

Product data sheet

Specifications



contactor TeSys CV3BK - 3 pole - AC-3 1000 V 500A - coil 220 V AC

CV3BK3V0ZM522

ⓘ Discontinued

Main

Range	TeSys
Product Name	TeSys B
Product Or Component Type	Contactors
Device Short Name	CV3BK
Contactors Application	Motor Resistive circuits, heating, lighting
Utilisation Category	AC-1 AC-3
Control Circuit Type	AC
Poles Description	3P
Pole Contact Composition	3 NO
[Ie] Rated Operational Current	500 A AC for control circuit 460 A AC AC-3 for power circuit
Motor Power Kw	250 kW at 400 V AC (AC-3)
Current Rating Code Of Contactors	BK
Auxiliary Contact Composition	2 NO + 2 NC
[Uc] Control Circuit Voltage	220 V AC 50 Hz

Complementary

Auxiliary Contacts Type	type instantaneous 2 NO + 2 NC
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc at 50 Hz (at <55 °C) Drop-out: 0.5...0.7 Uc at 50 Hz (at <55 °C)
[Ui] Rated Insulation Voltage	1000 V conforming to IEC 60947-4
Connections - Terminals	Control circuit: cable with lug 1 x 185 mm² Power circuit: bolted connection
Tightening Torque	Control circuit: 1.2 N.m - on with cable end - cable 2...4 mm² Control circuit: 1.2 N.m - on with cable end - cable 1...4 mm² Control circuit: 1.2 N.m - on without cable end - cable 2...6 mm² Control circuit: 1.2 N.m - on without cable end - cable 1...6 mm² Power circuit: 35 N.m - on cable with lug - cable 185 mm²
[Ue] Rated Operational Voltage	Control circuit: 1000 V AC 50 Hz
[Ith] Conventional Free Air Thermal Current	80 A (at 40 °C) for control circuit
Irms Rated Making Capacity	4600 A at 1000 V AC for control circuit conforming to IEC 60947-4-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Rated Breaking Capacity	3800 A at <= 440 V for control circuit conforming to IEC 60947-4-1 3700 A at 500 V for control circuit conforming to IEC 60947-4-1 3600 A at 660/690 V for control circuit conforming to IEC 60947-4-1 2600 A at 1000 V for control circuit conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	4000 A 40 °C - 1 s for control circuit 4000 A 40 °C - 5 s for control circuit 3680 A 40 °C - 10 s for control circuit 2200 A 40 °C - 30 s for control circuit 1800 A 40 °C - 60 s for control circuit 1100 A 40 °C - 180 s for control circuit 720 A 40 °C - 600 s for control circuit
Associated Fuse Rating	315 A aM at <= 400 V for control circuit 400 A gG at <= 400 V for control circuit
Average Impedance	0.3 mOhm - Ith 80 A 50 Hz for control circuit
Power Dissipation Per Pole	63 W AC-3 75 W AC-1
Inrush Power In Va	570 VA 50 Hz 3P
Hold-In Power Consumption In Va	80 VA 50 Hz
Operating Time	35 ms contactor closed AC 14 ms contactor open AC
Mechanical Durability	10000000 cycles
Maximum Operating Rate	120 cyc/mn 55 °C
Rated Operational Power In W	4000 W at 440/500 V - electrical durability: 1000000 cycles - for control circuit 1500 W at 440/500 V - electrical durability: 3000000 cycles - for control circuit 500 W at 440/500 V - electrical durability: 10000000 cycles - for control circuit

Environment

Standards	IEC 60947-4 EN 60947-4
Product Certifications	CSA
Ip Degree Of Protection	IP00 conforming to IEC 60529
Protective Treatment	TC
Ambient Air Temperature For Operation	-5...55 °C
Ambient Air Temperature For Storage	-60...80 °C
Operating Altitude	2000 m