



|                                                           |                    |      |      |
|-----------------------------------------------------------|--------------------|------|------|
| Product designation                                       | Power contactor    |      |      |
| Product type designation                                  | BF26               |      |      |
| <b>Contact characteristics</b>                            |                    |      |      |
| 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    |
|                                                           | AC-3               | 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 properly wired

**Mechanical features**

Operating position

normal allowable      Vertical plan ±30°

Fixing

Screw / DIN rail 35mm

Weight

g 520

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      cycles 1600000  
mechanical load      cycles 20000000

Mirror contacts according to IEC/EN 60947-4-1

YES

EMC compatibility

yes

**AC coil operating**

Rated AC voltage at 50/60Hz

V 48

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 75  
holding      VA 9

of 50/60Hz coil powered at 60Hz

|         |    |     |
|---------|----|-----|
| in-rush | VA | 70  |
| holding | VA | 6.5 |

of 60Hz coil powered at 60Hz

|         |    |    |
|---------|----|----|
| in-rush | VA | 75 |
| holding | VA | 9  |

Dissipation at holding  $\leq 20^{\circ}\text{C}$  50Hz

|   |     |
|---|-----|
| W | 2.5 |
|---|-----|

**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 | 11 |
| max | ms | 29 |

Opening NC

|     |    |    |
|-----|----|----|
| min | ms | 6  |
| max | ms | 14 |

**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 | $^{\circ}\text{C}$ | -50 |
| max | $^{\circ}\text{C}$ | 70  |

Storage temperature

|     |                    |     |
|-----|--------------------|-----|
| min | $^{\circ}\text{C}$ | -60 |
| max | $^{\circ}\text{C}$ | 80  |

Max altitude

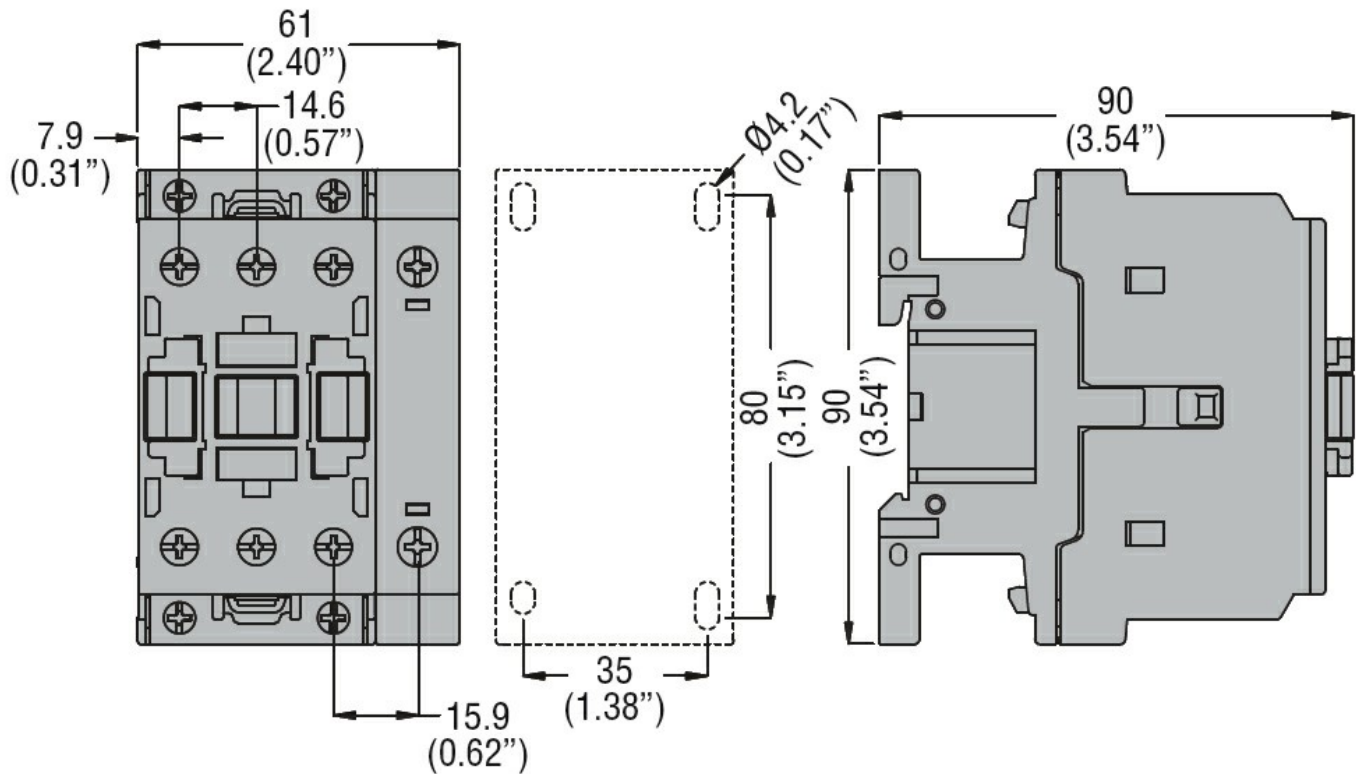
|   |      |
|---|------|
| m | 3000 |
|---|------|

**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
- EAC

**ETIM classification**

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching