



Main

Range of product	TeSys
Range	TeSys
Product name	TeSys B
Product or component type	Contacteur
Device short name	CV1BF
Contacteur application	Resistive circuits, heating, lighting Motor
Utilisation category	AC-1 AC-3
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 contacteur	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	0.85...1.1 Uc at (<= 55 °C) operational 50 Hz 0.5...0.7 Uc at (<= 55 °C) drop-out 50 Hz
[Ui] rated insulation voltage	690 V - conforming to IEC 60947-4
Connections - terminals	Control circuit : cable with lug 1 cable 25 mm ² Control circuit : cable connector 2 cable 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	690 V AC 50 Hz for control circuit

[I _{th}] conventional free air thermal current	80 A at ≤ 40 °C for control circuit
I _{rms} 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
[I _{cw}] rated short-time withstand current	640 A at ≤ 40 °C 5 s control circuit 640 A at ≤ 40 °C 10 s control circuit 380 A at ≤ 40 °C 30 s control circuit 320 A at ≤ 40 °C 60 s control circuit 200 A at ≤ 40 °C 180 s control circuit 130 A at ≤ 40 °C 600 s control circuit
Associated fuse rating	80 A aM at ≤ 400 V for control circuit 125 A g1 at ≤ 400 V for control circuit
Average impedance	1.5 mΩ at 50 Hz - I _{th} 80 A for control circuit
Power dissipation per pole	7.6 W AC-3 9.6 W AC-1
Inrush power in VA	270 VA at 20 °C 50 Hz 1P
Hold-in power consumption in VA	270 VA at 20 °C 50 Hz
Operating time	40 ms contactor closed AC 15 ms contactor open AC
Mechanical durability	5000000 cycles
Operating rate	≤ 120 cyc/mn at ≤ 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
Compatibility code	CV1BF

Environment

Standards	EN 60947-4 IEC 60947-4
Product certifications	CSA Bureau Veritas CEI
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 for frequencies ≤ 30 Hz 2 gn for frequencies > 30 Hz
Vibration resistance	4 gn for frequencies ≤ 30 Hz 2 gn for frequencies > 30 Hz
Heat dissipation	16 W at 50 Hz for control circuit 1P

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1513 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product environmental
Product end of life instructions	Available Product environmental