Solid State Relays
Industrial, 1-Phase ZS (IO) w. LED
Types RAM1A, RAM1B

- **Zero switching (RAM1A) or instant-on switching (RAM1B) AC Solid State Relay**
- **Direct copper bonding (DCB) technology**
- **LED indication**
- **Clip-on IP 20 protection cover**
- **Self-lifting terminals**
- **Housing free of moulding mass**
- **2 input ranges: 3-32 * and 20-280 VAC/22-48 VDC**
- **Operational ratings: Up to 125 AACrms and 690 VACrms**
- **Blocking voltage: Up to 1600 V_p**
- **Opto-isolation: > 4000 VACrms**
- **Integrated overvoltage protection by self switching (suffix "Z" option)**
- **CE, RoHS compliant**
- **cURus, CSA, VDE, CCC**

Product Description

The industrial, 1-phase relay with antiparallel thyristor output is the most widely used industrial SSR due to its multiple application possibilities. The relay can be used for resistive, inductive and capacitive loads. The zero switching relay switches ON when the sinusoidal curve crosses zero and switches OFF when the current crosses zero. The instant-on relay with DC control input can be used for phase angle control. The built-in snubber secures transient protection. The LED indicates the status of the control input. The clip-on cover secures touch protection (IP 20). Protected output terminals can handle cables up to 16 mm².

Ordering Key

RAM 1 A 60 D 125 Z

- **Solid State Relay**
- **Number of poles**
- **Switching mode**
- **Rated operational voltage**
- **Control voltage**
- **Rated operational current**
- **Options**

Type Selection

Switching mode	Rated operational voltage	Control voltage	Rated operational current	Options
A: Zero Switching B: Instant-on switching (DC Control only)	23: 230VACrms 60: 600VACrms 69: 690VACrms	A: 20-280 VAC/22-48VDC D: 3 - 32VDC* * 4 to 32VDC for RAM1A60..., RAM1A69... * 4 to 32VDC for RAM1B types	25 : 25AACrms 50 : 50AACrms 75 : 75AACrms 100:100AACrms 125:125AACrms	Z: Overvoltage protection (self-switching)

Selection Guide

Rated operational voltage	Blocking voltage	Control voltage	Rated operational current 25A	50A	75A	100A	125A
230VACrms	650V_p	3 - 32VDC	**RAM1A23D25**	**RAM1A23D50**	**RAM1A23D75**	**RAM1A23D100**	**RAM1A23D125**
		20-280VAC/22-48VDC	**RAM1A23A25**	**RAM1A23A50**	**RAM1A23A75**	**RAM1A23A100**	**RAM1A23A125**
600VACrms	1200V_p	4 - 32VDC	**RAM1A60D25**	**RAM1A60D50**	**RAM1A60D75**	**RAM1A60D100**	**RAM1A60D125**
		20-280VAC/22-48VDC	**RAM1A60A25**	**RAM1A60A50**	**RAM1A60A75**	**RAM1A60A100**	**RAM1A60A125**
690VACrms	1600V_p	4-32VDC	-	-	**RAM1A69D75**	**RAM1A69D100**	**RAM1A69D125**
		20-280VAC/ 22-48VDC	-	-	**RAM1A69A75**	**RAM1A69A100**	**RAM1A69A125**

Options

1 Overvoltage protection by self-switching: add suffix Z to include. Example: RAM1A60D25Z. Not applicable for 690 V version.

