

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 400VAC



| Product designation Product type designation Contact type designation    Nic.   3   3   3   3   3   3   3   3   3   |   |              |     | 30 10 10        |
|---|---|--------------|-----|-----------------|
| Product type designation  | Product designation   |              |     | Power contactor |
| 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 frequency         min Hz 400           IEC Conventional frequency         A 70           IEC Conventional frequency           AC-1 (≤40°C)         A 70           AC-1 (≤40°C)         A 70           AC-1 (≤5°C)         A 50           AC-1 (≤70°C)         A 50           AC-3 (≤440V 55°C)         A 40           AC-4 (400V)         A 40           AC-3 (≤440V 55°C)         A 40           AC-4 (400V)         KW 11           400V kW 22         A 40           440V kW 22         A 40           440V kW 22         A 40           690V kW 30         A 40           400V kW 22         A 40           400V kW 22         A 40           400V kW 22         A 40           400V kW 30         A 40           400V kW 40         A 40           400V kW 46         A 40           400V kW 46         A 50           500   |   |              |     |                 |
| Number of poles         Nr.         3           Rated insulation voltage Ui IEC/EN         V         1000           Rated insulation voltage Uimp         kV         8           Operational frequency         min         Hz         25           max         Hz         400         400           IEC Conventional free air thermal current lth         A         70           Operational current le         AC-1 (≤40°C)         A         70           AC-1 (≤55°C)         A         60         AC-1 (≤55°C)         A         60           AC-1 (≤40°V)         A         50         AC-4 (≤400V)         A         24           Rated operational power AC-3 (T≤55°C)         230V         kW         11         400V         kW         18.5           415V         kW         22         440V         kW         22         690V         kW         22           Rated operational current AC-3 (T≤55°C)         230V         A         40         40V         20         40V         20         40V  |   |              |     |                 |
| Rated insulation voltage Uil EC/EN         V         1000           Rated impulse withstand voltage Uimp         kV         8           Operational frequency         min         Hz         25           max         Hz         400         400           IEC Conventional free air thermal current Ith         A         70           Operational current Ie         AC-1 (≤40°C)         A         70           AC-1 (≤55°C)         A         60         AC-1 (≤70°C)         A         50           AC-3 (≤440V ≤55°C)         A         50         AC-4 (400V)         A         24           Rated operational power AC-3 (T≤55°C)         230V         kW         11         400V         kW         18.5           415V         kW         22         440V         kW         22         690V         kW         22           800V         kW         22         690V         kW         22         690V         kW         22           8100V         kW         22         690V         kW         22         690V         kW         22           8100V         kW         22         690V         kW         22         690V         kW         22   |   |              | Nr. | 3               |
| Rated impulse withstand voltage Uimp  |   |              | V   | 1000            |
| Operational frequency         min max         Hz bit Hz         250 max         Hz bit Hz         200 max         Hz bit Hz         400 max         Hz bit Hz   |   |              | kV  | 8               |
| Fig. 25   |   |              |     |                 |
| EC Conventional free air thermal current Ith  |   | min          | Hz  | 25              |
| Operational current le         AC-1 (≤40°C)       A       70         AC-1 (≤55°C)       A       60         AC-1 (≤70°C)       A       50         AC-3 (≤4400 ≤55°C)       A       40         AC-4 (4000V)       A       24         Rated operational power AC-3 (T≤55°C)         230V       kW       11         400V       kW       22         440V       kW       22         500V       kW       23         690V       kW       30         1000V       A       40         440V       A       40         415V       A       40         440V       A       40         415V       A       40         440V       A       40         40V       KW       26         40V       KW       26         40V       KW   |   | max          | Hz  |                 |
