
NS6/4 U11.....57C	6030400277	10	1700	NS6/4 v20.v20	6030400510	10	1700
NS6/4 u11.u11	6030400531	10	1700	NS6/4 v21.v21	6030400511	10	1700
NS6/4 u12.u12	6030400532	10	1700	NS6/4 v22.v22	6030400512	10	1700
NS6/4 u13.u13	6030400533	10	1700	NS6/4 v23.v23	6030400513	10	1700
NS6/4 u14.u14	6030400534	10	1700	NS6/4 v24.v24	6030400514	10	1700
NS6/4 u15.u15	6030400535	10	1700	NS6/4 v25.v25	6030400515	10	1700
NS6/4 u16.u16	6030400536	10	1700	NS6/4 v26.v26	6030400516	10	1700
NS6/4 u17.u17	6030400537	10	1700	NS6/4 v27.v27	6030400517	10	1700
NS6/4 u18.u18	6030400538	10	1700	NS6/4 v28.v28	6030400518	10	1700
NS6/4 u19.u19	6030400539	10	1700	NS6/4 v29.v29	6030400519	10	1700
NS6/4 u2.u2	6030400522	10	1700	NS6/4 v3.v3	6030400493	10	1700
NS6/4 u20.u20	6030400540	10	1700	NS6/4 v30.v30	6030400520	10	1700
NS6/4 u21.u21	6030400541	10	1700	NS6/4 v4.v4	6030400494	10	1700
NS6/4 u22.u22	6030400542	10	1700	NS6/4 V48....CMA	6030400224	10	1700
NS6/4 u23.u23	6030400543	10	1700	NS6/4 V48....DS2	6030400005	10	1700
NS6/4 u24.u24	6030400544	10	1700	NS6/4 V48....S1	6030400004	10	1700
NS6/4 u25.u25	6030400545	10	1700	NS6/4 V48....SR2	6030400225	10	1700
NS6/4 u26.u26	6030400546	10	1700	NS6/4 v5.v5	6030400495	10	1700
NS6/4 u27.u27	6030400547	10	1700	NS6/4 v6.v6	6030400496	10	1700
NS6/4 u28.u28	6030400548	10	1700	NS6/4 v7.v7	6030400497	10	1700
NS6/4 u29.u298	6030400549	10	1700	NS6/4 v8.v8	6030400498	10	1700
NS6/4 u3.u3	6030400523	10	1700	NS6/4 v9.v9	6030400499	10	1700
NS6/4 u30.u30	6030400550	10	1700	NS6/4 VLL....V0	6030400126	10	1700
NS6/4 u4.u4	6030400524	10	1700	NS6/4 w1.w1	6030400551	10	1700
NS6/4 u5.u5	6030400525	10	1700	NS6/4 w10.w10	6030400560	10	1700
NS6/4 u6.u6	6030400526	10	1700	NS6/4 w11.w11	6030400561	10	1700
NS6/4 u7.u7	6030400527	10	1700	NS6/4 w12.w12	6030400562	10	1700
NS6/4 u8.u8	6030400528	10	1700	NS6/4 w13.w13	6030400563	10	1700
NS6/4 u9.u9	6030400529	10	1700	NS6/4 w14.w14	6030400564	10	1700
NS6/4 UL....C	6030400275	10	1700	NS6/4 w15.w15	6030400565	10	1700
NS6/4 UVW	6030400132	10	1700	NS6/4 w16.w16	6030400566	10	1700
NS6/4 UVW....MP	6030400017	10	1700	NS6/4 w17.w17	6030400567	10	1700
NS6/4 UVWN	6030400070	10	1700	NS6/4 w18.w18	6030400568	10	1700
NS6/4 v1.v1	6030400491	10	1700	NS6/4 w19.w19	6030400569	10	1700
NS6/4 v10.v10	6030400500	10	1700	NS6/4 w2.w2	6030400552	10	1700
NS6/4 v11.v11	6030400501	10	1700	NS6/4 w20.w20	6030400570	10	1700

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS6/4 w21.w21	6030400571	10	1700	NS8 1U1,1V1,1W1	6030500158	10	1500
NS6/4 w22.w22	6030400572	10	1700	NS8 1U2,1V2,1W2	6030500166	10	1500
NS6/4 w23.w23	6030400573	10	1700	NS8 1V	6030500113	10	1500
NS6/4 w24.w24	6030400574	10	1700	NS8 1W	6030500116	10	1500
NS6/4 w25.w25	6030400575	10	1700	NS8 222	6030500006	10	1500
NS6/4 w26.w26	6030400576	10	1700	NS8 2U	6030500109	10	1500
NS6/4 w27.w27	6030400577	10	1700	NS8 2U1,2V1,2W1	6030500167	10	1500
NS6/4 w28.w28	6030400578	10	1700	NS8 2U2,2V2,2W2	6030500159	10	1500
NS6/4 w29.w29	6030400579	10	1700	NS8 2V	6030500150	10	1500
NS6/4 W3...C	6030400272	10	1700	NS8 333	6030500010	10	1500
NS6/4 w3.w3	6030400553	10	1700	NS8 3U	6030500151	10	1500
NS6/4 w30.w30	6030400580	10	1700	NS8 3U1,3V1,3W1	6030500160	10	1500
NS6/4 w4.w4	6030400554	10	1700	NS8 3U2,3V2,3W2	6030500161	10	1500
NS6/4 w5.w5	6030400555	10	1700	NS8 3V	6030500154	10	1500
NS6/4 w6.w6	6030400556	10	1700	NS8 3W	6030500149	10	1500
NS6/4 w7.w7	6030400557	10	1700	NS8 465	6030500288	10	1500
NS6/4 w8.w8	6030400558	10	1700	NS8 4U1,4V1,4W1	6030500162	10	1500
NS6/4 w9.w9	6030400559	10	1700	NS8 4U2,4V2,4W2	6030500163	10	1500
NS6/4 X1....11	6030400193	10	1700	NS8 555	6030500017	10	1500
NS6/4 XO....273	6030400195	10	1700	NS8 5U1,5V1,5W1	6030500164	10	1500
NS6/4 Y	6030400187	10	1700	NS8 5U2,5V2,5W2	6030500165	10	1500
NS6/4N	6030400185	10	1700	NS8 666	6030500018	10	1500
NS6+21	6030300771	10	1700	NS8 6U1,6V1,6W1	6030500169	10	1500
NS6N -.....	6030300918	10	1700	NS8 6U2,6V2,6W2	6030500170	10	1500
NS6N.....-A	6030300596	10	1700	NS8 777	6030500019	10	1500
NS6-N1...N50	6030300447	10	1700	NS8 7U1,7V1,7W1	6030500171	10	1500
NS6N40.....N1	6030300474	10	1700	NS8 888	6030500020	10	1500
NS6NB.....O	6030300016	10	1700	NS8 893	6030500289	10	1500
NS6ND...T13	6030300962	10	1700	NS8 8U1,8V1,8W1	6030500172	10	1500
NS6ND...T13	6030301048	10	1700	NS8 999	6030500022	10	1500
NS6NO-1...1-A	6030300949	10	1700	NS8 9U1,9V1,9W1	6030500173	10	1500
NS8 .. 891...904C	6030500294	10	1500	NS8 BB	6030500114	10	1500
NS8 .. 907...65	6030500295	10	1500	NS8 ERTH	6030500003	10	1500
NS8 - MP.....BR	6030500261	10	1500	NS8 L	6030500152	10	1500
NS8 - RL.....B	6030500258	10	1500	NS8 L,P,E	6030500099	10	1500
NS8 ... 203A...904C	6030500287	10	1500	NS8 L1,L2,L3	6030500157	10	1500
NS8 ... 2W1...2U1	6030500290	10	1500	NS8 L1,L1,L1	6030500265	10	1500
