



## Main

|                           |                                 |
|---------------------------|---------------------------------|
| Range                     | TeSys                           |
| Product name              | TeSys V                         |
| Product or component type | Vacuum contactor                |
| Device short name         | LC1V                            |
| Contactor application     | Resistive load<br>Motor control |
| Utilisation category      | AC-4<br>AC-1<br>AC-3            |
| Control circuit type      | AC                              |
| Coil type                 | Standard                        |
| Poles description         | 3P                              |
| Pole contact composition  | 3 NO                            |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil technology                             | Without built-in bidirectional peak limiting diode suppressor                                                                                                                                                                                                                                                                                                                                        |
| [Ie] rated operational current              | 160 A (at <40 °C) AC AC-1 for power circuit<br>160 A (at <55 °C) AC AC-3 for power circuit<br>130 A AC AC-4 for power circuit                                                                                                                                                                                                                                                                        |
| Motor power kW                              | 110 kW at 525 V AC 50/60 Hz (AC-3)<br>150 kW at 690 V AC 50/60 Hz (AC-3)<br>200 kW at 1000 V AC 50/60 Hz (AC-3)<br>45 kW at 230 V AC 50/60 Hz (AC-3)<br>75 kW at 400 V AC 50/60 Hz (AC-3)                                                                                                                                                                                                            |
| Motor power hp                              | 100 Hp at 380 V AC 50/60 Hz conforming to CSA<br>125 Hp at 480 V AC 50/60 Hz conforming to CSA<br>150 Hp at 600 V AC 50/60 Hz conforming to CSA<br>200 Hp at 800 V AC 50/60 Hz conforming to CSA<br>250 Hp at 1000 V AC 50/60 Hz conforming to CSA<br>400 Hp at 1500 V AC 50/60 Hz conforming to CSA<br>50 Hp at 200 V AC 50/60 Hz conforming to CSA<br>60 hp at 240 V AC 50/60 Hz conforming to CSA |
| Auxiliary contact composition               | 2 NO + 1 NC                                                                                                                                                                                                                                                                                                                                                                                          |
| [Uc] control circuit voltage                | 220...240 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                              |
| Control circuit voltage limits              | 0.8...1.1 Uc at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                             |
| [Ui] rated insulation voltage               | Power circuit: 1500 V<br>Earth circuit: 2000 V<br>Control circuit: 690 V                                                                                                                                                                                                                                                                                                                             |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                                                                                                                                                 |
| Mounting support                            | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                        |
| Connections - terminals                     | Control circuit: connector 1 x 2.5 mm <sup>2</sup><br>Power circuit: bolted connection                                                                                                                                                                                                                                                                                                               |
| Tightening torque                           | Power circuit: 14 N.m - on connector - cable 70 mm <sup>2</sup> hexagonal screw head                                                                                                                                                                                                                                                                                                                 |
| [Ue] rated operational voltage              | Power circuit: ≤ 1000 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                  |
| [Ith] conventional free air thermal current | 10 A for control circuit<br>160 A for power circuit                                                                                                                                                                                                                                                                                                                                                  |
| Irms rated making capacity                  | 1900 A at 1500 V AC for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                        |
| Rated breaking capacity                     | 1600 A at 1500 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                           |
| Associated fuse rating                      | 10 A gG for control circuit<br>160 A aM at ≤ 1000 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                        |
| Inrush power in VA                          | 300 VA                                                                                                                                                                                                                                                                                                                                                                                               |

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Hold-in power consumption in VA | 30 VA                                           |
| Operating time                  | 18...22 ms on closing<br>95...115 ms on opening |
| Mechanical durability           | 5000000 cycles                                  |
| Maximum operating rate          | 1200 cyc/h                                      |
| Height                          | 168 mm                                          |
| Width                           | 123 mm                                          |
| Depth                           | 151 mm                                          |
| Net weight                      | 3.8 kg                                          |

## Environment

|                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| Standards                             | EN 60947-4-1<br>IEC 60947-4-1                    |
| IP degree of protection               | IP00 conforming to IEC 60529                     |
| Ambient air temperature for operation | -5...55 °C                                       |
| Ambient air temperature for storage   | -40...80 °C                                      |
| Operating altitude                    | 2500...3600 m                                    |
| Fire resistance                       | 850 °C conforming to IEC 60695-2-1               |
| Shock resistance                      | 10 gn contactor closed<br>10 gn contactor opened |
| Vibration resistance                  | 2 gn 10...500 Hz                                 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 26.92 cm  |
| Package 1 Width              | 31.24 cm  |
| Package 1 Length             | 31.5 cm   |
| Package 1 Weight             | 4.9 kg    |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 3         |
| Package 2 Height             | 30 cm     |
| Package 2 Width              | 40 cm     |
| Package 2 Length             | 60 cm     |
| Package 2 Weight             | 15.016 kg |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 12        |
| Package 3 Height             | 80 cm     |
| Package 3 Width              | 80 cm     |
| Package 3 Length             | 60 cm     |
| Package 3 Weight             | 63.844 kg |

## Offer Sustainability

|                       |                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive     | Not compliant                                                                                                               |
| Mercury free          | Yes                                                                                                                         |
| China RoHS Regulation |  <a href="#">China RoHS Declaration</a>  |
| WEEE                  | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|