

- DC switching • DC control input
- MOSFET or Transistor output • Load current 3...16 A
- Load voltage 100...400 V DC
- Dielectric strength 2 500 V_{rms} (photoelectric-isolation)
- TVS protection
- LED indicator (red)
- Flat insert connectors - faston 187 (4,8 x 0,5 mm)
- For plug-in sockets: on 35 mm rail mount acc. to EN 60715; on panel mounting
- Recognitions, certifications, directives ❶: RoHS, REACH, CE cULus

Applications

Suitable for the isolation and control of weak current to strong current, convenient for all kinds of computers and digital interfaces, widely used in various DC motors, DC power sources and various electromagnetic devices in the field of industrial automation.



Basic technical data

Load voltage: 100 V DC, 200 V DC, 400 V DC
Control input: DC
Load current: 3 A, 5 A, 10 A, 16 A

Type

Load voltage	Control voltage	DC switching Load current 3 A	5 A	10 A ❶	16 A ❶
100 V DC	4...32 V DC		**RSR88-10D5-T**	**RSR88-10D10-T**	**RSR88-10D16-T**
200 V DC			**RSR88-20D5-T**		
400 V DC		**RSR88-40D3-T**			

Load voltage

	RSR88-10.5..	**RSR88-10.10..**	**RSR88-10.16..**
Rated load voltage	100 V DC	100 V DC	
Rated range of load voltage	0...75 V DC	0...55 V DC	
TVS protection voltage	105...116 V DC	64,6...71,6 V DC	
Blocking voltage	150 V_{pk}	100 V_{pk}	

Load voltage

	RSR88-20...	**RSR88-40...**
Rated load voltage	200 V DC	400 V DC
Rated range of load voltage	0...132 V DC	0...300 V DC
TVS protection voltage	190...210 V DC	418...462 V DC
Blocking voltage	250 V_{pk}	600 V_{pk}

❶ The cULus certificate includes only versions RSR88-10D10-T, RSR88-10D16-T.

Control input

DC switching

	RSR88-..D...
Control voltage range	4...32 V DC
Must turn-on voltage	4 V DC
Must turn-off voltage	1 V DC
Maximum input current	18 mA 32 V DC

Output circuit ❷

	RSR88-...3...	RSR88-...5...
Rated load current	3 A	5 A
Rated load range	0,002...3 A	0,002...5 A
Maximum surge current	15 A 10 ms	25 A 10 ms
Maximum off-state leakage current (at rated load voltage)	0,1 mA	0,1 mA
Maximum on-state voltage drop (at rated current)	1,3 V DC	
Maximum on-state resistance drop (at rated current)		60 mΩ
Maximum turn-on time	0,3 ms	0,3 ms
Maximum turn-off time	0,3 ms	0,3 ms

Output circuit ❷

	RSR88-...10...	RSR88-...16...
Rated load current	10 A	16 A
Rated load range	0,002...10 A	0,002...16 A
Maximum surge current	50 A 10 ms	80 A 10 ms
Maximum off-state leakage current (at rated load voltage)	0,1 mA	0,1 mA
Maximum on-state resistance drop (at rated current)	10 mΩ	3 mΩ
Maximum turn-on time	0,3 ms	0,3 ms
Maximum turn-off time	0,3 ms	0,3 ms

General data ❷

	RSR88-...
Dielectric strength	input - output: 2 500 Vrms 50/60 Hz
Minimum insulation resistance	input - output: 1 000 MΩ 500 V DC
Ambient temperature (non-condensation and/or icing)	storage: -30...+100 °C operating: -30...+80 °C

❷ Data given for ambient temperature ≤ 25 °C. Above 25 °C the maximum current decreases - see "Thermal derating curves", page 4.

Mechanical data

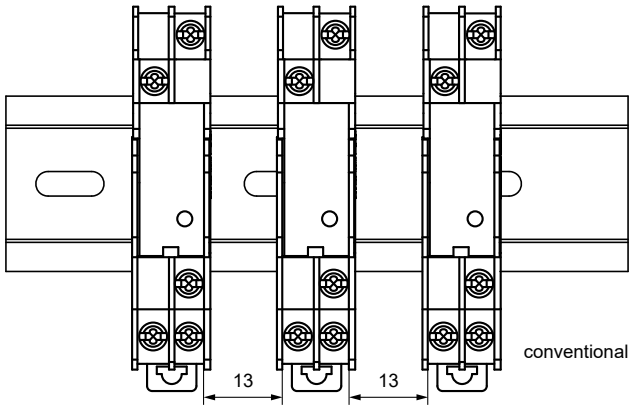
	RSR88-...	RSR88-... with socket GZMA-71
Dimensions (L x W x H)	32 x 13 x 43 mm	77 x 16 x 64 mm
Weight (typical)	20 g	50 g
Protection category EN 60529	IP 00	IP 20
Mounting on 35 mm rail mount	with socket GZMA-71	direct

Mounting

Relays **RSR88** are designed for mounting in plug-in sockets **GZMA-71**.
For conventional installation, the recommended minimum distance is 13 mm.

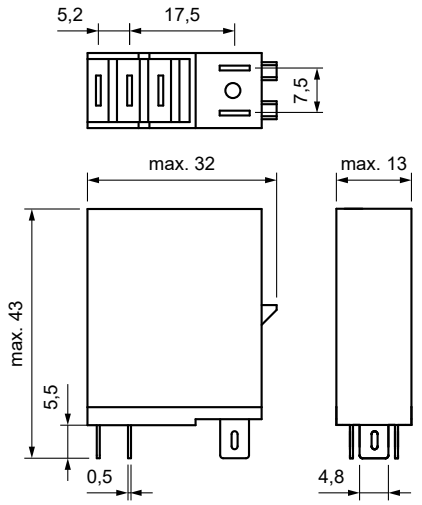
Sockets for RSR88	Accessories Retainer / retractor clips	Additional equipment
Screw terminals sockets, 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw)		
GZMA-71 ❸	GZ7-0040 black	ZGGZ80 ❹

❸ Socket is sold complete with retainer / retractor clip. ❹ Interconnection strips ZGGZ80 - see "Connecting accessories", page 5.

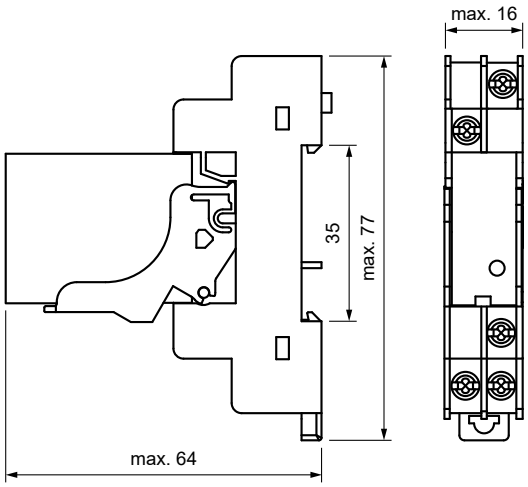


Dimensions

RSR88

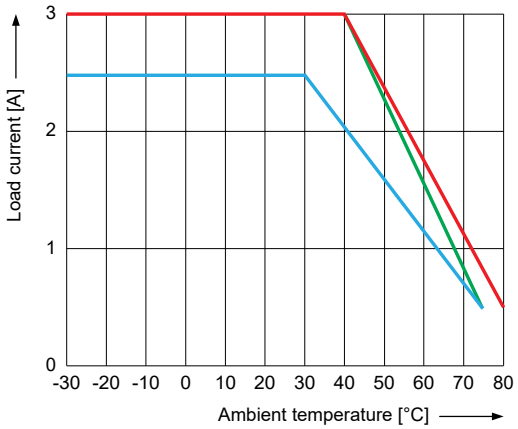


RSR88 (with socket GZMA-71)