NS8 ... 2W1...Y	6030500285	10	1500	NS8 L2,L2,L2	6030500266	10	1500
NS8 000	6030500085	10	1500	NS8 L3,L3,L3	6030500267	10	1500
NS8 1010	6030500026	10	1500	NS8 PE,PE	6030500118	10	1500
NS8 10U1,10V1,10W1	6030500174	10	1500	NS8 R	6030500117	10	1500
NS8 111	6030500002	10	1500	NS8 R,Y,B	6030500156	10	1500
NS8 11U1,11V1,11W1	6030500175	10	1500	NS8 RSTN	6030500092	10	1500
NS8 12U1,12V1,12W1	6030500176	10	1500	NS8 U3,U3,U3	6030500262	10	1500
NS8 1U	6030500021	10	1500	NS8 UVW	6030500093	10	1500

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS8 UVWN	6030500058	10	1500	NS8 116A	6030500260	10	1500
NS8 V3.V3.V3	6030500263	10	1500	NS8 12.14.16.18.20	6030500029	10	1500
NS8 W3.W3.W3	6030500264	10	1500	NS8 12.....12	6030500223	10	1500
NS8 X.Y.Z.X	6030500007	10	1500	NS8 121....130	6030500051	10	1500
NS8 X1.X1	6030500082	10	1500	NS8 13.....13	6030500224	10	1500
NS8 Y	6030500155	10	1500	NS8 131....140	6030500052	10	1500
NS8 M.M	6030500184	10	1500	NS8 14.....14	6030500225	10	1500
NS8 MP.MP	6030500187	10	1500	NS8 141....150	6030500053	10	1500
NS8 T.T	6030500186	10	1500	NS8 15.....15	6030500226	10	1500
NS8 E.E	6030500188	10	1500	NS8 151.....160	6030500280	10	1500
NS8 U.U	6030500189	10	1500	NS8 151....200	6030500120	10	1500
NS8 V.V	6030500190	10	1500	NS8 16...20	6030500032	10	1500
NS8 W.W	6030500191	10	1500	NS8 16...16	6030500300	10	1500
NS8 G	6030500198	10	1500	NS8 161.....170	6030500270	10	1500
NS8-+	6030500034	10	1500	NS8 17...17	6030500301	10	1500
NS8+++	6030500079	10	1500	NS8 171.....180	6030500271	10	1500
NS8--NS8	6030500080	10	1500	NS8 18...18	6030500302	10	1500
NS8444	6030500014	10	1500	NS8 181.....190	6030500272	10	1500
NS8N	6030500153	10	1500	NS8 19...19	6030500303	10	1500
NS8 + B-.....B	6030500255	10	1500	NS8 191.....200	6030500273	10	1500
NS8 + B1.....BT	6030500195	10	1500	NS8 1L1.1N1.2L1.2N1	6030500035	10	1500
NS8 + R1.....BT	6030500197	10	1500	NS8 1L1.2L1.3L1	6030500059	10	1500
NS8 + U.....BT	6030500196	10	1500	NS8 1L1.....1L1	6030500232	10	1500
NS8 + U1.....BT	6030500192	10	1500	NS8 1L2.....1L2	6030500233	10	1500
NS8 +..... R1	6030500269	10	1500	NS8 1L3.....1L3	6030500234	10	1500
NS8 +24.....+12	6030500208	10	1500	NS8 1N1.2N1.3N1	6030500060	10	1500
NS8 0...9	6030500023	10	1500	NS8 1U1....1V2	6030500095	10	1500
NS8 01.....04	6030500008	10	1500	NS8 1W2...2U2	6030500097	10	1500
NS8 1...10	6030500042	10	1500	NS8 2.4.6.8.10	6030500027	10	1500
NS8 1...50	6030500030	10	1500	NS8 20... 1...30	6030500293	10	1500
NS8 1.3.5.7.9	6030500025	10	1500	NS8 20...20	6030500304	10	1500
NS8 1...10-A	6030500307	10	1500	NS8 201.....210	6030500274	10	1500
NS8 10....1	6030500259	10	1500	NS8 201....250	6030500121	10	1500
NS8 10....500	6030500061	10	1500	NS8 209... 200...219	6030500291	10	1500
NS8 100.....T	6030500145	10	1500	NS8 21....25	6030500036	10	1500
NS8 100....+ BT	6030500115	10	1500	NS8 21....30	6030500069	10	1500
NS8 101....110	6030500049	10	1500	NS8 21...21	6030500308	10	1500
NS8 101....150	6030500119	10	1500	NS8 211.....220	6030500275	10	1500
NS8 10U2...10V2	6030500057	10	1500	NS8 211....X2	6030500084	10	1500
NS8 11....15	6030500031	10	1500	NS8 22...22	6030500309	10	1500
NS8 11...20	6030500065	10	1500	NS8 221.....230	6030500276	10	1500
NS8 11.13.15.17.19	6030500028	10	1500	NS8 23...23	6030500310	10	1500
NS8 11.....11	6030500222	10	1500	NS8 231.....240	6030500277	10	1500
NS8 110... 101...120	6030500292	10	1500	NS8 24...24	6030500311	10	1500
NS8 111....120	6030500050	10	1500	NS8 241.....250	6030500278	10	1500

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS8 241....294	6030500015	10	1500	NS8 71....80	6030500131	10	1500
NS8 25...25	6030500312	10	1500	NS8 76....80	6030500072	10	1500
NS8 251....300	6030500024	10	1500	NS8 7U2...7V2	6030500054	10	1500
NS8 26....30	6030500040	10	1500	NS8 801....850	6030500129	10	1500
NS8 26...26	6030500313	10	1500	NS8 81....85	6030500074	10	1500
NS8 27...27	6030500314	10	1500	NS8 81....90	6030500135	10	1500
NS8 28...28	6030500315	10	1500	NS8 86....90	6030500075	10	1500
NS8 283....887	6030500086	10	1500	NS8 870....274	6030500257	10	1500
NS8 29...29	6030500316	10	1500	NS8 870....274	6030500127	10	1500
NS8 2V2....3W1	6030500096	10	1500	NS8 870....274-B	6030500181	10	1500
NS8 2W	6030500141	10	1500	NS8 891.....894	6030500147	10	1500
NS8 30...30	6030500317	10	1500	NS8 891....T4	6030500124	10	1500
NS8 301....350	6030500016	10	1500	NS8 8U2....8V2	6030500055	10	1500
NS8 31....35	6030500048	10	1500	NS8 91....100	6030500139	10	1500
NS8 31....40	6030500073	10	1500	NS8 91....95	6030500076	10	1500
NS8 311....L6-A	6030500105	10	1500	NS8 96....100	6030500078	10	1500
NS8 311....L6-B	6030500103	10	1500	NS8 9U2....9V2	6030500056	10	1500
NS8 315....318	6030500182	10	1500	NS8 A.....LD	6030500200	10	1500
NS8 341.....X1	6030500227	10	1500	NS8 A.B.C.D.E	6030500033	10	1500
