## Characteristics

### LC3D32AB7

TeSys D - star delta starter - 3 x 3P (3 NO) - 32 A - 24 V AC coil

### Main

<table>
<thead>
<tr>
<th>Range</th>
<th>TeSys D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>TeSys D</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Star delta starter</td>
</tr>
<tr>
<td>Device short name</td>
<td>LC3D</td>
</tr>
<tr>
<td>Contactor application</td>
<td>Motor control</td>
</tr>
<tr>
<td>Utilisation category</td>
<td>AC-3</td>
</tr>
<tr>
<td>Device presentation</td>
<td>Pre-wired</td>
</tr>
<tr>
<td>Poles description</td>
<td>3 x 3P</td>
</tr>
<tr>
<td>Power pole contact composition</td>
<td>3 x 3 NO</td>
</tr>
<tr>
<td>[Ue] rated operational voltage</td>
<td>&lt;= 690 V AC 25...400 Hz for power circuit</td>
</tr>
<tr>
<td>[Ie] rated operational current</td>
<td>32 A (&lt;= 60 °C) AC AC-3 for power circuit at &lt;= 440 V</td>
</tr>
<tr>
<td>Motor power kW</td>
<td>15 kW at 220/230 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>25 kW at 380/400 V AC 50/60 Hz</td>
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<td></td>
<td>30 kW at 415 V AC 50/60 Hz</td>
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<tr>
<td></td>
<td>30 kW at 440 V AC 50/60 Hz</td>
</tr>
<tr>
<td>Control circuit type</td>
<td>AC 50/60 Hz</td>
</tr>
<tr>
<td>[Uc] control circuit voltage</td>
<td>24 V AC 50/60 Hz</td>
</tr>
<tr>
<td>Auxiliary contact composition</td>
<td>1 NC for KM1 star contactor</td>
</tr>
<tr>
<td>[Uimp] rated impulse withstand voltage</td>
<td>6 kV conforming to IEC 60947</td>
</tr>
<tr>
<td>Overvoltage category</td>
<td>III</td>
</tr>
<tr>
<td>Electrical durability</td>
<td>1.65 Mcycles 32 A AC-3 &lt;= 440 V</td>
</tr>
<tr>
<td>Safety cover</td>
<td>Protective cover</td>
</tr>
<tr>
<td>Interlocking type</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Mounting support</td>
<td>Plate</td>
</tr>
<tr>
<td>Standards</td>
<td>EN 60947-5-1</td>
</tr>
<tr>
<td></td>
<td>IEC 60947-4-1</td>
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<td>IEC 60947-5-1</td>
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<td></td>
<td>UL 508</td>
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<td>CSA C22.2 No 14</td>
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</tbody>
</table>

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.
### Product certifications
- CSA
- UL
- LROS (Lloyds register of shipping)
- CCC
- GOST
- BV
- DNV
- RINA
- GL

### Complementary Connections - terminals
- Screw clamp terminals for control circuit 1 1...4 mm² flexible without cable end
- Screw clamp terminals for control circuit 2 1...4 mm² flexible without cable end
- Screw clamp terminals for control circuit 1 1...4 mm² flexible with cable end
- Screw clamp terminals for control circuit 2 1...2.5 mm² flexible with cable end
- Screw clamp terminals for control circuit 1 1...4 mm² solid without cable end
- Screw clamp terminals for control circuit 2 1...4 mm² solid without cable end
- Screw clamp terminals for power circuit 1 2.5...10 mm² flexible without cable end
- Screw clamp terminals for power circuit 2 2.5...10 mm² flexible without cable end
- Screw clamp terminals for power circuit 1 1...10 mm² flexible with cable end
- Screw clamp terminals for power circuit 2 1.5...6 mm² flexible with cable end
- Screw clamp terminals for power circuit 1 1.5...10 mm² solid without cable end
- Screw clamp terminals for power circuit 2 2.5...10 mm² solid without cable end

### Tightening torque
- 1.7 N.m for control circuit screw clamp terminals flat Ø 6 mm
- 1.7 N.m for control circuit screw clamp terminals Philips No 2
- 2.5 N.m for power circuit screw clamp terminals flat Ø 6 mm
- 2.5 N.m for power circuit screw clamp terminals Philips No 2

### Mechanical durability
- 15 Mcycles

### Operating rate
- 30 cyc/h at <= 60 °C

### Starting time
- 30 s

### Coil technology
- Without built-in suppressor module

### Control circuit voltage limits
- 0.3...0.6 Uc at 60 °C drop-out 50/60 Hz
- 0.8...1.1 Uc at 60 °C operational 50 Hz
- 0.85...1.1 Uc at 60 °C operational 60 Hz

### Inrush power in VA
- 70 VA at 20 °C 0.75 60 Hz
- 70 VA at 20 °C 0.75 50 Hz

### Hold-in power consumption in VA
- 7.5 VA at 20 °C 0.3 60 Hz
- 7 VA at 20 °C 0.3 50 Hz

### Heat dissipation
- 2...3 W at 50/60 Hz

### Auxiliary contacts type
- Mechanically linked conforming to IEC 60947-5-1 3 x 1 NO + 1 NC
- Mirror contact conforming to IEC 60947-4-1 3 x 1 NC

### Signalling circuit frequency
- 25...400 Hz

### Minimum switching current
- 5 mA for signalling circuit

### Minimum switching voltage
- 17 V for signalling circuit

### Non-overlap time
- 1.5 ms on energisation between NC and NO contact
- 1.5 ms on de-energisation between NC and NO contact

### Width
- 166 mm

### Height
- 124 mm

### Depth
- 149 mm

### Product weight
- 2.03 kg

### Environment
- Insulation resistance
  > 10 MOhm for signalling circuit
- IP degree of protection
  IP20 front face conforming to IEC 60529
- Protective treatment
  TH conforming to IEC 60068-2-30
- Pollution degree
  3
- Ambient air temperature for storage
  -60...80 °C
- Ambient air temperature for operation
  -40...70 °C at Uc
- Operating altitude
  3000 m without derating
- Fire resistance
  850 °C conforming to IEC 60695-2-1
- Flame retardance
  V1 conforming to UL 94
| Mechanical robustness | Vibrations contactor open 2 G·m, 5...300 Hz  
| | Vibrations contactor closed 4 G·m, 5...300 Hz  
| | Shocks contactor closed 15 G·m for 11 ms  
| | Shocks contactor open 8 G·m for 11 ms |

<table>
<thead>
<tr>
<th><strong>Offer Sustainability</strong></th>
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<tbody>
<tr>
<td><strong>Sustainable offer status</strong></td>
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</table>
| **RoHS (date code: YYWW)** | Compliant - since 0845 - Schneider Electric declaration of conformity  
| | Schneider Electric declaration of conformity |
| **REACCh** | Reference not containing SVHC above the threshold  
| | Reference not containing SVHC above the threshold |
| **Product environmental profile** | Available  
| | Product Environmental Profile |
| **Product end of life instructions** | Available  
| | End of Life Information |

<table>
<thead>
<tr>
<th><strong>Contractual warranty</strong></th>
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<tr>
<td><strong>Warranty period</strong></td>
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