

# Relay modules

# flare



**250 V AC / 300 V DC, 6 A  
1 Changeover contact (SPDT)**

Approvals: , CSA



**48 V DC, 20 mA  
1 Changeover contact (SPDT)**

Approvals: , CSA

Overall width 6.2 mm  
Screw or spring clamp terminal  
can be selected

Dimensions (mm): W x H x D  
6.2 x 89 x 70

Operating voltage	Screw terminal			Spring-clamp			Std. pack			
	Screw terminal	Spring-clamp	Std. pack	Screw terminal	Spring-clamp	Std. pack	Screw terminal	Spring-clamp	Std. pack	
<b>12 V DC</b>										
<b>24 V DC</b>										
<b>12 V AC/DC</b>										
<b>24 V AC/DC</b>							80.010.4005.0	80.010.4105.0	10	
<b>115 V AC</b>										
<b>230 V AC</b>										
<b>Wiring diagram, derating curve, limit curve</b>	<b>See pages 464-465</b>						<b>See pages 464-465</b>			
<b>Coil circuit</b>										
Operating voltage	<b>12 V DC</b>	<b>24 V DC</b>	<b>115 V DC</b>	<b>230 V DC</b>						
Range of voltage	UB +25 %/-20 %				UB +25 %/-20 %					
Nominal input current	18 mA	ca. 14 mA	3.9 mA	3 mA	ca. 14 mA					
Nominal input capacity	0.22 W	ca. 0.35 W	0.48 W	0.65 W	ca. 0.35 W					
Holding current at 20 °C	≥ 2.3 mA	> 1.2 mA	≥ 0.6 mA	≥ 0.3 mA	> 1.2 mA					
Connectable via plug-in jumper	Up to 50 modules				Up to 50 modules					
Status display	LED Green				LED Green					
<b>Switching characteristics</b>										
Maximum switching voltage	250 V AC / 300 V DC				48 V DC					
Maximum switching current	6 A AC / 2 A DC				20 mA					
Maximum switching capacity	1500 VA / 48 W				1 W					
Maximum starting current	10 A; 4 sec.									
Pickup/dropout delay	8 ms / 10 ms				8 ms / 10 ms					
Chatter time	2 ms				2 ms					
Maximum switching frequency	20 Hz				20 Hz					
Contact material	AgSnO <sub>2</sub>				AgSnO <sub>2</sub> + 3μ Au					
Minimum switchable voltage	12 V				5 V					
Minimum switchable current	5 mA				1 mA					
Mechanical endurance	2 x 10 <sup>7</sup>				2 x 10 <sup>7</sup>					
Electrical endurance 24 V DC / 2 A	6 x 10 <sup>5</sup>				6 x 10 <sup>5</sup>					
Electrical endurance 230 V AC / 6 A	8 x 10 <sup>4</sup>				8 x 10 <sup>4</sup>					
Rated voltage										
Isolation voltage of input/output	4 kV <sub>eff</sub>				4 kV <sub>eff</sub>					
Overvoltage category	III (according to HD 625.1S1)				III (according to HD 625.1S1)					
Degree of pollution	2 (according to HD 625.1S1)				2 (according to HD 625.1S1)					
Ambient temperature	0 °C...+50 °C				0 °C...+50 °C					
Storage temperature	-40 °C...+55 °C				-40 °C...+55 °C					
Protection type/mounting rail	IP 20 / TS35				IP 20 / TS35					
Norms/specifications	VDE 0160; VDE 0106 T101				VDE 0160; VDE 0106 T101					
Emitted interference/interference immunity	EN 61000-6-3; EN 61000-6-2				EN 61000-6-3; EN 61000-6-2					
Wire range of screw terminal/spring clamp terminal	24 - 10 AWG / 24 - 12 AWG				24 - 10 AWG / 24 - 12 AWG					
finely stranded	0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup>				0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup>					
single core	0.5 mm <sup>2</sup> - 2.5 mm <sup>2</sup>				0.5 mm <sup>2</sup> - 2.5 mm <sup>2</sup>					
CSA EX approval	Class I, Division 2, Groups A, B, C and D, T6				Class I, Division 2, Groups A, B, C and D, T6					
<b>Accessories</b>										
Plug-in jumper (U <sub>max</sub> = 50 V, I <sub>max</sub> = 2 A)	Z8.000.0200.8				Z8.000.0200.8					
8 digit marker tag, unmarked, 60 off	Z4.242.5153.0				Z4.242.5153.0					
Comb for potential distribution, red/blue*	Z8.000.0202.3 / Z8.000.0202.4				Z8.000.0202.3 / Z8.000.0202.4					
End caps for comb red/blue	Z8.000.0202.1 / Z8.000.0202.2				Z8.000.0202.1 / Z8.000.0202.2					
* for screw terminals only										