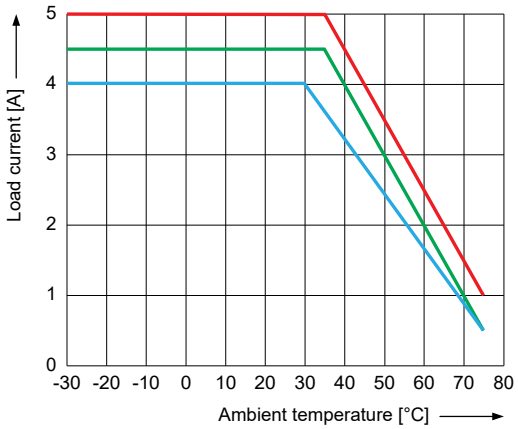


Thermal derating curves

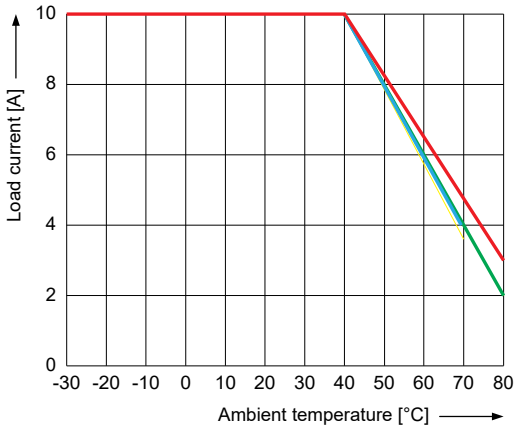
RSR88-...3 (with socket GZMA-71)



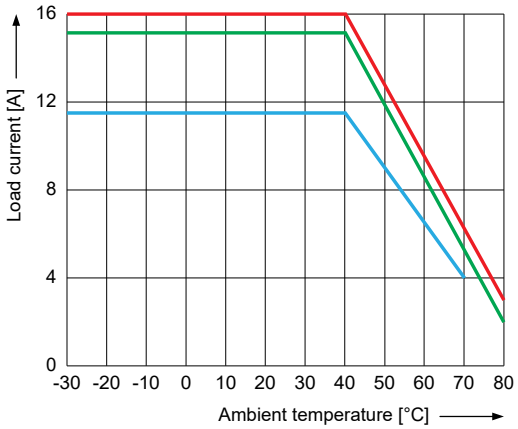
RSR88-...5 (with socket GZMA-71)



RSR88-...10 (with socket GZMA-71)

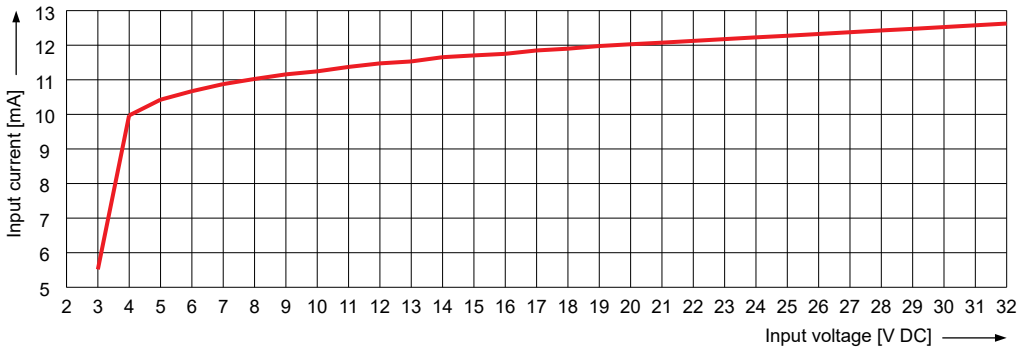


RSR88-...16 (with socket GZMA-71)