General Specifications

	RAM1.23..	RAM1.60..	RAM1.69..
Operational voltage range			
RAM1A...	24 to 265 VACrms	42 to 660 VACrms	42 to 760 VACrms
RAM1B...	42 to 265 VACrms	42 to 660 VACrms	42 to 760 VACrms
Blocking voltage	≥ 650 V_p	≥ 1200 V_p	≥ 1600 V_p
Zero voltage turn-on	≤ 10 V	≤ 10 V	≤ 10 V
Operational frequency range	45 to 65 Hz	45 to 65 Hz	45 to 65 Hz
Power factor	> 0.5 @ 230 VACrms	> 0.5 @ 600 VACrms	> 0.5 @ 690 VACrms
Approvals	UR, cUR, CSA, VDE*, CCC	UR, cUR, CSA, VDE*, CCC	CCC
CE-marking	Yes	Yes**	Yes**
Isolation			
Input to Output	4000 Vrms	4000 Vrms	4000 Vrms
Input and Output to case	4000 Vrms	4000 Vrms	4000 Vrms

* VDE0805

** Heatsink must be conected to ground

Input Specifications

	RAM1...D..	RAM1...A..
Control voltage range		
RAM1A23...	3-32 VDC	20-280 VAC, 22-48 VDC
RAM1A60..., RAM1A69...	4-32 VDC	20-280 VAC, 22-48 VDC
RAM1B...	4-32 VDC	-
Pick-up voltage @ Ta = 25˚C		
RAM1A23...	2.5 VDC	18 VAC/DC
RAM1A60..., RAM1A69...	3.5 VDC	18 VAC/DC
RAM1B...	3.5 VDC	-
Reverse voltage	32 VDC	-
Drop out voltage	1.2 VDC	6 VAC/DC
Input current @ max input voltage		
RAM1A	12 mA	20 mA
RAM1B	15 mA	-
Response time pick-up		
RAM1A	1/2 cycle	12 ms
RAM1B	0.1 ms	-
Response time drop-out	1/2 cycle	40 ms

Output Specifications

	RAM1...25	RAM1...50	RAM1...75	RAM1...100	RAM1...125
Rated operational current					
AC51 @ Ta=25°C	25Arms	50Arms	75Arms	100Arms	125Arms
AC53a @ Ta=25°C	5Arms	15Arms	17Arms	20Arms	30Arms
Min. operational current	150mA	250mA	400mA	400mA	500mA
Rep. overload current t=1 s	< 55AACrms	< 125AACrms	< 130 AACrms	< 150 AACrms	< 200AACrms
Non-rep. surge current t=10 ms	325A_p	600A_p	800A_p	1150A_p	1900A_p
Off-state leakage current @ rated voltage and frequency	< 3mArms	< 3mArms	< 3mArms	< 3mArms	< 3mArms
I^2t for fusing t= 10 ms	< 525A^2s	< 1800A^2s	< 3200A^2s	< 6600A^2s	<18000A^2s
On-state voltage drop	≤ 1.6Vrms	≤ 1.6Vrms	≤ 1.6Vrms	≤ 1.6Vrms	≤ 1.6Vrms
Critical dV/dt off-state min.	1000V/ s	1000V/ s	1000V/ s	1000V/ s	1000V/ s
Endurance testing acc. to UL 508	100,000 cycles	100,000 cycles	100,000 cycles	6,000 cycles	6,000 cycles

Note: UL requirement for General Use Endurance Testing is 6,000 cycles

Motor Ratings*: HP (UL508)

	230VAC	400VAC	480VAC	600VAC
RAM1..25	1.5HP	3HP	3HP	5HP
RAM1..50	3HP	5HP	7.5HP	10HP
RAM1..75	5HP	7.5HP	10HP	15HP
RAM1..100	7.5HP	15HP	20HP	25HP
RAM1..125	10HP	15HP	25HP	30HP

* with suitable heatsink

Electromagnetic Compatibility

Immunity	IEC/EN 61000-6-2
Electrostatic Discharge (ESD) Immunity	IEC/EN 61000-4-2
Air discharge, 8kV	Performance Criteria 2
Contact, 4kV	Performance Criteria 2
Electrical Fast Transient (Burst) Immunity	IEC/EN 61000-4-4
Output: 2kV, 5kHz	Performance Criteria 1
Input: 1kV, 5kHz	Performance Criteria 1
Electrical Surge Immunity	IEC/EN 61000-4-5
Output, line to line, 1kV	Performance Criteria 2
Output, line to earth, 1kV	Performance Criteria 2
Output, line to earth, 2kV	Performance Criteria 2 with external varistor
Input, line to line, 1kV	Performance Criteria 2
Input, line to earth, 2kV	Performance Criteria 2

