RSR86-35D12-32N



RSR86-35D12-32P



- DC switching (instantaneous commutation)
- DC control input (non polarized)
- MOSFET output • Load current 12 A
- Max. load voltage 35 V DC
- Dielectric strength 2 500 V_{rms} (opto-isolation)
- LED indicator (green)
- For PCB and plug-in sockets
- Recognitions, certifications, directives: RoHS, REACH,

Applications

Recommended for applications demanding fast switching speed, intelligent measuring instruments, PCB electronic systems.



Basic technical data

Load voltage: 0...35 V DC
Control input: DC
Load current: 12 A

Type		DC switching
Load voltage	Control voltage	Load current 12 A
0...35 V DC	10...32 V DC	**RSR86-35D12-32N**
		RSR86-35D12-32P

Load voltage

	RSR86-35...
Rated load voltage	24 V DC
Rated range of load voltage	0...35 V DC
Blocking voltage	35 V DC

Control input

DC switching

	RSR86-..D.-32.
Control voltage range	10...32 V DC
Must turn-on voltage	10 V DC
Must turn-off voltage	< 10 V DC
Rated input current	10,7 mA 24 V DC
Control current range	3,5...14,8 mA ±10%
Response time pick-up	< 0,05 ms
Response time drop-out	< 0,25 ms

Output circuit ❶

	RSR86-...12...
Rated load current	12 A up to 40 °C (stand alone installed)
Rated load range	0,1...12 A
Maximum surge current	120 A 10 ms
Min. operational current	1 mA
Maximum off-state leakage current (at rated load voltage)	0,01 mA
Maximum on-state voltage drop (at rated current)	0,05 V DC
Maximum on-state resistance	7,5 mΩ

General data ❶

	RSR86-...
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: -40...+100 °C operating: -20...+60 °C

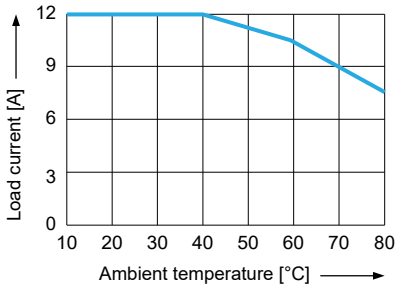
❶ Data given for ambient temperature ≤ 25 °C. Above 25 °C the maximum current decreases - see "Thermal derating curves", page 3.

Mechanical data

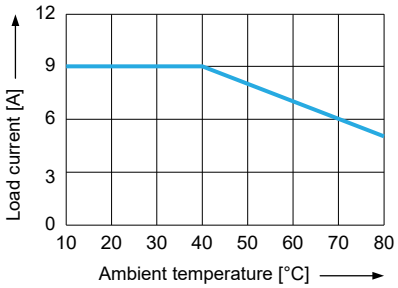
	RSR86-...
Dimensions (L x W x H)	29 x 12,7 x 15,7 mm
Weight (typical)	10,5 g
Application	PCB

Thermal derating curves

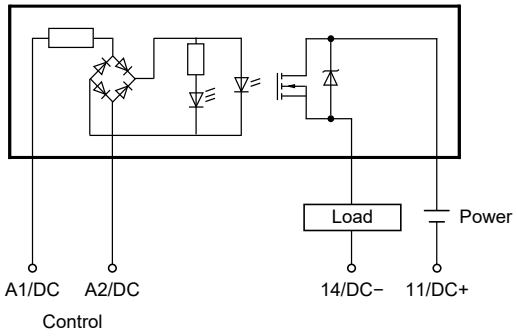
RSR86-...12
(stand alone installed)



RSR86-...12
(side by side installed)



Connection diagram



Mounting, sockets and accessories for relays

Relays **RSR86** are designed for: • direct PCB mounting • plug-in sockets.

