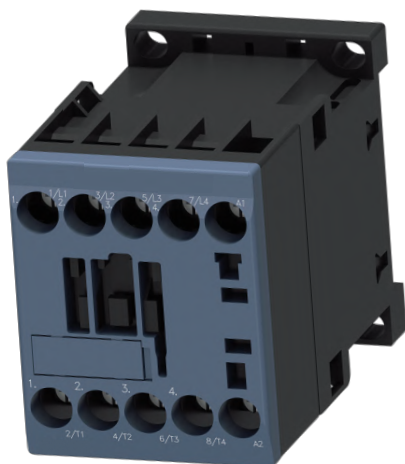


# CGSCON4P50ANO

## Datasheet

### Electrical Contactor



### Product Overview

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

### Approvals



CCC

CSA

GOST

UL

EG-Konf.

### Technical Specifications

<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 (50°C)) at <= 440 V AC AC-1 power circuit 16 A (<= 158 F (70°C)) 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 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 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 90 A <= 122 F (50 °C) 1 s power circuit 85 A <= 122 F (50 °C) 5 s power circuit 80 A <= 122 F (50 °C) 10 s power circuit 60 A <= 122 F (50 °C) 30 s power circuit 45 A <= 122 F (50 °C) 1 min power circuit 40 A <= 122 F (50 °C) 3 min power circuit
<b>Associated fuse rating</b>	25 A gG at <= 440 V power circuit 25 A aM power circuit
<b>Average impedance</b>	3 mOhm at 50hz—Ith 20 A power circuit

<b>(UL) rated insulation voltage</b>	600 V power circuit conforming to CSA C22.2 No 14, 690 V power circuit conforming to IEC60947-4-1 600 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 Screw clamp terminals 1 cable(s) (0.75...4mm sq) – cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) (0.34...2.5mm sq) – cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) (1.5...4mm sq)– cable stiffness: solid Screw clamp terminals 2 cable(s) (0.75...4mm sq)– cable stiffness: flexible - without cable end 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 Rail
<b>Tightening torque</b>	11.5 lbf.in (1.3 N.m) - on screw clamp terminals—with screwdriver Philips no 2 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 Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 S Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27 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 IEC 60947 NF C 63-110 VDE 0660
<b>Product certifications</b>	CSA UL
<b>IP degree of protection</b>	IP2x conforming to VDE 0106
<b>Protective treatment</b>	TC conforming to IEC 60068 TC 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 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

Find out more  
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