



| Product designation Product type designation                    |                    |     | Power contactor<br>B400 |
|---|--------------------|-----|-------------------------|
| Contact characteristics   |                    |     | 2.00                    |
| 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                     |
|   | 1000V              | kW  | 208                     |
| Rated operational power AC-1 (T=40°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 |                    |     |                         |
|   | 75V                | Α   | 400                     |
|   | 110V               | Α   | 250                     |
|   | 220V               | Α   |                         |
|   | 330V               | Α   |                         |
|   | 460V               | Α   |                         |
| IEC max current le in DC1 with L/R = 1ms with 2 poles in series |                    | _   | 400                     |
|   | 75V                | A   | 400                     |
|   | 110V               | A   | 400                     |
|   | 220V               | A   | 350                     |
|   | 330V               | A   |                         |
| 150   | 460V               | A   |                         |
| IEC max current le in DC1 with L/R = 1ms with 3 poles in series | , .                |     | 400                     |
|   | 75V                | A   | 400                     |
|   | 110V               | A   | 400                     |
|   | 220V               | Α   | 400                     |



11B40000380

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 420A, AC/DC COIL, 380...415VAC/DC

|  | 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     | Α    |      |
|  | 460V     | Α    |      |
| IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series   |          |      |      |
|  | 75V      | Α    | 350  |
|  | 110V     | Α    | 350  |
|  | 220V     | Α    | 350  |
|  | 330V     | Α    | 280  |
|  | 460V     | A    |      |
| 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   |          | _    | 4000 |
|  | 440V     | Α    | 4000 |
|  | 500V     | A    | 3400 |
| Decision of the control of the contr | 690V     | Α    | 3360 |
| Resistance per pole (average value)  |          | m?   | 0.2  |
| Power dissipation per pole (average value)   |          |      |      |
|  | Ith      | W    | 52   |
| This is a few to the second of   | AC3      | W    | 32   |
| Tightening torque for terminals  |          |      | 0.5  |
|  | min      | Nm   | 35   |
|  | max<br>· | Nm   | 35   |
|  | min      | lbin | 25.8 |
| <del></del>  | max      | Ibin | 25.8 |
| Tightening torque for coil terminal  |          |      |      |
|  | min      | Nm   | 1    |
|  | max      | Nm   | 1    |
|  |          |      |      |



