



| Product designation   |                    |            | Power contactor |
|---|--------------------|------------|-----------------|
| Product type designation  |                    |            | B250            |
| Contact characteristics   |                    | N.I.       |                 |
| Number of poles   |                    | Nr.        | 3               |
| Rated insulation voltage Ui IEC/EN  |                    | V          | 1000            |
| Rated impulse withstand voltage Uimp  |                    | kV         | 8               |
| Operational frequency   |                    |            | 0.5             |
|   | min                | Hz<br>–    | 25              |
| IEC Conventional free air thermal current Ith   | max                | Hz         | 400             |
|   |                    | Α          | 350             |
| Operational current le  | A O A (440°O)      | ۸          | 050             |
|   | AC-1 (≤40°C)       | A          | 350             |
|   | AC-1 (≤55°C)       | A          | 300             |
|   | AC-1 (≤70°C)       | A          | 250             |
|   | AC-3 (≤440V ≤55°C) | A          | 265             |
| D. I. J. and C. | AC-4 (400V)        | Α          | 115             |
| Rated operational power AC-3 (T≤55°C)   | 0001/              |            | 00              |
|   | 230V               | kW         | 83              |
|   | 400V               | kW         | 140             |
|   | 415V               | kW         | 155             |
|   | 440V               | kW         | 164             |
|   | 500V<br>690V       | kW<br>kW   | 176<br>212      |
|   | 1000V              | kW         | 156             |
| Rated operational power AC-1 (T≤40°C)   | 1000 V             | KVV        | 100             |
| Rated operational power AC-1 (1540 C)   | 230V               | LANA       | 124             |
|   | 400V               | kW<br>kW   | 214             |
|   | 500V               | kW         | 282             |
|   | 690V               | kW         | 380             |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   | 090 V              | N V V      | 300             |
| ILO max current le in DOT with Lift 3 mis with 1 poles in series  | 75V                | Α          | 350             |
|   | 110V               | A          | 160             |
|   | 220V               | A          |                 |
|   | 330V               | _          |                 |
|   | 460V               | A<br>A     |                 |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   |                    |            |                 |
| 120 max outlone to in 201 with 2/11 2 miles with 2 poles in selies  | 75V                | Α          | 350             |
|   | 110V               | A          | 300             |
|   | 220V               | A          | 250             |
|   | 330V               | A          |                 |
|   | 460V               | A          | <br>            |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   | 700 V              |            |                 |
| 120 max outlone to the DOT with DIV 2 miles with a poles in series  | 75V                | Α          | 350             |
|   | 110V               | A          | 300             |
|   | 220V               | A          | 300             |
|   | 2201               | <i>i</i> ~ |                 |



