

Product data sheet

Specifications



contactor TeSys CV3BF - 2 pole - AC-3 1000 V 80A - coil 220 V AC

CV3BF2F0ZM522

⚠ Discontinued on: Jul 12, 2021

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Main

Range	TeSys
Product name	TeSys B
Product or Component Type	Contactors
Device short name	CV3BF
Contactors application	Resistive circuits, heating, lighting Motor
Utilisation category	AC-1 AC-3
Control circuit type	AC
Poles description	2P
Pole contact composition	2 NO
[Ie] rated operational current	80 A AC for control circuit
Current rating code of contactor	BF
Auxiliary contact composition	2 NO + 2 NC
[Uc] control circuit voltage	220 V AC 50 Hz

Complementary

Auxiliary contacts type	Instantaneous 2 NO + 2 NC
Control circuit voltage limits	Operational: 0.85...1.1 U _c at 50 Hz (at <131 °F (55 °C)) Drop-out: 0.5...0.7 U _c at 50 Hz (at <131 °F (55 °C))
[Ui] rated insulation voltage	1000 V IEC 60947-4
Connections - terminals	Control circuit cable with lug 1 x 0.04 in ² (25 mm ²) Power circuit bolted connection
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) with cable end 0.003...0.006 in ² (2...4 mm ²) Control circuit 10.6 lbf.in (1.2 N.m) with cable end 0.002...0.006 in ² (1...4 mm ²) Power circuit 79.7 lbf.in (9 N.m) cable with lug 0.04 in ² (25 mm ²) Control circuit 10.6 lbf.in (1.2 N.m) without cable end 0.003...0.009 in ² (2...6 mm ²) Control circuit 10.6 lbf.in (1.2 N.m) without cable end 0.002...0.009 in ² (1...6 mm ²)
[Ue] rated operational voltage	Control circuit 1000 V AC 50 Hz
[I _{th}] conventional free air thermal current	80 A (at 104 °F (40 °C)) for control circuit
I _{rms} rated making capacity	1000 A at 1000 V AC for control circuit conforming to IEC 60947-4-1
Rated breaking capacity	900 A at <= 440 V for control circuit conforming to IEC 60947-4-1 900 A at 500 V for control circuit conforming to IEC 60947-4-1 800 A at 660/690 V for control circuit conforming to IEC 60947-4-1 700 A at 1000 V for control circuit conforming to IEC 60947-4-1

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Icw] rated short-time withstand current	640 A 104 °F (40 °C) - 5 s for control circuit 640 A 104 °F (40 °C) - 10 s for control circuit 380 A 104 °F (40 °C) - 30 s for control circuit 320 A 104 °F (40 °C) - 60 s for control circuit 200 A 104 °F (40 °C) - 180 s for control circuit 130 A 104 °F (40 °C) - 600 s for control circuit 800 A 104 °F (40 °C) - 1 s for control circuit
Associated fuse rating	80 A aM at <= 400 V for control circuit 125 A gG at <= 400 V for control circuit
Average impedance	1.5 mOhm - lth 80 A 50 Hz for control circuit
Power dissipation per pole	9.6 W AC-1 9.6 W AC-3
Inrush power in VA	270 VA 50 Hz 2P
Hold-in power consumption in VA	45 VA 50 Hz
Operating time	40 ms contactor closed AC 15 ms contactor open AC
Mechanical durability	5000000 cycles
Maximum operating rate	120 cyc/mn 131 °F (55 °C)
Rated operational power in W	900 W 48 V 1000000 cycles - control circuit 800 W 48 V 3000000 cycles - control circuit 450 W 48 V 10000000 cycles - control circuit

Environment

Standards	EN 60947-4 IEC 60947-4
Product Certifications	Bureau Veritas CSA
IP degree of protection	IP00IEC 60529
Protective treatment	TC
Ambient Air Temperature for Operation	23...131 °F (-5...55 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Operating altitude	6561.68 ft (2000 m)

Ordering and shipping details

Category	18402-WORLD SERVICE PARTS(CONTROL ACCESS)
Discount Schedule	CP10
GTIN	3606485324340
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.6 in (27 cm)
Package 1 Width	11.8 in (30 cm)
Package 1 Length	17.7 in (45 cm)
Package weight(Lbs)	11.82 lb(US) (5.36 kg)



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Compliant

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

[Circularity Profile](#)

[End of Life Information](#)

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.