



File No.:E75887



File No.:R 50216304



FEATURES

- Highly reliable, low cost
- Miniature size & large switch capacity up to 20A
- High dielectric strength type
- Fully Sealed

CONTACT RATINGS

Contact Arrangement	1A, 1B, 1C
Contact Resistance	100mΩ (1A 24VDC)
Contact Material	Silver Alloy
Contact Rating(Resistive)	3A 120VAC/28VDC 6A 120VAC/28VDC 10A 277/28VDC 12A 120VAC/28VDC 15A/120VAC 20A/120VAC
Max. Switching Voltage	277VAC/28VDC
Max. Switching Current	20A
Max. Switching Power	5540VA/560W
Mechanical Life	1×10 ⁷ operations
Electrical Life	1×10 ⁵ operations

CHARACTERISTICS

Insulation Resistance	100MΩ (at 500VDC)	
Dielectric Strength	Between coil & contacts	1500VAC 1min
	Between open contacts	750VAC 1min
Operate time (at nomi. volt.)	≤8ms	
Release time (at nomi. volt.)	≤5ms	
Humidity	45% ~ 85% 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. 12g	
Construction	Sealed Type, Dust Cover Type, Flux Free Type	

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.

ORDERING INFORMATION

KLT F 1C 12 DC12 - 1 - GF - XXXX

Model

F:Class F Nil:Class B

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

Contact Rating

Coil Voltage

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

GF:Gold Flash

Customer code

COIL DATA

at 20°C

3A,6A,10A,12A,15A

Nominal Voltage VDC	Pick-up Voltage (Max.) VDC	Drop-out Voltage (Min.) VDC	Max. Allowable Voltage VDC	Coil Resistance Ω±10%
3	2.25	0.3	3.9	25
5	3.75	0.5	6.5	70
6	4.50	0.6	7.8	100
9	6.75	0.9	11.7	225
12	9.00	1.2	15.6	400
24	18.0	2.4	31.2	1600
48	36.0	4.8	62.4	6400

20A

Nominal Voltage VDC	Pick-up Voltage (Max.) VDC	Drop-out Voltage (Min.) VDC	Max. Allowable Voltage VDC	Coil Resistance Ω±10%
3	2.25	0.3	3.9	20
5	3.75	0.5	6.5	55
6	4.50	0.6	7.8	80
9	6.75	0.9	11.7	180
12	9.00	1.2	15.6	320
24	18.0	2.4	31.2	1280
48	36.0	4.8	62.4	5120



RELAYS & ELECTRONICS INT'L. CORP.

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RELAYS

KLT SERIES

SPDT

3,6,10,12,15,20 Amp

COIL

Coil Power	3A-15A: 360mW
	20A: 450mW

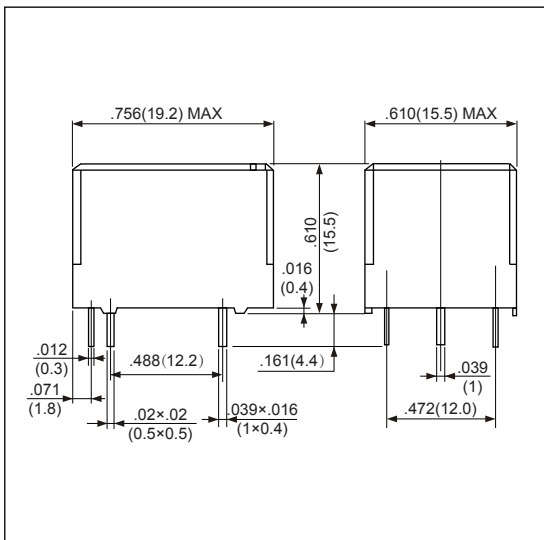
SAFETY APPROVAL RATINGS

UL&CUL	Resistive	3A 120VAC/28VDC, 6A 120VAC/28VDC 10A 277VAC/28VDC, 12A 120VAC/28VDC 15A/120VAC, 20A/120VAC
	N.O. Only, Single Pole	10A 12VDC Tungsten, 1500W 277VAC Ballast 15A(1700W) 120VAC Tungsten, 1/2hp 120VAC
TüV		6A 250VAC/28VDC

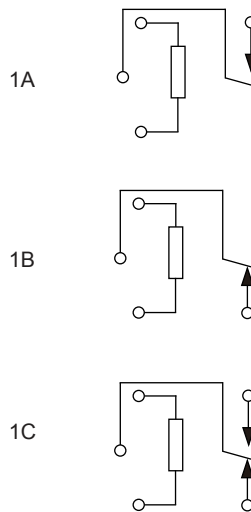
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

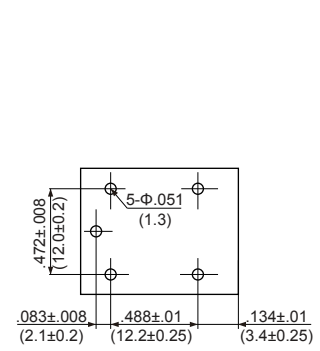
Outline Dimensions



Wiring Diagram (Bottom view)



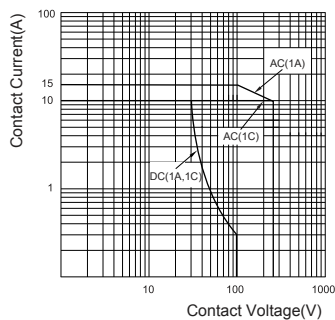
PCB Layout (Bottom view)



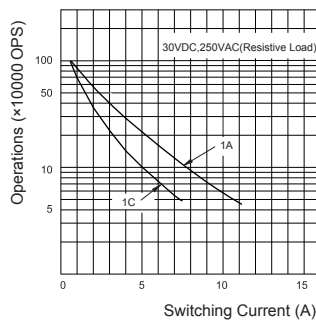
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

CHARACTERISTIC CURVES

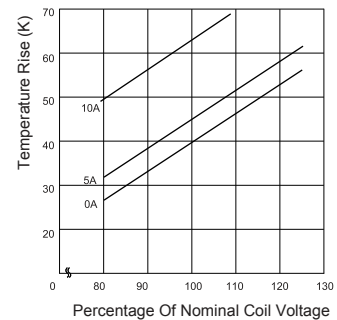
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



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RELAYS