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|  | 330V      | Α    | 250  |
|--|-----------|------|------|
|  | 460V      | Α    |      |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series      |           |      |      |
|  | 75V       | Α    | 350  |
|  | 110V      | Α    | 300  |
|  | 220V      | Α    | 300  |
|  | 330V      | Α    | 300  |
|  | 460V      | Α    | 250  |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series |           |      |      |
|  | 75V       | Α    | 280  |
|  | 110V      | Α    | 150  |
|  | 220V      | Α    |      |
|  | 330V      | Α    |      |
|  | 460V      | A    |      |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series |           |      |      |
|  | 75V       | Α    | 280  |
|  | 110V      | Α    | 250  |
|  | 220V      | Α    | 200  |
|  | 330V      | Α    |      |
|  | 460V      | Α    |      |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series |           |      |      |
|  | 75V       | Α    | 280  |
|  | 110V      | Α    | 280  |
|  | 220V      | Α    | 250  |
|  | 330V      | Α    | 200  |
|  | 460V      | Α    | -    |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series |           | _    |      |
|  | 75V       | Α    | 280  |
|  | 110V      | Α    | 280  |
|  | 220V      | Α    | 280  |
|  | 330V      | Α    | 200  |
| 01 (1) 11 11 11 11 11 11 11 11 11 11 11 11 1                         | 460V      | A    | 200  |
| Short-time allowable current for 10s (IEC/EN60947-1)                 |           | Α    | 2200 |
| Protection fuse  | . 0 (150) |      | 400  |
|  | gG (IEC)  | A    | 400  |
| Making appeals (DMC calca)   | aM (IEC)  | A    | 250  |
| Making capacity (RMS value)  |           | Α    | 2750 |
| Breaking capacity at voltage   | 4.40\/    |      | 0500 |
|  | 440V      | A    | 2500 |
|  | 500V      | A    | 2250 |
| Posistance per pole (average value)                                  | 690V      | A mO | 2200 |
| Resistance per pole (average value)                                  |           | mΩ   | 0.2  |
| Power dissipation per pole (average value)                           | 141       | 14/  | 24.5 |
|  | Ith       | W    | 24.5 |
| Timbhaning tagan far tagaingle                                       | AC-3      | W    | 12.5 |
| Tightening torque for terminals                                      |           | N I  | 25   |
|  | min       | Nm   | 35   |
|  | max       | Nm   | 35   |
|  | min       | Ibin | 25.8 |
| Tightoning torque for soil to make al                                | max       | Ibin | 25.8 |
| Tightening torque for coil terminal                                  |           | N.I  | 4    |
|  | min       | Nm   | 1    |
|  | max       | Nm   | 1    |
|  |           |      |      |



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|                          |   | min                                 | Ibin                            | 0.74                                     |
|--------------------------|---|-------------------------------------|---------------------------------|--|
|                          |   | max                                 | Ibin                            | 0.74                                     |
| Max number of wires s    | simultaneously connectable                          |                                     | Nr.                             | 2  |
| Conductor section        |   |                                     |                                 |  |
|                          | AWG/Kcmil   |                                     |                                 |  |
|                          |   | max                                 |                                 | 500 kcmil                                |
|                          | tion according to IEC/EN 60529                      |                                     |                                 | IP00                                     |
| Mechanical features      |   |                                     |                                 |  |
| Operating position       |   |                                     |                                 |  |
|                          |   | normal<br>allowable                 |                                 | Vertical plan<br>±30°                    |
| Fixing                   |   |                                     |                                 | Screw                                    |
| Weight                   |   |                                     | g                               | 9580                                     |
| Operations               |   |                                     |                                 |  |
| Mechanical life          |   |                                     | cycles                          | 10000000                                 |
| Electrical life          |   |                                     | cycles                          | 1000000                                  |
| Safety related data      |   |                                     |                                 |  |
| Performance level B10    | 0d according to EN/ISO 13489-1                      |                                     |                                 |  |
|                          |   | rated load                          | cycles                          | 1000000                                  |
|                          |   | mechanical load                     | cycles                          | 10000000                                 |
| Mirror contats according | ng to IEC/EN 609474-4-1                             |                                     |                                 | Yes                                      |
| EMC compatibility        |   |                                     |                                 | yes                                      |
| AC coil operating        |   |                                     |                                 |  |
| Rated AC voltage at 50   | 0/60Hz, 60Hz  |                                     |                                 |  |
|                          |   | min                                 | V                               | 440                                      |
|                          |   | max                                 | V                               | 415                                      |
| AC operating voltage     |   |                                     |                                 |  |
|                          | of 50/60Hz coil powered at 50Hz                     |                                     |                                 |  |
|                          | pick-up   |                                     |                                 |  |
|                          |   | min                                 | %Us                             | 80                                       |
|                          |   | max                                 | %Us                             | 110                                      |
|                          | drop-out  | _                                   |                                 |  |
|                          |   | min                                 | %Us                             | 20                                       |
|                          |   | max                                 | %Us                             | 60                                       |
|                          | of 50/60Hz coil powered at 60Hz                     |                                     |                                 |  |
|                          | pick-up   |                                     |                                 | 0.0                                      |
|                          |   |                                     | 0/!!                            | 80                                       |
|                          |   | min                                 | %Us                             |  |
|                          |   | min<br>max                          | %Us<br>%Us                      | 110                                      |
|                          | drop-out  | max                                 | %Us                             | 110                                      |
|                          | drop-out  | max<br>min                          | %Us<br>%Us                      | 110<br>20                                |
|                          |   | max                                 | %Us                             | 110                                      |
|                          | of 60Hz coil powered at 60Hz                        | max<br>min                          | %Us<br>%Us                      | 110<br>20                                |
|                          |   | max<br>min<br>max                   | %Us<br>%Us<br>%Us               | 110<br>20<br>60                          |
|                          | of 60Hz coil powered at 60Hz                        | max<br>min<br>max<br>min            | %Us<br>%Us<br>%Us               | 110<br>20<br>60<br>80                    |
|                          | of 60Hz coil powered at 60Hz<br>pick-up             | max<br>min<br>max                   | %Us<br>%Us<br>%Us               | 110<br>20<br>60                          |
|                          | of 60Hz coil powered at 60Hz                        | max<br>min<br>max<br>min<br>max     | %Us<br>%Us<br>%Us<br>%Us<br>%Us | 110<br>20<br>60<br>80<br>110             |
|                          | of 60Hz coil powered at 60Hz<br>pick-up             | max min max  min max  min max       | %Us %Us %Us %Us %Us %Us         | 110<br>20<br>60<br>80<br>110<br>20       |
| AC average coil const    | of 60Hz coil powered at 60Hz<br>pick-up<br>drop-out | max<br>min<br>max<br>min<br>max     | %Us<br>%Us<br>%Us<br>%Us<br>%Us | 110<br>20<br>60<br>80<br>110             |
| AC average coil consu    | of 60Hz coil powered at 60Hz<br>pick-up<br>drop-out | max min max  min max  min max       | %Us %Us %Us %Us %Us %Us         | 110<br>20<br>60<br>80<br>110<br>20       |
| AC average coil consu    | of 60Hz coil powered at 60Hz<br>pick-up<br>drop-out | max min max min max min max min max | %Us %Us %Us %Us %Us %Us %Us     | 110<br>20<br>60<br>80<br>110<br>20<br>60 |
| AC average coil consu    | of 60Hz coil powered at 60Hz<br>pick-up<br>drop-out | max min max  min max  min max       | %Us %Us %Us %Us %Us %Us         | 110<br>20<br>60<br>80<br>110<br>20       |