Radiated Radio Frequency Immunity	IEC/EN 61000-4-3
10V/m, 80 - 1000 MHz	Performance Criteria 1
10V/m, 1.4 - 2.0GHz	Performance Criteria 1
3 V/m, 2.0 - 2.7GHz	Performance Criteria 1
Conducted Radio Frequency Immunity	IEC/EN 61000-4-6
10V/m, 0.15 - 80 MHz	Performance Criteria 1
Voltage Dips Immunity	IEC/EN 61000-4-11
0% for 0.5 / 1 cycle	Performance Criteria 2
40% for 10 cycles	Performance Criteria 2
70% for 25 cycles	Performance Criteria 2
Voltage Interruptions Immunity	IEC/EN 61000-4-11
0% for 5000ms	Performance Criteria 2

EMC Emission	IEC/EN 61000-6-4
Radio Interference Voltage Emission (Conducted)	IEC/EN 55011
0.15 - 30MHz	Class A (industrial) with filters IEC/EN 60947-4-3 Class A (no filtering needed up to 75AAC)

Radio Interference Field Emission (Radiated)	IEC/EN 55011
30 - 1000MHz	Class B

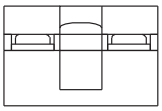
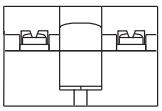
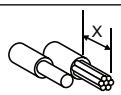
Notes:
- Control input lines must be installed together to maintain products' susceptibility to Radio Frequency interference.
- Performance Criteria 1: No degradation of performance or loss of function is allowed when the product is operated as intended.
- Performance Criteria 2: During the test, degradation of performance or partial loss of function is allowed. However, when the test is complete the product should return operating as intended by itself.
- Performance Criteria 3: Temporary loss of function is allowed, provided the function can be restored by manual operation of the controls.

Housing Specifications

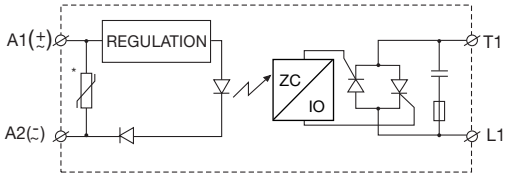
Weight	
25A, 50A	Approx. 60g
75A, 100A, 125A	Approx. 100g
Housing material	Noryl, black
Baseplate	
25A, 50A	Aluminium
75A, 100A, 125A	Copper, nickel-plated

Relay	
Mounting screws	M5
Mounting torque	1.5-2.0Nm
Control terminal	
Mounting screws	M3 x 9
Mounting torque	0.5Nm
Power terminal	
Mounting screws	M5 x 9
Mounting torque	2.4Nm

Connection Specifications

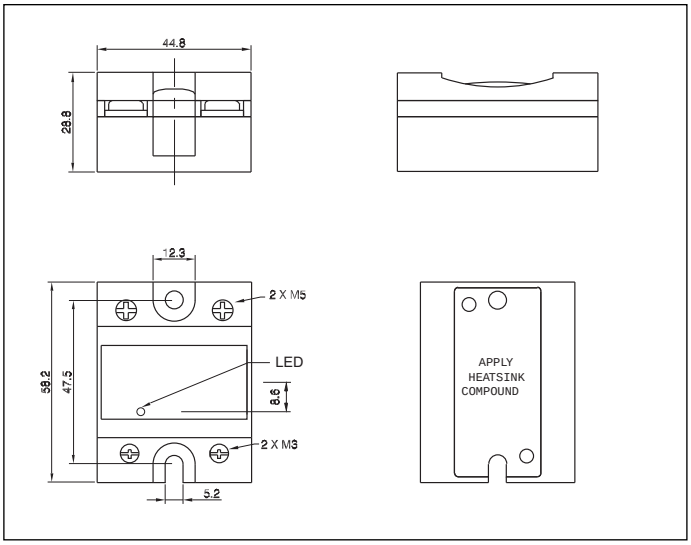
Connection terminals	**L1, T1**		**A1, A2**	
				
