

# 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
<b>12 V DC</b>		80.010.4106.0	10			
<b>24 V DC</b>	80.010.4000.0	80.010.4100.0	10			
<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>		80.010.4131.0	10			
<b>230 V AC</b>		80.010.4141.0	10			
<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					
finely stranded	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>					
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						

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