



File No.:E75887



File No.:R 50215857



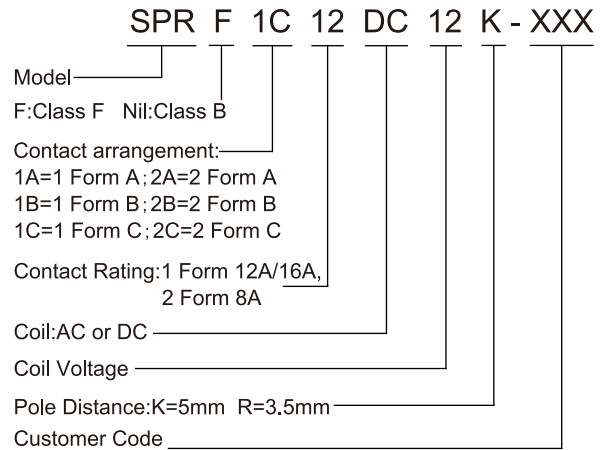
FEATURES

- Small size for high density mounting
- Up to 5000VAC Dielectric strength
- Fully Sealed

CONTACT RATINGS

| | | |
|---------------------------|---------------------------------------|-----------------------|
| Contact Arrangement | 1A, 1B, 1C | 2A, 2B, 2C |
| Contact Resistance | 50mΩ (at 1A 6VDC) | |
| Contact Material | Silver Alloy, Gold FLash | |
| Contact Rating(Resistive) | 20A 277VAC 16A 240VAC 16A 24VDC | 8A 240VAC 8A 24VDC |
| Max. Switching Voltage | 440VAC/300VDC | |
| Max. Switching Current | 12A/16A | 8A |
| Max. Switching Power | 3000VA/4000VA | 2000VA |
| Mechanical Life | 1×10 ⁷ operations | |
| Electrical Life | 1×10 ⁵ operations | |

ORDERING INFORMATION



CHARACTERISTICS

| | | |
|-------------------------------|--|---------------------|
| Insulation Resistance | 1000MΩ (at 500VDC) | |
| Dielectric Strength | Between coil & contacts | 5000VAC 1min |
| | Between open contacts | 1000VAC 1min |
| | Between contacts sets | 2500VAC 1min |
| Operate time (at nomi. volt.) | 10ms max. | |
| Release time (at nomi. volt.) | 5ms max. | |
| Humidity | 35% to 85% RH | |
| Ambient temperature | Class B:-40°C to 85°C Class F:-40°C to 105°C | |
| Shock Resistance | Functional | 98m/s ² |
| | Destructive | 980m/s ² |
| Vibration resistance | 10Hz to 150Hz 10g/5g | |
| Unit weight | Approx. 13.5g | |
| Construction | Sealed | |

COIL DATA

at 23°C

DC

| Nominal Voltage VDC | Pick-up Voltage (Max.) VDC | Drop-out Voltage (Min.) VDC | Max. Allowable Voltage VDC | Coil Resistance Ω±10% |
|---------------------|----------------------------|-----------------------------|----------------------------|-----------------------|
| 5 | 3.5 | 0.5 | 6.5 | 62 |
| 6 | 4.2 | 0.6 | 7.8 | 90 |
| 12 | 8.4 | 1.2 | 15.6 | 360 |
| 24 | 16.8 | 2.4 | 31.2 | 1440 |
| 48 | 33.6 | 4.8 | 62.4 | 5760 |
| 60 | 42.0 | 6.0 | 78.0 | 7500 |
| 110 | 77.0 | 11.0 | 143.0 | 25200 |

AC

| Nominal Voltage VAC | Pick-up Voltage (Max.) VAC | Drop-out Voltage (Min.) VAC | Coil Current mA | Coil Resistance Ω |
|---------------------|----------------------------|-----------------------------|-----------------|-------------------|
| 24 | 18.0 | 3.6 | 31.6 | 350(1±10%) |
| 115 | 86.3 | 17.3 | 6.6 | 8100(1±15%) |
| 230 | 172.5 | 34.5 | 3.2 | 32500(1±15%) |

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.