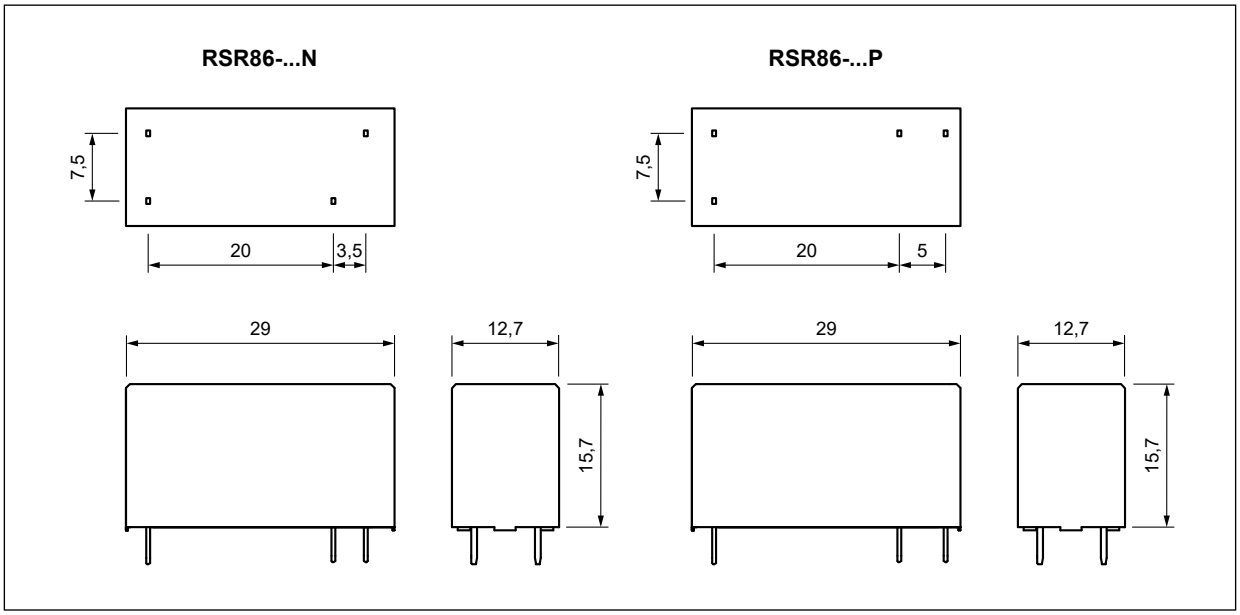
Sockets for RSR86-...P	Sockets for RSR86-...N	Accessories ❷		Additional equipment ❷
		Spring wire clips	Description plates	
Screw terminals sockets, 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw)				
GZT80	GZT92	GZM80-0041	GZT80-0035	ZGGZ80 ❸
GZM80	GZM92	GZM80-0041	GZT80-0035	ZGGZ80 ❸
Push-in terminals sockets, 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw)				
GZP80	–	GZM80-0041	MP15	ZGZP80-8, ZGZP80-2, ZGZP-2 ❸
Sockets for PCB				
PW80	–	MH16-2	–	–
EC 50	–	MH16-2	–	–
–	GD35	MH16-2	–	–

❷ Accessories and additional equipment must be ordered separately. ❸ Interconnection strips ZGGZ80, ZGZP... - see www.relpol.com.pl

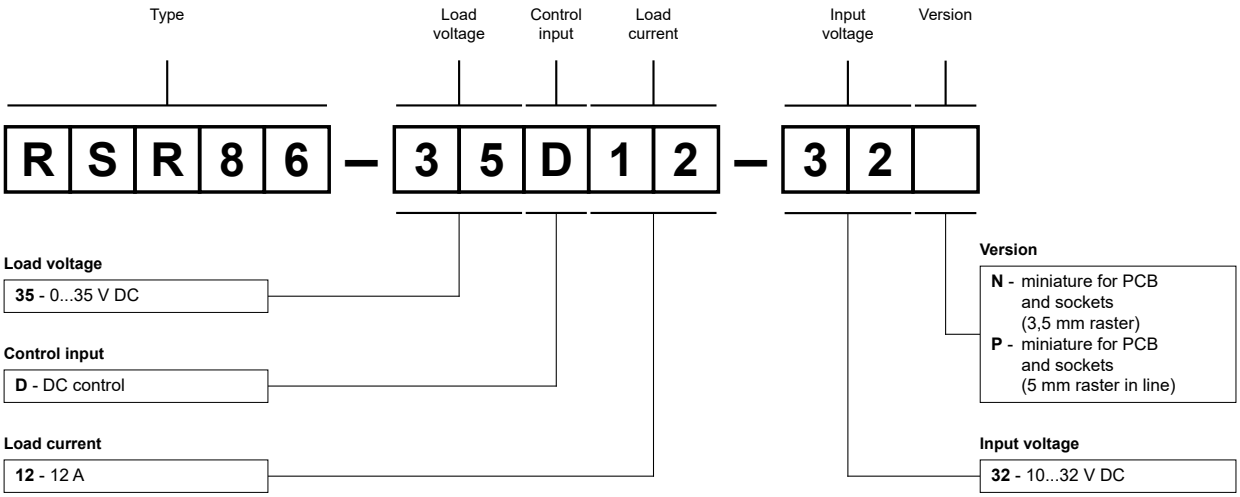
01.06.2026

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Dimensions



Ordering codes



Examples of ordering codes ❹:

RSR86-35D12-32N relay **RSR86**, miniature for PCB and sockets (3,5 mm raster), DC control, input voltage 10...32 V DC, load voltage 0...35 V DC, load current 12 A

RSR86-35D12-32P relay **RSR86**, miniature for PCB and sockets (5 mm raster in line), DC control, input voltage 10...32 V DC, load voltage 0...35 V DC, load current 12 A

❹ Ordering codes **RSR86** are specified in table "Type" on page 1.