



| Product designation Product type designation | | | Power contactor B400 |
|---|--------------------|------|-------------------------|
| Contact characteristics | | | |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 1000 |
| Rated impulse withstand voltage Uimp | | kV | 8 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | Α | 550 |
| Operational current le | | | |
| | AC-1 (≤40°C) | Α | 550 |
| | AC-1 (≤55°C) | Α | 430 |
| | AC-1 (≤70°C) | Α | 360 |
| | AC-3 (≤440V ≤55°C) | Α | 420 |
| | AC-4 (400V) | Α | 200 |
| Rated operational power AC-3 (T≤55°C) | | | |
| | 230V | kW | 130 |
| | 400V | kW | 225 |
| | 415V | kW | 247 |
| | 440V | kW | 263 |
| | 500V | kW | 271 |
| | 690V | kW | 352 |
| Rated operational power AC-1 (T≤40°C) | 1000V | kW | 208 |
| Nated operational power AC-1 (1340 C) | 230V | kW | 200 |
| | 400V | kW | 345 |
| | 500V | kW | 452 |
| | 690V | kW | 598 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | 030 V | IXVV | 330 |
| TEO MAX OUT ON E OT WITH E/TY = THIS WITH T POICE IT SOILES | 75V | Α | 400 |
| | 110V | Α | 250 |
| | 220V | A | |
| | 330V | Α | |
| | 460V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| = , , | 75V | Α | 400 |
| | 110V | Α | 400 |
| | 220V | Α | 350 |
| | 330V | Α | |
| | 460V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | | | |
| · | 75V | Α | 400 |
| | 110V | Α | 400 |
| | 220V | Α | 400 |
| | | | |



| | 330V | Α | 350 |
|--|----------|----------|--------------|
| | 460V | Α | |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | | | |
| | 75V | Α | 400 |
| | 110V | Α | 400 |
| | 220V | Α | 400 |
| | 330V | Α | 400 |
| | 460V | Α | 350 |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | | | |
| | 75V | Α | 350 |
| | 110V | Α | 200 |
| | 220V | Α | |
| | 330V | Α | |
| | 460V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | 75V | Α | 350 |
| | 110V | Α | 350 |
| | 220V | Α | 280 |
| | 330V | A | |
| | 460V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | 400 V | | |
| TEC max current le in DC3-DC3 with L/K \(\) Toms with 3 poles in series | 75\/ | ۸ | 250 |
| | 75V | A | 350 |
| | 110V | A | 350 |
| | 220V | A | 350 |
| | 330V | A | 280 |
| | 460V | Α | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | | | |
| | 75V | Α | 350 |
| | 110V | Α | 350 |
| | 220V | Α | 350 |
| | 330V | Α | 280 |
| | 460V | Α | 280 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 3600 |
| Protection fuse | | | |
| | gG (IEC) | Α | 630 |
| | aM (IEC) | Α | 400 |
| Making capacity (RMS value) | | Α | 4200 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 4000 |
| | 500V | Α | 3400 |
| | 690V | Α | 3360 |
| Resistance per pole (average value) | | mΩ | 0.2 |
| Power dissipation per pole (average value) | | | |
| [[[(| Ith | W | 52 |
| | AC-3 | W | 32 |
| Tightening torque for terminals | | | |
| | min | Nm | 35 |
| | max | Nm | 35 |
| | min | Ibin | 25.8 |
| | | lbin | 25.8 |
| Tightening torque for coil terminal | max | וווטו | ∠ J.U |
| rightening torque for con terminal | | Nima | 1 |
| | min | Nm Nm | 1 |
| | max | Nm | 1 |
| | | | |



| Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 2x 300 kcmil Power terminal protection according to IEC/EN 60529 IP00 Mechanical features Deparating position normal allowable 2 vertical plan allowable ± 30° Eixing Screw Weight Deparations g 9770 Deparations Electrical life cycles 10000000 Electrical life cycles 700000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 700000 Mirror contats according to IEC/EN 609474-4-1 Yes | | | min | Ibin | 0.74 |
|--|-----------------------------|--------------------------------|-----------------|--------|---------------|
| Conductor section AWG/Kcmil max 2x 300 kcmil P00 | | | | | |
| AWG/Kcmi | Max number of wires simult | aneously connectable | | Nr. | 2 |
| Description Properties Pr | Conductor section | - | | | |
| Pool | AW | /G/Kcmil | | | |
| Mechanical features | | | max | | 2x 300 kcmil |
| Departing position | Power terminal protection a | according to IEC/EN 60529 | | | IP00 |
| Name | Mechanical features | | | | |
| String S | Operating position | | | | |
| Screw Screw Screw Screw Screw September Screw September Screw Scre | | | normal | | Vertical plan |
| Neight | | | allowable | | ±30° |
| Cycles 10000000 1000000000000000000000000 | Fixing | | | | Screw |
| Mechanical life Cycles 10000000 | Weight | | | g | 9770 |
| Performance level B10d according to EN/ISO 13489-1 | Operations | | | | |
| Performance level B10d according to EN/ISO 13489-1 rated load mechanical load cycles 700000 mechanical load rated load mechanical load rated load mechanical load rated load mechanical load rated load cycles rated load mechanical load rated load | Mechanical life | | | cycles | 10000000 |
| Performance level B10d according to EN/ISO 13489-1 rated load cycles 700000 (voc) 7000000 (voc) 7000000 (voc) 7000000 (voc) 7000000 (voc) 70000000 (voc) 700000000 (voc) 700000000000000000000000000000000000 | Electrical life | | | cycles | 700000 |
| rated load mechanical load cycles 700000 100000000 1000000000000000 | Safety related data | | | | |
| Mirror contats according to IEC/EN 609474-4-1 Yes Yes | Performance level B10d ac | cording to EN/ISO 13489-1 | | | |
| Mirror contats according to IEC/EN 609474-4-1 | | | | - | |
| Marcompatibility Yes | | | mechanical load | cycles | 10000000 |
| AC ooll operating V | | IEC/EN 609474-4-1 | | | Yes |
| AC operating voltage at 50/60Hz V 24 | EMC compatibility | | | | yes |
| AC operating voltage of 50/60Hz coil powered at 50Hz pick-up min | | | | | |
| of 50/60Hz coil powered at 50Hz pick-up min | | l z | | V | 24 |
| Pick-up min | AC operating voltage | | | | |
| Max Mus 110 Mus 80 Max Mus 110 Mus Mus 110 Mus Mus 110 Mus Mus 60 Mus Mus 60 Mus Mus 60 Mus Mus 60 Mus Mus Mus 60 Mus Mus | of 5 | 50/60Hz coil powered at 50Hz | | | |
| Max Wus 110 | | pick-up | | | |
| drop-out min %Us 20 max %Us 60 | | | min | | |
| min %Us 20 max %Us 60 | | | max | %Us | 110 |
| max %Us 60 | | drop-out | | | |
| 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 60 of max %Us 110 drop-out min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 AC average coil consumption at 20°C 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 | | | min | | |
| Pick-up min %Us 80 max %Us 110 Max Mus 110 Mus | | | max | %Us | 60 |
| Min Mus 80 Max Mus 110 Mus 110 Mus Mus 20 Mus Mus 60 Mus Mus 60 Mus Mus 60 Mus Mus Mus 60 Mus Mus | of 5 | • | | | |
| Max %Us 110 | | pick-up | | | |
| drop-out min %Us 20 max %Us 60 | | | | | |
| min %Us 20 max %Us 60 | | | max | %Us | 110 |
| max %Us 60 | | drop-out | | 0/17 | 00 |
| 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 consumption at 20°C 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 | | | | | |
| pick-up min %Us 80 max %Us 110 drop-out min %Us 20 max %Us 60 AC average coil consumption at 20°C 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 | • | 2011= acil sever-1 -t 0011 | max | %US | 00 |
| min %Us 80 max %Us 110 | of 6 | - | | | |
| Max %Us 110 | | ріск-ир | | 0/11- | 90 |
| drop-out min %Us 20 max %Us 60 AC average coil consumption at 20°C 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 | | | | | |
| AC average coil consumption at 20°C 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 | | drop out | inax | %US | 110 |
| MC average coil consumption at 20°C 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 | | arop-out | min | 0/110 | 20 |
| AC average coil consumption at 20°C 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 | | | | | |
| 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 | AC average coil consumption | on at 20°C | IIIdX | /0US | 00 |
| in-rush VA 300 holding VA 10 of 50/60Hz coil powered at 60Hz in-rush VA 300 | | | | | |
| of 50/60Hz coil powered at 60Hz in-rush VA 300 | OI 5 | DO/OUTIZ COII POWEIEU AL DUTIZ | in ruch | \/^ | 300 |
| of 50/60Hz coil powered at 60Hz in-rush VA 300 | | | | | |
| in-rush VA 300 | of E | 50/60Hz coil powered at 60Hz | noluling | ٧A | 10 |
| | OI 5 | 20/001 12 coil powered at 00H2 | in ruch | ١/٨ | 300 |
| noiding VA 10 | | | | | |
| | | | noluling | ٧A | 10 |



