



Product designation

Power contactor

Product type designation

BF26

**Contact characteristics**

|                                                           |                    |           |
|-----------------------------------------------------------|--------------------|-----------|
| Number of poles                                           | Nr.                | 4         |
| Rated insulation voltage U <sub>i</sub> IEC/EN            | V                  | 690       |
| Rated impulse withstand voltage U <sub>imp</sub>          | kV                 | 6         |
| Operational frequency                                     | min                | Hz 25     |
|                                                           | max                | Hz 400    |
| IEC Conventional free air thermal current I <sub>th</sub> | A                  | 45        |
| Operational current I <sub>e</sub>                        | AC-1 (≤40°C)       | A 45      |
|                                                           | AC-1 (≤55°C)       | A 36      |
|                                                           | AC-1 (≤70°C)       | A 32      |
|                                                           | AC-3 (≤440V ≤55°C) | A 26      |
|                                                           | AC-4 (400V)        | A 11.5    |
| Rated operational power AC-1 (T≤40°C)                     | 230V               | kW 17     |
|                                                           | 400V               | kW 30     |
|                                                           | 500V               | kW 37     |
|                                                           | 690V               | kW 51     |
| Short-time allowable current for 10s (IEC/EN60947-1)      | A                  | 210       |
| Protection fuse                                           | gG (IEC)           | A 50      |
|                                                           | aM (IEC)           | A 32      |
| Making capacity (RMS value)                               | A                  | 260       |
| Breaking capacity at voltage                              | 440V               | A 208     |
|                                                           | 500V               | A 184     |
|                                                           | 690V               | A 168     |
| Resistance per pole (average value)                       | mΩ                 | 2         |
| Power dissipation per pole (average value)                | I <sub>th</sub>    | W 4       |
|                                                           | AC3                | W 1.4     |
| Tightening torque for terminals                           | min                | Nm 2.5    |
|                                                           | max                | Nm 3      |
|                                                           | min                | lbin 1.8  |
|                                                           | max                | lbin 2.2  |
| 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                        | 6                  |                       |
| Flexible w/o lug conductor section                  |  |                            |                    |                       |
|                                                     |  | min                        | mm <sup>2</sup>    | 2.5                   |
|                                                     |  | max                        | mm <sup>2</sup>    | 16                    |
| Flexible c/w lug conductor section                  |  |                            |                    |                       |
|                                                     |  | min                        | mm <sup>2</sup>    | 1                     |
|                                                     |  | max                        | mm <sup>2</sup>    | 10                    |
| Flexible with insulated spade lug conductor section |  |                            |                    |                       |
|                                                     |  | min                        | mm <sup>2</sup>    | 1                     |
|                                                     |  | max                        | mm <sup>2</sup>    | 10                    |
| Power terminal protection according to IEC/EN 60529 |  |                            |                    | IP20 when wired       |
| Mechanical features                                 |  |                            |                    |                       |
| Operating position                                  |  |                            |                    |                       |
|                                                     |  | normal allowable           | Vertical plan ±30° |                       |
| Fixing                                              |  |                            |                    | Screw / DIN rail 35mm |
| Weight                                              |  |                            | g                  | 664                   |
| Conductor section                                   |  |                            |                    |                       |
| AWG/kcmil conductor section                         |  |                            |                    |                       |
|                                                     |  | max                        | 6                  |                       |
| Operations                                          |  |                            |                    |                       |
| Mechanical life                                     |  |                            | cycles             | 20000000              |
| Electrical life                                     |  |                            | cycles             | 1600000               |
| Safety related data                                 |  |                            |                    |                       |
| Performance level B10d according to EN/ISO 13489-1  |  |                            |                    |                       |
|                                                     |  | rated load mechanical load | cycles             | 1600000               |
|                                                     |  |                            | cycles             | 20000000              |
| Mirror contats according to IEC/EN 609474-4-1       |  |                            |                    | YES                   |
| EMC compatibility                                   |  |                            |                    | yes                   |
| DC coil operating                                   |  |                            |                    |                       |
| DC rated control voltage                            |  |                            | V                  | 12                    |
| DC operating voltage                                |  |                            |                    |                       |
| pick-up                                             |  |                            |                    |                       |
|                                                     |  | min                        | %Us                | 80                    |
|                                                     |  | max                        | %Us                | 125                   |
| drop-out                                            |  |                            |                    |                       |
|                                                     |  | min                        | %Us                | 10                    |
|                                                     |  | max                        | %Us                | 40                    |
| Average coil consumption ≤20°C                      |  |                            |                    |                       |
|                                                     |  | in-rush holding            | W                  | 5.4                   |
|                                                     |  |                            | W                  | 5.4                   |
| Max cycles frequency                                |  |                            |                    |                       |
| Mechanical operation                                |  |                            | cycles/h           | 3600                  |
| Operating times                                     |  |                            |                    |                       |
| Average time for Us control                         |  |                            |                    |                       |
| in AC                                               |  |                            |                    |                       |
|                                                     |  | Closing NO                 |                    |                       |
|                                                     |  | min                        | ms                 | 8                     |
|                                                     |  | max                        | ms                 | 24                    |
|                                                     |  | Opening NO                 |                    |                       |

|       |            |     |    |    |
|-------|------------|-----|----|----|
|       |            | min | ms | 5  |
|       |            | max | ms | 15 |
|       | Closing NC |     |    |    |
|       |            | min | ms | 9  |
|       |            | max | ms | 20 |
|       | Opening NC |     |    |    |
| in DC |            | min | ms | 9  |
|       |            | max | ms | 17 |
|       | Closing NC |     |    |    |
|       |            | min | ms | 23 |
|       |            | max | ms | 28 |
|       | Opening NC |     |    |    |
|       |            | min | ms | 46 |
|       |            | max | ms | 56 |