NS8 351....400	6030500087	10	1500	NS8 A201....A465	6030500106	10	1500
NS8 36....40	6030500062	10	1500	NS8 A500....601-A	6030500110	10	1500
NS8 3U2...3W2	6030500098	10	1500	NS8 A500....601-B	6030500101	10	1500
NS8 400....403-B	6030500004	10	1500	NS8 ABC....X	6030500107	10	1500
NS8 400....403-A	6030500132	10	1500	NS8 B1....W2	6030500185	10	1500
NS8 401....450	6030500088	10	1500	NS8 B314....A75	6030500102	10	1500
NS8 41....45	6030500063	10	1500	NS8 B65....B313	6030500100	10	1500
NS8 41....50	6030500077	10	1500	NS8 BG.....48	6030500045	10	1500
NS8 450.....Xc2	6030500043	10	1500	NS8 BT-.....ERT	6030500199	10	1500
NS8 450....788	6030500134	10	1500	NS8 BT+.....T	6030500179	10	1500
NS8 450....788-B	6030500137	10	1500	NS8 C1.....VL	6030500201	10	1500
NS8 450....789	6030500136	10	1500	NS8 C312...XB	6030500104	10	1500
NS8 450...X2	6030500138	10	1500	NS8 C312...XB-A	6030500216	10	1500
NS8 451....500	6030500133	10	1500	NS8 CM.....VL	6030500205	10	1500
NS8 46....50	6030500064	10	1500	NS8 FL.....CF3	6030500204	10	1500
NS8 51....100	6030500038	10	1500	NS8 H1.....VL	6030500202	10	1500
NS8 51....55	6030500066	10	1500	NS8 H1....MP2	6030500148	10	1500
NS8 51....60	6030500126	10	1500	NS8 L.N.E	6030500140	10	1500
NS8 56....60	6030500067	10	1500	NS8 L1.....EARTH	6030500256	10	1500
NS8 60.....8R	6030500206	10	1500	NS8 L5....EARTH	6030500207	10	1500
NS8 602....890	6030500111	10	1500	NS8 M1....M1	6030500237	10	1500
NS8 61....65	6030500068	10	1500	NS8 M2....M2	6030500238	10	1500
NS8 61....70	6030500130	10	1500	NS8 MP.R...MP	6030500089	10	1500
NS8 66....70	6030500070	10	1500	NS8 MP.....B2	6030500180	10	1500
NS8 701....750	6030500112	10	1500	NS8 MP.....W	6030500044	10	1500
NS8 71....75	6030500071	10	1500	NS8 MP.....U1	6030500013	10	1500



Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
NS8 MP....T	6030500253	10	1500	NS8 U2....U2	6030500242	10	1500
NS8 MP....W1	6030500005	10	1500	NS8 U2....W1	6030500297	10	1500
NS8 MP....W2	6030500251	10	1500	NS8 UPSN....UPSR	6030500319	10	1500
NS8 MP....W2-A	6030500299	10	1500	NS8 UPSR....N	6030500298	10	1500
NS8 MP....ERT	6030500214	10	1500	NS8 UPSR....N-A	6030500318	10	1500
NS8 MPD.....V2	6030500252	10	1500	NS8 UVW....MP	6030500094	10	1500
NS8 MPI.....100	6030500282	10	1500	NS8 V....V	6030500243	10	1500
NS8 O.....R2	6030500011	10	1500	NS8 V1....V1	6030500244	10	1500
NS8 P2....PH2	6030500122	10	1500	NS8 V2....V2	6030500245	10	1500
NS8 PE...PE-A	6030500306	10	1500	NS8 W....V1	6030500235	10	1500
NS8 R,Y....Y	6030500177	10	1500	NS8 W....W	6030500246	10	1500
NS8 R.....MPD	6030500209	10	1500	NS8 W/7U....W/8U	6030500125	10	1500
NS8 R.....N	6030500228	10	1500	NS8 W1.....U	6030500012	10	1500
NS8 R.....W2	6030500230	10	1500	NS8 W1....W1	6030500247	10	1500
NS8 R....W2	6030500142	10	1500	NS8 W2....W2	6030500248	10	1500
NS8 R1 -.....	6030500236	10	1500	NS8 White	6030500001	10	1500
NS8 R1.....ERT	6030500212	10	1500	NS8 X.X	6030500046	10	1500
NS8 R1.....R14	6030500210	10	1500	NS8 X0....745-A	6030500128	10	1500
NS8 RO.....MP	6030500037	10	1500	NS8 X0....X3	6030500108	10	1500
NS8 RV.....OV	6030500203	10	1500	NS8 X1.....601	6030500081	10	1500
NS8 S....S	6030500239	10	1500	NS8 xc....xc2	6030500039	10	1500
NS8 S1.....S14	6030500211	10	1500	NS8 XC...C311	6030500083	10	1500
NS8 SP...SP-A	6030500305	10	1500	NS8 XO.....745-B	6030500146	10	1500
NS8 T.....R	6030500183	10	1500	NS8 Z.Z	6030500047	10	1500
NS8 T1.....T14	6030500213	10	1500	NS8 Z1....Z1	6030500249	10	1500
NS8 Tb1...Tb10	6030500215	10	1500	NS8 Z2....Z2	6030500250	10	1500
NS8 U.....B2	6030500281	10	1500	NS8N....P1	6030500123	10	1500
NS8 U.....MPI	6030500254	10	1500	NS8N1.....N2	6030500009	10	1500
NS8 U....U	6030500240	10	1500	NS8N1....N1	6030500231	10	1500
NS8 U...MPI-A	6030500296	10	1500	O			
NS8 U1.....U2	6030500144	10	1500	OWD 50	6110310010	30	60
NS8 U1.....MP	6030500193	10	1500	OWD 70	6110310014	14	28
NS8 U1....MP-A	6030500283	10	1500	OWD 90	6110310018	8	16
NS8 U1....U1	6030500241	10	1500	P			
NS8 U1.V1....MP-A	6030500091	10	1500	P-DRTP4	6020302001	20	600
NS8 U1.V1....MP-B	6030500178	10	1500	P-RTP2.5 Blue	6020301001	100	2000
NS8 U2.V2....100	6030500090	10	1500	P-RTP2.5 Gray	6020301005	100	2000
NS8 U2.V2....B2	6030500143	10	1500	P-RTP2.5H-10 Blue	6020301101	50	1500
NS8 U2.....GND	6030500268	10	1500	P-RTP2.5H-10 Gray	6020301105	50	1500
NS8 U2.....T-A	6030500286	10	1500	P-RTS2.5-4.6	6020303001	50	1500
NS8 U2....BT-B	6030500168	10	1500	R			
NS8 U2....MP	6030500194	10	1500	RB/I-1P40A	6125001140	12	96
NS8 U2....T	6030500279	10	1500	RB/I-1P63A	6125001163	12	96
NS8 U2...BT-A	6030500041	10	1500	RB/I-3P40A	6125003140	4	32
NS8 U2...MP-A	6030500284	10	1500	RB/I-3P63A	6125003163	4	32

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
RB/M-1P B10A-10kA	6120115110	12	96	RB/M-1P C63A-6kA	6120314163	12	96