|   |  | min   | Ibin  | 0.74   |
|---|--|---|---|--|
|   |  | max   | Ibin  | 0.74   |
| Max number of wires s                   | simultaneously connectable   |   | Nr.   | 2  |
| Conductor section                       |  |   |   |  |
|   | AWG/Kcmil  |   |   |  |
|   |  | max   |   | 2x 300 kcmil   |
|   | tion according to IEC/EN 60529   |   |   | IP00   |
| Mechanical features                     |  |   |   |  |
| Operating position                      |  |   |   |  |
|   |  | normal  |   | Vertical plan  |
|   |  | allowable                                       |   | ±30°   |
| Fixing                                  |  |   |   | Screw  |
| Weight                                  |  |   | g   | 9560   |
| Conductor section                       |  |   |   |  |
|   | AWG/kcmil conductor section  |   |   |  |
|   |  | max   |   | 2x 300 kcmil   |
| Operations                              |  |   |   |  |
| Mechanical life                         |  |   | cycles  | 10000000   |
| Electrical life                         |  |   | cycles  | 700000   |
| Safety related data                     |  |   |   |  |
| Performance level B1                    | 0d according to EN/ISO 13489-1   |   |   |  |
|   |  | rated load                                      | cycles  | 700000   |
|   |  | mechanical load                                 | cycles  | 10000000   |
| Mirror contats according                | ng to IEC/EN 609474-4-1  |   |   | yes  |
| EMC compatibility                       | <u> </u>   | <del></del>                                     |   | VOC  |
| -mo companionity                        |  |   |   | yes  |
| AC coil operating                       |  |   |   | yes  |
|   | 0/60Hz, 60Hz   |   |   | yes  |
| AC coil operating                       | 0/60Hz, 60Hz   | min   | V   | 380  |
| AC coil operating                       | 0/60Hz, 60Hz   | min<br>max                                      | V<br>V  |  |
| AC coil operating                       | 0/60Hz, 60Hz   |   |   | 380  |
| AC coil operating Rated AC voltage at 5 | 0/60Hz, 60Hz of 50/60Hz coil powered at 50Hz   |   |   | 380  |
| AC coil operating Rated AC voltage at 5 |  |   |   | 380  |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz  |   |   | 380  |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz  | max   | V   | 380<br>415   |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz  | max<br>min                                      | V<br>%Us                                      | 380<br>415<br>80   |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz<br>pick-up   | max<br>min                                      | V<br>%Us                                      | 380<br>415<br>80   |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz<br>pick-up   | max<br>min<br>max                               | V<br>%Us<br>%Us                               | 380<br>415<br>80<br>110                                      |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz<br>pick-up   | max<br>min<br>max<br>min                        | V<br>%Us<br>%Us<br>%Us                        | 380<br>415<br>80<br>110<br>20                                |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz<br>pick-up<br>drop-out   | max<br>min<br>max<br>min                        | V<br>%Us<br>%Us<br>%Us                        | 380<br>415<br>80<br>110<br>20                                |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz   | max<br>min<br>max<br>min                        | V<br>%Us<br>%Us<br>%Us                        | 380<br>415<br>80<br>110<br>20                                |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz   | max<br>min<br>max<br>min<br>max                 | V<br>%Us<br>%Us<br>%Us<br>%Us                 | 380<br>415<br>80<br>110<br>20<br>60                          |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz   | max min max min max                             | V  %Us %Us %Us %Us %Us                        | 380<br>415<br>80<br>110<br>20<br>60                          |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up   | max min max min max                             | V  %Us %Us %Us %Us %Us                        | 380<br>415<br>80<br>110<br>20<br>60                          |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up   | min max min max min max                         | %Us<br>%Us<br>%Us<br>%Us<br>%Us               | 380<br>415<br>80<br>110<br>20<br>60                          |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up   | min max min max min max min max min min max     | %Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us        | 380<br>415<br>80<br>110<br>20<br>60<br>80<br>110<br>20       |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz         | min max min max min max min max min min max     | %Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us        | 380<br>415<br>80<br>110<br>20<br>60<br>80<br>110<br>20       |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out                                       | min max min max min max min max min min max     | %Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us        | 380<br>415<br>80<br>110<br>20<br>60<br>80<br>110<br>20       |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz         | min max min max min max min max min max         | %Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us | 380<br>415<br>80<br>110<br>20<br>60<br>80<br>110<br>20<br>60 |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz         | min max min max min max min max min max min max | %Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us | 380<br>415<br>80<br>110<br>20<br>60<br>80<br>110<br>20<br>60 |
| AC coil operating Rated AC voltage at 5 | of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz pick-up  drop-out  of 60Hz coil powered at 60Hz pick-up | min max min max min max min max min max min max | %Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us<br>%Us | 380<br>415<br>80<br>110<br>20<br>60<br>80<br>110<br>20<br>60 |

