

CONTACTOR FOR POWER FACTOR CORRECTION WITH AC CONTROL CIRCUIT, INCLUDING LIMITING RESISTORS, MAXIMUM IEC OPERATIONAL POWER 400V = 75KVAR, COIL 575VAC 60HZ



| Product designation Product type designation                                          | tion                               |          |              | Power contactor<br>BFK115 |
|---------------------------------------------------------------------------------------|------------------------------------|----------|--------------|---------------------------|
| Contact characteristic                                                                |                                    |          |              | DIKITO                    |
| Number of poles                                                                       |                                    |          | Nr.          | 3                         |
| Rated insulation volta                                                                | ge Hi JEC/EN                       |          | V            | 690                       |
|                                                                                       | <del>-</del>                       |          | kV           | 8                         |
| Rated impulse withstand voltage Uimp  Operational frequency                           |                                    |          | N V          | 0                         |
| Operational frequency                                                                 | y                                  | min      | Hz           | 25                        |
|                                                                                       |                                    | min      | ⊓∠<br>Hz     | 400                       |
| IEC Conventional free                                                                 | a air tharmal aurrant Ith          | max      | <u>п</u> А   | 160                       |
| IEC Conventional free air thermal current Ith  Rated operational power AC-6b (T≤40°C) |                                    |          | A            | 100                       |
| Rated operational pov                                                                 | wer AC-60 (1540 C)                 | 0001/    | 1            | 4.5                       |
|                                                                                       |                                    | 230V     | kvar         | 45                        |
|                                                                                       |                                    | 400V     | kvar         | 75                        |
|                                                                                       |                                    | 440480V  | kvar         | 85                        |
|                                                                                       |                                    | 690V     | kvar         | 135                       |
| Short-time allowable                                                                  |                                    | Α        | 920          |                           |
| Protection fuse                                                                       |                                    |          |              |                           |
|                                                                                       |                                    | gG (IEC) | Α            | 160                       |
| Making capacity (RMS                                                                  | S value)                           |          | Α            | 1500                      |
| Breaking capacity at v                                                                | voltage                            |          |              | _                         |
|                                                                                       |                                    | 440V     | Α            | 1200                      |
|                                                                                       |                                    | 500V     | Α            | 850                       |
|                                                                                       |                                    | 690V     | Α            | 905                       |
| Resistance per pole (                                                                 |                                    | mΩ       | 0.45         |                           |
| Power dissipation per pole (average value)                                            |                                    |          |              |                           |
|                                                                                       | ,                                  | lth      | 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                      | IIIax    | 10111        | 0.2                       |
| rightening torque for                                                                 | oon torriiriai                     | min      | Nm           | 0.8                       |
|                                                                                       |                                    |          | Nm           | 0.6<br>1                  |
|                                                                                       |                                    | max      |              |                           |
|                                                                                       |                                    | min      | lbin<br>Ibin | 0.59                      |
| May number of                                                                         | aimultanaayah, aannaatah la        | max      | Ibin         | 0.74                      |
|                                                                                       | simultaneously connectable         |          | Nr.          | 2                         |
| Conductor section                                                                     | ANA/O/I/                           |          |              |                           |
|                                                                                       | AWG/Kcmil                          |          |              | 0/0                       |
|                                                                                       | =                                  | max      |              | 2/0                       |
|                                                                                       | Flexible w/o lug conductor section |          | _            |                           |
|                                                                                       |                                    | min      | mm²          | 1.5                       |
|                                                                                       |                                    | max      | mm²          | 70                        |
|                                                                                       | Flexible c/w lug conductor section |          |              |                           |
|                                                                                       |                                    | min      | mm²          | 1.5                       |
|                                                                                       |                                    |          |              |                           |





