



N290

47.0×32.0×28.5

 [®] US E160644

Features

- 25A switching;
- 2.5kV dielectric strength;
- Panel mount, universal mounting bracket;
- Quick-connect terminals.

Contact Data

Contact Arrangement	1A (SPSTNO) ,1B (SPSTNC) ,1C (SPDTNC(B-M)) 1A+1B(SPSTNO+SPSTNC)			
Contact Material	AgCdO			
Contact Rating(Resistive)	1A	1B	1C	1A+1B
	25A/277VAC 12FLA/125VAC	18A/277VAC 12FLA/125VAC	NO:25A/277VAC NC:18A/277VAC 14FLA/125VAC	NO:25A/277VAC NC:18A/277VAC 14FLA/125VAC
Max. Switching Power	6925VA			
Max. Switching Voltage	277VAC		Max. Switching Current:25A	
Contact Resistance or Voltage drop	≤200mΩ (at 1A/14VDC)		Item 4.12 of IEC 61810-7	
Operation life	Electrical	10 ⁵		Item 4.30 of IEC 61810-7
	Mechanical	10 ⁶		Item 4.31 of IEC 61810-7

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ± 10%	Pick up voltage VDC(max) (75% of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
012-2400	12	13.2	60	9	1.2	2.4	≤25	≤25
024-2400	24	26.4	240	18	2.4			
048-2400	48	52.8	960	36	4.8			
120-2400	120	132	6000	90	12			

Coil Parameter

Dash numbers	Coil voltage VAC		Coil resistance Ω ± 10%	Pick up voltage VAC(max) (85% of rated voltage)	Release voltage VAC(min) (20% of rated voltage)	Coil power consumption VA	Operate Time ms	Release Time ms
	Rated	Max.						
024AC	24	26.4	77	20.4	4.8	4	≤25	≤25
048AC	48	52.8	280	40.8	9.6			
120AC	120	132	2000	102	24			
240AC	240	264	6000	204	48			
277AC	277	305	7250	235	55			

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	500MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 1000V 50Hz 2500V	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	Functional:98m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~55Hz Double amplitude Functional 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	10N	IEC 68-2-21 TestUa1 and Ua2
Ambient Temperature	-20℃~40℃	
Relative Humidity	98% (at 40℃)	IEC 68-2-3 Test Ca
Mass	80g 70g(C type,S type)	

Safety approvals

Safety approval	UL&CUR	
Load	14FLA/84LRA,120VAC 8FLA/48LRA,250VAC 7FLA/42LRA,277VAC 25A/277VAC 7FLA/42LRA,277VAC(1A)	

Dimensions

mm /inch