RB/M-1P B10A-6kA	6120114110	12	96	RB/M-1P C6A-10kA	6120315106	12	96
RB/M-1P B16A-10kA	6120115116	12	96	RB/M-1P C6A-6kA	6120314106	12	96
RB/M-1P B16A-6kA	6120114116	12	96	RB/M-2P B10A-10kA	6120125110	6	48
RB/M-1P B1A-10kA	6120115101	12	96	RB/M-2P B10A-6kA	6120124110	6	48
RB/M-1P B1A-6kA	6120114101	12	96	RB/M-2P B16A-10kA	6120125116	6	48
RB/M-1P B20A-10kA	6120115120	12	96	RB/M-2P B16A-6kA	6120124116	6	48
RB/M-1P B20A-6kA	6120114120	12	96	RB/M-2P B1A-10kA	6120125101	6	48
RB/M-1P B25A-10kA	6120115125	12	96	RB/M-2P B1A-6kA	6120124101	6	48
RB/M-1P B25A-6kA	6120114125	12	96	RB/M-2P B20A-10kA	6120125120	6	48
RB/M-1P B2A-10kA	6120115102	12	96	RB/M-2P B20A-6kA	6120124120	6	48
RB/M-1P B2A-6kA	6120114102	12	96	RB/M-2P B25A-10kA	6120125125	6	48
RB/M-1P B32A-10kA	6120115132	12	96	RB/M-2P B25A-6kA	6120124125	6	48
RB/M-1P B32A-6kA	6120114132	12	96	RB/M-2P B2A-10kA	6120125102	6	48
RB/M-1P B40A-10kA	6120115140	12	96	RB/M-2P B2A-6kA	6120124102	6	48
RB/M-1P B40A-6kA	6120114140	12	96	RB/M-2P B32A-10kA	6120125132	6	48
RB/M-1P B4A-10kA	6120115104	12	96	RB/M-2P B32A-6kA	6120124132	6	48
RB/M-1P B4A-6kA	6120114104	12	96	RB/M-2P B40A-10kA	6120125140	6	48
RB/M-1P B50A-10kA	6120115150	12	96	RB/M-2P B40A-6kA	6120124140	6	48
RB/M-1P B50A-6kA	6120114150	12	96	RB/M-2P B4A-10kA	6120125104	6	48
RB/M-1P B63A-10kA	6120115163	12	96	RB/M-2P B4A-6kA	6120124104	6	48
RB/M-1P B63A-6kA	6120114163	12	96	RB/M-2P B50A-10kA	6120125150	6	48
RB/M-1P B6A-10kA	6120115106	12	96	RB/M-2P B50A-6kA	6120124150	6	48
RB/M-1P B6A-6kA	6120114106	12	96	RB/M-2P B63A-10kA	6120125163	6	48
RB/M-1P C10A-10kA	6120315110	12	96	RB/M-2P B63A-6kA	6120124163	6	48
RB/M-1P C10A-6kA	6120314110	12	96	RB/M-2P B6A-10kA	6120125106	6	48
RB/M-1P C16A-10kA	6120315116	12	96	RB/M-2P B6A-6kA	6120124106	6	48
RB/M-1P C16A-6kA	6120314116	12	96	RB/M-2P C10A-10kA	6120325110	6	48
RB/M-1P C1A-10kA	6120315101	12	96	RB/M-2P C10A-6kA	6120324110	6	48
RB/M-1P C1A-6kA	6120314101	12	96	RB/M-2P C16A-10kA	6120325116	6	48
RB/M-1P C20A-10kA	6120315120	12	96	RB/M-2P C16A-6kA	6120324116	6	48
RB/M-1P C20A-6kA	6120314120	12	96	RB/M-2P C1A-10kA	6120325101	6	48
RB/M-1P C25A-10kA	6120315125	12	96	RB/M-2P C1A-6kA	6120324101	6	48
RB/M-1P C25A-6kA	6120314125	12	96	RB/M-2P C20A-10kA	6120325120	6	48
RB/M-1P C2A-10kA	6120315102	12	96	RB/M-2P C20A-6kA	6120324120	6	48
RB/M-1P C2A-6kA	6120314102	12	96	RB/M-2P C25A-10kA	6120325125	6	48
RB/M-1P C32A-10kA	6120315132	12	96	RB/M-2P C25A-6kA	6120324125	6	48
RB/M-1P C32A-6kA	6120314132	12	96	RB/M-2P C2A-10kA	6120325102	6	48
RB/M-1P C40A-10kA	6120315140	12	96	RB/M-2P C2A-6kA	6120324102	6	48
RB/M-1P C40A-6kA	6120314140	12	96	RB/M-2P C32A-10kA	6120325132	6	48
RB/M-1P C4A-10kA	6120315104	12	96	RB/M-2P C32A-6kA	6120324132	6	48
RB/M-1P C4A-6kA	6120314104	12	96	RB/M-2P C40A-10kA	6120325140	6	48
RB/M-1P C50A-10kA	6120315150	12	96	RB/M-2P C40A-6kA	6120324140	6	48
RB/M-1P C50A-6kA	6120314150	12	96	RB/M-2P C4A-10kA	6120325104	6	48
RB/M-1P C63A-10kA	6120315163	12	96	RB/M-2P C4A-6kA	6120324104	6	48

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
RB/M-2P C50A-10kA	6120325150	6	48	RB/M-3P C40A-6kA	6120334140	4	32
RB/M-2P C50A-6kA	6120324150	6	48	RB/M-3P C4A-10kA	6120335104	4	32
RB/M-2P C63A-10kA	6120325163	6	48	RB/M-3P C4A-6kA	6120334104	4	32
RB/M-2P C63A-6kA	6120324163	6	48	RB/M-3P C50A-10kA	6120335150	4	32
RB/M-2P C6A-10kA	6120325106	6	48	RB/M-3P C50A-6kA	6120334150	4	32
RB/M-2P C6A-6kA	6120324106	6	48	RB/M-3P C63A-10kA	6120335163	4	32
RB/M-3P B10A-10kA	6120135110	4	32	RB/M-3P C63A-6kA	6120334163	4	32
RB/M-3P B10A-6kA	6120134110	4	32	RB/M-3P C6A-10kA	6120335106	4	32
RB/M-3P B16A-10kA	6120135116	4	32	RB/M-3P C6A-6kA	6120334106	4	32
RB/M-3P B16A-6kA	6120134116	4	32	RB/M-4P B10A-10kA	6120145110	3	24
RB/M-3P B1A-10kA	6120135101	4	32	RB/M-4P B10A-6kA	6120144110	3	24
RB/M-3P B1A-6kA	6120134101	4	32	RB/M-4P B16A-10kA	6120145116	3	24
RB/M-3P B20A-10kA	6120135120	4	32	RB/M-4P B16A-6kA	6120144116	3	24
RB/M-3P B20A-6kA	6120134120	4	32	RB/M-4P B1A-10kA	6120145101	3	24
RB/M-3P B25A-10kA	6120135125	4	32	RB/M-4P B1A-6kA	6120144101	3	24
RB/M-3P B25A-6kA	6120134125	4	32	RB/M-4P B20A-10kA	6120145120	3	24
RB/M-3P B2A-10kA	6120135102	4	32	RB/M-4P B20A-6kA	6120144120	3	24
RB/M-3P B2A-6kA	6120134102	4	32	RB/M-4P B25A-10kA	6120145125	3	24
RB/M-3P B32A-10kA	6120135132	4	32	RB/M-4P B25A-6kA	6120144125	3	24
RB/M-3P B32A-6kA	6120134132	4	32	RB/M-4P B2A-10kA	6120145102	3	24
RB/M-3P B40A-10kA	6120135140	4	32	RB/M-4P B2A-6kA	6120144102	3	24
RB/M-3P B40A-6kA	6120134140	4	32	RB/M-4P B32A-10kA	6120145132	3	24
RB/M-3P B4A-10kA	6120135104	4	32	RB/M-4P B32A-6kA	6120144132	3	24
RB/M-3P B4A-6kA	6120134104	4	32	RB/M-4P B40A-10kA	6120145140	3	24
RB/M-3P B50A-10kA	6120135150	4	32	RB/M-4P B40A-6kA	6120144140	3	24
RB/M-3P B50A-6kA	6120134150	4	32	RB/M-4P B4A-10kA	6120145104	3	24