RELAYS

* SINCE 1976 *

TEL:(516) 328-9292 FAX:(516)326-9125 www.hascorelays.com email:info@hascorelays.com

COIL

| | |
|------------|---|
| Coil Power | DC:400mW (60V, 110V:480mW) AC:Approx. 0.75VA |
|------------|---|

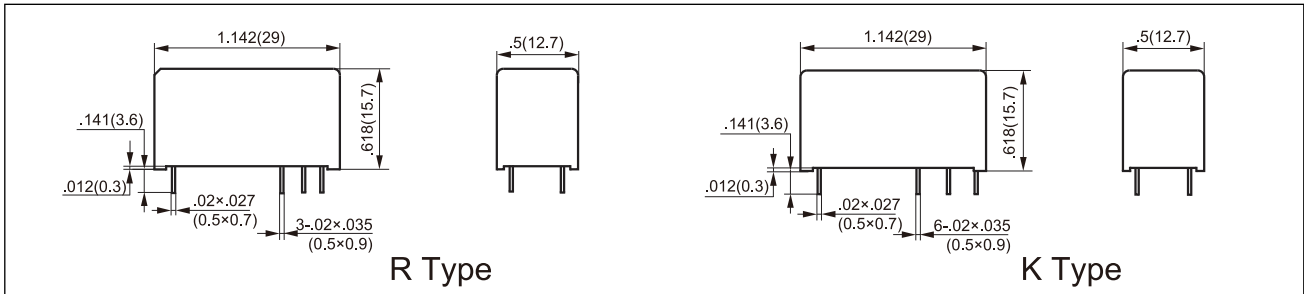
SAFETY APPROVAL RATINGS

| | | |
|--------|--------|--|
| UL&CUL | 1 Form | 20A 277VAC;16A 240VAC;16A 24VDC |
| | 2 Form | 8A 240VAC; 8A 24VDC |
| TüV | 1 Form | 12A/240VAC(NO) 10A/240VAC(NC) 50/60Hz 16A/240VAC(NO) 12A/240VAC(NC) 50/60Hz |
| | 2 Form | 8A/240VAC(NO) 6A/240VAC(NC) 50/60Hz |

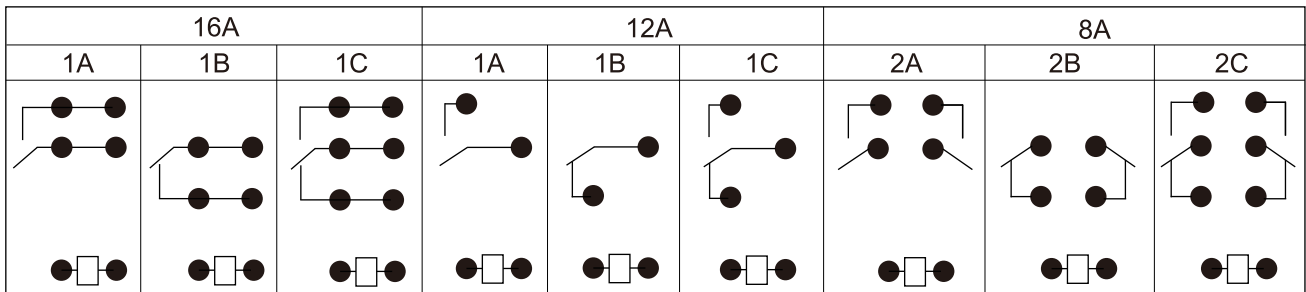
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch (mm)

