

|                                                      |            |                          |                 |
|------------------------------------------------------|------------|--------------------------|-----------------|
| 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        | A          | 160                      |                 |
| Rated operational power AC-6b (T≤40°C)               | 230V       | kvar                     | 45              |
|                                                      | 400V       | kvar                     | 75              |
|                                                      | 440...480V | kvar                     | 85              |
|                                                      | 690V       | kvar                     | 135             |
| Short-time allowable current for 10s (IEC/EN60947-1) | A          | 920                      |                 |
| Protection fuse                                      | gG (IEC)   | A                        | 160             |
|                                                      |            | A                        | 1500            |
| Making capacity (RMS value)                          |            |                          |                 |
| Breaking capacity at voltage                         | 440V       | A                        | 1200            |
|                                                      | 500V       | A                        | 850             |
|                                                      | 690V       | A                        | 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        | Ibin                     | 4.4             |
|                                                      | max        | Ibin                     | 5.2             |
| Tightening torque for coil terminal                  | min        | Nm                       | 0.8             |
|                                                      | max        | Nm                       | 1               |
|                                                      | min        | Ibin                     | Prodotti finiti |
|                                                      | max        | Ibin                     | Prodotti finiti |
| Max number of wires simultaneously connectable       | Nr.        | 2                        |                 |
| Conductor section                                    |            |                          |                 |
| Flexible w/o lug conductor section                   | min        | mm²                      | 1.5             |
|                                                      | max        | mm²                      | 70              |
| Flexible c/w lug conductor section                   | min        | mm²                      | 1.5             |
|                                                      | max        | mm²                      | 70              |
| Power terminal protection according to IEC/EN 60529  |            | IP20 front               |                 |
| Mechanical features                                  |            |                          |                 |
| Operating position                                   | normal     | Vertical plan            |                 |
|                                                      | allowable  | ±30°                     |                 |
| Fixing                                               |            | Screw / DIN rail<br>35mm |                 |
| Weight                                               | g          | 2095                     |                 |
| Operations                                           |            |                          |                 |

|                                                    |  |                               |                  |                    |
|----------------------------------------------------|--|-------------------------------|------------------|--------------------|
| Mechanical life                                    |  | cycles                        | 15000000         |                    |
| Electrical life                                    |  | cycles                        | 1200000          |                    |
| Safety related data                                |  |                               |                  |                    |
| Performance level B10d according to EN/ISO 13489-1 |  |                               |                  |                    |
|                                                    |  | rated load<br>mechanical load | cycles<br>cycles | 400000<br>15000000 |
| EMC compatibility                                  |  |                               |                  |                    |
| Rated AC voltage at 60Hz                           |  | V                             | 230              |                    |
| AC coil operating                                  |  |                               |                  |                    |
| AC operating voltage                               |  |                               |                  |                    |
| of 60Hz coil powered at 60Hz                       |  |                               |                  |                    |
| pick-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 control                        |  |                               |                  |                    |
| in AC                                              |  |                               |                  |                    |
| Closing NO                                         |  | min                           | ms               | 16                 |
|                                                    |  | max                           | ms               | 32                 |
| Opening NO                                         |  | min                           | ms               | 9                  |
|                                                    |  | max                           | ms               | 24                 |
| UL technical data                                  |  |                               |                  |                    |
| General USE                                        |  |                               |                  |                    |
| Contactor                                          |  | AC current                    | A                | 160                |
| 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 |                                |
| ETIM classification |       |                                |
| ETIM 8.0            |       | EC001079 - Capacitor contactor |