J115F2 50amp

31.9 x 26.8 x 28.1 mm

Features

- 50A version
- Small size and light weight, low coil power consumption
- Heavy contact load, strong shock and vibration resistance

TÜV

c UL us E197852

RoHS COMPLIANT

Contact Data*

UL Contact Rating	N.O.	50A @ 240VAC Resistive, 10K cycles 40˚C
	N.C.	35A @ 240VAC Resistive, 10K cycles 40˚C
TÜV Contact Rating	N.O.	50A @ 240VAC Resistive, 10K cycles 85˚C

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT
Contact Resistance	< 30 milliohms initial
Contact Material	$AgSnO_2$, $AgSnO_2In_2O_3$
Maximum Switching Power	1200W, 12000VA
Maximum Switching Voltage	277VAC, 110VDC
Maximum Switching Current	50A

Coil Data DC Parameters*

Coil Voltage VDC		Coil Resistance Ω +/- 10%		Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	.9W	1.5W	75% of rated voltage	10% of rated voltage			
5	6.5	28	16.7	3.75	.5	.9W 1.5W	15	10
9	11.7	90	54	6.75	.9			
12	15.6	160	96	9.00	1.2			
24	31.2	640	384	18.00	2.4			
48	62.4	2560	1536	36.00	4.8			

Coil Data AC Parameters*

Coil Voltage VAC		Coil Resistance Ω +/- 10%	Pick Up Voltage VAC (max)	Release Voltage VAC (min)	Coil Power VA	Operate Time ms	Release Time ms
Rated	Max	2.7VA	75% of rated voltage	30% of rated voltage			
24	31.2	96	18.0	7.2	2.7VA	15	10
120	156	2320	90.0	36.0			
220	286	9500	165.0	66.0			
240	312	11600	180.0	72.0			
277	360	15600	207.0	83.1			

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General Data*

Electrical Life @ rated load	100K cycles, average
Mechanical Life	10M cycles, avereage
Insulation Resistance	100M Ω min. @ 500VDC initial
Dielectric Strength, Coil to Contact	2500V rms min. @ sea level initial
Contact to Contact	1500V rms min. @ sea level initial
Shock Resistance	200m/s^2 for 11 ms
Vibration Resistance	1.50mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature	-55ºC to +125ºC F Class
Storage Temperature	-55ºC to +155ºC F Class
Solderability	260ºC for 5 s
Weight	35g

* *Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.*

Ordering Information

1. Series	J115F2	1A	H		12VDC	S		1.5	
J115F2									
2. Contact Arrangement 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT									
3. Contact Rating H = 50A									
4. Profile Blank = Standard Profile									
5. Coil Voltage 5VDC 9VDC 12VDC 24VDC 48VDC		24VAC 120VAC 220VAC 240VAC 277VAC							
6. Sealing Option S = Sealed standard									
7. Dielectric Strength 6 = Standard dielectric strength									
8. Coil Power .9 = .9W 1.5 = 1.5W Blank = 2.7VA (AC coil)									
9. Contact Material Blank = $AgSnO_2$ U = $AgSnO_2In_2O_3$									

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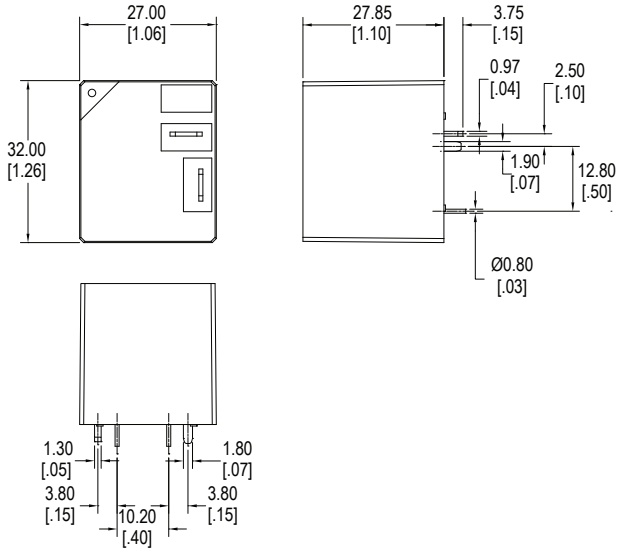
Dimensions

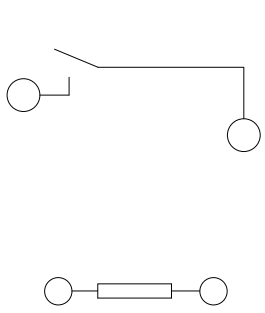
Units = mm



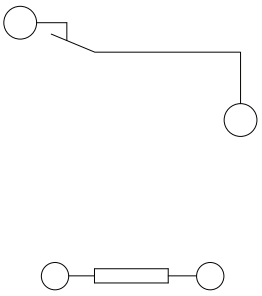
***** Quick Connect Terminals :***
Contacts - 6.35 x .81mm (.250" x .032")

Schematics & PC Layouts

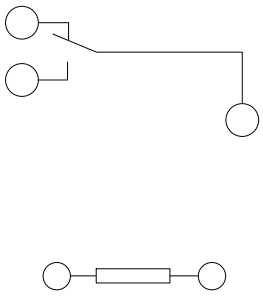
Bottom View



1A



1B



1C