



### Contact characteristics

|  |            |                 |      |
|--|------------|-----------------|------|
| Number of poles  | Nr.        | 3               |      |
| Rated insulation voltage $U_i$ IEC/EN                                    | V          | 690             |      |
| Rated impulse withstand voltage $U_{imp}$                                | kV         | 8               |      |
| Operational frequency  | min        | Hz              | 25   |
|  | max        | Hz              | 400  |
| IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$ | A          | 90              |      |
| Rated operational power AC-6b ( $T \leq 40^\circ\text{C}$ )              | 230V       | kvar            | 22   |
|  | 400V       | kvar            | 40   |
|  | 440...480V | kvar            | 41   |
|  | 690V       | kvar            | 46   |
| Short-time allowable current for 10s (IEC/EN60947-1)                     | A          | 400             |      |
| Protection fuse  | gG (IEC)   | A               | 80   |
|  |            | A               | 500  |
| Making capacity (RMS value)  |            |                 |      |
| Breaking capacity at voltage   | 440V       | A               | 400  |
|  | 500V       | A               | 352  |
|  | 690V       | A               | 312  |
| Resistance per pole (average value)                                      |            | m $\Omega$      | 0.8  |
| Power dissipation per pole (average value)                               | lth        | W               | 6.5  |
|  |            |                 |      |
| Tightening torque for terminals  | min        | Nm              | 4    |
|  | max        | Nm              | 5    |
|  | min        | lbin            | 2.95 |
|  | max        | lbin            | 3.69 |
| Tightening torque for coil terminal                                      | min        | Nm              | 0.8  |
|  | max        | Nm              | 1    |
|  | min        | lbin            | 0.8  |
|  | max        | lbin            | 0.74 |
| Max number of wires simultaneously connectable                           | Nr.        | 2               |      |
| Conductor section  | AWG/Kcmil  |                 |      |
|  |            | max             | 2    |
| Flexible w/o lug conductor section                                       | min        | mm <sup>2</sup> | 1.5  |
|  | max        | mm <sup>2</sup> | 35   |
| Flexible c/w lug conductor section                                       | min        | mm <sup>2</sup> | 1.5  |
|  | max        | mm <sup>2</sup> | 35   |
| Power terminal protection according to IEC/EN 60529                      |            | IP20 front      |      |

**Mechanical features**

|                    |                  |                       |
|--------------------|------------------|-----------------------|
| Operating position | normal allowable | Vertical plan ±30°    |
| Fixing             |                  | Screw / DIN rail 35mm |
| Weight             | g                | 1090                  |

**Operations**

|                 |        |          |
|-----------------|--------|----------|
| Mechanical life | cycles | 15000000 |
| Electrical life | cycles | 400000   |

**Safety related data**

|  |                            |        |          |
|--|----------------------------|--------|----------|
| Performance level B10d according to EN/ISO 13489-1 | rated load mechanical load | cycles | 400000   |
|  |                            | cycles | 15000000 |
| EMC compatibility                                  |                            |        | yes      |

**AC coil operating**

|                                 |         |     |
|---------------------------------|---------|-----|
| Rated AC voltage at 50/60Hz     | V       | 230 |
| AC operating voltage            |         |     |
| of 50/60Hz coil powered at 50Hz |         |     |
| pick-up                         | min %Us | 80  |
|                                 | max %Us | 110 |
| drop-out                        | min %Us | 20  |
|                                 | max %Us | 55  |
| of 50/60Hz coil powered at 60Hz |         |     |
| pick-up                         | min %Us | 85  |
|                                 | max %Us | 110 |
| drop-out                        | min %Us | 20  |
|                                 | max %Us | 55  |

**AC average coil consumption at 20°C**

|                                 |         |    |     |
|---------------------------------|---------|----|-----|
| of 50/60Hz coil powered at 50Hz | in-rush | VA | 210 |
|                                 | holding | VA | 15  |
| of 50/60Hz coil powered at 60Hz | in-rush | VA | 195 |
|                                 | holding | VA | 13  |
| of 60Hz coil powered at 60Hz    | in-rush | VA | 210 |
|                                 | holding | VA | 15  |

**Dissipation at holding ≤20°C 50Hz**

W 5

**Max cycles frequency**

|                      |          |      |
|----------------------|----------|------|
| Mechanical operation | cycles/h | 3600 |
|----------------------|----------|------|

