PLT SERIES SPDT 20,25 Amp

c UL us
File No.:E75887

File No.:R 50267950

RoHS Compliant

FEATURES

- 20A or 25A switching capability
- Surge voltage up to 6kV (between coil and contacts)
- 1 Form C and 1 Form A configurations available
- Dust Cover Type, Flux Free Type and Sealed Type is available

CONTACT RATINGS

Contact Arrangement	1A, 1C	
Contact Resistance	≤100mΩ(1A 24VDC)	
Contact Material	Silver alloy	
Contact Rating(Resistive)	NO:20A 277VAC NC:16A 125VAC	NO:25A 125VAC 17A 277VAC NC:20A 125VAC
Max. Switching Voltage	400VAC	400VAC(NO)
Max. Switching Current	20A	25A
Max. Switching Power	4700VA	5540VA
Mechanical Life	1×10^7 operations	
Electrical Life	1×10^5 operations	5×10^4 operations

ORDERING INFORMATION

PLT F 1C 20 DC24 - 1 - XXXX

Model

F:Class F Nil:Class B

Contact Arrangement:
1A=1 Form A 1C=1 Form C

Contact Rating:
20=20A(Standard Pin)
25=25A(Wide Pin)

Coil Voltage

1:Dust Cover Type 2:Flux Free Type Nil:Sealed Type

Customer code

CHARACTERISTICS

Insulation Resistance		100MΩ (at 500VDC)
Dielectric Strength	Between coil & contacts	2500VAC 1min
	Between open contacts	1000VAC 1min
Surge voltage(between coil & contacts)		6kV(1.2×50μs)
Operate time (at nomi. volt.)		≤10ms
Release time (at nomi. volt.)		≤5ms
Humidity		5% ~ 98% RH
Ambient temperature		Class B:-40°C~85°C; Class F:-40°C~105°C
Shock Resistance	Functional	98m/s²
	Destructive	980m/s²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Unit weight		Approx. 14g
Construction		Sealed Type, Dust Cover Type, Flux Free Type

COIL DATA at 23°C

Nominal Voltage VDC	Pick-up Voltage (Max.) VDC	Drop-out Voltage (Min.) VDC	Max. Allowable Voltage VDC	Coil Resistance Ω±10%	
				20A	25A
3	2.25	0.3	3.9	25	20
5	3.75	0.5	6.5	70	55
6	4.50	0.6	7.8	100	80
9	6.75	0.9	11.7	225	180
12	9.00	1.2	15.6	400	320
18	13.00	1.8	23.4	900	720
24	18.00	2.4	31.2	1600	1280
48	36.00	4.8	62.4	6400	5120

COIL

Coil Power	20A:360mW 25A:450mW

Notes:1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curved below.

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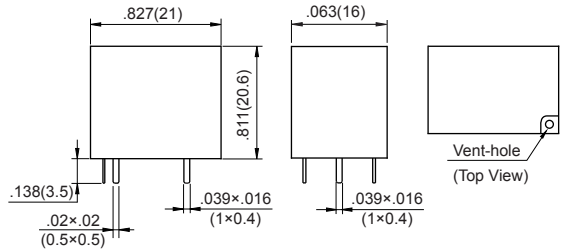
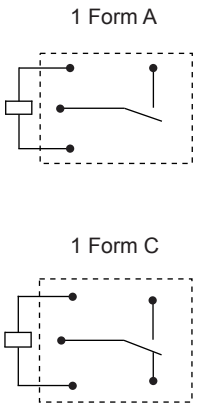
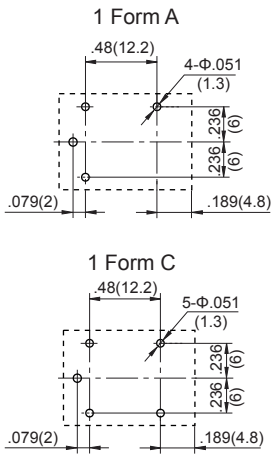
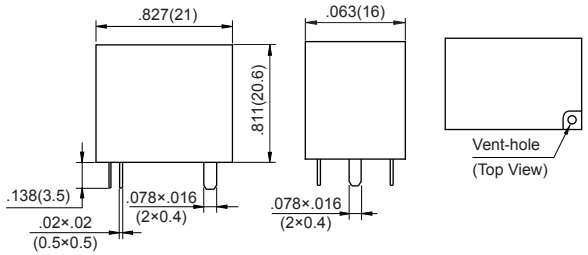
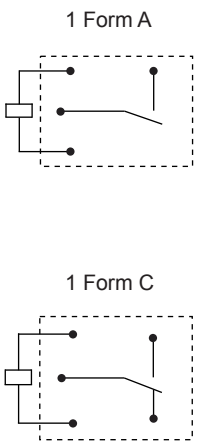
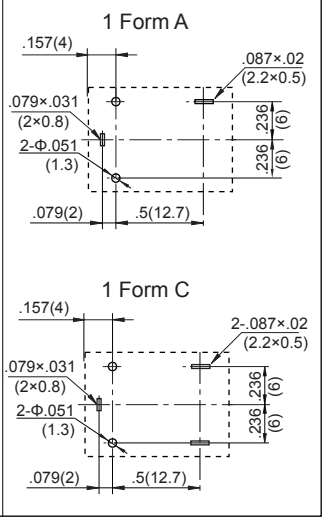
SAFETY APPROVAL RATINGS

