

- ▶ PCB power relay
- ▶ Solderable and pluggable
- ▶ 2 change over contacts
- ▶ VDE, UL, cUL



Technical data

1. Mechanical design

Self-extinguishing plastic housing, IP rating IP40
 Mounting position: any
 Weight: 14g

2. Coil

AC-version:

Type	Rated voltage AC
RP 524-2	24V
RP 615-2	115V
RP 730-2	230V
RP 730-hv	230V

hv gold-plated contacts

Rated consumption (50Hz): 0.7VA
 Rated frequency: 50/60 Hz
 Must release voltage: $\geq 0.15 \times U_N$
 Tolerance: 0.8 to 1.1 x U_N

DC-version:

Type	Rated voltage DC
RP 012-2	12V
RP 024-2	24V
RP 024-hv	24V

hv gold-plated contacts

Rated consumption: 0.4W
 Must release voltage: $\geq 0.1 \times U_N$
 Tolerance: 0.7 to 2.55 x U_N

3. Contacts

AC-version:

Switching voltage: max. 250V AC resp. 150V DC
 min. 5V
 Switching current: max. 8A
 min. 10mA
 Inrush current: max. 10A
 Switching capacity: 1000VA (8A / 250V AC)
 100W (8A / 12.5V DC)
 Resistance: $\leq 100m\Omega$
 Switching frequency: 120/min without load
 10/min at rated load
 Contact material: AgNi 90/10

DC-version:

Switching voltage: max. 400V AC resp. 300V DC
 min. 5V
 Breaking current: max. 8A
 min. 5mA
 Inrush current: max. 30A
 Switching capacity: 2000VA (8A / 400V AC)
 190W (8A / 24V DC)
 Resistance: $\leq 100m\Omega$
 Switching frequency: 1200/min without load
 10/min at rated load
 Contact material: AgNi 90/10

4. General data

AC-version:

Response time: 10ms
 Release time: 8ms
 Mechanical life: 20 x 10⁶ operations
 Electrical life: 1.5 x 10⁵ operations at rated load
 Vibration resistance: 4g
 Shock resistance: 5g

DC-version:

Response time: 7ms
 Release time: 3ms
 Mechanical life: 30 x 10⁶ operations
 Electrical life: 1.5 x 10⁵ operations at rated load
 Vibration resistance: 10g normally closed contact
 5g normally open contact
 Shock resistance: 20g

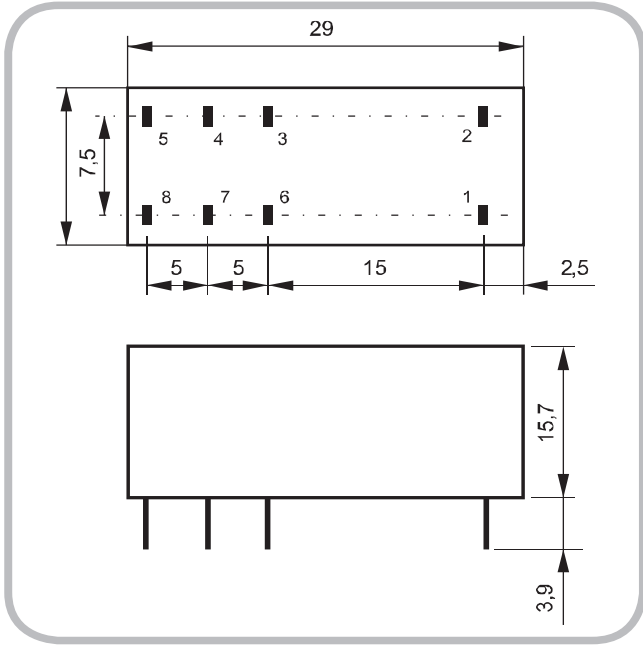
5. Insulation

Coil - Contact (50Hz): 5000V AC
 Contact - contact: 2500V AC
 Terminal - terminal: 1000V AC
 Insulation category: C250 / B400
 (according to DINVDE 110)
 Surge voltage: 2.5kV AC