**Operating times**

|                                   |     |    |    |  |
|-----------------------------------|-----|----|----|--|
| Average time for Us control in AC |     |    |    |  |
| Closing NO                        | min | ms | 12 |  |
|                                   | max | ms | 28 |  |
| Opening NO                        | min | ms | 8  |  |
|                                   | max | ms | 22 |  |

in DC

Closing NO

|     |    |    |
|-----|----|----|
| min | ms | 40 |
| max | ms | 85 |

Opening NO

|     |    |    |
|-----|----|----|
| min | ms | 20 |
| max | ms | 55 |

**UL technical data**

Rated operational voltage AC (UL)

V 600

General USE

Contactor

AC current A 90

**Ambient conditions**

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -50 |
| max | °C | 70  |

Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | 80  |

Max altitude

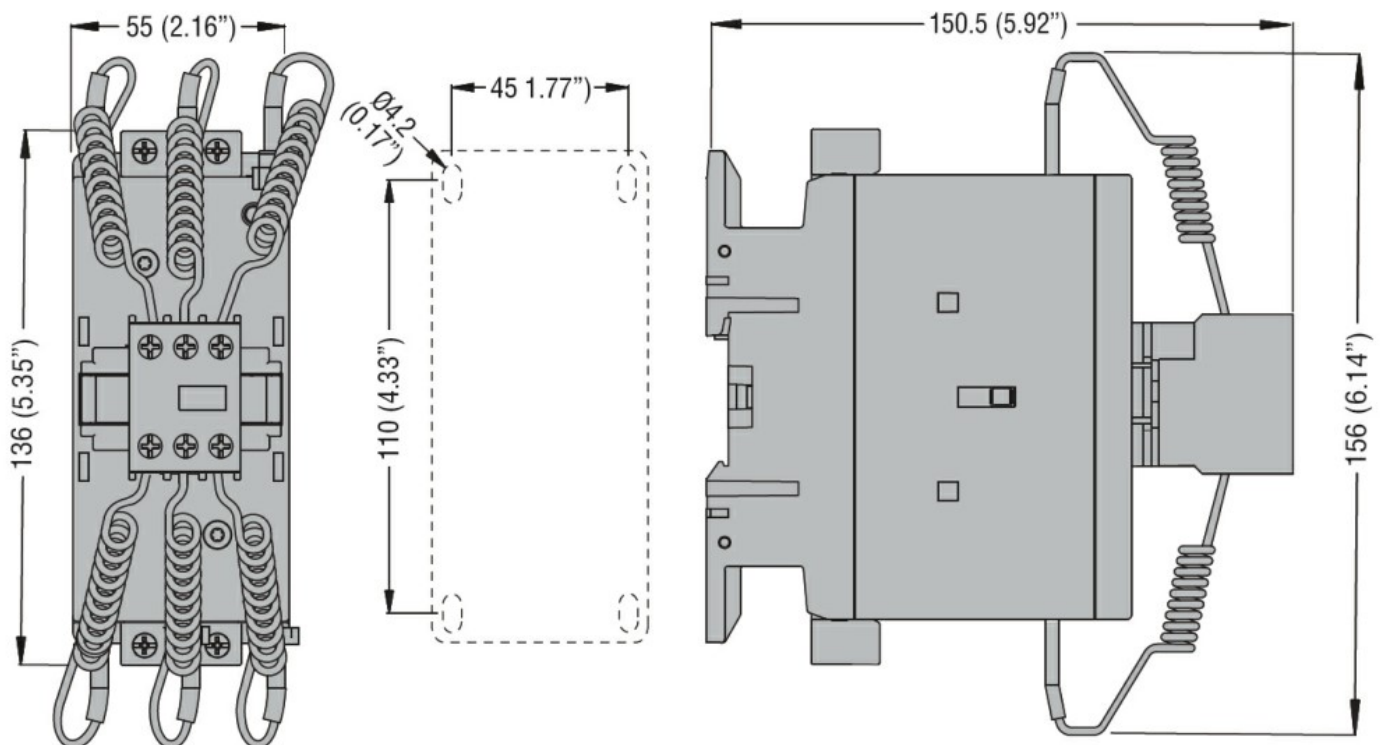
m 3000

**Resistance & Protection**

Pollution degree

3

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

Compliance

- CSA C22.2 n° 60947-1
- CSA C22.2 n° 60947-4-1
- IEC/EN/BS 60947-1
- IEC/EN/BS 60947-4-1
- UL 60947-1
- UL 60947-4-1

Certificates

- CCC
- cULus

**ETIM classification**

ETIM 8.0

EC001079 -  
Capacitor  
contactor