UL&CUL	NO	20A	20A/277VAC GP Load 10A/120VAC, 5A/240VAC Resistive Load
		25A	25A/125VAC, 17A/277VAC GP Load 1500W/277VAC Ballast, 1700W/120VAC Tungsten
	NC	20A	16A/125VAC GP Load 10A/120VAC Resistive Load
		25A	20A/125VAC GP Load 1500W/277VAC Ballast, 1700W/120VAC Tungsten

TüV	NO:16A/250VAC; 50/60Hz NC:10A/250VAC; 50/60Hz

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

	Outline Dimensions	Wiring Diagram (Bottom view)	PCB Layout (Bottom view)
20A			
25A			

Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm,tolerance should be ±0.2mm; outline dimension ＞1mm and ≤5mm,tolerance should be ±0.3mm;outline dimension ＞5mm, tolerance should be ±0.4mm.

2) The tolerance without indicating for PCB layout is always ±0.1mm.

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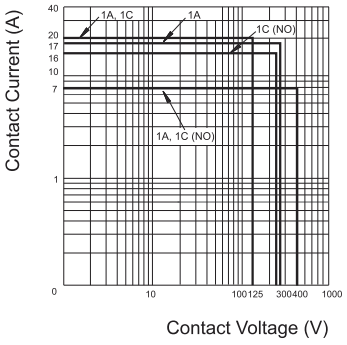
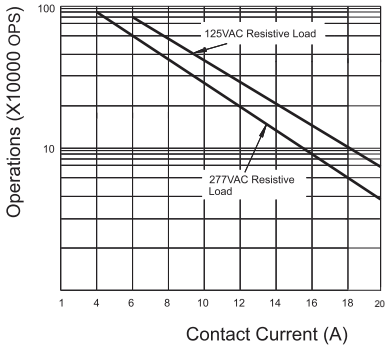
CHARACTERISTIC CURVES

20A

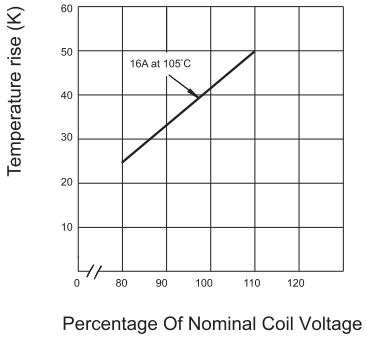
MAX. SWITCHING POWER



ENDURANCE CURVE (N.O.)

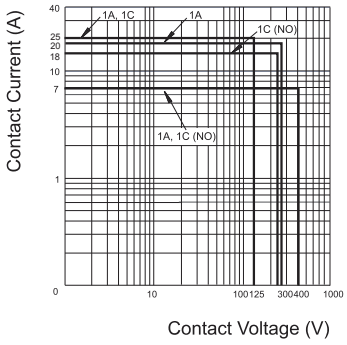


COIL TEMPERATURE RISE

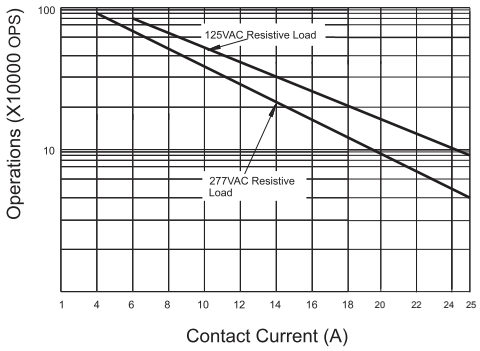


25A

MAX. SWITCHING POWER



ENDURANCE CURVE (N.O.)



COIL TEMPERATURE RISE