

21 / 136 Series - Flash Transfer Relay

DPDT, 30 Amp



The 21 and 136 series flash transfer relays have a proven industry record of reliability. Their rugged design has allowed the products to be plugged in and left, for years of service. Recent changes in lighting techniques from incandescent to LED have prompted us to respond with a redesigned relay better suited for the low currents of LED lighting, but equally usable with tungsten lamps.

GENERAL SPECIFICATIONS (@ 25° C)

| Contacts: | 21 Series | 136 Series |
|----------------------------------|-----------------------------|-----------------------------|
| Contact Configuration | DPDT | DPDT |
| Contact Material | Silver Alloy | Silver Alloy |
| Contact Rating | | |
| 120 / 240VAC Resistive | 30 Amp | 30 Amp |
| 28VDC Resistive | 30 Amp | 20 Amp |
| Motor 120VAC 1 Phase | 1Hp | 1/4Hp |
| Motor 240VAC 3 Phase | 2Hp | - |
| 120VAC Tungsten | 20 Amp | 20 Amp |
| Contact Resistance, Initial | 100 milliohms max @ 6VDC | 100 milliohms max @ 6VDC |
| Coil: | | |
| Coils Available | AC and DC | AC and DC |
| Nominal Coil Power | 2.4VA | 6VA |
| Input Voltage Tolerance - AC | 70% to 110% of nominal | 85% to 110% of nominal |
| Input Voltage Tolerance - DC | 70% to 110% of nominal | 75% to 110% of nominal |
| Drop-out voltage | 10% of nominal | 10% of nominal |
| Duty | Continuous | Continuous |
| Timing: | | |
| Operate Time (max) | 20 mS | 20 mS |
| Release Time (max) | 20 mS | 20 mS |
| Dielectric Strength: | | |
| Across Open Contacts | 500Vrms | 500Vrms |
| Between mutually insulated point | 1500Vrms | 1500Vrms |
| Insulation resistance | 10,000 Mohms min @ 500VDC | 10,000 Mohms min @ 500VDC |
| Temperature: | | |
| Operating | -34 to 74°C (-30 to 165°F) | -34 to 74°C (-30 to 165°F) |
| Storage | -40 to 105°C (-40 to 221°F) | -40 to 105°C (-40 to 221°F) |
| Life Expectancy: | | |
| Electrical (full load) | 200,000 | 100,000 |
| Mechanical (no load) | 5,000,000 | 5,000,000 |
| Miscellaneous: | | |
| Mounting Position | Any | Any |
| Enclosure | Clear Polycarbonate | Clear Polycarbonate |
| Weight | 7.2oz (205 grams) | 8.1oz (230 grams) |



The 21 series coil is rectified which provides chatter free operation in brownout conditions down to 85VAC and will not overheat up to 130VAC. Rectified coils also provide less power consumption and less heating.