| AC-1 (≤40°C) A 70 AC-1 (≤55°C) A 60 AC-1 (≤75°C) A 50 AC-1 (≤70°C) A 50 AC-3 (≤440V ≤55°C) A 40 AC-4 (400V) A 24  Rated operational power AC-3 (T≤55°C)  230V kW 11 400V kW 18.5 415V kW 22 440V kW 22 500V kW 30 1000V kW 22 690V kW 30 1000V kW 22 8 690V kW 30 1000V kW 25 8 690V kW 30 8 690V kW 30 8 690V kW 30 8 690V kW 30 8 690V kW 58 8 690V kW 58 8 690V kW 58 8 690V kW 79  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   | IEC Conventional free air thermal current Ith                   |              | Α   | 70              |
| AC-1 (≤40°C) A 70 AC-1 (≤55°C) A 60 AC-1 (≤75°C) A 50 AC-1 (≤70°C) A 50 AC-3 (≤440V ≤55°C) A 40 AC-4 (400V) A 24  Rated operational power AC-3 (T≤55°C)  230V kW 11 400V kW 18.5 415V kW 22 440V kW 22 500V kW 30 1000V kW 22 690V kW 30 1000V kW 22 8 690V kW 30 1000V kW 25 8 690V kW 30 8 690V kW 30 8 690V kW 30 8 690V kW 30 8 690V kW 58 8 690V kW 58 8 690V kW 58 8 690V kW 79  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   | Operational current le  |              |     |                 |
| AC-1 (≤55°C)   A   60   AC-1 (≤70°C)   A   50   AC-3 (≤440V ≤55°C)   A   40   AC-3 (≤440V ≤55°C)   A   40   AC-4 (400V)   A   24   AC-4 (400V)   A   415V   AV   40   AC-4 (40V)   AV   40   AC-4 (40V)   AV   40   AC-4 (40V)   A   40   AC-4 (40V)   AC-4 (40   | ·   | AC-1 (≤40°C) | Α   | 70              |
| AC-1 (≤70°C) A 50 A 40 AC-3 (≤440V ≤55°C) A 40 AC-4 (400V) A 24 AC-4 (400V) AC-4 |   |              | Α   | 60              |
| AC-3 (≤440V ≤55°C) A 40 AC-4 (400V) A 24  Rated operational power AC-3 (T≤55°C)  230V kW 11 400V kW 18.5 415V kW 22 440V kW 22 500V kW 30 1000V kW 30 1000V kW 22 690V kW 30 1000V kW 22  Rated operational current AC-3 (T≤55°C)  Rated operational current AC-3 (T≤55°C)  230V A 40 400V A 40 415V A 40 440V A 40 415V A 40 440V A 40 500V A 33 690V A 32 1000V A 21  Rated operational power AC-1 (T≤40°C)  230V kW 26 400V kW 46 500V kW 58 690V kW 79  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 40 48V A 35 75V A 30 110V A 8 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   |   |              | Α   | 50              |
| Rated operational power AC-3 (T≤55°C)  230V kW 11 400V kW 18.5 415V kW 22 440V kW 22 500V kW 22 690V kW 30 1000V kW 22  Rated operational current AC-3 (T≤55°C)  230V A 40 400V A 40 415V A 40 415V A 40 415V A 40 415V A 40 500V A 33 690V A 32 1000V A 21  Rated operational power AC-1 (T≤40°C)  Rated operational power AC-1 (T≤40°C)  230V kW 26 400V kW 46 500V kW 58 690V kW 79  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 40 48V A 35 75V A 30 110V A 8 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   |   | ,            | Α   | 40              |
| 230V   kW   11   400V   kW   18.5   415V   kW   22   440V   kW   22   440V   kW   22   500V   kW   30   1000V   kW   30   1000V   kW   22   690V   kW   30   1000V   kW   40   415V   A   40   440V   A   33   690V   A   32   1000V   A   21   7   7   7   7   7   7   7   7   7   |   | •            | Α   | 24              |
| 230V   kW   11   400V   kW   18.5   415V   kW   22   440V   kW   22   440V   kW   22   500V   kW   30   1000V   kW   30   1000V   kW   22   690V   kW   30   1000V   kW   40   415V   A   40   440V   A   33   690V   A   32   1000V   A   21   7   7   7   7   7   7   7   7   7   | Rated operational power AC-3 (T≤55°C)                           | ,            |     |                 |
| A15V   kW   22  | · · · · · · · · · · · · · · · · · · ·                           | 230V         | kW  | 11              |
| A40V   kW   22  |   | 400V         | kW  | 18.5            |
| Soov   kW   22   690V   kW   30   1000V   kW   22   22   24   24   25   25   25   25  |   | 415V         | kW  | 22              |
| 690V   kW   30   1000V   kW   22  |   | 440V         | kW  | 22              |
| Rated operational current AC-3 (T≤55°C)     230V  |   | 500V         | kW  | 22              |
| Rated operational current AC-3 (T≤55°C)  230V A 40 400V A 40 415V A 40 440V A 40 500V A 33 690V A 32 1000V A 21  Rated operational power AC-1 (T≤40°C)  230V kW 26 400V kW 46 500V kW 58 690V kW 58 690V kW 79  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 40 48V A 35 75V A 30 110V A 8 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   |   | 690V         | kW  | 30              |
| 230V  |   | 1000V        | kW  | 22              |