RB/M-3P B63A-10kA	6120135163	4	32	RB/M-4P B4A-6kA	6120144104	3	24
RB/M-3P B63A-6kA	6120134163	4	32	RB/M-4P B50A-10kA	6120145150	3	24
RB/M-3P B6A-10kA	6120135106	4	32	RB/M-4P B50A-6kA	6120144150	3	24
RB/M-3P B6A-6kA	6120134106	4	32	RB/M-4P B63A-10kA	6120145163	3	24
RB/M-3P C10A-10kA	6120335110	4	32	RB/M-4P B63A-6kA	6120144163	3	24
RB/M-3P C10A-6kA	6120334110	4	32	RB/M-4P B6A-10kA	6120145106	3	24
RB/M-3P C16A-10kA	6120335116	4	32	RB/M-4P B6A-6kA	6120144106	3	24
RB/M-3P C16A-6kA	6120334116	4	32	RB/M-4P C10A-10kA	6120345110	3	24
RB/M-3P C1A-10kA	6120335101	4	32	RB/M-4P C10A-6kA	6120344110	3	24
RB/M-3P C1A-6kA	6120334101	4	32	RB/M-4P C16A-10kA	6120345116	3	24
RB/M-3P C20A-10kA	6120335120	4	32	RB/M-4P C16A-6kA	6120344116	3	24
RB/M-3P C20A-6kA	6120334120	4	32	RB/M-4P C1A-10kA	6120345101	3	24
RB/M-3P C25A-10kA	6120335125	4	32	RB/M-4P C1A-6kA	6120344101	3	24
RB/M-3P C25A-6kA	6120334125	4	32	RB/M-4P C20A-10kA	6120345120	3	24
RB/M-3P C2A-10kA	6120335102	4	32	RB/M-4P C20A-6kA	6120344120	3	24
RB/M-3P C2A-6kA	6120334102	4	32	RB/M-4P C25A-10kA	6120345125	3	24
RB/M-3P C32A-10kA	6120335132	4	32	RB/M-4P C25A-6kA	6120344125	3	24
RB/M-3P C32A-6kA	6120334132	4	32	RB/M-4P C2A-10kA	6120345102	3	24
RB/M-3P C40A-10kA	6120335140	4	32	RB/M-4P C2A-6kA	6120344102	3	24

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
RB/M-4P C32A-10kA	6120345132	3	24	RB/MD-2P B6A-10KA	6120225106	6	48
RB/M-4P C32A-6kA	6120344132	3	24	RB/MD-2P C10A-10KA	6120425110	6	48
RB/M-4P C40A-10kA	6120345140	3	24	RB/MD-2P C16A-10KA	6120425116	6	48
RB/M-4P C40A-6kA	6120344140	3	24	RB/MD-2P C20A-10KA	6120425120	6	48
RB/M-4P C4A-10kA	6120345104	3	24	RB/MD-2P C25A-10KA	6120425125	6	48
RB/M-4P C4A-6kA	6120344104	3	24	RB/MD-2P C2A-10KA	6120425102	6	48
RB/M-4P C50A-10kA	6120345150	3	24	RB/MD-2P C32A-10KA	6120425132	6	48
RB/M-4P C50A-6kA	6120344150	3	24	RB/MD-2P C40A-10KA	6120425140	6	48
RB/M-4P C63A-10kA	6120345163	3	24	RB/MD-2P C4A-10KA	6120425104	6	48
RB/M-4P C63A-6kA	6120344163	3	24	RB/MD-2P C50A-10KA	6120425150	6	48
RB/M-4P C6A-10kA	6120345106	3	24	RB/MD-2P C63A-10KA	6120425163	6	48
RB/M-4P C6A-6kA	6120344106	3	24	RB/MD-2P C6A-10KA	6120425106	6	48
RB/M-CB	6124001101	12	-	RB/M-FB	6124101101	12	-
RB/MD-1P B10A-10KA	6120215110	12	96	RB/MN-1P+N B10A-10KA	6120715110	6	48
RB/MD-1P B16A-10KA	6120215116	12	96	RB/MN-1P+N B10A-6KA	6120714110	6	48
RB/MD-1P B20A-10KA	6120215120	12	96	RB/MN-1P+N B16A-10KA	6120715116	6	48
RB/MD-1P B25A-10KA	6120215125	12	96	RB/MN-1P+N B16A-6KA	6120714116	6	48
RB/MD-1P B2A-10KA	6120215102	12	96	RB/MN-1P+N B20A-10KA	6120715120	6	48
RB/MD-1P B32A-10KA	6120215132	12	96	RB/MN-1P+N B20A-6KA	6120714120	6	48
RB/MD-1P B40A-10KA	6120215140	12	96	RB/MN-1P+N B25A-10KA	6120715125	6	48
RB/MD-1P B4A-10KA	6120215104	12	96	RB/MN-1P+N B25A-6KA	6120714125	6	48
RB/MD-1P B50A-10KA	6120215150	12	96	RB/MN-1P+N B2A-10KA	6120715102	6	48
RB/MD-1P B63A-10KA	6120215163	12	96	RB/MN-1P+N B2A-6KA	6120714102	6	48
RB/MD-1P B6A-10KA	6120215106	12	96	RB/MN-1P+N B32A-10KA	6120715132	6	48
RB/MD-1P C10A-10KA	6120415110	12	96	RB/MN-1P+N B32A-6KA	6120714132	6	48
RB/MD-1P C16A-10KA	6120415116	12	96	RB/MN-1P+N B40A-10KA	6120715140	6	48
RB/MD-1P C20A-10KA	6120415120	12	96	RB/MN-1P+N B40A-6KA	6120714140	6	48
RB/MD-1P C25A-10KA	6120415125	12	96	RB/MN-1P+N B4A-10KA	6120715104	6	48
RB/MD-1P C2A-10KA	6120415102	12	96	RB/MN-1P+N B4A-6KA	6120714104	6	48
RB/MD-1P C32A-10KA	6120415132	12	96	RB/MN-1P+N B50A-10KA	6120715150	6	48
RB/MD-1P C40A-10KA	6120415140	12	96	RB/MN-1P+N B50A-6KA	6120714150	6	48
RB/MD-1P C4A-10KA	6120415104	12	96	RB/MN-1P+N B63A-10KA	6120715163	6	48
RB/MD-1P C50A-10KA	6120415150	12	96	RB/MN-1P+N B63A-6KA	6120714163	6	48
RB/MD-1P C63A-10KA	6120415163	12	96	RB/MN-1P+N B6A-10KA	6120715106	6	48
RB/MD-1P C6A-10KA	6120415106	12	96	RB/MN-1P+N B6A-6KA	6120714106	6	48
RB/MD-2P B10A-10KA	6120225110	6	48	RB/MN-1P+N C10A-10KA	6120815110	6	48
RB/MD-2P B16A-10KA	6120225116	6	48	RB/MN-1P+N C10A-6KA	6120814110	6	48
RB/MD-2P B20A-10KA	6120225120	6	48	RB/MN-1P+N C16A-10KA	6120815116	6	48
RB/MD-2P B25A-10KA	6120225125	6	48	RB/MN-1P+N C16A-6KA	6120814116	6	48
RB/MD-2P B2A-10KA	6120225102	6	48	RB/MN-1P+N C20A-10KA	6120815120	6	48
RB/MD-2P B32A-10KA	6120225132	6	48	RB/MN-1P+N C20A-6KA	6120814120	6	48
RB/MD-2P B40A-10KA	6120225140	6	48	RB/MN-1P+N C25A-10KA	6120815125	6	48
RB/MD-2P B4A-10KA	6120225104	6	48	RB/MN-1P+N C25A-6KA	6120814125	6	48
RB/MD-2P B50A-10KA	6120225150	6	48	RB/MN-1P+N C2A-10KA	6120815102	6	48
RB/MD-2P B63A-10KA	6120225163	6	48	RB/MN-1P+N C2A-6KA	6120814102	6	48

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
RB/MN-1P+N C32A-10KA	6120815132	6	48	RB/MN-3P+N C32A-6KA	6120834132	3	24
RB/MN-1P+N C32A-6KA	6120814132	6	48	RB/MN-3P+N C40A-10KA	6120835140	3	24
RB/MN-1P+N C40A-10KA	6120815140	6	48	RB/MN-3P+N C40A-6KA	6120834140	3	24