Stripping length (X)	12 mm		8 mm	
Connection Type	M5 screw with captivated washer		M3 screw with captivated washer	
Rigid (solid & stranded) UR rated data 	1x 2.5 - 6.0 mm² 1x 14 - 10 AWG	2x 2.5 - 6.0 mm² 2x 14 - 10 AWG	1x 0.5 - 2.5 mm² 1x 18 - 12 AWG	2x 0.5 - 2.5 mm² 2x 18 - 12 AWG
Flexible with end sleeve 	1x 1.0 - 4.0 mm² 1x 18 - 12 AWG	2x 1.0 - 2.5 mm² 2x 2.5 - 4.0 mm² 2x 18 - 14 AWG 2x 14 - 12 AWG	1x 0.5 - 2.5 mm² 1x 18 - 12 AWG	2x 0.5 - 2.5 mm² 2x 18 - 12 AWG
Flexible without end sleeve 	1x 1.0 - 6.0 mm² 1x 18 - 10 AWG	2x 1.0 - 2.5 mm² 2x 2.5 - 6.0 mm² 2x 18 - 14 AWG 2x 14 - 10 AWG		
Torque specification 	Pozidrive 2 2.4 Nm (21.2 lb-in)		Pozidrive 1 0.5 Nm (4.4 lb-in)	
Aperture for termination lug	12 mm		7.5 mm	

Functional Diagram



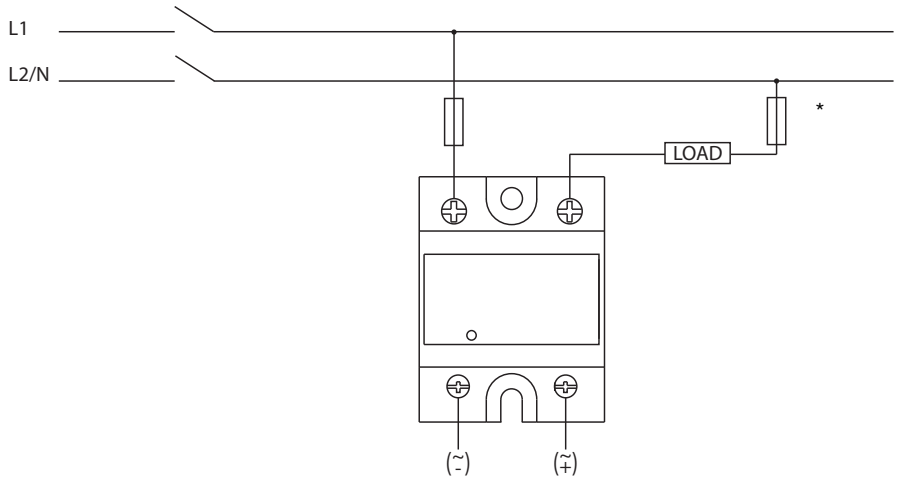
* Varistor across input applies to AC control versions only.

Dimensions



All dimensions in mm.

Connection Diagram



* Depends on system requirements

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Heatsink Dimensions (load current versus ambient temperature)

RAM..25

Load current [A]	Thermal resistance [°C/W]						Power dissipation [W]
25.0	3.23	2.80	2.37	1.94	1.51	1.09	0.66	23
22.5	3.70	3.21	2.73	2.24	1.75	1.26	0.78	21
20.0	4.30	3.74	3.17	2.61	2.05	1.49	0.92	18
17.5	5.07	4.41	3.76	3.10	2.44	1.78	1.12	15
15.0	6.12	5.33	4.54	3.75	2.96	2.17	1.38	13
12.5	7.58	6.61	5.64	4.66	3.69	2.72	1.75	10
10.0	9.80	8.55	7.30	6.05	4.80	3.55	2.30	8
7.5	13.5	11.80	10.09	8.37	6.66	4.94	3.23	6
5.0	-	18.3	15.7	13.04	10.39	7.74	5.09	4
2.5	-	-	-	-	-	16.2	10.7	2
	20	30	40	50	60	70	80	T_A