| 400V  | Rated operational current AC-3 (T≤55°C)                         |              |     |                 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 230V         | Α   | 40              |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 400V         | Α   | 40              |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 415V         | Α   | 40              |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 440V         | Α   | 40              |
| Rated operational power AC-1 (T≤40°C)   230V   kW   26   400V   kW   46   500V   kW   79  |   | 500V         | Α   | 33              |
| Rated operational power AC-1 (T≤40°C)  230V kW 26 400V kW 46 500V kW 58 690V kW 79  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  ≤24V A 40 48V A 35 75V A 30 110V A 8 220V A -  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   |   | 690V         | Α   | 32              |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 1000V        | Α   | 21              |
|   | Rated operational power AC-1 (T≤40°C)                           |              |     |                 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   | 230V         | kW  | 26              |
| EC max current le in DC1 with L/R $\leq$ 1ms with 1 poles in series   $\leq$ 24V   A   40   48V   A   35   75V   A   30   110V   A   8   220V   A   -   |   | 400V         | kW  | 46              |
| IEC max current le in DC1 with L/R $\leq$ 1ms with 1 poles in series  |   | 500V         | kW  | 58              |
|   |   | 690V         | kW  | 79              |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series |              |     |                 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |   |              | Α   | 40              |
| $\frac{110 \text{V}}{220 \text{V}}  \frac{\text{A}}{\text{A}}  \frac{8}{\text{A}}$ IEC max current le in DC1 with L/R $\leq$ 1ms with 2 poles in series   |   |              | Α   |                 |
| 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  |   |              | Α   | 30              |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   |   |              | Α   | 8               |
|   |   | 220V         | Α   | _               |
| ≤24V A 48   | IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series |              |     |                 |
|   |   | ≤24V         | Α   | 48              |



## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 400VAC

|   | 48V         | Α     | 48         |
|---|-------------|-------|------------|
|   | 75V         | Α     | 45         |
|   | 110V        | Α     | 42         |
|   | 220V        | Α     | 5          |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series         |             |       |            |
|   | ≤24V        | Α     | 48         |
|   | 48V         | Α     | 48         |
|   | 75V         | Α     | 48         |
|   | 110V        | Α     | 44         |
|   | 220V        | Α     | 56         |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series         | 2201        | ,,    |            |
| 120 max can six to in 201 mar 2/11 = time mar 1 poise in conec          | ≤24V        | Α     | _          |
|   | 48V         | Α     | _          |
|   | 75V         | A     | _          |
|   | 110V        | A     | _          |
|   | 220V        | A     | 70         |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series    | 220 V       |       | 10         |
| TEO MAX CUITETILIE III DOO-DOO WILLI LIN 2 TOMS WILL I POIES III SELIES | ≤24V        | Α     | 27         |
|   | ≤24∨<br>48V | A     | 27<br>23   |
|   |             |       |            |
|   | 75V<br>110V | A     | 19         |
|   |             | A     | 3          |
| 150   | 220V        | Α     |            |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series    | 10.43.7     |       | 00         |
|   | ≤24V        | A     | 32         |
|   | 48V         | Α     | 30         |
|   | 75V         | A     | 27         |
|   | 110V        | Α     | 22         |
|   | 220V        | Α     | 5          |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series    |             |       |            |
|   | ≤24V        | Α     | 40         |
|   | 48V         | Α     | 40         |
|   | 75V         | Α     | 38         |
|   | 110V        | Α     | 27         |
|   | 220V        | Α     | 32         |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series    |             |       |            |
|   | ≤24V        | Α     | _          |