RB/MN-1P+N C40A-6KA	6120814140	6	48	RB/MN-3P+N C4A-10KA	6120835104	3	24
RB/MN-1P+N C4A-10KA	6120815104	6	48	RB/MN-3P+N C4A-6KA	6120834104	3	24
RB/MN-1P+N C4A-6KA	6120814104	6	48	RB/MN-3P+N C50A-10KA	6120835150	3	24
RB/MN-1P+N C50A-10KA	6120815150	6	48	RB/MN-3P+N C50A-6KA	6120834150	3	24
RB/MN-1P+N C50A-6KA	6120814150	6	48	RB/MN-3P+N C63A-10KA	6120835163	3	24
RB/MN-1P+N C63A-10KA	6120815163	6	48	RB/MN-3P+N C63A-6KA	6120834163	3	24
RB/MN-1P+N C63A-6KA	6120814163	6	48	RB/MN-3P+N C6A-10KA	6120835106	3	24
RB/MN-1P+N C6A-10KA	6120815106	6	48	RB/MN-3P+N C6A-6KA	6120834106	3	24
RB/MN-1P+N C6A-6KA	6120814106	6	48	RB/RC-2P 25A 300mA	6123007125	1	48
RB/MN-3P+N B10A-10KA	6120735110	3	24	RB/RC-2P 25A 30mA	6123003125	1	48
RB/MN-3P+N B10A-6KA	6120734110	3	24	RB/RC-2P 32A 300mA	6123007132	1	48
RB/MN-3P+N B16A-10KA	6120735116	3	24	RB/RC-2P 32A 30mA	6123003132	1	48
RB/MN-3P+N B16A-6KA	6120734116	3	24	RB/RC-2P 40A 300mA	6123007140	1	48
RB/MN-3P+N B20A-10KA	6120735120	3	24	RB/RC-2P 40A 30mA	6123003140	1	48
RB/MN-3P+N B20A-6KA	6120734120	3	24	RB/RC-2P 50A 30mA	6123003150	1	48
RB/MN-3P+N B25A-10KA	6120735125	3	24	RB/RC-2P 63A 300mA	6123007163	1	48
RB/MN-3P+N B25A-6KA	6120734125	3	24	RB/RC-2P 63A 30mA	6123003163	1	48
RB/MN-3P+N B2A-10KA	6120735102	3	24	RB/RC-4P 25A 300mA	6123008125	1	24
RB/MN-3P+N B2A-6KA	6120734102	3	24	RB/RC-4P 25A 30mA	6123004125	1	24
RB/MN-3P+N B32A-10KA	6120735132	3	24	RB/RC-4P 32A 300mA	6123008132	1	24
RB/MN-3P+N B32A-6KA	6120734132	3	24	RB/RC-4P 32A 30mA	6123004132	1	24
RB/MN-3P+N B40A-10KA	6120735140	3	24	RB/RC-4P 40A 300mA	6123008140	1	24
RB/MN-3P+N B40A-6KA	6120734140	3	24	RB/RC-4P 40A 30mA	6123004140	1	24
RB/MN-3P+N B4A-10KA	6120735104	3	24	RB/RC-4P 63A 300mA	6123008163	1	24
RB/MN-3P+N B4A-6KA	6120734104	3	24	RB/RC-4P 63A 30mA	6123004163	1	24
RB/MN-3P+N B50A-10KA	6120735150	3	24	RC-100/2.5	6100100010	100	10000
RB/MN-3P+N B50A-6KA	6120734150	3	24	RC-150/2.5	6100100015	100	10000
RB/MN-3P+N B63A-10KA	6120735163	3	24	RC-200/2.5	6100100020	100	7000
RB/MN-3P+N B63A-6KA	6120734163	3	24	RC-200/3.6	6100200020	100	6000
RB/MN-3P+N B6A-10KA	6120735106	3	24	RC-250/3.6	6100200025	100	5000
RB/MN-3P+N B6A-6KA	6120734106	3	24	RC-300/3.6	6100200030	100	5000
RB/MN-3P+N C10A-10KA	6120835110	3	24	RC-400/4.8	6100300040	100	2500
RB/MN-3P+N C10A-6KA	6120834110	3	24	RDT2.5-CFC(RT/SK1.5-F Blue	6010801017	25	500
RB/MN-3P+N C16A-10KA	6120835116	3	24	RFH 10	6050101001	12	120
RB/MN-3P+N C16A-6KA	6120834116	3	24	RFH 10 N	6050102001	6	60
RB/MN-3P+N C20A-10KA	6120835120	3	24	RFH 102	6050101002	6	60
RB/MN-3P+N C20A-6KA	6120834120	3	24	RFH 103	6050101003	4	40
RB/MN-3P+N C25A-10KA	6120835125	3	24	RFH 103 N	6050102003	3	30
RB/MN-3P+N C25A-6KA	6120834125	3	24	RFH 104	6050101004	3	30
RB/MN-3P+N C2A-10KA	6120835102	3	24	RFH 10 LD	6050201001	12	120
RB/MN-3P+N C2A-6KA	6120834102	3	24	RFH 10 N LD	6050202001	6	60
RB/MN-3P+N C32A-10KA	6120835132	3	24	RFH 102 LD	6050201002	6	60

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
RFH 103 LD	6050201003	4	40	RT/PG10 White	6011004003	20	400
RFH 103 N LD	6050202003	3	30	RT/PG10 Yellow	6011004004	20	400
RFH 104 LD	6050201004	3	30	RT/PG10-E	6011201004	20	400
RSC Contact 220v	6070403001	50	-	RT/PG16 Gray	6011007005	20	400
RSL Blue 110	6070130001	25	250	RT/PG16-E	6011201005	20	400
RSL Blue 220	6070140001	25	250	RT/PG2.5 Black	6011001009	100	1000
RSL Blue 24	6070110001	25	250	RT/PG2.5 Blue	6011001001	100	1000
RSL Blue 48	6070120001	25	250	RT/PG2.5 Brown	6011001007	100	1000
RSL Green 110	6070130002	25	250	RT/PG2.5 Gray	6011001005	100	1000
RSL Green 48	6070120002	25	250	RT/PG2.5 Green	6011001002	100	1000
RSL Red 110	6070130005	25	250	RT/PG2.5 Light Cream	6011001008	100	1000
RSL Red 24	6070110005	25	250	RT/PG2.5 Orange	6011001010	100	1000
RSL Red 48	6070120005	25	250	RT/PG2.5 Red	6011001006	100	1000
RSL White 110	6070130003	25	250	RT/PG2.5 White	6011001003	100	1000
RSL White 48	6070120003	25	250	RT/PG2.5 Yellow	6011001004	100	1000
RSL Yellow 110	6070130004	25	250	RT/PG2.5-1/2 Black	6011005009	40	400
RSL Yellow 220	6070140004	25	250	RT/PG2.5-1/2 Gray	6011005005	40	400
RSL Yellow 24	6070110004	25	250	RT/PG2.5-2/2	6011006001	40	400
RSL Yellow 48	6070120004	25	250	RT/PG2.5-2L	6011101001	50	500
RSLGreen 220	6070140002	25	250	RT/PG2.5-2L-E	6011203001	50	500
RSLGreen24	6070110002	25	250	RT/PG2.5-3LOE5	6011202001	30	500
RSLRed 220	6070140005	25	250	RT/PG2.5-E	6011201001	50	500
RSLWhite 220	6070140003	25	250	RT/PG4 Black	6011002009	100	800
RSLWhite24	6070110003	25	250	RT/PG4 Blue	6011002001	100	800
RSTN6 L2	6020501001	50	-	RT/PG4 Brown	6011002007	100	800
RSTN6 L3	6020501002	50	-	RT/PG4 Gray	6011002005	100	800
RSTN6 L4	6020501003	50	-	RT/PG4 Green	6011002002	100	800
RSTN6-1	6010306002	25	500	RT/PG4 Light Cream	6011002008	100	800
