



| Product designation Product type designation | | | Power contactor B115 |
|---|-----------------------------------|-----|-------------------------|
| Contact characteristics | | | БПО |
| Number of poles | | Nr. | 4 |
| Rated insulation voltage Ui IEC/EN | | V | 1000 |
| Rated impulse withstand voltage Uimp | | kV | 8 |
| Operational frequency | | | |
| Operational requestoy | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | max | A | 160 |
| Operational current le | | | 100 |
| Operational current le | AC-1 (≤40°C) | Α | 160 |
| | AC-1 (≤55°C) | A | 150 |
| | AC-1 (≤70°C) | A | 110 |
| | AC-3 (≤440V ≤55°C) | A | 110 |
| | AC-3 (3440V 333 C) AC-4 (400V) | A | 47 |
| Rated operational power AC-1 (T≤40°C) | AC-4 (400V) | ^ | 41 |
| Rated operational power AC-1 (1540 C) | 2201/ | LAM | F.7 |
| | 230V | kW | 57 |
| | 400V | kW | 98 |
| | 500V | kW | 129 |
| 150 | 690V | kW | 173 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | 4.0.0 |
| | 75V | Α | 160 |
| | 110V | Α | 100 |
| | 220V | Α | _ |
| | 330V | Α | _ |
| - | 460V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| | 75V | Α | 160 |
| | 110V | Α | 130 |
| | 220V | Α | 100 |
| | 330V | Α | _ |
| | 460V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| | 75V | Α | 160 |
| | 110V | Α | 130 |
| | 220V | Α | 130 |
| | 330V | Α | 100 |
| | 460V | Α | _ |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | 75V | Α | 160 |
| | 110V | Α | 130 |
| | 220V | Α | 130 |
| | 330V | Α | 130 |
| | 460V | Α | 100 |
| | | | |

| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | | |
|--|-------------|-----------|---------------|
| | 75V | Α | 140 |
| | 110V | Α | 70 |
| | 220V | Α | _ |
| | 330V | Α | _ |
| | 460V | A | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | 400 V | | |
| TEC max current le in DC3-DC3 with L/R \(\) 13ms with 2 poles in series | 75)/ | ^ | 4.40 |
| | 75V | Α | 140 |
| | 110V | Α | 100 |
| | 220V | Α | 80 |
| | 330V | Α | _ |
| | 460V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| | 75V | Α | 140 |
| | 110V | Α | 120 |
| | 220V | Α | 100 |
| | 330V | Α | 80 |
| | 460V | A | _ |
| IEC may current to in DC2 DC5 with 1/D < 45mg with 4 males in acris- | 400 V | | - |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | 75 7 | Δ. | 4.40 |
| | 75V | Α | 140 |
| | 110V | Α | 120 |
| | 220V | Α | 120 |
| | 330V | Α | 120 |
| | 460V | Α | 80 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 1100 |
| Protection fuse | | | |
| | gG (IEC) | Α | 200 |
| | aM (IEC) | Α | 125 |
| Making capacity (RMS value) | aw (ILO) | A | 1300 |
| | | | 1300 |
| Breaking capacity at voltage | | _ | |
| | 440V | Α | 1300 |
| | 500V | Α | 1100 |
| | 690V | Α | 880 |
| Resistance per pole (average value) | | $m\Omega$ | 0.3 |
| Power dissipation per pole (average value) | | | |
| , , , | Ith | W | 7.7 |
| | AC-3 | W | 4 |
| Tightening torque for terminals | 7.00 | | · · |
| rightening torque for terminals | min | Nim | 10 |
| | min | Nm Nm | 10 |
| | max | Nm | 10 |
| | min | Ibin | 7.4 |
| | max | Ibin | 7.4 |
| Max number of wires simultaneously connectable | | Nr. | 2 |
| Conductor section | | | |
| AWG/Kcmil | | | |
| | max | | 2/0 |
| Power terminal protection according to IEC/EN 60529 | | | IP00 |
| Mechanical features | | | |
| Operating position | | | |
| Operating position | | | Vertical plan |
| | normal | | Vertical plan |
| | allowable | | ±30° |
| Fixing | | | Screw |
| Weight | | g | 6180 |
| | | | |