|   | 48V         | Α     | _          |
|   | 75V         | Α     | _          |
|   | 110V        | Α     | _          |
|   | 220V        | Α     | 40         |
| Short-time allowable current for 10s (IEC/EN60947-1)                    |             | Α     | 400        |
| Protection fuse   |             |       |            |
|   | gG (IEC)    | Α     | 100        |
|   | aM (IEC)    | Α     | 50         |
| Making capacity (RMS value)   | · /         | Α     | 400        |
| Breaking capacity at voltage  |             |       |            |
| 3   | 440V        | Α     | 320        |
|   | 500V        | Α     | 265        |
|   | 690V        | A     | 256        |
| Resistance per pole (average value)                                     | 030 v       | mΩ    | 0.8        |
| Power dissipation per pole (average value)                              |             | 11122 |            |
| i owei dissipation per pole (average value)                             | Ith         | W     | 3.9        |
|   | AC-3        | W     | 3.9<br>1.3 |
| Tightoning targue for terminals   | AU-3        | VV    | 1.3        |
| Tightening torque for terminals   |             |       |            |



#### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ,

|  |  | min  | Nm  | 4   |
|--|--|--|---|---|
|  |  | max  | Nm  | 5   |
|  |  | min  | Ibin  | 2.95  |
|  |  | max  | Ibin  | 3.69  |
| Tightening torque for o  | coil terminal  |  |   |   |
|  |  | min  | Nm  | 0.8   |
|  |  | max  | Nm  | 1   |
|  |  | min  | Ibin  | 0.8   |
|  |  | max  | Ibin  | 0.74  |
| Max number of wires s  | simultaneously connectable   |  | Nr.   | 2   |
| Conductor section  | ·  |  |   |   |
|  | AWG/Kcmil  |  |   |   |
|  |  | max  |   | 2   |
|  | Flexible w/o lug conductor section   |  |   |   |
|  | Tioxibio W/o lag conductor coction   | min  | mm²   | 1.5   |
|  |  | max  | mm²   | 35  |
|  | Flexible c/w lug conductor section   | Παλ  | 111111                                      |   |
|  | Flexible C/W lug colludctor section  | min  | mm²   | 1.5   |
|  |  | min  |   | 35  |
| Davis a tamaia al musta a  | tion   | max  | mm²   |   |
|  | tion according to IEC/EN 60529   |  |   | IP20 front  |
| Mechanical features  |  |  |   |   |
| Operating position   |  |  |   |   |
|  |  | normal   |   | Vertical plan   |
|  |  | allowable  |   | ±30°  |
| Fixing   |  |  |   | Screw / DIN rail  |
|  |  |  |   | 35mm  |
| Weight   |  |  | g   | 1020  |
|  |  |  |   |   |
| Conductor section  |  |  |   |   |
| Conductor section  | AWG/kcmil conductor section  |  |   |   |
| Conductor section  | AWG/kcmil conductor section  | max  |   | 2   |
| Operations   | AWG/kcmil conductor section  | max  |   | 2   |
|  | AWG/kcmil conductor section  | max  | cycles                                      | 15000000  |
| Operations   | AWG/kcmil conductor section  | max  |   |   |
| Operations  Mechanical life  Electrical life   | AWG/kcmil conductor section  | max  | cycles<br>cycles                            | 15000000  |
| Operations  Mechanical life  Electrical life  Safety related data  |  | max  |   | 15000000  |
| Operations  Mechanical life  Electrical life  Safety related data  | AWG/kcmil conductor section  Od according to EN/ISO 13489-1  |  | cycles                                      | 15000000<br>1500000   |
| Operations  Mechanical life  Electrical life  Safety related data  |  | rated load   | cycles                                      | 1500000<br>1500000<br>1500000   |
| Operations Mechanical life Electrical life Safety related data Performance level B10   | 0d according to EN/ISO 13489-1   |  | cycles                                      | 1500000<br>1500000<br>1500000<br>15000000   |
| Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according  |  | rated load   | cycles                                      | 1500000<br>1500000<br>1500000<br>15000000<br>yes  |