Ambient temp. [°C]

Junction to ambient thermal resistance, $R_{th\ j\text{-}a}$	< 20.0	°C/W
Junction to case thermal resistance, $R_{th\ j\text{-}c}$	< 0.80	°C/W
Case to heatsink thermal resistance, $R_{th\ c\text{-}s}$[2]	< 0.20	°C/W
Maximum allowable case temperature	100	°C
Maximum allowable junction temperature	125	°C

RAM..50

Load current [A]	Thermal resistance [°C/W]						Power dissipation [W]
50.0	1.25	1.07	0.88	0.70	0.52	0.34	0.16	55
45.0	1.46	1.25	1.04	0.84	0.63	0.42	0.21	48
40.0	1.73	1.49	1.25	1.01	0.77	0.52	0.28	41
35.0	2.08	1.80	1.51	1.23	0.94	0.66	0.37	35
30.0	2.56	2.22	1.87	1.53	1.18	0.84	0.49	29
25.0	3.24	2.81	2.38	1.95	1.52	1.09	0.66	23
20.0	4.26	3.71	3.15	2.59	2.03	1.47	0.92	18
15.0	5.99	5.22	4.45	3.67	2.90	2.12	1.35	13
10.0	9.49	8.27	7.06	5.85	4.64	3.43	2.22	8
5.0	-	17.5	15.0	12.4	9.91	7.39	4.86	4
	20	30	40	50	60	70	80	T_A

Ambient temp. [°C]

Junction to ambient thermal resistance, $R_{th\ j\text{-}a}$	< 20.0	°C/W
Junction to case thermal resistance, $R_{th\ j\text{-}c}$	< 0.50	°C/W
Case to heatsink thermal resistance, $R_{th\ c\text{-}s}$[2]	< 0.20	°C/W
Maximum allowable case temperature	100	°C
Maximum allowable junction temperature	125	°C

RAM..75

Load current [A]	Thermal resistance [°C/W]						Power dissipation [W]
75.0	0.94	0.82	0.70	0.58	0.47	0.35	0.23	85
67.5	1.10	0.96	0.82	0.69	0.55	0.41	0.27	73
60.0	1.30	1.14	0.98	0.81	0.65	0.49	0.33	61
52.5	1.57	1.38	1.18	0.98	0.79	0.59	0.39	51
45.0	1.95	1.70	1.46	1.22	0.97	0.73	0.49	41
37.5	2.48	2.17	1.86	1.55	1.24	0.93	0.62	32
30.0	3.32	2.90	2.49	2.07	1.66	1.24	0.83	24
22.5	4.75	4.15	3.56	2.97	2.37	1.78	1.19	17
15.0	7.68	6.72	5.76	4.80	3.84	2.88	1.92	10
7.5	-	14.59	12.50	10.42	8.34	6.25	4.17	5
	20	30	40	50	60	70	80	T_A

Ambient temp. [°C]

Junction to ambient thermal resistance, $R_{th\ j\text{-}a}$	< 20.0	°C/W
Junction to case thermal resistance, $R_{th\ j\text{-}c}$	< 0.35	°C/W
Case to heatsink thermal resistance, $R_{th\ c\text{-}s}$[2]	< 0.10	°C/W
Maximum allowable heatsink temperature	100	°C
Maximum allowable junction temperature	125	°C