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|                                     |                          |            | max               | mm²      | 70                       |
|-------------------------------------|--------------------------|------------|-------------------|----------|--------------------------|
| -                                   | tion according to IEC/EN | 60529      |                   |          | IP20 front               |
| Mechanical features                 |                          |            |                   |          |                          |
| Operating position                  |                          |            | normal            |          | Vertical plan            |
| Fixing                              |                          |            | allowable         |          | ±30°<br>Screw / DIN rail |
|                                     |                          |            |                   |          | 35mm                     |
| Weight Conductor section            |                          |            |                   | g        | 2095                     |
| Conductor Section                   | AWG/kcmil conductor      | section    |                   |          |                          |
| O                                   |                          |            | max               |          | 2/0                      |
| Operations                          |                          |            |                   |          | 45000000                 |
| Mechanical life                     |                          |            |                   | cycles   | 15000000                 |
| Electrical life Safety related data |                          |            |                   | cycles   | 1200000                  |
| •                                   | Od according to EN/ISO   | 13/80-1    |                   |          |                          |
| r enormance level bit               | od according to LIVISO   | 13403-1    | rated load        | cycles   | 400000                   |
|                                     |                          |            | mechanical load   | cycles   | 1500000                  |
| EMC compatibility                   |                          |            | Theorianical load | Cyclos   | yes                      |
| AC coil operating                   |                          |            |                   |          | y 00                     |
| Rated AC voltage at 60              | 0Hz                      |            |                   | V        | 575                      |
| AC operating voltage                | 0112                     |            |                   | •        | 070                      |
| 7.0 operating vertage               | of 60Hz coil powered a   | t 60Hz     |                   |          |                          |
|                                     | or our iz our powered a  | pick-up    |                   |          |                          |
|                                     |                          | pion up    | min               | %Us      | 80                       |
|                                     |                          |            | max               | %Us      | 110                      |
|                                     |                          | drop-out   |                   | ,,,,,    |                          |
|                                     |                          | ·          | min               | %Us      | 20                       |
|                                     |                          |            | max               | %Us      | 55                       |
| Max cycles frequency                |                          |            |                   |          |                          |
| Mechanical operation                |                          |            |                   | cycles/h | 1500                     |
| Operating times                     |                          |            |                   |          |                          |
| Average time for Us co              | ontrol                   |            |                   |          |                          |
|                                     | in AC                    |            |                   |          |                          |
|                                     |                          | Closing NO |                   |          |                          |
|                                     |                          |            | min               | ms       | 16                       |
|                                     |                          |            | max               | ms       | 32                       |
|                                     |                          | Opening NO |                   |          |                          |
|                                     |                          |            | min               | ms       | 9                        |
|                                     |                          |            | max               | ms       | 24                       |
| UL technical data                   |                          |            |                   |          |                          |
| General USE                         |                          |            |                   |          |                          |
|                                     | Contactor                |            |                   | -        |                          |
| A 11 / HI                           |                          |            | AC current        | Α        | 160                      |
| Ambient conditions                  |                          |            |                   |          |                          |
| Temperature                         |                          |            |                   |          |                          |
|                                     | Operating temperature    |            |                   | 2.2      | <b>5</b> 0               |
|                                     |                          |            | min               | °C       | -50                      |
|                                     | <del></del>              |            | max               | °C       | 70                       |
|                                     | Storage temperature      |            |                   | 0.0      | 00                       |
|                                     |                          |            | min               | °C       | -60                      |
| May altitude                        |                          |            | max               | °C       | 80                       |
| Max altitude                        |                          |            |                   | m        | 3000                     |



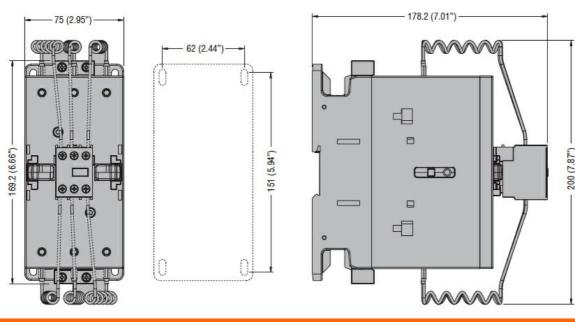
**ENERGY AND AUTOMATION** 

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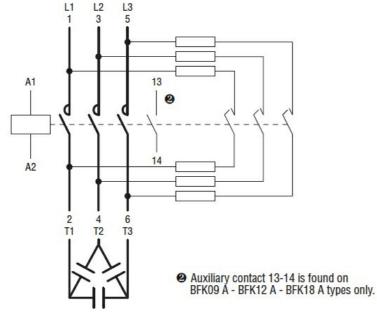
#### Resistance & Protection

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



### BFK11500A57560

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ETIM 8.0

EC001079 -Capacitor contactor