AC average coil consumption at 20°C

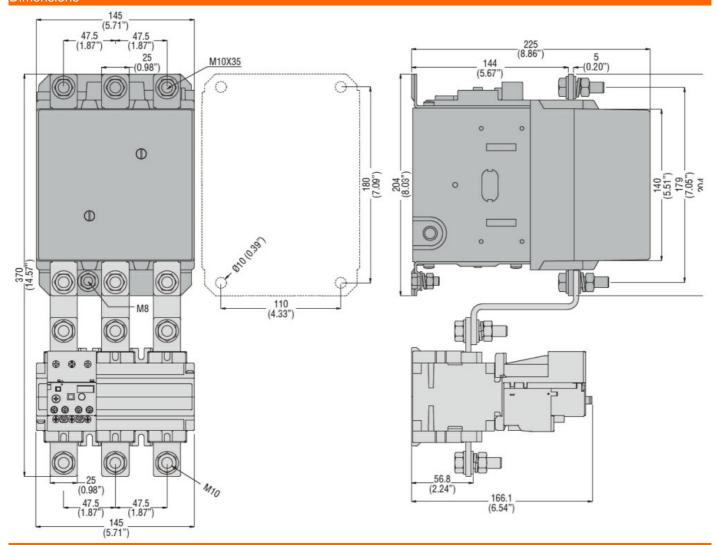
of 50/60Hz coil powered at 50Hz



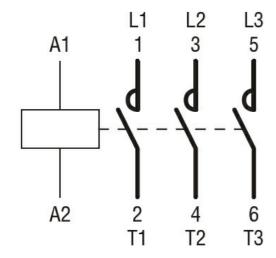
|  |                           |              | in-rush                          | VA       | 300  |
|--|---------------------------|--------------|----------------------------------|----------|------|
|  |                           |              | holding                          | VA       | 10   |
|  | of 50/60Hz coil pow       | ered at 60Hz | <u> </u>                         |          |      |
|  |                           |              | in-rush                          | VA       | 300  |
|  |                           |              | holding                          | VA       | 10   |
| Dissipation at holding   | −20°C 50Hz                |              | noiding                          | W        | 10   |
| DC coil operating  | -20 C 30HZ                |              |                                  | VV       | 10   |
|  |                           |              |                                  |          |      |
| DC rated control voltage   | ge                        |              |                                  |          |      |
|  |                           |              | min                              | V        | 380  |
|  |                           |              | max                              | V        | 415  |
| DC operating voltage   |                           |              |                                  |          |      |
|  | pick-up                   |              |                                  |          |      |
|  |                           |              | min                              | %Us      | 80   |
|  |                           |              | max                              | %Us      | 110  |
|  | drop-out                  |              |                                  |          |      |
|  | а ор оа                   |              | min                              | %Us      | 20   |
|  |                           |              |                                  | %Us      | 60   |
| Avorage cell concurre  | tion =20°C                |              | max                              | /008     | 00   |
| Average coil consump   | 00011 -20 C               |              |                                  | 147      | 202  |
|  |                           |              | in-rush                          | W        | 300  |
|  |                           |              | holding                          | W        | 10   |
| Max cycles frequency   |                           |              |                                  |          |      |
| Mechanical operation   |                           |              |                                  | cycles/h | 2400 |
| Operating times  |                           |              |                                  |          |      |
| Average time for Us co   | ontrol                    |              |                                  |          |      |
| ŭ  | in AC                     |              |                                  |          |      |
|  |                           | Closing NO   |                                  |          |      |
|  |                           | Clooking 140 | min                              | ms       | 80   |
|  |                           |              |                                  |          | 120  |
|  |                           | Opening NO   | max                              | ms       | 120  |
|  |                           | Opening NO   |                                  |          | 00   |
|  |                           |              | min                              | ms       | 30   |
|  |                           |              | max                              | ms       | 75   |
|  | in DC                     |              |                                  |          |      |
|  |                           | Closing NO   |                                  |          |      |
|  |                           |              | min                              | ms       | 80   |
|  |                           |              | max                              | ms       | 120  |
|  |                           | Opening NO   |                                  |          |      |
|  |                           |              | min                              | ms       | 30   |
|  |                           |              | max                              | ms       | 75   |
| UL technical data  |                           |              |                                  |          |      |
| Full-load current (FLA)  | for three-phase AC m      | notor        |                                  |          |      |
| r an road ourrent (i LA)   | , ioi tilloo pilase AO II | 10.01        | at 480V                          | Α        | 414  |
|  |                           |              |                                  |          |      |
| Violate at 100 a | . wf a was a sa           |              | at 600V                          | Α        | 382  |
| Yielded mechanical pe  |                           |              |                                  |          |      |
|  | for three-phase AC        | motor        |                                  |          |      |
|  |                           |              | 200/208V                         | HP       | 125  |
|  |                           |              | 220/230V                         | HP       | 150  |
|  |                           |              | 460/480V                         | HP       | 350  |
|  |                           |              | 575/600V                         | HP       | 400  |
| General USE  |                           |              |                                  |          |      |
|  |                           |              |                                  |          |      |
|  | Contactor                 |              |                                  |          |      |
|  | Contactor                 |              | AC current                       | А        | 550  |
| Short-circuit protection   |                           |              | AC current                       | Α        | 550  |
| Short-circuit protection   | n fuse, 600V              |              | AC current                       | А        | 550  |
| Short-circuit protection   |                           |              | AC current Short circuit current | A<br>kA  | 18   |

|                         |                       | Fuse rating | Α  | 800  |
|-------------------------|-----------------------|-------------|----|------|
|                         |                       | Fuse class  |    | L    |
| Ambient conditions      |                       |             |    |      |
| Temperature             |                       |             |    |      |
| C                       | Operating temperature |             |    |      |
|                         |                       | min         | °C | -50  |
| _                       |                       | max         | °C | 70   |
| S                       | Storage temperature   |             |    |      |
|                         |                       | min         | °C | -60  |
|                         |                       | max         | °C | 80   |
| Max altitude            |                       |             | m  | 3000 |
| Resistance & Protection |                       |             |    |      |
| Pollution degree        |                       |             |    | 3    |

#### Dimensions



Wiring diagrams



| $\sim$ | 2.00 |        |       |       | pliance  |
|--------|------|--------|-------|-------|----------|
| 1 O F  | TTIO | atione | าวทูก | -com  | niianea. |
| OCI    | шь   | auon.  | s anu | COILL | ullalice |
|        |      |        |       |       |          |

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