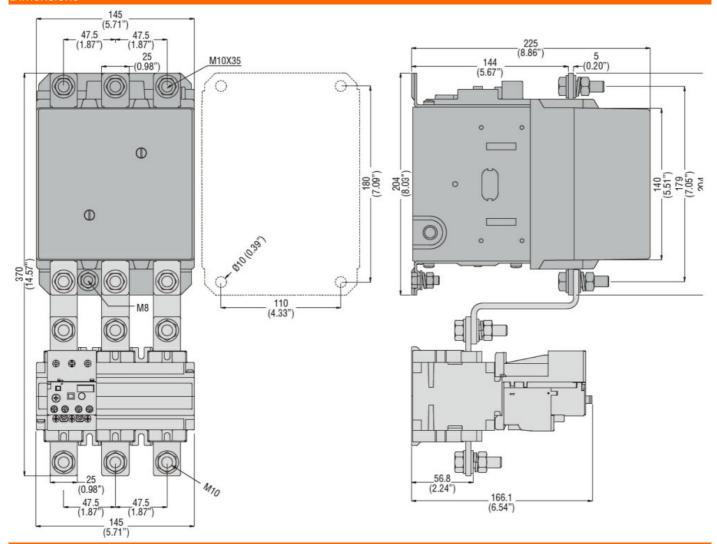
| District Constitution | 40000 FOLL- | | | 107 | 40 |
|--------------------------------------|--------------------|-------------|-----------------------|----------|-----------|
| Dissipation at holding ≤ | \$20°C 50Hz | | | W | 10 |
| DC coil operating | | | | \ / | 24 |
| DC rated control voltage | je | | | V | 24 |
| DC operating voltage | | | | | |
| | pick-up | | | 0/11- | 0.0 |
| | | | min | %Us | 80 |
| | | | max | %Us | 110 |
| | drop-out | | | 0/11- | 00 |
| | | | min | %Us | 20 |
| Average seil consumpt | tion <20°C | | max | %Us | 60 |
| Average coil consumpt | lion ≥20 C | | in much | 14/ | 200 |
| | | | in-rush | W | 300 10 |
| Max cycles frequency | | | holding | VV | 10 |
| | | | | eveloc/b | 2400 |
| Mechanical operation Operating times | | | | cycles/h | <u> </u> |
| Average time for Us co | ontrol | | | | |
| Average unie ioi 05 00 | in AC | | | | |
| | III AC | Closing NO | | | |
| | | Closing NO | min | ms | 80 |
| | | | max | ms | 120 |
| | | Opening NO | IIIdA | 1113 | 120 |
| | | Opening 140 | min | ms | 30 |
| | | | max | ms | 75 |
| | in DC | | THOX | | |
| | 20 | Closing NO | | | |
| | | Cioonig 110 | min | ms | 80 |
| | | | max | ms | 120 |
| | | Opening NO | | | |
| | | , 0 | min | ms | 30 |
| | | | max | ms | 75 |
| UL technical data | | | | | |
| Rated operational volta | age AC (UL) | | | V | 600 |
| Full-load current (FLA) | for three-phase AC | motor | | | |
| | | | at 480V | Α | 414 |
| | | | at 600V | Α | 382 |
| Yielded mechanical pe | rformance | | | | |
| | for three-phase A | C motor | | | |
| | | | 200/208V | HP | 125 |
| | | | 220/230V | HP | 150 |
| | | | 460/480V | HP | 350 |
| | | | 575/600V | HP | 400 |
| General USE | | | | | |
| | Contactor | | | | |
| | | | AC current | Α | 550 |
| Short-circuit protection | | | | | |
| | Standard fault | | | | |
| | | | Short circuit current | kA | 18 |
| | | | Fuse rating | Α | 800 |
| | | | Fuse class | | L |
| Ambient conditions | | | | | |
| Temperature | | | | | |
| | Operating temper | ature | | | |
| | | | min | °C | -50 |





| | max | °C | 70 |
|-------------------------|-----|----|------|
| Storage temperature | | | |
| | min | °C | -60 |
| | max | °C | 80 |
| Max altitude | | m | 3000 |
| Resistance & Protection | | | |
| Pollution degree | | | 3 |

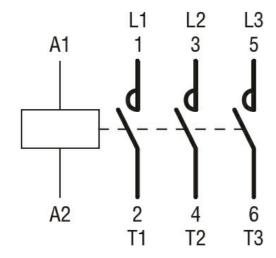
Dimensions



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL,



| O | cations | | | |
|-----------|---------|--------|-----------|------|
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| Cerun | Jauons | anu u | וועוועווע | ance |
| | | | | |

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

11B4000024