

# AGSCON4P50ANO

## Datasheet

### Electrical Contactor



### Product Overview

4 Pole (Normally Open) - AC-1 50A DC 100V 50Hz, 120V 60Hz

### Approvals



### Technical Specifications

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| <b>Utilisation category</b>                        | AC-1   |
| <b>Poles description</b>                           | 4P   |
| <b>Pole contact composition</b>                    | 4 NO   |
| <b>System Voltage</b>                              | 690 V AC 50/60 Hz Power Circuit  |
| <b>(ie) rated operational current</b>              | 20 A (<= 122 F (50C)) at <= 440 V AC AC-1 power circuit<br>16 A (<= 158 F (70C)) at 690 V AC AC-1 power circuit  |
| <b>Control circuit type</b>                        | AC 50/60Hz   |
| <b>(Uc) control circuit voltage</b>                | 110 V AC 50/60Hz   |
| <b>(Uimp) rated impulse withstand voltage</b>      | 8 KV   |
| <b>Overvoltage category</b>                        | III  |
| <b>(Ith) conventional free air thermal current</b> | 20 A at <= 122 F (50 C) power circuit  |
| <b>Irms rated making capacity</b>                  | 110 A AC power circuit conforming to NF C 63-110 110 A AC power circuit conforming to IEC 60947  |
| <b>Rated breaking capacity</b>                     | 110 A at 415 V conforming to IEC 60947<br>110 A at 440 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947                               |
| <b>(Icw) rated short-time withstand current</b>    | 20 A <= 50 C >= 15 min power circuit<br>90 A <= 122 F (50 C) 1 s power circuit<br>85 A <= 122 F (50 C) 5 s power circuit<br>80 A <= 122 F (50 C) 10 s power circuit<br>60 A <= 122 F (50 C) 30 s power circuit<br>45 A <= 122 F (50 C) 1 min power circuit<br>40 A <= 122 F (50 C) 3 min power circuit |
| <b>Associated fuse rating</b>                      | 25 A gG at <= 440 V power circuit<br>25 A aM power circuit   |
| <b>Average impedance</b>                           | 3 mOhm at 50hz—Ith 20 A power circuit  |

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| <b>(UI) rated insulation voltage</b>         | 600 V power circuit conforming to CSA C22.2 No 14, 690 V power circuit conforming to IEC60947-4-1<br>600 V power circuit conforming to UL 508  |
| <b>Inrush power in VA</b>                    | 30 VA at 68F (20C)   |
| <b>Hold-in power consumption in VA</b>       | 4.5 VA at 68F (20C)  |
| <b>Heat dissipation</b>                      | 1.3 W  |
| <b>Control circuit voltage limits</b>        | 0.2...0.75 U <sub>c</sub> at <= 122F (50C) drop-out 0.2...0.75 U <sub>c</sub> at <= 122F (50C) operational   |
| <b>Connections - terminals</b>               | Screw clamp terminals 1 cable(s) (1.5...4mm sq) – cable stiffness: solid<br>Screw clamp terminals 1 cable(s) (0.75...4mm sq) – cable stiffness: flexible - without cable end<br>Screw clamp terminals 1 cable(s) (0.34...2.5mm sq) – cable stiffness: flexible - with cable end<br>Screw clamp terminals 2 cable(s) (1.5...4mm sq)– cable stiffness: solid<br>Screw clamp terminals 2 cable(s) (0.75...4mm sq)– cable stiffness: flexible - without cable end<br>Screw clamp terminals 2 cable(s) (0.34...1.5mm sq) – cable stiffness: flexible - with cable end |
| <b>Operating rate</b>                        | 3600 cyc/h   |
| <b>Signalling circuit frequency</b>          | <= 400Hz   |
| <b>Mounting support</b>                      | Plate<br>Rail  |
| <b>Tightening torque</b>                     | 11.5 lbf.in (1.3 N.m) - on screw clamp terminals—with screwdriver Philips no 2<br>11.5 lbf.in (1.3 N.m) - on screw clamp terminals—with screwdriver flat 6mm   |
| <b>Operating time</b>                        | 10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing   |
| <b>Safety reliability level</b>              | B10d =1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 200000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1  |
| <b>Mechanical durability</b>                 | 10 Mcycles   |
| <b>Electrical durability</b>                 | 0.18 Mcycles 20 A AC-1 at U <sub>e</sub> <= 440V   |
| <b>Mechanical robustness</b>                 | Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 S<br>Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27<br>Vibration contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6, Vibration contactor opened 2 Gn, 5...200 Hz IEC 60068-2-6              |
| <b>Standards</b>                             | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660  |
| <b>Product certifications</b>                | CSA<br>UL  |
| <b>IP degree of protection</b>               | IP2x conforming to VDE 0106  |
| <b>Protective treatment</b>                  | TC conforming to IEC 60068 TC<br>conforming to DIN 50016   |
| <b>Ambient air temperature for operation</b> | -13...122 F (-25...50C)  |
| <b>Ambient air temperature for storage</b>   | -58...176 F (-50...80C)  |
| <b>Operating altitude</b>                    | 6561.68ft (2000m) without derating in temperature  |
| <b>Flame retardance</b>                      | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102   |

Find out more

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