|  | in-rush                              | VA       | 300   |
|--|--------------------------------------|----------|-------|
|  | holding                              | VA       | 10    |
| Dissipation at holding ≤20°C 50Hz                      |                                      | W        | 10    |
| DC coil operating                                      |                                      |          |       |
| DC rated control voltage                               |                                      |          |       |
| Do raida doniror voltage                               | min                                  | V        | 440   |
|  |                                      |          |       |
|  | max                                  | V        | 415   |
| DC operating voltage                                   |                                      |          |       |
| pick-up  |                                      |          |       |
|  | min                                  | %Us      | 80    |
|  | max                                  | %Us      | 110   |
| drop-out   |                                      |          |       |
|  | min                                  | %Us      | 20    |
|  | max                                  | %Us      | 60    |
| Average coil consumption ≤20°C                         |                                      |          |       |
|  | in-rush                              | W        | 300   |
|  |                                      | W        | 10    |
| May avalog fraguency                                   | holding                              | VV       | ıU    |
| Max cycles frequency                                   |                                      | 1 "      | 0.400 |
| Mechanical operation                                   |                                      | cycles/h | 2400  |
| Operating times  |                                      |          |       |
| Average time for Us control                            |                                      |          |       |
| in AC  |                                      |          |       |
| Closing NO   |                                      |          |       |
| · ·  | min                                  | ms       | 80    |
|  | max                                  | ms       | 120   |
| Opening NO   | max                                  | 1110     | .20   |
| Opening NO   | min                                  | ms       | 30    |
|  |                                      |          | 75    |
| is DO  | max                                  | ms       | 10    |
| in DC  |                                      |          |       |
| Closing NO   |                                      |          |       |
|  | min                                  | ms       | 80    |
|  | max                                  | ms       | 120   |
| Opening NO   |                                      |          |       |
|  | min                                  | ms       | 30    |
|  | max                                  | ms       | 75    |
| UL technical data                                      |                                      |          |       |
| Rated operational voltage AC (UL)                      |                                      | V        | 600   |
| Full-load current (FLA) for three-phase AC motor       |                                      | V        |       |
| i dii-load current (i LA) loi tiliee-priase AC IIIOtol | c+ 400\/                             | ۸        | 240   |
|  | at 480V                              | A        | 240   |
|  | at 600V                              | Α        | 242   |
| Yielded mechanical performance                         |                                      |          |       |
| for three-phase AC motor                               |                                      |          |       |
|  | 200/208V                             | HP       | 75    |
|  | 220/230V                             | HP       | 100   |
|  | 575/600V                             | HP       | 250   |
| General USE  |                                      |          |       |
| Contactor  |                                      |          |       |
| COIRACIOI  | AC 0110004                           | ۸        | 250   |
| Oh aut aircuit austration from COOM                    | AC current                           | A        | 350   |
| Short-circuit protection fuse, 600V                    |                                      |          |       |
|  |                                      |          |       |
| Standard fault   |                                      |          | 4.0   |
| Standard fault   | Short circuit current                | kA       | 18    |
| Standard fault   | Short circuit current<br>Fuse rating | kA<br>A  | 800   |
| Standard fault   |                                      |          |       |



## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 265A, AC/DC COIL, 440...480VAC/DC

### Temperature

| Operating | temperature   |
|-----------|---------------|
| Opolamig  | torriporataro |

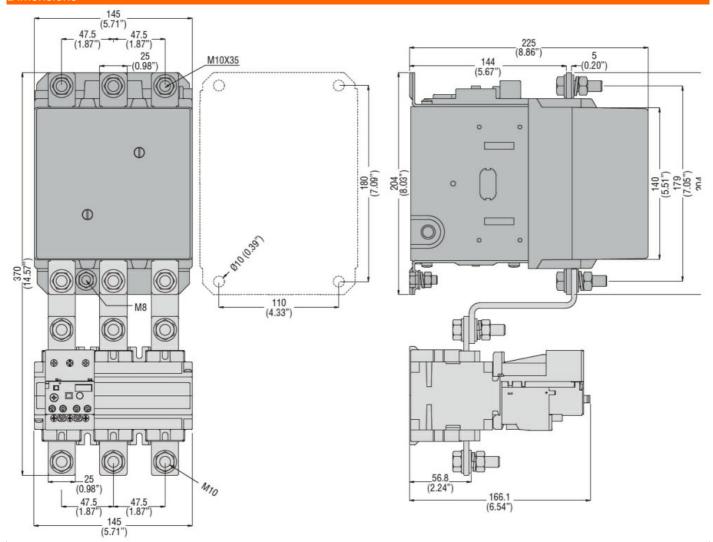
|                     | min | °C | -50  |
|---------------------|-----|----|------|
|                     | max | °C | 70   |
| Storage temperature |     |    |      |
|                     | min | °C | -60  |
|                     | max | °C | 80   |
|                     |     | m  | 3000 |

Resistance & Protection

Pollution degree 3

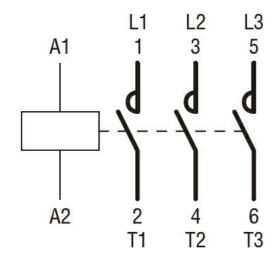
### **Dimensions**

Max altitude



Wiring diagrams

### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 265A, AC/DC COIL, 440...480VAC/DC



| O 1100 1   |            |      |        |
|------------|------------|------|--------|
| Certificat | ione and   | comr | MIGNES |
| Cennicai   | טונס מונטו |      | шансе  |
|            |            |      |        |

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