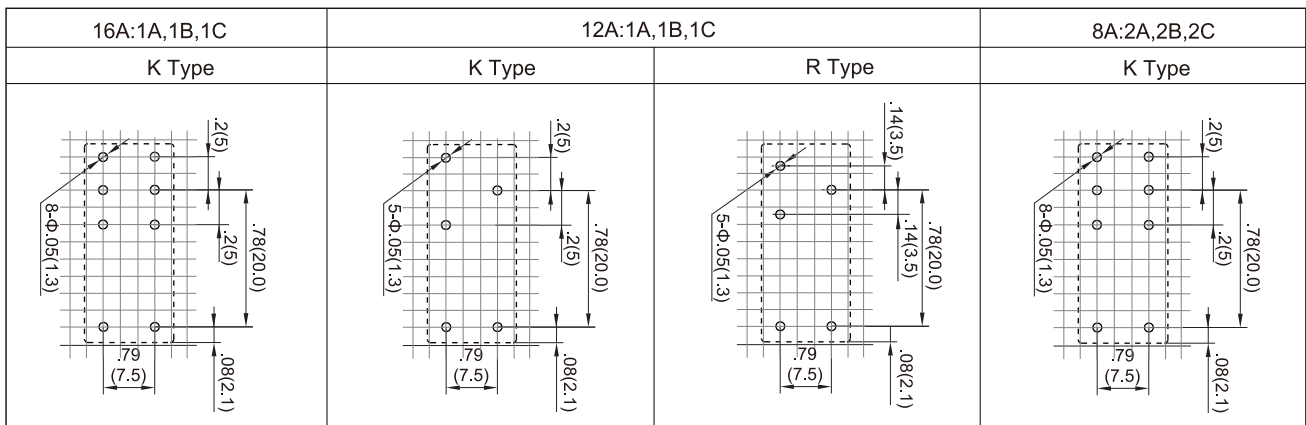
OUTLINE DIMENSIONS



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 $\pm 0.1\text{mm}$.

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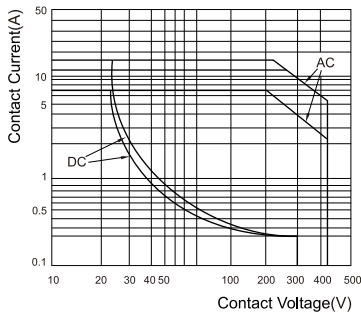
RELAYS

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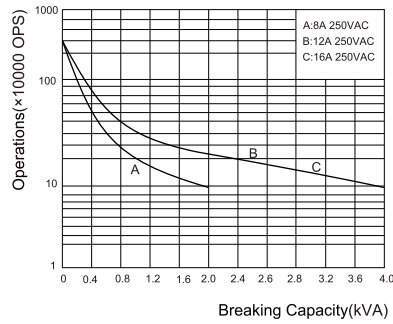
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CHARACTERISTIC CURVES

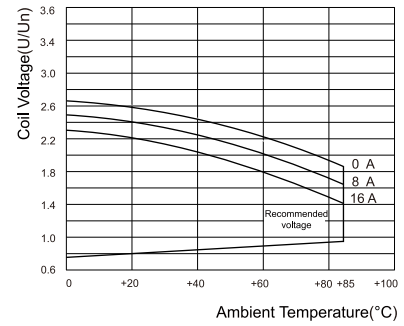
MAXIMUM SWITCHING POWER



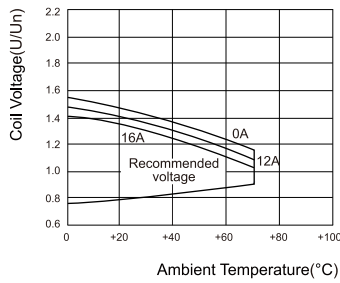
ENDURANCE CURVE



COIL OPERATING RANGE(DC)*



COIL OPERATING RANGE (AC)*



Notes:*The use of a relay with an energising voltage other than the rated coil voltage may lead to reduced electrical life.

An energising voltage over the abver range may damage the insulation of relay coil.

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