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Electromechanical Relays

Hasco Component's electromechanical relays range from less than an amp to 80 amps. Hasco's relays are UL and CSA with some TUV ratings. All relays have DC coils and many have an AC coil. They come sealed for wave soldering and washing thereby allowing the relays to be put on any assemble line. There are surface mount low current relays available as well.

KSD205  
DPDT 6 AMP

FEATURES

- Miniature Two Pole Relay
- High Reliability
- 6 Amp Switching
- Fully Sealed
- Low Cost



File E75887

COIL RATINGS

| Type               | Rated Voltage |      | Coil resistance (Ohms) | Must operate Voltage | Must dropout Voltage | Maximum Voltage | Power consumption (mW) |
|--------------------|---------------|------|------------------------|----------------------|----------------------|-----------------|------------------------|
| % of rated voltage |               |      |                        |                      |                      |                 |                        |
| KSD                | 3VDC          | 167  | 15                     | Max                  | 10 min.              |                 | Approx. 510            |
|                    | 5VDC          | 102  | 60                     | 70 at 20°C           |                      | 150 at 20°C     |                        |
|                    | 6VDC          | 85.7 | 70                     | 73 at 30°C           |                      | 142 at 30°C     |                        |
|                    | 9VDC          | 56.3 | 135                    | 76 at 40°C           |                      | 133 at 40°C     |                        |
|                    | 12VDC         | 42.9 | 240                    | 79 at 50°C           |                      | 123 at 50°C     |                        |
|                    | 24VDC         | 21.2 | 960                    | 82 at 60°C           |                      | 113 at 60°C     |                        |
|                    | 48VDC         |      | 3840                   |                      |                      |                 |                        |

Note: The rated current and coil resistance are measured at a coil temperature at 20°C, coil resistance ± 10% @ 20C.

CONTACT RATINGS

| Item Load Type                             | Resistive load (p.f. = 1) | Inductive Load (p.f. = 0.4, L/R = 7msec) |
|--------------------------------------------|---------------------------|------------------------------------------|
| Material                                   | Ag CdO, Two Type: 5A      |                                          |
| Rated load                                 | 120VAC 6A<br>30VDC 6A     | 120VAC 3.0A<br>30VDC 3.0A                |
| Carry current                              | 6A                        |                                          |
| Max. operating voltage                     | 250VAC, 125VDC            |                                          |
| Max. operating current                     | 6A                        | 3.0A                                     |
| Max. switching capacity                    | 600A, 120W                | 300VA, 60W                               |
| Minimum permissible load (reference value) | 5VDC, 100mA               |                                          |

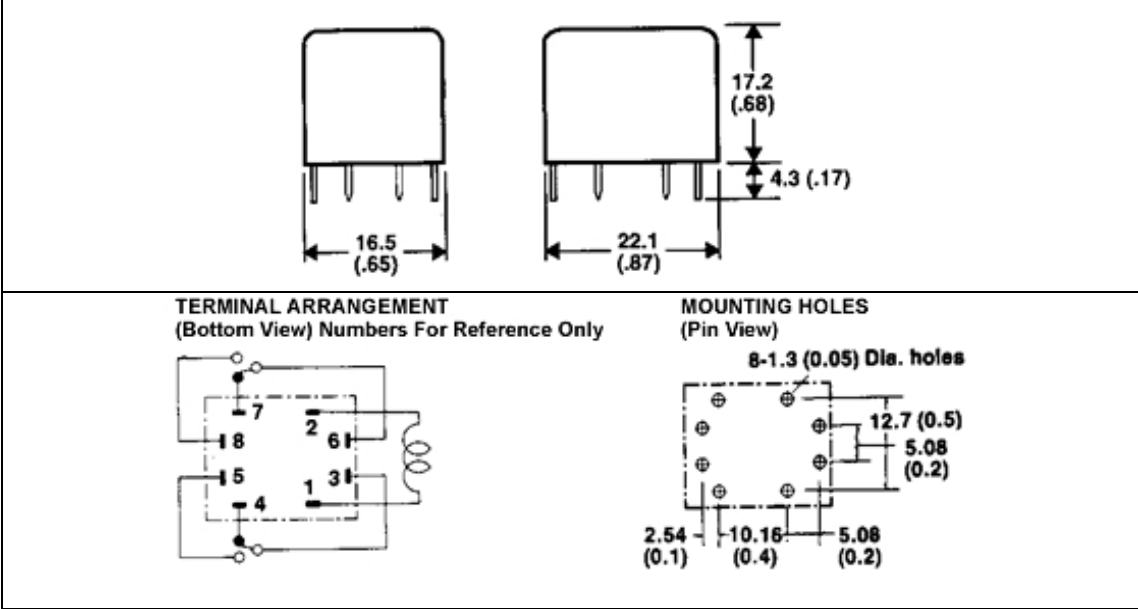
CHARACTERISTICS

|                       |                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact resistance    | 50m Ohms max.                                                                                                                                          |
| Operate time          | 10 msec. max.                                                                                                                                          |
| Release time          | 5 msec. max.                                                                                                                                           |
| Operating Frequency   | Mechanically: 18,000 operations/hour<br>Electrically: 1,800 operations/hour (under rated load)                                                         |
| Insulation resistance | 100M Ohms min. (at 500VDC)                                                                                                                             |
| Dielectric strength   | 1,500 VAC, 50/60 Hz for 1 minute between coil and contact, dissimilar pole 750 VAC, 50/60 Hz for 1 minute between non-continuous contacts of same pole |
| Vibration             | 1.5mm double amplitude, 10 to 55 Hz                                                                                                                    |
| Shock                 | 100 m/sec <sup>2</sup> (approx 10 G's)                                                                                                                 |
| Ambient temperature   | Operating: – 25 to +60°C                                                                                                                               |
| Humidity              | 45-85% RH                                                                                                                                              |
| Service life          | Mechanically: 10,000,000 operations min.                                                                                                               |
| Weight                | Approx. 10g.                                                                                                                                           |

ORDERING INFORMATION

| KSD205 | DC xx       |
|--------|-------------|
|        | 3 to 24 VDC |

DIMENSIONSmm (inches)



PART NUMBERS

|            |
|------------|
| KSD205DC3  |
| KSD205DC5  |
| KSD205DC6  |
| KSD205DC9  |
| KSD205DC12 |
| KSD205DC24 |

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