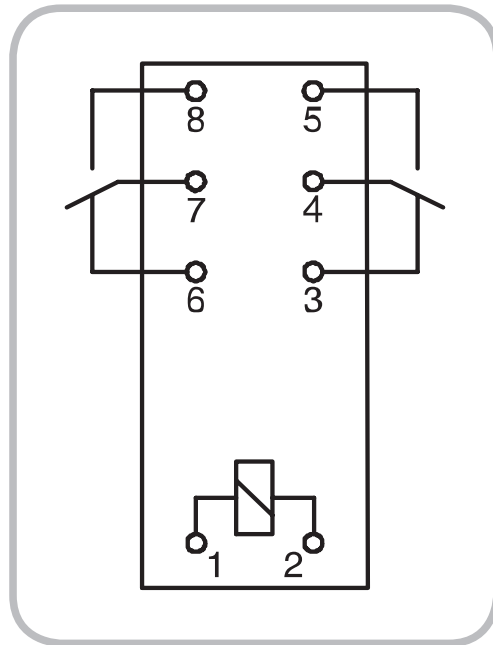
6. Ambient conditions

Ambient temperature: -40 to +70°C (according to IEC 68-1)
 Storage temperature: -40 to + 85°C
 Soldering temperature: max. 270°C / 5s
 Pollution degree: 3 (according to IEC 664-1)

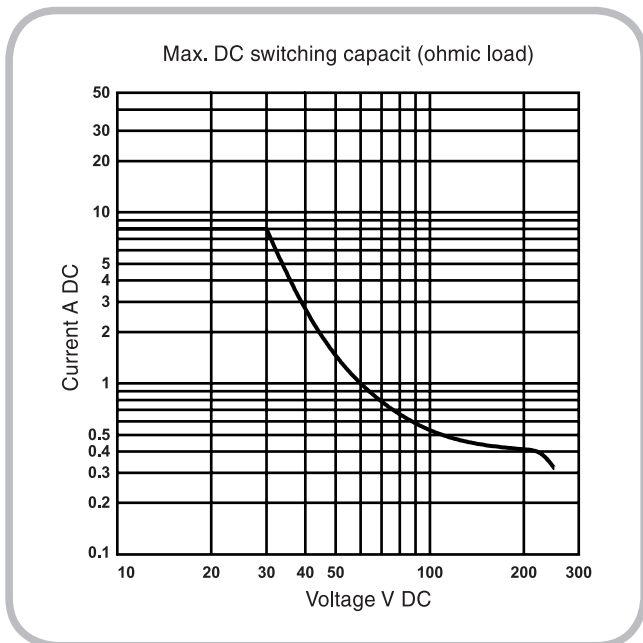
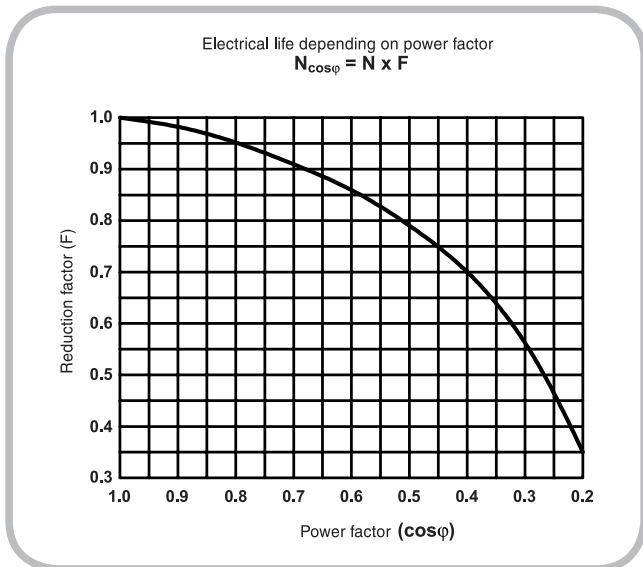
Dimensions



Connections



Reduction factors



Socket and accessories

ES 50, ES 50/3, PSS8/3

1. General data

- Self-extinguishing plastic housing
- Mounted on DIN-Rail according to EN 50022
- Mounting position: any
- Shockproof terminal connection according to VBG 4 (Philips Gr.1 required), IP rating IP 20
- Initial torque: 0.7 Nm
- Screw terminals:
 - 1 x 0.5 to 2.5mm² with/without multicore cable end
 - 1 x 4mm² without multicore cable end
 - 2 x 0.5 to 1.5mm² with/without multicore cable end
 - 2 x 2.5mm² flexible without multicore cable end
- Ambient temperature: -40 to +85°C ES 50, ES 50/3
 -25 to +100°C PSS8/3
- Surge voltage: >3000V
- Approvals: UL

Type	Plug-in modules	Name plate	Retaining clip
ES 50 (TPE 8)	Type x2	included	HB/RP
ES 50/3	Type x2		HB/PSS
PSS8/3 (7564)	EM x		