RSTP6	6010304001	25	500	RT/PG4 Orange	6011002010	100	800
RSTT6 Black	6020401009	50	5000	RT/PG4 Red	6011002006	100	800
RSTT6 Blue	6020401001	50	5000	RT/PG4 White	6011002003	100	800
RSTT6 Gray	6020401005	50	5000	RT/PG4 Yellow	6011002004	100	800
RSTT6 Red	6020401006	50	5000	RT/PG4-2L	6011102005	50	500
RSTT6 Yellow	6020401004	50	5000	RT/PG4-2L-E	6011203002	50	500
RT/LH4-2	6011301002	50	-	RT/PG4-E	6011201002	50	500
RT/LH4-3	6011301003	50	-	RT/PG6 Black	6011003009	50	500
RT/LH4-5	6011301005	50	-	RT/PG6 Blue	6011003001	50	500
RT/PG10 Black	6011004009	20	400	RT/PG6 Brown	6011003007	50	500
RT/PG10 Blue	6011004001	20	400	RT/PG6 Gray	6011003005	50	500
RT/PG10 Brown	6011004007	20	400	RT/PG6 Green	6011003002	50	500
RT/PG10 Gray	6011004005	20	400	RT/PG6 Light Cream	6011003008	50	500
RT/PG10 Green	6011004002	20	400	RT/PG6 Orange	6011003010	50	500
RT/PG10 Light Cream	6011004008	20	400	RT/PG6 Red	6011003006	50	500
RT/PG10 Orange	6011004010	20	400	RT/PG6 White	6011003003	50	500
RT/PG10 Red	6011004006	20	400	RT/PG6 Yellow	6011003004	50	500

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
RT/PG6-E	6011201003	25	500	RT/ST6-L	6010302001	20	320
RT/SF1.5-F Gray	6010801003	25	500	RT/ST6-SHT	6010303001	25	500
RT/SF4 Blue	6010201002	25	500	RT/ST6-SHT-L	6010305001	25	500
RT/SF4 Gray	6010201001	25	500	RT/SU10 Black	6010405009	60	900
RT/SF4-LD-110-220VAC/DC Blue	6010202006	25	500	RT/SU10 Blue	6010405001	60	900
RT/SF4-LD-110-220VAC/DC Gray	6010202002	25	500	RT/SU10 Brown	6010405007	60	900
RT/SF4-LD-24-48VAC/DC Blue	6010202005	25	500	RT/SU10 Gray	6010405005	60	900
RT/SF4-LD-24-48VAC/DC Gray	6010202001	25	500	RT/SU10 Green	6010405002	60	900
RT/SH 240 Cover	6020803002	4	40	RT/SU10 Light Cream	6010405008	60	900
RT/SH 70-95-150 Cover	6020803001	10	50	RT/SU10 Orange	6010405010	60	900
RT/SH150 Gray	6010503002	5	25	RT/SU10 Red	6010405006	60	900
RT/SH240 Gray	6010504002	4	20	RT/SU10 White	6010405003	60	900
RT/SH70 Gray	6010501002	5	25	RT/SU10 Yellow	6010405004	60	900
RT/SH95 Gray	6010502002	5	25	RT/SU10-2L Gray	6010740005	25	250
RT/SK1.5	6010801001	50	900	RT/SU10-E	6010601004	25	500
RT/SK1.5 Blue	6010801020	25	500	RT/SU10-SO	6010602004	20	400
RT/SK1.5-D	6010801002	50	900	RT/SU150 Blue	6010412001	5	50
RT/SK1.5-D-1N4007-150v	6010801016	25	500	RT/SU150 Gray	6010412005	5	50
RT/SK1.5-FLD-110-220VAC/DC	6010801005	25	500	RT/SU16 Black	6010406009	50	500
RT/SK1.5-FLD-110-220VAC/DC Blue	6010801019	25	500	RT/SU16 Blue	6010406001	50	500
RT/SK1.5-FLD-24-48VAC/DC	6010801004	25	500	RT/SU16 Brown	6010406007	50	500
RT/SK1.5-FLD-24-48VAC/DC Blue	6010801018	25	500	RT/SU16 Gray	6010406005	50	500
RT/SK1.5-R	6010801007	25	500	RT/SU16 Green	6010406002	50	500
RT/SK1.5-R-10k	6010801013	25	500	RT/SU16 Light Cream	6010406008	50	500
RT/SK1.5-R-1k-1w	6010801008	25	500	RT/SU16 Orange	6010406010	50	500
RT/SK1.5-R-2.2k-1w	6010801010	25	500	RT/SU16 Red	6010406006	50	500
RT/SK1.5-R-2.2k-2w	6010801014	25	500	RT/SU16 White	6010406003	50	500
RT/SK1.5-R-2k	6010801009	25	500	RT/SU16 Yellow	6010406004	50	500
RT/SK1.5-R-4.3k	6010801011	25	500	RT/SU16-E	6010601005	20	340
RT/SK1.5-R-4.7k	6010801012	25	500	RT/SU2.5 Black	6010402009	100	1000
RT/SK1.5-R-5.6k-2w	6010801021	25	500	RT/SU2.5 Blue	6010402001	100	1000
RT/SK1.5-R-5k-2w	6010801015	25	500	RT/SU2.5 Brown	6010402007	100	1000
RT/SK1.5-TS	6010801006	25	500	RT/SU2.5 Gray	6010402005	100	1000
RT/SS16-10	6010102007	16	160	RT/SU2.5 Green	6010402002	100	1000
RT/SS16-12	6010102008	8	128	RT/SU2.5 Light Cream	6010402008	100	1000
RT/SS16-2	6010102001	96	960	RT/SU2.5 Orange	6010402010	100	1000
RT/SS16-3	6010102002	32	512	RT/SU2.5 Red	6010402006	100	1000
RT/SS16-4	6010102003	48	480	RT/SU2.5 White	6010402003	100	1000
RT/SS16-5	6010102004	32	320	RT/SU2.5 Yellow	6010402004	100	1000
RT/SS16-6	6010102005	30	300	RT/SU2.5/4-2L Blue	6010728001	50	600
RT/SS16-8	6010102006	24	240	RT/SU2.5/4-2L Gray	6010728005	50	600
RT/SS2.5	6010103001	100	1000	RT/SU2.5/4-2L Gray	6010729005	50	600
RT/SS6	6010103002	60	600	RT/SU2.5/4-2L-D4	6010734001	50	600
RT/ST6	6010301001	20	320	RT/SU2.5/4-2L-LD-110-220VAC/DC	6010730006	50	600
RT/ST6-CMP	6010306001	25	500	RT/SU2.5/4-2L-LD-24-48VAC/DC	6010730005	50	600

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
RT/SU2.5/4-2L-SL Blue	6010728011	50	600	RT/SU4 Yellow	6010403004	100	1000
RT/SU2.5/4-2L-SL Gray	6010728015	50	600	RT/SU4-2L Black	6010701009	50	800
RT/SU2.5-3LDE5	6020206002	300	300	RT/SU4-2L Blue	6010701001	50	800
RT/SU2.5-E	6010601001	50	500	RT/SU4-2L Brown	6010701007	50	800
RT/SU2.5-H Black	6010401009	100	1000	RT/SU4-2L Gray	6010701005	50	800
RT/SU2.5-H Blue	6010401001	100	1000	RT/SU4-2L Green	6010701002	50	800
RT/SU2.5-H Brown	6010401007	100	1000	RT/SU4-2L Orange	6010701010	50	800
RT/SU2.5-H Gray	6010401005	100	1000	RT/SU4-2L Red	6010701006	50	800
