



File No.:E75887



File No.:R 50267950



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

Model PLT F 1C 20 DC24 - 1 - XXXX

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/s ²
	Destructive	980m/s ²
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
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Notes:1) The data shown above are initial values.

2) Please find coil temperature curve in the characteristic curved below.

This datasheet is for customers' reference. All the specifications are subject to change without notice.



* SINCE 1976 *

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RELAYS

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
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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 $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

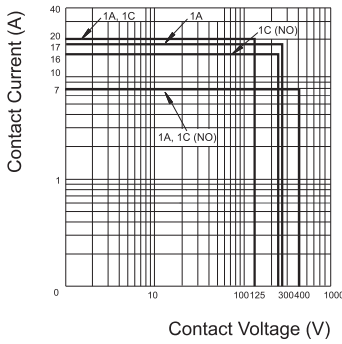
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

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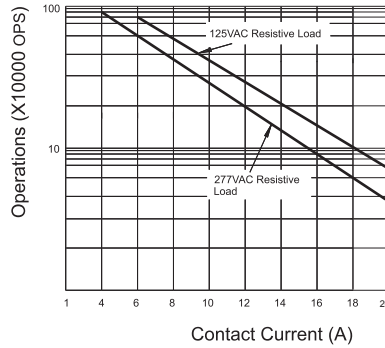
CHARACTERISTIC CURVES

20A

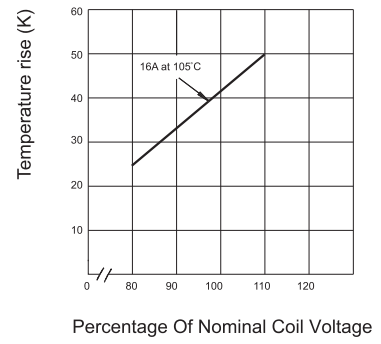
MAX. SWITCHING POWER



ENDURANCE CURVE (N.O.)

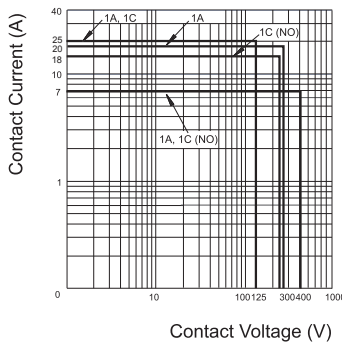


COIL TEMPERATURE RISE

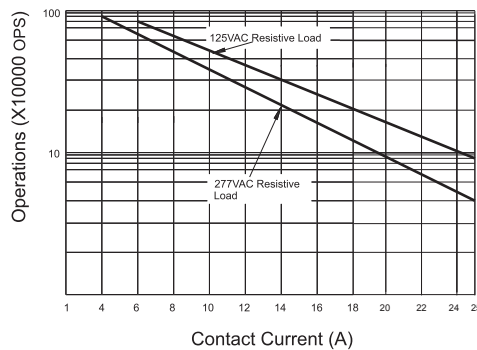


25A

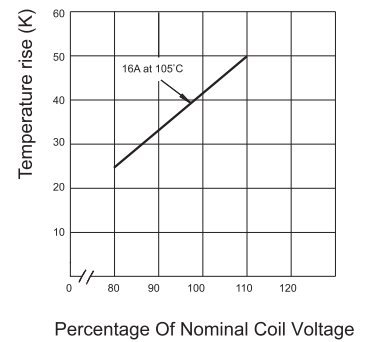
MAX. SWITCHING POWER



ENDURANCE CURVE (N.O.)



COIL TEMPERATURE RISE



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