

Product datasheet

Specifications



contactor TeSys CV1BF - 1 pole - AC-3 690 V 80A - coil 220 V AC

CV1BF1F0ZM500

⚠ Discontinued on: Feb 27, 2026

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Main

Range	TeSys
Product name	TeSys B
Product or component type	Contactor
Device short name	CV1BF
Contactor application	Resistive circuits, heating, lighting Motor
Utilisation category	AC-3 AC-1
Control circuit type	AC
Poles description	1P
Pole contact composition	1 NO
[Ie] rated operational current	80 A AC for control circuit
Current rating code of contactor	BF
Auxiliary contact composition	Without
[Uc] control circuit voltage	220 V AC 50 Hz

Complementary

Auxiliary contacts type	type instantaneous without
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	690 V conforming to IEC 60947-4
Connections - terminals	Control circuit: cable with lug 1 x 25 mm ² Control circuit: cable connector 2 x 16 mm ² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m - on with cable end - cable 2...4 mm ² Control circuit: 1.2 N.m - on with cable end - cable 1...4 mm ² Power circuit: 9 N.m - on cable with lug - cable 25 mm ² Power circuit: 9 N.m - on cable connector - cable 16 mm ²
[Ue] rated operational voltage	Control circuit: 690 V AC 50 Hz
[Ith] conventional free air thermal current	80 A (at 40 °C) for control circuit
Irms rated making capacity	1000 A at 690 V AC for control circuit conforming to IEC 60947-4-1
Rated breaking capacity	900 A at 220/400 V for control circuit conforming to IEC 60947-4-1 800 A at 415/440 V for control circuit conforming to IEC 60947-4-1 800 A at 500 V for control circuit conforming to IEC 60947-4-1 320 A at 660/690 V 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

[Icw] rated short-time withstand current	640 A 40 °C - 5 s for control circuit 640 A 40 °C - 10 s for control circuit 380 A 40 °C - 30 s for control circuit 320 A 40 °C - 60 s for control circuit 200 A 40 °C - 180 s for control circuit 130 A 40 °C - 600 s for control circuit
Associated fuse rating	80 aM at <= 400 V for control circuit 125 A g1 at <= 400 V for control circuit
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for control circuit
Power dissipation per pole	7.6 W AC-3 9.6 W AC-1
Inrush power in VA	270 VA 50 Hz 1P (at 20 °C)
Hold-in power consumption in VA	270 VA 50 Hz (at 20 °C)
Operating time	40 ms contactor closed AC 15 ms contactor open AC
Mechanical durability	5000000 cycles
Maximum operating rate	120 cyc/mn 55 °C
Rated operational power in VA	900 VA at 48 V - electrical durability: 1000000 cycles - for control circuit 800 VA at 48 V - electrical durability: 3000000 cycles - for control circuit 450 VA at 48 V - electrical durability: 10000000 cycles - for control circuit

Environment

Standards	EN 60947-4 IEC 60947-4
Product certifications	CEI Bureau Veritas 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
Shock resistance	4 gn 2 gn
Vibration resistance	4 gn 2 gn
Heat dissipation	16 W at 50 Hz 1P for control circuit

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	24.5 cm
Package 1 Width	24 cm
Package 1 Length	31.5 cm
Package 1 Weight	2.3 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

End of life manual availability

[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