

■ Datasheet: Contactor 3-pole, CUBICO Grand, 55kW, 115A, 1NO+1NC, 230VAC



■ SCHRACK-INFO

- Contactor with 230VAC drive
- With integrated auxiliary contacts
- Optional auxiliary contact blocks available

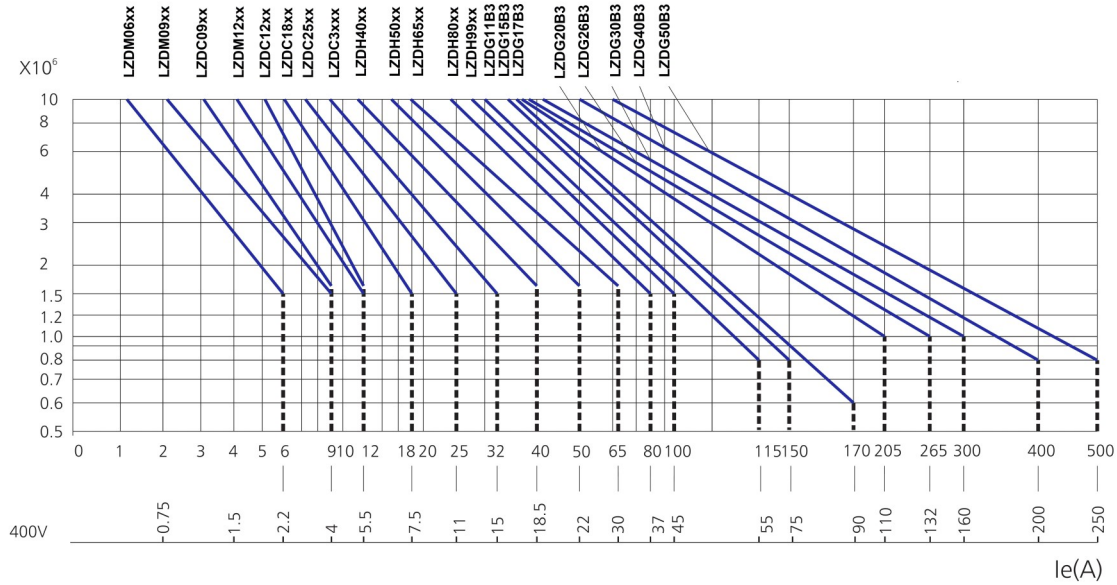
■ Technical datas

|                                 |                             |      |
|---------------------------------|-----------------------------|------|
| Standard                        | EN 60947-4-1, IEC 60947-4-1 |      |
| Rated insulation voltage        | 690V AC                     |      |
| Rated frequency                 | 50/60Hz                     |      |
| Rated impulse withstand voltage | 8kV                         |      |
| Overvoltage category            | III                         |      |
| Rated current AC1               | 200A                        |      |
| Rated current AC3               | 230V                        | 115A |
|                                 | 400V                        | 115A |
|                                 | 415V                        | 115A |
|                                 | 690V                        | 86A  |
| Rated current AC4               | 230V                        | 115A |
|                                 | 400V                        | 115A |
|                                 | 415V                        | 115A |
|                                 | 690V                        | 86A  |

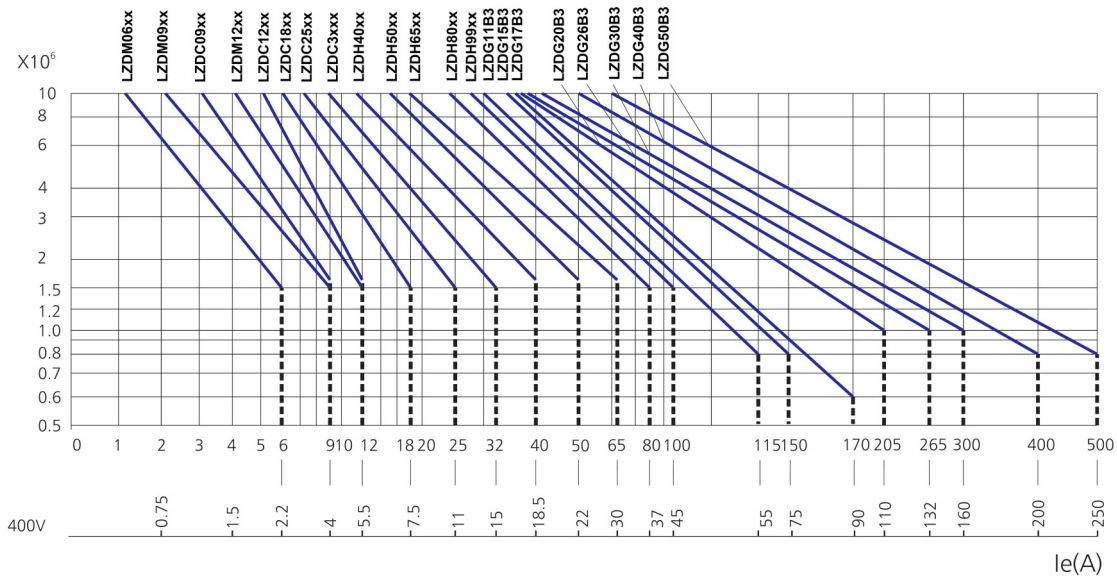
|                                     |               |  |
|-------------------------------------|---------------|--|
| Rated making capacity               |               | 10 x I <sub>e</sub> (AC3)<br>12 x I <sub>e</sub> (AC4) |
| Rated breaking capacity             |               | 8 x I <sub>e</sub> (AC3)<br>10 x I <sub>e</sub> (AC4)  |
| Short-time withstand current 10s    |               | 920A   |
| Rated power AC3                     | 230V          | 37kW   |
|                                     | 400V          | 55kW   |
|                                     | 415V          | 59kW   |
|                                     | 690V          | 80kW   |
| Operating frequency                 | AC3           | 1.200 operations/h                                     |
|                                     | AC4           | 120 operations/h                                       |
| Electrical lifetime                 |               | 1.200.000 operations                                   |
| Mechanical lifetime                 |               | 10.000.000 operations                                  |
| Configuration of main contacts      |               |  |
|                                     | 3-pole        | 3NO  |
| Configuration of auxiliary contacts |               | 1NO and 1NC  |
| Protection degree                   |               | IP20   |
| Ambient air temperature             |               | - 5°C up to + 40°C                                     |
| Storage temperature                 |               | - 25°C up to + 55°C                                    |
| Correction coefficient              | 40°C          | 1  |
|                                     | 50°C          | 0,875  |
|                                     | 60°C          | 0,75 only for short time < 24h                         |
|                                     | 70°C          | 0,625 only for short time < 24h                        |
| Altitude                            |               | 2000m  |
| Atmosphere conditions               |               | 50% humidity at +40°C                                  |
| Installation position               |               | plane +/- 5°   |
| Coil voltage                        |               | 230VAC   |
| Coil acting range                   | attraction    | 85% - 110% U <sub>s</sub>                              |
|                                     | release       | AC: 20%-70% U <sub>s</sub>                             |
| Coil average power                  | start         | 700VA  |
|                                     | holding       | 5VA  |
| Heat wastage                        |               | 4W   |
| Main contact action time            | close         | 15-30ms  |
|                                     | disconnection | 40-50ms  |