RT/SU2.5-H Green	6010401002	100	1000	RT/SU4-2L Yellow	6010701004	50	800
RT/SU2.5-H Light Cream	6010401008	100	1000	RT/SU4-2L-D1 Gray	6010702005	50	800
RT/SU2.5-H Orange	6010401010	100	1000	RT/SU4-2L-D1 Green	6010702002	50	800
RT/SU2.5-H Red	6010401006	100	1000	RT/SU4-2L-D2)	6010703005	50	800
RT/SU2.5-H White	6010401003	100	1000	RT/SU4-2L-D3)	6010704005	50	800
RT/SU2.5-H Yellow	6010401004	100	1000	RT/SU4-2L-D4)	6010705005	50	800
RT/SU2.5-SO	6010602001	50	500	RT/SU4-2L-D5	6010706005	50	800
RT/SU25 Black	6010407009	50	500	RT/SU4-2L-D5 Green	6010706002	50	800
RT/SU25 Blue	6010407001	50	500	RT/SU4-2L-D6	6010707005	50	800
RT/SU25 Brown	6010407007	50	500	RT/SU4-2L-D7	6010708001	50	800
RT/SU25 Gray	6010407005	50	500	RT/SU4-2L-DR1	6010720005	50	800
RT/SU25 Green	6010407002	50	500	RT/SU4-2L-DR1	6010721005	50	800
RT/SU25 Light Cream	6010407008	50	500	RT/SU4-2L-L	6010727005	50	800
RT/SU25 Orange	6010407010	50	500	RT/SU4-2L-LD-110-220VAC/DC	6010722006	50	800
RT/SU25 Red	6010407006	50	500	RT/SU4-2L-LD-24-48VAC/DC	6010722005	50	800
RT/SU25 White	6010407003	50	500	RT/SU4-2L-R125	6010726005	50	800
RT/SU25 Yellow	6010407004	50	500	RT/SU4-2L-R2	6010724005	50	800
RT/SU35 Black	6010408009	20	320	RT/SU4-2L-R2.2k	6010725005	50	800
RT/SU35 Blue	6010408001	20	320	RT/SU4-3L	6010750005	25	500
RT/SU35 Brown	6010408007	20	320	RT/SU4-E	6010601002	50	500
RT/SU35 Gray	6010408005	20	320	RT/SU4-SO	6010602002	50	500
RT/SU35 Green	6010408002	20	320	RT/SU50 Black	6010409009	20	200
RT/SU35 Light Cream	6010408008	20	320	RT/SU50 Blue	6010409001	20	200
RT/SU35 Orange	6010408010	20	320	RT/SU50 Brown	6010409007	20	200
RT/SU35 Red	6010408006	20	320	RT/SU50 Gray	6010409005	20	200
RT/SU35 White	6010408003	20	320	RT/SU50 Green	6010409002	20	200
RT/SU35 Yellow	6010408004	20	320	RT/SU50 Light Cream	6010409008	20	200
RT/SU35-E	6010601006	20	200	RT/SU50 Orange	6010409010	20	200
RT/SU4 Black	6010403009	100	1000	RT/SU50 Red	6010409006	20	200
RT/SU4 Blue	6010403001	100	1000	RT/SU50 White	6010409003	20	200
RT/SU4 Brown	6010403007	100	1000	RT/SU50 Yellow	6010409004	20	200
RT/SU4 Gray	6010403005	100	1000	RT/SU6 Black	6010404009	80	1200
RT/SU4 Green	6010403002	100	1000	RT/SU6 Blue	6010404001	80	1200
RT/SU4 Light Cream	6010403008	100	1000	RT/SU6 Brown	6010404007	80	1200
RT/SU4 Orange	6010403010	100	1000	RT/SU6 Gray	6010404005	80	1200
RT/SU4 Red	6010403006	100	1000	RT/SU6 Green	6010404002	80	1200
RT/SU4 White	6010403003	100	1000	RT/SU6 Light Cream	6010404008	80	1200

Type	Ordering No.	Qty (Box)	Qty (Carton)	Type	Ordering No.	Qty (Box)	Qty (Carton)
RT/SU6 Orange	6010404010	80	1200	SES2L Red220	6070303023	12	120
RT/SU6 Red	6010404006	80	1200	SES2L Yellow220	6070303026	12	120
RT/SU6 White	6010404003	80	1200	SES2-C	6070303120	12	120
RT/SU6 Yellow	6010404004	80	1200	SES3	6070303021	12	120
RT/SU6-E	6010601003	25	500	SES3-C	6070303121	12	120
RT/SU6-SO	6010602003	25	500	SES3L Green220	6070303024	12	120
RT/SU70 Gray	6010410005	10	50	SES3L Red220	6070303025	12	120
RT/SU95 Blue	6010411001	5	50	SES3L Yellow220	6070303027	12	120
RT/SU95 Gray	6010411005	5	50	SES3L-C Green220	6070303124	12	120
RT/TC4	6010499002	50	500	SES3L-C Red220	6070303125	12	120
RWD 25 Cover	6115050005	20	40	SES3L-C Green220	6070303122	12	120
RWD 40 Cover	6115050008	20	40	SES3L-C Red220	6070303123	12	120
RWD 60 Cover	6115050012	20	40	SP16-35 Gray	6020304002	50	500
RWD 80 Cover	6115050016	10	20	SP-2.5-10 Gray	6020304001	100	2000
RWD 100 Cover	6115050020	10	20	SP-50 Gray	6020304003	50	500
RWD 100*60	6110120012	6	12	SP-D4	6020304004	100	2000
RWD 25*40	6110105008	30	60	Strip Labelling	6032000003	1	-
RWD 25*60	6110105012	20	40	T			
RWD 40*40	6110108008	20	40	TH35-15/S-(1 m)	6090102003	10	10
RWD 40*60	6110108012	18	36	TH35-7.5/S	6090101002	20	40
RWD 40*80	6110108016	14	28	TH35-7.5/S-(1 m)	6090101003	20	20
RWD 60*60	6110112012	12	24	TS2.6/6.5/2.5 RDT4	6020402005	50	5000
RWD 60*80	6110112016	8	16	TS3.5/8/4 16	6020402003	50	5000
RWD 80*60	6110116012	10	20	TS3/2.6/4 RSTN6	6020401100	50	5000
RWD 80*80	6110116016	8	16	TS3/6/2.3 2.5-4	6020402001	50	5000
RWD 100*100	6110120020	4	8	TS3/8/4	6020402002	50	5000
RWD 100*80	6110120016	4	8	TS4/8/4 25-35	6020402004	50	5000
RWD 60*40	6110112008	16	32	TSS3/26/4	6020401101	50	5000
S							
SEI2	6070303010	12	120				
SEI2L Green220	6070303012	12	120				
SEI2L Red220	6070303013	12	120				
SEI2L Yellow220	6070303016	12	120				
SEI2 -C	6070303110	12	120				
SEI2L-C Green220	6070303112	12	120				
SEI2L-C Red220	6070303113	12	120				
SEI3	6070303011	12	120				
SEI3L Green220	6070303014	12	120				
SEI3L Red220	6070303015	12	120				
SEI3L Yellow220	6070303017	12	120				
SEI3-C	6070303111	12	120				
SEI3L-C Green220	6070303114	12	120				
SEI3L-C Red220	6070303115	12	120				
SES2	6070303020	12	120				
SES2L Green220	6070303022	12	120				