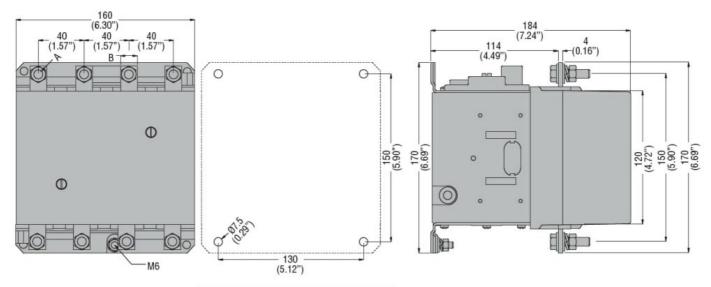
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| Operations | | | | |
|--------------------------|----------------------------------|-----------------|--------|----------|
| Mechanical life | | | cycles | 10000000 |
| Electrical life | | | cycles | 1100000 |
| Safety related data | | | Oyoloo | 1100000 |
| | Od according to EN/ISO 13489-1 | | | |
| 01101111a1100 10101 D11 | ou according to Environ to too t | rated load | cycles | 1100000 |
| | | mechanical load | cycles | 10000000 |
| Mirror contats according | ng to IEC/EN 609474-4-1 | | 0,0.00 | Yes |
| EMC compatibility | 19 10 12 0/211 000 11 1 1 | | | yes |
| AC coil operating | | | | you |
| Rated AC voltage at 50 | 0/60Hz, 60Hz | | | |
| | | min | V | 440 |
| | | max | V | 415 |
| AC operating voltage | | | | |
| to operating vertage | of 50/60Hz coil powered at 50Hz | | | |
| | pick-up | | | |
| | pront sp | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | - |
| | | min | %Us | 20 |
| | | max | %Us | 60 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | , pick-up | | | |
| | · | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | · | min | %Us | 20 |
| | | max | %Us | 60 |
| | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 20 |
| | | max | %Us | 60 |
| AC average coil consu | | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | | in-rush | VA | 300 |
| | | holding | VA | 10 |
| | of 50/60Hz coil powered at 60Hz | | | |
| | | in-rush | VA | 300 |
| | | holding | VA | 10 |
| Dissipation at holding : | ≤20°C 50Hz | | W | 10 |
| DC coil operating | | | | |
| DC rated control voltag | ge | | | |
| | | min | V | 440 |
| | | max | V | 415 |
| OC operating voltage | | | | |
| | pick-up | | | |
| | | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 20 |
| | | max | %Us | 60 |
| | | | | |

| Average coil consumpt | tion ≤20°C | | | | |
|---------------------------|---|-------------|-----------------------|----------|------|
| , wordge com companie | | | in-rush | W | 300 |
| | | | holding | W | 10 |
| Max cycles frequency | | | | | |
| Mechanical operation | | | | cycles/h | 2400 |
| Operating times | | | | | |
| Average time for Us co | ontrol | | | | |
| | in AC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 60 |
| | | | max | ms | 100 |
| | | Opening NO | | | 0.5 |
| | | | min | ms | 25 |
| | 1. DO | | max | ms | 60 |
| | in DC | Olasia a NO | | | |
| | | Closing NO | | ma | 60 |
| | | | min | ms | 60 |
| | | Opening NO | max | ms | 100 |
| | | Opening NO | min | me | 25 |
| | | | max | ms ms | 60 |
| UL technical data | | | IIIAX | 1113 | 00 |
| Rated operational volta | age AC (UL) | | | V | 600 |
| Full-load current (FLA) | | notor | | • | |
| i dii load carrent (i LA) | ioi tilico pilaso AO li | 1001 | at 480V | Α | 96 |
| | | | at 600V | A | 99 |
| Yielded mechanical pe | rformance | | dt 000 v | | |
| riciaca medianicai pe | for three-phase AC | motor | | | |
| | for times phase 7.0 | motor | 200/208V | HP | 30 |
| | | | 220/230V | HP | 40 |
| | | | 575/600V | HP | 100 |
| General USE | | | 0.0,000 | <u> </u> | |
| | Contactor | | | | |
| | 0011100101 | | AC current | Α | 160 |
| Short-circuit protection | fuse, 600V | | | <u> </u> | |
| | Standard fault | | | | |
| | _ >==================================== | | Short circuit current | kA | 5 |
| | | | Fuse rating | Α | 500 |
| | | | Fuse class | | RK5 |
| Ambient conditions | | | | | |
| Temperature | | | | | |
| | Operating temperatu | ure | | | |
| | | | min | °C | -50 |
| | | | max | °C | 70 |
| | Storage temperature | e | | | |
| | | | min | °C | -60 |
| | | | max | °C | 80 |
| Max altitude | | | | m | 3000 |
| Resistance & Protection | n | | | | |
| Pollution degree | | | | | 3 |
| Dimensions | | | | | |
| | | | | | |

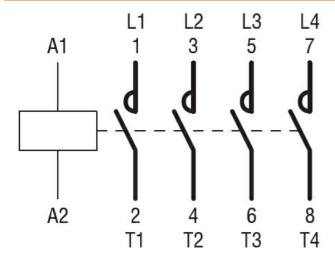
ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 160A, AC/DC COIL, 440...480VAC/DC



| CONTACTOR TYPE | Α | В |
|----------------|----|------------|
| B115 | M6 | 15 (0.59") |
| B145 | M8 | 20 (0.79") |
| B180 | M8 | 20 (0.79") |

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