

Woertz

151 Discovery Drive #111
 Colmar, PA 18915
 Tel: (215) 997-8855; Fax: (800) 522-3868
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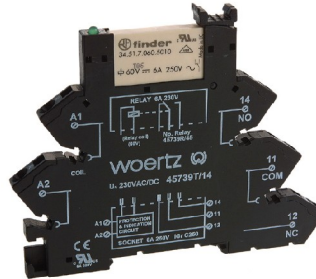
Features

- Compact: 45739= 6.2mm with spring terminals and 45740= 15.8mm with screw terminals
- Easy to exchange relay
- Relay clip removes relay
- 6kV insulation distance between coil and contact sides according to VDE160/EN50178
- 6mm air and 8mm creepage distance
- CUL-listed and CE conformity
- Attachable to 35mm DIN rail

Accessories

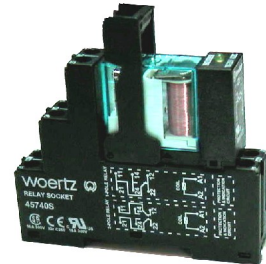
- Side jumpers for 45739T/..: **45739CC/20**
- Side jumpers for 45740S: **45740CC/8**
- Relays: See separate Relay sheet
- Labels (1 piece is included):
45739L/64 (64 pieces)
 and **45740L/1** (1 piece)
- LED plug modules for 45740S:
45744M1/2 (6-24VDC), **45744M1/3** (48-60VDC), **45744M1/14** (110-240VAC)

Type: 45739T/..
 SPDT relay socket,
 spring terminals 6.2mm wide



DELIVERY WITHOUT RELAY

Type: 45740S
 Socket for SPDT or DPDT
 relays, 15.8mm wide



DELIVERY WITHOUT RELAY AND
 INDICATION MODULE

Technical Data (T_a=25°C)

Contacts

Contact configuration
 Contacts voltage/ current

1 change-over contact (type C)
 250V / 6A

for 1 / 2 change-over contacts
 250V / 10A
 for continuous current > 10A
 (relay with 8 pins), jumpers
 must be placed between
 terminals 11-21, 14-24, 12-22

Relay

Relay-characteristics
 Operating ambient temperature
 Coil indication

see relay data sheet
 -40°C...+70°C
 green LED

see relay data sheet
 40°C...+70°C
 plug modules available,
 see accessory data sheet

General information

Connection
 Max. wire size:

single wire
 multi conductor
 single wire
 multi conductor

spring terminals

screw terminals
 1 x 6mm² / 2 x 2.5mm²
 1 x 4mm² / 2 x 2.5mm²
 1 x 10AWG / 2 x 14AWG
 1 x 12AWG / 2 x 14AWG

Recommended removal of cable insulation

Test voltage coil/contacts

6kV (8mm / 1.2 / 50µs)

6kV (8mm / 1.2 / 50µs)

Protection level

IP20

IP20

Mounting

on DIN-rail EN60715 TH35

on DIN-rail EN60715 TH35

Size L x H x W

6.2 x 93 x 73mm

15.8 x 78.6 x 71.8mm

Delivery includes

1x relay socket with LED-
 indication (without relay),
 1x label

1x relay socket with clip
 (without relay and
 indication/protection module)
 1x label

Part numbers

5-24V DC/AC
 48-60V DC/AC
 115V AC
 230V AC
 5-250V DC/AC

45739T/12
45739T/13
45739T/15
45739T/14

45740S

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Features

- Relays for the Woertz relay sockets
- Used relays easy to exchange
- Secure isolation between coil and contact 6kV according to VDE160/EN50178
- 6mm air and 8mm creepage distance
- CUL-listed and CE conformity

On request

- Other contact material
- Other coil voltage



5 pins

8 pins

8 pins

Relay overview

Technical Data (T_a=25°C)

Contact specification

Type	1 pole	1 pole	2 pole
Rated current / max. peak current	6A / 10A	16A / 120A	8A / 15A
Rated voltage / max. switching voltage	250 / 400*VAC	250 / 400*VAC	250 / 250VAC
<small>* For 400V applications, where requirement for pollution degree 2 are met</small>			
Rated load AC1 / AC15 (230VAC)	1.5kVA / 300VA	2.5kVA / 500VA	2.0kVA / 500VA
Single phase motor rating AC3 (230VAC)	0.185kW	0.37kW	0.3kW
Breaking capacity DC1: 30 / 110 / 220V	6 / 0.2 / 0.12A	16 / 0.3 / 0.12A	8 / 0.3 / 0.12A
Min. switching load	500mW (12V / 10mA)	500mW (5V / 5mA)	500mW (5V / 5mA)
Standard contact material	AgNi	AgSnO ₂	AgNi
Connection to contact	single (3 pins)	double (6 pins)	2x single (6 pins)

Coil specifications

Nominal voltage	AC (50 / 60Hz)	DC	115 / 230V	115 / 230V
			5 / 12 / 24 / 48 / 60V	5 / 12 / 24 / 48V
Rated power	AC / DC.	- / 0.17W	1.2VA / 0.5W	1.2VA / 0.5W
Operating range	AC (50Hz)	-	(0.8...1.1)U _N	(0.8...1.1)U _N
	DC	(0.7...1.5)U _N	(0.73...1.75)U _N	(0.73...1.75)U _N
Holding voltage	AC / DC	- / 0.4U _N	0.8 / 0.4U _N	0.8 / 0.4U _N
Must drop-out voltage	AC / DC	- / 0.05U _N	0.2 / 0.1U _N	0.2 / 0.1U _N

General data

Mechanical life expectancy	10 ⁷ cycles	>10 ⁷ cycles	>10 ⁷ cycles
Operate / release time	5 / 3ms	7 / 3ms (12 / 4ms sens.)	7 / 3ms (12 / 4ms sens.)
Insulation according to EN61810-1 ed. 2	4kV / 3	4kV / 3	4kV / 3
Insulation between coil and contacts (1.2 / 50µs)	6kV (8mm)	6kV (8mm)	6kV (8mm)
Dielectric strength between open contacts	1kV	1kV	1kV
Ambient temperature range > 60V	-40...55°C	-40...70°C	-40...70°C
Environmental protection	RT II	RT I	RT I

Part number

5VDC	45739R/7	45740R/7	45740R2/7
12VDC	45739R/1	45740R/1/1	45740R2/1
24VDC	45739R/2	45740R/1/2	45740R2/2
48VDC	45739R/3	45740R/1/3	45740R2/3
60VDC	45739R/8	-	-
115VAC		45740R/1/5	45740R2/5
230VAC		45740R/1/4	45740R2/4

115 & 230VAC: 60V- relay types are used with the Woertz relay sockets (45739T/15 and 45739T/14)