#### UL technical data

Full-load current (FLA) for three-phase AC motor

|         |   |    |
|---------|---|----|
| at 480V | A | 21 |
| at 600V | A | 22 |

Yielded mechanical performance

for single-phase AC motor

|          |    |   |
|----------|----|---|
| 110/120V | HP | 2 |
| 230V     | HP | 5 |

for three-phase AC motor

|          |    |     |
|----------|----|-----|
| 200/208V | HP | 7.5 |
| 220/230V | HP | 7.5 |
| 460/480V | HP | 15  |
| 575/600V | HP | 20  |

General USE

Contactor

|            |   |    |
|------------|---|----|
| AC current | A | 45 |
|------------|---|----|

#### Ambient conditions

Temperature

Operating temperature

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

Storage temperature

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

Max altitude

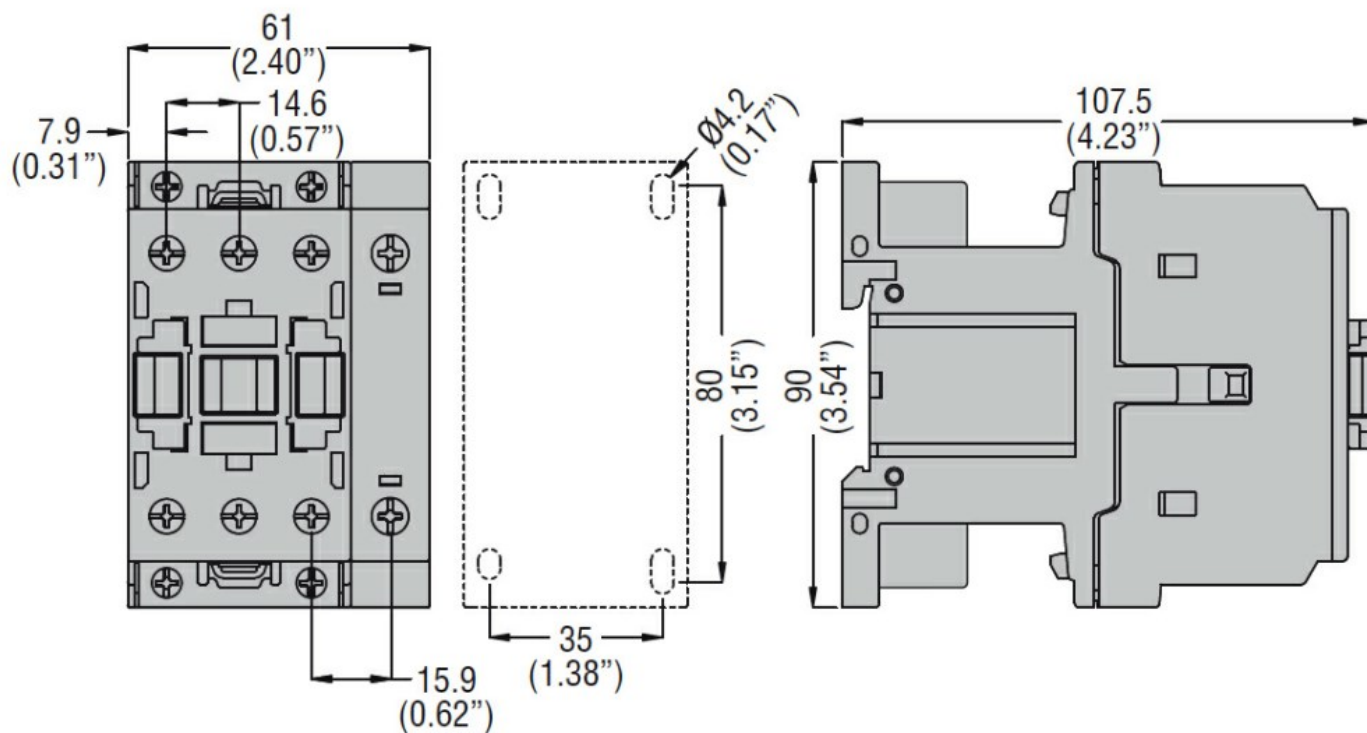
|   |      |
|---|------|
| m | 3000 |
|---|------|

#### Resistance & Protection

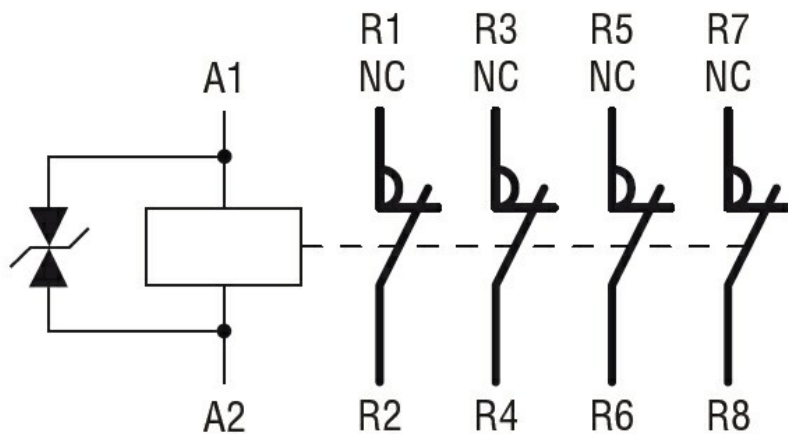
Pollution degree

3

#### Dimensions



#### Wiring diagrams



#### Certifications and compliance

##### Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

##### Certificates

CCC

cULus

EAC

#### ETIM classification

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching