

**ENERGY AND AUTOMATION** 

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, BFK TYPE (INCLUDING LIMITING RESISTORS), MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 460VAC 60HZ

| Product designation                                  |           |        | Power contactor  |
|--|-----------|--------|------------------|
| Product type designation                             |           |        | BFK115           |
| Contact characteristics                              |           |        |                  |
| Number of poles                                      |           | Nr.    | 3                |
| Rated insulation voltage Ui IEC/EN                   |           | V      | 690              |
| Rated impulse withstand voltage Uimp                 |           | kV     | 8                |
| Operational frequency                                |           |        |                  |
|  | min       | Hz     | 25               |
|  | max       | Hz     | 400              |
| IEC Conventional free air thermal current Ith        |           | Α      | 160              |
| Rated operational power AC-6b (T≤40°C)               |           |        |                  |
|  | 230V      | kvar   | 45               |
|  | 400V      | kvar   | 75               |
|  | 440480V   | kvar   | 85               |
|  | 690V      | kvar   | 135              |
| Short-time allowable current for 10s (IEC/EN60947-1) |           | Α      | 920              |
| Protection fuse                                      |           |        |                  |
|  | gG (IEC)  | Α      | 160              |
| Making capacity (RMS value)                          |           | Α      | 1500             |
| Breaking capacity at voltage                         |           |        |                  |
|  | 440V      | Α      | 1200             |
|  | 500V      | Α      | 850              |
|  | 690V      | Α      | 905              |
| Resistance per pole (average value)                  |           | mΩ     | 0.45             |
| Power dissipation per pole (average value)           |           |        |                  |
|  | Ith       | W      | 11.5             |
| Tightening torque for terminals                      |           |        |                  |
|  | min       | Nm     | 6                |
|  | max       | Nm     | 7                |
|  | min       | lbin   | 4.4              |
|  | max       | lbin   | 5.2              |
| Tightening torque for coil terminal                  | _         |        |                  |
|  | min       | Nm     | 0.8              |
|  | max       | Nm     | 1                |
|  | min       | lbin   | Prodotti finiti  |
|  | max       | Ibin   | Prodotti finiti  |
| Max number of wires simultaneously connectable       |           | Nr.    | 2                |
| Conductor section                                    |           |        |                  |
| Flexible w/o lug conductor section                   |           |        | 4.5              |
|  | min       | mm²    | 1.5<br>70        |
| Flovible of usua conductor poetion                   | max       | mm²    | 70               |
| Flexible c/w lug conductor section                   | min       | mm²    | 1.5              |
|  | max       | mm²    | 70               |
| Power terminal protection according to IEC/EN 60529  | IIIdx     | 111111 | IP20 front       |
| Mechanical features                                  |           |        | 11 20 110111     |
| Operating position                                   |           |        |                  |
| aparamia pooliiari                                   | normal    |        | Vertical plan    |
|  | allowable |        | ±30°             |
|  | anowabio  |        | Screw / DIN rail |
| Fixing   |           |        | 35mm             |
| Weight   |           | g      | 2095             |
| Operations   |           | 3      |                  |
|  |           |        |                  |



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| Mechanical life  |   |                 | cycles   | 15000000 |
|--|---|-----------------|----------|----------|
| Electrical life  |   |                 | cycles   | 1200000  |
| Safety related data  | Od according to EN/ISO 13489-1  |                 |          |          |
| i enomiance level bit  | od according to ETV/100 10409-1   | rated load      | cycles   | 400000   |
|  |   | mechanical load | cycles   | 15000000 |
| EMC compatibility  |   |                 |          | Yes      |
| Rated AC voltage at 6  | )Hz   |                 | V        | 460      |
| AC coil operating  |   |                 |          |          |
| AC operating voltage   |   |                 |          |          |
|  | of 60Hz coil powered at 60Hz  |                 |          |          |
|  | pick-up   | min             | %Us      | 80       |
|  |   | max             | %Us      | 110      |
|  | drop-o  |                 | 7003     | 110      |
|  | 3.0p 3.   | min             | %Us      | 20       |
|  |   | max             | %Us      | 55       |
| Max cycles frequency   |   |                 |          |          |
| Mechanical operation   |   |                 | cycles/h | 1500     |
| Operating times  |   |                 |          |          |
| Average time for Us co   |   |                 |          |          |
|  | in AC   | · NO            |          |          |
|  | Closing   | ) NO min        | ms       | 16       |
|  |   | max             | ms       | 32       |
|  | Openir  |                 | 1110     | 02       |
|  | -1-   | min             | ms       | 9        |
|  |   | max             | ms       | 24       |
| UL technical data  |   |                 |          |          |
| General USE  |   |                 |          |          |
|  | Contactor   | 10              |          | 100      |
| Ambient conditions   |   | AC current      | Α        | 160      |
| Temperature  |   |                 |          |          |
| remperature  | Operating temperature   |                 |          |          |
|  | operating temperature   | min             | °C       | -50      |
|  |   | max             | °C       | 70       |
|  | Storage temperature   |                 |          |          |
|  |   |                 |          |          |
|  |   | min             | °C       | -60      |
|  |   | min<br>max      | °C<br>°C | 80       |
| Max altitude   |   |                 |          |          |
| Resistance & Protection  | on  |                 | °C       | 3000     |
| Resistance & Protection Pollution degree   | on  |                 | °C       | 80       |
| Resistance & Protection Pollution degree Dimensions  | on<br>  |                 | °C       | 3000     |
| Resistance & Protection Pollution degree Dimensions Wiring diagrams                            |   |                 | °C       | 3000     |
| Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com     |   |                 | °C       | 3000     |
| Resistance & Protection Pollution degree Dimensions Wiring diagrams                            | pliance   |                 | °C       | 3000     |
| Resistance & Protection  Pollution degree  Dimensions  Wiring diagrams  Certifications and com | pliance<br>CSA C22.2 n° 60947-1   |                 | °C       | 3000     |
| Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com     | pliance  CSA C22.2 n° 60947-1  CSA C22.2 n° 60947-4-1                       |                 | °C       | 3000     |
| Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com     | Dliance  CSA C22.2 n° 60947-1  CSA C22.2 n° 60947-4-1  IEC/EN 60947-1       |                 | °C       | 3000     |
| Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com     | pliance  CSA C22.2 n° 60947-1  CSA C22.2 n° 60947-4-1                       |                 | °C       | 3000     |
| Resistance & Protection Pollution degree Dimensions Wiring diagrams Certifications and com     | CSA C22.2 n° 60947-1 CSA C22.2 n° 60947-4-1 IEC/EN 60947-1 IEC/EN 60947-4-1 |                 | °C       | 3000     |



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## BFK11500A46060

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| Certificates        |       |                         |
|---------------------|-------|-------------------------|
|                     | CCC   |                         |
|                     | cULus |                         |
| ETIM classification |       |                         |
| ETIM 8.0            |       | EC001079 -<br>Capacitor |