RAM..100

Load current [A]	Thermal resistance [°C/W]						Power dissipation [W]
100.0	0.60	0.52	0.43	0.34	0.26	0.17	0.09	117
90.0	0.74	0.64	0.54	0.44	0.34	0.24	0.14	101
80.0	0.91	0.79	0.68	0.56	0.45	0.33	0.22	87
70.0	1.09	0.96	0.82	0.68	0.55	0.41	0.27	73
60.0	1.33	1.16	1.00	0.83	0.66	0.50	0.33	60
50.0	1.66	1.45	1.24	1.04	0.83	0.62	0.41	48
40.0	2.16	1.89	1.62	1.35	1.08	0.81	0.54	37
30.0	3.01	2.64	2.26	1.88	1.51	1.13	0.75	27
20.0	4.73	4.14	3.55	2.96	2.37	1.78	1.18	17
10.0	9.94	8.70	7.45	6.21	4.97	3.73	2.48	8
	20	30	40	50	60	70	80	T_A

Ambient temp. [°C]

Junction to ambient thermal resistance, $R_{th\ j\text{-}a}$	< 20.0	°C/W
Junction to case thermal resistance, $R_{th\ j\text{-}c}$	< 0.35	°C/W
Case to heatsink thermal resistance, $R_{th\ c\text{-}s}$[2]	< 0.10	°C/W
Maximum allowable heatsink temperature	100	°C
Maximum allowable junction temperature	125	°C

Heatsink Dimensions (cont.)

RAM..125

Load current [A]	Thermal resistance [°C/W]						Power dissipation [W]	
125.0	0.63	0.55	0.47	0.40	0.32	0.24	0.16	126
112.5	0.73	0.64	0.54	0.45	0.36	0.27	0.18	110
100.0	0.84	0.74	0.63	0.53	0.42	0.32	0.21	95
87.5	0.99	0.87	0.74	0.62	0.50	0.37	0.25	81
75.0	1.20	1.05	0.90	0.75	0.60	0.45	0.30	67
62.5	1.48	1.30	1.11	0.93	0.74	0.56	0.37	54
50.0	1.92	1.68	1.44	1.20	0.96	0.72	0.48	42
37.5	2.65	2.32	1.98	1.65	1.32	0.99	0.66	30
25.0	4.12	3.60	3.09	2.57	2.06	1.54	1.03	19
12.5	8.55	7.48	6.41	5.34	4.27	3.21	2.14	9
	20	30	40	50	60	70	80	T_A

Ambient temp. [°C]

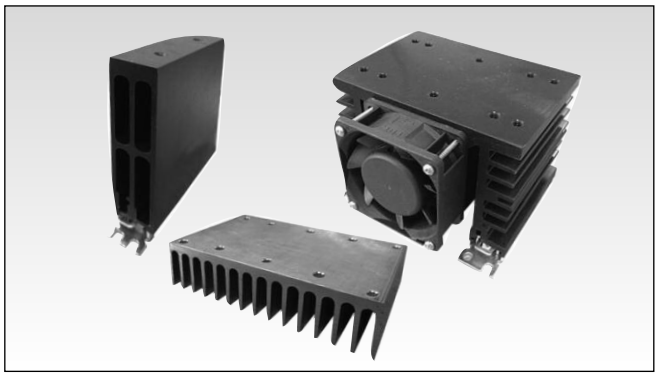
Junction to ambient thermal resistance, $R_{th\ j\text{-}a}$	< 20.0	°C/W
Junction to case thermal resistance, $R_{th\ j\text{-}c}$	< 0.30	°C/W
Case to heatsink thermal resistance, $R_{th\ c\text{-}s}$[2]	< 0.10	°C/W
Maximum allowable heatsink temperature	100	°C
Maximum allowable junction temperature	125	°C

Note: Thermal resistance case to heatsink valves are applicable upon application of a fine layer of silicon based thermal paste HTS02S from Electrolube between SSR and heatsink.

Thermal Specifications

Operating temperature	-40° to +80°C (-40° to +176°F)
Storage temperature	-40° to +100°C (-40° to +212°F)
Junction temperature	≤ 125°C (257°F)

Heatsink Selection



Heatsink Range Overview:
http://www.productselection.net/PDF/UK/ssr_accessories.pdf

Heatsink Selector Tool:
http://www.productselection.net/heatsink/heatsinkselector.php?LANG=UK

Ordering Key

RHS..

- Heatsinks and fans
- 5.40°C/W to 0.12°C/W thermal resistance
- DIN, panel or thru wall mounting
- Single or multiple SSR mounting

Short Circuit Protection

Protection Co-ordination, Type 1 vs. Type 2:

Type 1 protection implies that after a short circuit, the device under test will no longer be in a functioning state. In type 2 co-ordination the device under test will still be functional after the short circuit. In both cases, however, the short circuit has to be interrupted. The fuse between enclosure and supply shall not open. The door or cover of the enclosure shall not be blown open. There shall be no damage to conductors of terminals and the conductors shall not separate from terminals. Therese shall be no breakage or cracking of insulating bases to the extent that the integrity of the mounting of live parts is impaired. Discharge of parts or any risk of fire shall not occur.

The product variants listed in the table hereunder are suitable for use on a circuit capable of delivering not more than 65,000A rms Symmetrical Amperes, 600Volts maximum when protected by fuses. Tests at 65,000A were performed with Class J, fast acting: please refer to the table below for maximum allowed ampere rating of the fuse. Use fuses only.

Co-ordination type 1 (UL508)

Type	Potentiel circuit current [kArms]	Maks. størrelse [A]	Klasse	Spænding [VAC]
RAM1..25..	65	30	J / CC	600
RAM1..50..	65	30	J	600
		20	HSJ20 (Mersen*)	600
RAM1..75..	65	100	J	600
RAM1..100..	65	80	J	600
		60	HSJ60 (Mersen*)	600
RAM1..125..	65	125	J	600
		60	HSJ60 (Mersen*)	600

Co-ordination type 2 (IEC/EN60947-4-3)

Part No.	Prospective short circuit current [kArms]	Max. fuse size [A]	Brand	Model	Size
RAM1.23..25..	10	25	Mersen*	6.9gRB 10-25	10.3 x 38
RAM1.60..25..	10	20	Mersen*	6.9gRB 10-20	10.3 x 38
RAM1.23..50..	10	50	Mersen*	6.9zz CP gRC 14x51/50	14 x 51
RAM1.60..50..	10	50	Mersen*	6.9zz CP gRC 22x58/50	22 x 58
RAM1.xx.75.. (xx = 23 or 60)	10	63	Mersen*	6.9zz CP gRC 22x58/63	22 x 58
RAM1.23.100..	10	100	Mersen*	6.9zz CP gRC 22x58/100	22 x 58
RAM1.60.100..	10	80	Mersen*	6.9zz CP gRC 22x58/80	22 x 58
RAM1.xx.125.. (xx = 23 or 60)	10	125	Mersen*	6.921 CP URGD 27x60/125	27 x 60

zz = 00, without fuse trip indication

zz = 21, with fuse trip indication

* Formerly Ferraz Shawmut

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Type 2 Protection with Miniature Circuit Breakers (M.C.B.s)

Solid State Relay type	ABB Model no. for Z - type M. C. B. (rated current)	ABB Model no. for B - type M. C. B. (rated current)	Wire cross sectional area [mm²]	Minimum length of Cu wire conductor [m]*
RAM..25..	**1-pole**			
	S201-Z4 (4A)	S201-B2 (2A)	1.0	21.0
	S201-Z6 UC (6A)	S201-B2 (2A)	1.0	21.0
			1.5	31.5
RAM..50..	**1-pole**			
	S201-Z10 (10A)	S201-B4 (4A)	1.0	7.6
			1.5	11.4
			2.5	19.0
	S201-Z16 (16A)	S201-B6 (6A)	1.0	5.2
			1.5	7.8
			2.5	13.0
			4.0	20.8
	S201-Z20 (20A)	S201-B10 (10A)	1.5	12.6
			2.5	21.0
	S201-Z25 (25A)	S201-B13 (13A)	2.5	25.0
			4.0	40.0
	2-poles			
	S202-Z25 (25A)	S202-B13 (13A)	2.5	19.0
			4.0	30.4
RAM..75.. **RAM..100..**	**1-pole**			
	S201-Z20 (20A)	S201-B10 (10A)	1.5	4.2
			2.5	7.0
			4.0	11.2
	S201-Z32 (32A)	S201-B16 (16A)	2.5	13.0
			4.0	20.8
			6.0	31.2
	2-poles			
	S202-Z20 (20A)	S202-B10 (10A)	1.5	1.8
			2.5	3.0
			4.0	4.8
	S202-Z32 (32A)	S202-B16 (16A)	2.5	5.0
			4.0	8.0
			6.0	12.0
			10.0	20.0
	S202-Z50 (50A)	S202-B25 (25A)	4.0	14.8
			6.0	22.2
			10.0	37.0
RAM..125..	**1-pole**			
	S201-Z50 (50A)	S201-B25 (25A)	4.0	4.8
			6.0	7.2
			10.0	12.0
			16.0	19.2
	S201-Z63 (63A)	S201-B32 (32A)	6.0	7.2
			10.0	12.0
			16.0	19.2

* Between MCB and Load (including return path which goes back to the mains).

Note: A prospective current of 6kA and a 230/400V power supply system is assumed for the above suggested specifications. For cables with different cross section than those mentioned above please consult Carlo Gavazzi's Technical Support Group.

FASTON terminals

- Faston tabs
- Tab dimensions according to DIN 46342 part 1
- Pure tin-plated brass

Ordering Key

Screw mounted Faston terminals — **RAM1A60D25 | F 4 ***

RAM Solid State Relay
Faston terminals
Tab orientation

Input Tab width: 4.8mm
Output Tab width: 6.3mm

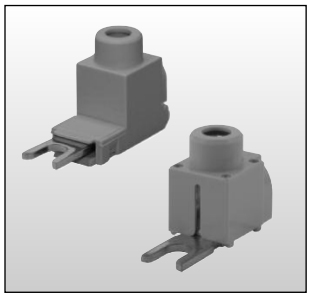
Faston terminals in packs of 20 — **RM48 ** | F4***

RS, RM Solid State Relay
Tab orientation

*** 0: Flat (0º)**
4: Angled (45º)

**** 48: 4.8mm faston for input**
63: 6.3mm faston for output

Fork Terminals



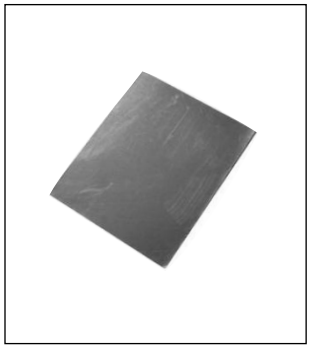
- Terminal adaptors for 35mm^2 cable
- Type RM635FK
- Pack size: 10 pieces

Ordering Key

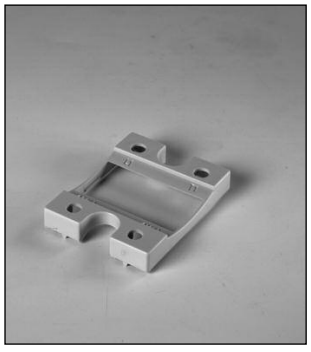
RM635FK | P

RM terminal adaptor
Touch protected (optional)

Other Accessories



- Graphite thermal pad with adhesive on one side
- Type KK071CUT
- Dimensions: 35 x 43 x 0.25mm
- Packing quantity: 50pcs.



- Touch safety cover
- Type RMIP20
- IP20 protection degree
- Pack size: 20 pieces

All accessories can be ordered pre-assembled with Solid State Relays.
Other accessories include DIN rail adaptors, fuses, varistors and spacers.

For futher information refer to Accessories datasheets at:
www.productselection.net/PDF/UK/SSR_Accessories.pdf