

ENGINEERING DATA SHEET

SERIES 9213

POWER CONTACTOR
3 PST-DM, 50/100 AMP



Hermetically sealed
Balanced armature design
Designed to the
performance standards of

MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at **28 Vdc; 115 Vac, 400 Hz, 1Ø
115/200 Vac, 60/400 Hz, 3Ø**
Weight **2.7 lb max**
Dimensions **4.22in x 4.23in x 4.53in**
Special units available upon request

APPLICATION NOTES:
[103G](#)

CONTACT ELECTRICAL CHARACTERISTICS

| Contact rating per pole and load type [1] | Load current in Amps | | | | |
|--|----------------------|-------------------|---|--|----------------------|
| | 28 Vdc | 115 Vac 400 Hz | 115/200 Vac 400 Hz 3Ø WYE OR DELTA | 115/200 Vac 60 Hz 3Ø WYE OR DELTA | 440 Vac 60/400 Hz |
| Resistive | 100 | 100 | 100 | 50 | 50 |
| Inductive | 100 | 100 | 100 | 50 | - |
| Motor [2] | 100 | 100 | 100 | 50 | - |
| Minimum Current | - | - | - | - | - |



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Data sheets are for initial product selection and comparison. Contact Esterline Power Systems prior to choosing a component.

COIL CHARACTERISTICS (Vdc)**SERIES 9213**

| CODE | Vdc | 115 Vac 400 Hz | 115 Vac 60 Hz |
|---|------|-------------------|------------------|
| Nominal operating voltage | 28 | 115 | 115 |
| Maximum operating voltage | 29 | 124 | 124 |
| Pick-up voltage, max. | 18 | 90 | 90 |
| Drop-out voltage, max. | 7 | 40 | 30 |
| Coil resistance ohms $\pm 10\%$ at $+25^\circ \text{C}$ | 44.5 | - | - |
| Coil current max. mA at $+25^\circ \text{C}$ | - | 200 | 200 |

GENERAL CHARACTERISTICS

| | |
|---|--------------------|
| Temperature range | -55°C to +71°C |
| Minimum operating cycles (life) at rated load | 50,000 |
| Minimum operating cycles (life) at 25% rated load | 100,000 |
| Dielectric strength at sea level | |
| All circuits to ground and circuit to circuit | 1,500 Vrms |
| Coil to ground | 1,250 Vrms |
| Dielectric strength at altitude 80,000 ft | 700 VRMS |
| Insulation resistance (at 500 Vdc) minimum | 100 M Ω min |
| Sinusoidal vibration (55-500 Hz) | 10G |
| Shock (6-9 millisecond duration) | 50G |
| Maximum contact opening time under shock or vibration | 2 μs |
| Operate time at nominal voltage | |
| - DC | 30 ms max |
| - AC | 40 ms max |
| Release time at nominal voltage | |
| - DC | 20 ms max |
| - AC | 60 ms max |
| Weight, max. | 2.70 lb |