|  |  |
|--|--|
| Terminal capacity main cable             |  |
| Solid                                    | 10 - 95 mm <sup>2</sup><br>2 x 10 - 50 mm <sup>2</sup> |
| Flexible with ferrule                    | 10 - 95 mm <sup>2</sup><br>2 x 10 - 50 mm <sup>2</sup> |
| Stranded                                 | 10 - 95 mm <sup>2</sup><br>2 x 10 - 50 mm <sup>2</sup> |
| Terminal screw                           | M10  |
| Standard screwdriver                     | PH 6 mm  |
| Allen wrench                             | 4 mm   |
| Tightening torque                        | 10 Nm  |
| Terminal capacity control circuit cables |  |
| Solid                                    | 1 - 4 mm <sup>2</sup><br>2 x 1 - 4 mm <sup>2</sup>     |
| Flexible with ferrule                    | 1 - 4 mm <sup>2</sup><br>2 x 1 - 4 mm <sup>2</sup>     |
| Philips / Pozidriv screwdriver           | PH2  |
| Standard screwdriver                     | 5 mm   |
| Tightening torque                        | 1,2 Nm   |
| Terminal capacity auxiliary contacts     |  |
| Solid                                    | 1 - 4 mm <sup>2</sup><br>2 x 1 - 4 mm <sup>2</sup>     |
| Flexible with ferrule                    | 1 - 4 mm <sup>2</sup><br>2 x 1 - 4 mm <sup>2</sup>     |
| Philips / Pozidriv screwdriver           | PH2  |
| Standard screwdriver                     | 5 mm   |
| Tightening torque                        | 1,2 Nm   |

Electrical life AC3,  $U_e = 400V$

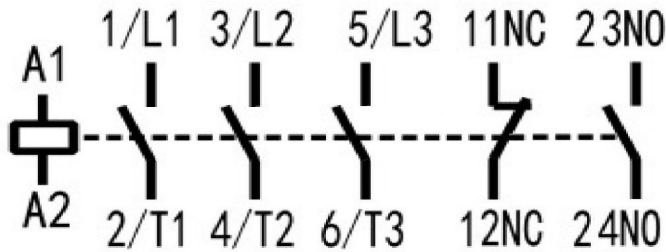


Electrical life AC2, AC4,  $U_e = 400V$

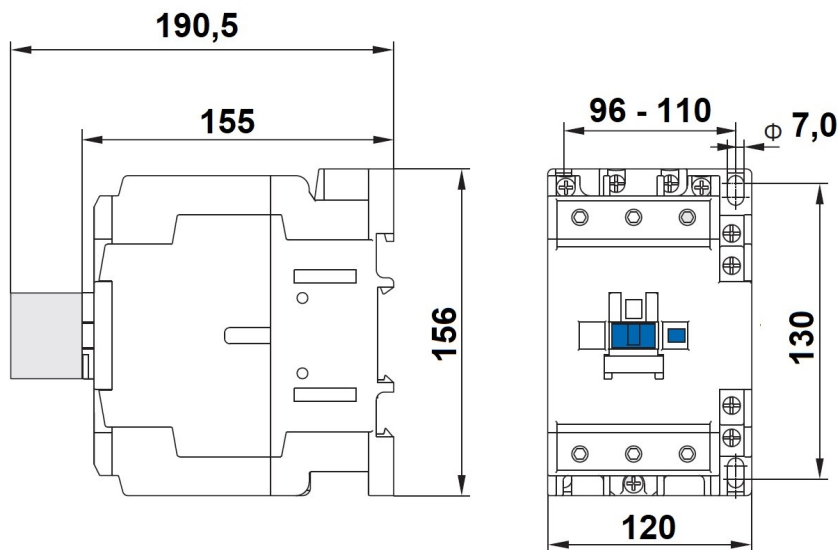


**Wiring diagram**

3-pole, 1NO + 1NC



**Dimensions**



**Articles**

**Contactors 3-pole, CUBICO Grand**

| Description  | order no.  |
|--|------------|
| Contacteur 3-pole, CUBICO Grand, 55kW, 115A, 1NO+1NC, 230VAC | LZDG11B3-- |