



## Main

|                                   |   |
|-----------------------------------|---|
| Range of product                  | TeSys   |
| Range                             | TeSys   |
| Product name                      | TeSys B   |
| Product or component type         | Contacteur  |
| Device short name                 | CV3BK   |
| Contacteur application            | Motor<br>Resistive circuits, heating, lighting                  |
| Utilisation category              | AC-1<br>AC-3  |
| Control circuit type              | AC  |
| Poles description                 | 3P  |
| Pole contact composition          | 3 NO  |
| [Ie] rated operational current    | 500 A AC for control circuit<br>460 A AC AC-3 for power circuit |
| Motor power kW                    | 250 kW at 400 V AC AC-3   |
| Current rating code of contacteur | 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              | 0.85...1.1 Uc at (<= 55 °C) operational 50 Hz<br>0.5...0.7 Uc at (<= 55 °C) drop-out 50 Hz   |
| [Ui] rated insulation voltage               | 1000 V - conforming to IEC 60947-4   |
| Connections - terminals                     | Control circuit : cable with lug 1 cable 185 mm <sup>2</sup><br>Power circuit : bolted connection  |
| Tightening torque                           | Control circuit : 1.2 N.m - on with cable end - cable 2...4 mm <sup>2</sup><br>Control circuit : 1.2 N.m - on with cable end - cable 1...4 mm <sup>2</sup><br>Control circuit : 1.2 N.m - on without cable end - cable 2...6 mm <sup>2</sup><br>Control circuit : 1.2 N.m - on without cable end - cable 1...6 mm <sup>2</sup><br>Power circuit : 35 N.m - on cable with lug - cable 185 mm <sup>2</sup> |
| [Ue] rated operational voltage              | 1000 V AC 50 Hz for control circuit  |
| [Ith] conventional free air thermal current | 80 A at <= 40 °C for control circuit   |

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

|  |  |
|--|--|
| Irms rated making capacity               | 4600 A at 1000 V AC for control circuit conforming to IEC 60947-4-1  |
| Rated breaking capacity                  | 3800 A at <= 440 V for control circuit conforming to IEC 60947-4-1<br>3700 A at 500 V for control circuit conforming to IEC 60947-4-1<br>3600 A at 660/690 V for control circuit conforming to IEC 60947-4-1<br>2600 A at 1000 V for control circuit conforming to IEC 60947-4-1                         |
| [Icw] rated short-time withstand current | 4000 A at <= 40 °C 1 s control circuit<br>4000 A at <= 40 °C 5 s control circuit<br>3680 A at <= 40 °C 10 s control circuit<br>2200 A at <= 40 °C 30 s control circuit<br>1800 A at <= 40 °C 60 s control circuit<br>1100 A at <= 40 °C 180 s control circuit<br>720 A at <= 40 °C 600 s control circuit |
| Associated fuse rating                   | 315 A aM at <= 400 V for control circuit<br>400 A gG at <= 400 V for control circuit   |
| Average impedance                        | 0.3 mOhm at 50 Hz - Ith 80 A for control circuit   |
| Power dissipation per pole               | 63 W AC-3<br>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<br>14 ms contactor open AC   |
| Mechanical durability                    | 10000000 cycles  |
| Operating rate                           | <= 120 cyc/mn at <= 55 °C  |
| Rated operational power in W             | 4000 W at 440/500 V - electrical durability: 1000000 cycles - for control circuit<br>1500 W at 440/500 V - electrical durability: 3000000 cycles - for control circuit<br>500 W at 440/500 V - electrical durability: 10000000 cycles - for control circuit  |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | IEC 60947-4<br>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                       |