Plug-in modules type x2 (TP series)

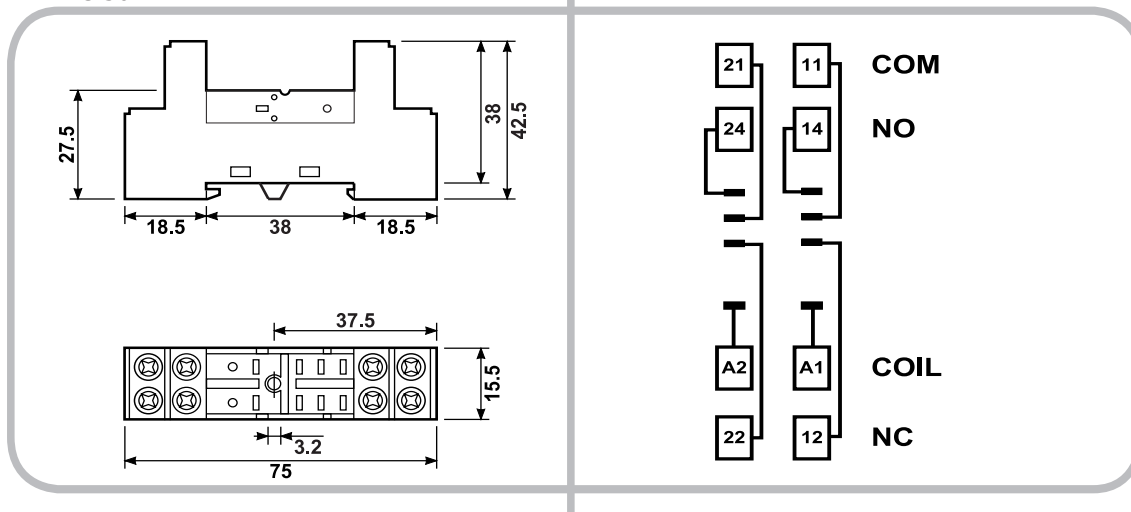
Type	Function	Height 27mm (mounted)
Typ 12 (TPD2)	Diode 6-220V DC (+A2, -A1)	
Typ 22 (TPD1)	Diode 6-220V DC (- A2, +A1)	
Typ 32 (TPL2)	LED + Diode 6-24V DC (+A2, -A1)	
Typ 42 (TPL1)	LED + Diode 6-24V DC (-A2, +A1)	
Typ 52 (TPR)	RC module 110-230V AC	
Typ 62 (TPL3)	LED 6-24V AC/DC	
Typ 72 (TPV1)	Varistor 24V AC	
Typ 82 (TPV2)	Varistor 230V AC	
Typ 92 (TPL4)	LED 110-230V AC/DC	

Plug-in modules EM series

Type	Function	Height 28mm (mounted)
EM 03	RC module 110-230V AC	
EM 04	Varistor 24V AC	
EM 05	Varistor 230V AC	
EM 10	LED 110-230V AC	
EM 11	LED 6-24V AC/DC	
EM 12	LED+Diode 6-24V DC	

Dimensions

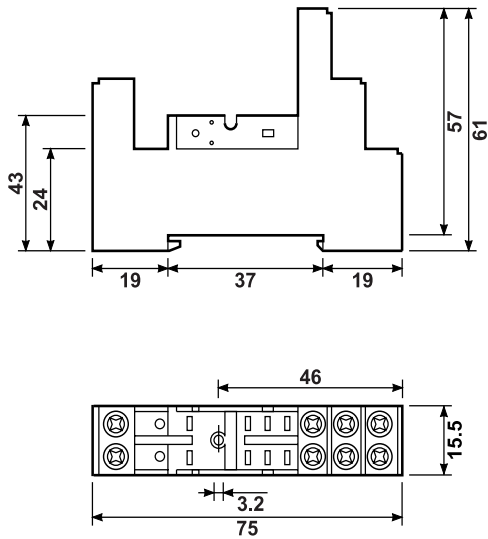
ES 50



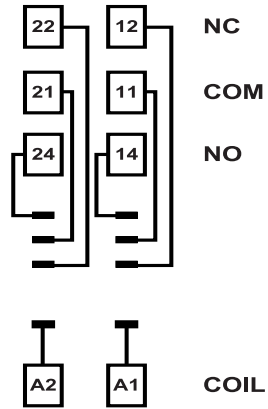
Connections

Dimensions

ES 50/3



Connections



PSS8/3