independent installation — conventional installation — close installation

Input characteristic ❺

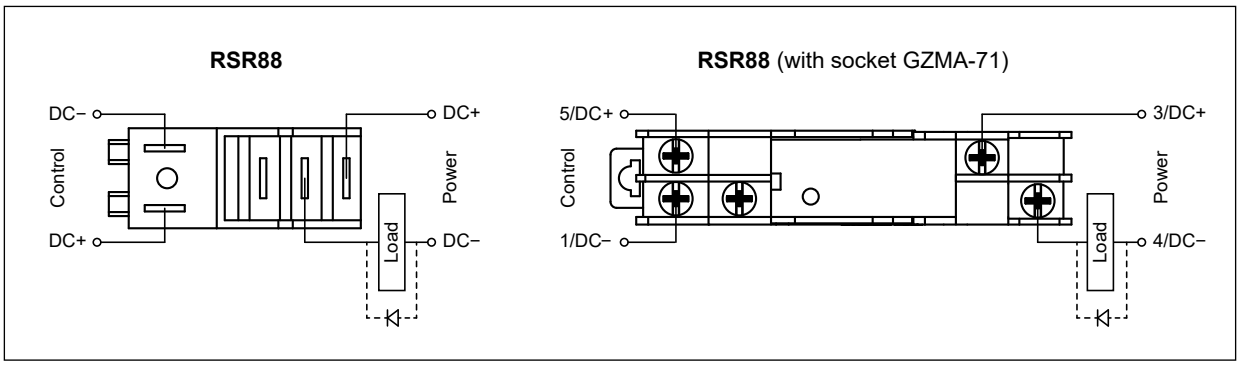


❺ The input curve is measured at ambient temperature 25 °C.

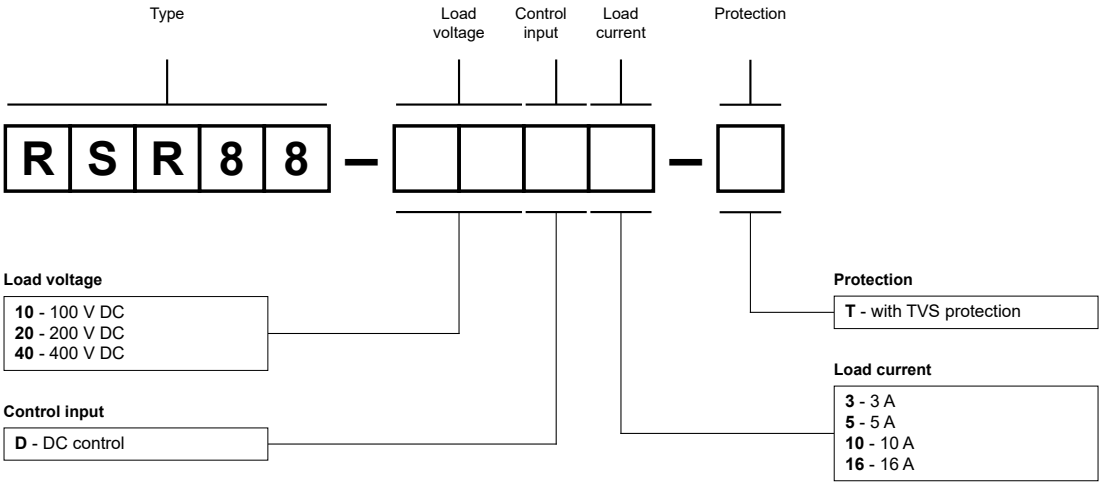
01.06.2026

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Connection diagrams



Ordering codes



Examples of ordering codes ❻:

RSR88-10D16-T relay **RSR88**, miniature for plug-in sockets, with TVS protection, DC control, load voltage 100 V DC, load current 16 A

RSR88-40D3-T relay **RSR88**, miniature for plug-in sockets, with TVS protection, DC control, load voltage 400 V DC, load current 3 A

❻ Ordering codes **RSR88** are specified in table "Type" on page 1.

Connecting accessories



ZGGZ80-1 grey
ZGGZ80-2 black

Plug-in sockets **GZMA-71** may be linked with interconnection strip type **ZGGZ80**.

Strips 8-poles ZGGZ80: unlimited possibilities of connection configurations in sockets GZMA-71 (bridging of common input signals of 8 sockets - A1, A2), fast, safe and easy bridging of signals on the coil, maximum permissible current is 10 A / 250 V AC.