| Operations Mechanical life Electrical life Safety related data Performance level B10 Mirror contats according EMC compatibility  | 0d according to EN/ISO 13489-1   | rated load   | cycles                                      | 1500000<br>1500000<br>1500000<br>15000000   |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating                        | 0d according to EN/ISO 13489-1<br>ng to IEC/EN 609474-4-1  | rated load   | cycles<br>cycles<br>cycles                  | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes                                 |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | 0d according to EN/ISO 13489-1<br>ng to IEC/EN 609474-4-1  | rated load   | cycles                                      | 1500000<br>1500000<br>1500000<br>15000000<br>yes  |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating                        | 0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1 0/60Hz  | rated load   | cycles<br>cycles<br>cycles                  | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes                                 |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | Od according to EN/ISO 13489-1  ng to IEC/EN 609474-4-1  0/60Hz  of 50/60Hz coil powered at 50Hz   | rated load   | cycles<br>cycles<br>cycles                  | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes                                 |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | 0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1 0/60Hz  | rated load<br>mechanical load                      | cycles<br>cycles<br>cycles                  | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes                                 |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | Od according to EN/ISO 13489-1  ng to IEC/EN 609474-4-1  0/60Hz  of 50/60Hz coil powered at 50Hz   | rated load<br>mechanical load<br>min               | cycles cycles cycles                        | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes<br>400                          |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | od according to EN/ISO 13489-1  ng to IEC/EN 609474-4-1  0/60Hz  of 50/60Hz coil powered at 50Hz pick-up   | rated load<br>mechanical load                      | cycles<br>cycles<br>cycles                  | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes                                 |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | Od according to EN/ISO 13489-1  ng to IEC/EN 609474-4-1  0/60Hz  of 50/60Hz coil powered at 50Hz   | rated load<br>mechanical load<br>min<br>max        | cycles cycles cycles                        | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes<br>400                          |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | od according to EN/ISO 13489-1  ng to IEC/EN 609474-4-1  0/60Hz  of 50/60Hz coil powered at 50Hz pick-up   | rated load<br>mechanical load<br>min               | cycles cycles cycles V  %Us %Us %Us         | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes<br>400                          |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | od according to EN/ISO 13489-1  ng to IEC/EN 609474-4-1  0/60Hz  of 50/60Hz coil powered at 50Hz pick-up   | rated load<br>mechanical load<br>min<br>max        | cycles cycles cycles                        | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes<br>400                          |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 5 | od according to EN/ISO 13489-1  ng to IEC/EN 609474-4-1  0/60Hz  of 50/60Hz coil powered at 50Hz pick-up   | rated load<br>mechanical load<br>min<br>max<br>min | cycles cycles cycles V  %Us %Us %Us         | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes<br>400                          |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 5 | Od according to EN/ISO 13489-1  ng to IEC/EN 609474-4-1  0/60Hz  of 50/60Hz coil powered at 50Hz pick-up  drop-out                                   | rated load<br>mechanical load<br>min<br>max<br>min | cycles cycles cycles V  %Us %Us %Us         | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes<br>400                          |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | Od according to EN/ISO 13489-1  Ing to IEC/EN 609474-4-1  O/60Hz  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz | rated load<br>mechanical load<br>min<br>max<br>min | cycles cycles cycles V  %Us %Us %Us         | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes<br>400                          |
| Operations Mechanical life Electrical life Safety related data Performance level B10  Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5  | Od according to EN/ISO 13489-1  Ing to IEC/EN 609474-4-1  O/60Hz  of 50/60Hz coil powered at 50Hz pick-up  drop-out  of 50/60Hz coil powered at 60Hz | rated load mechanical load  min max  min max       | cycles cycles cycles V  %Us %Us %Us %Us %Us | 1500000<br>1500000<br>1500000<br>15000000<br>yes<br>yes<br>400<br>80<br>110<br>20<br>55 |



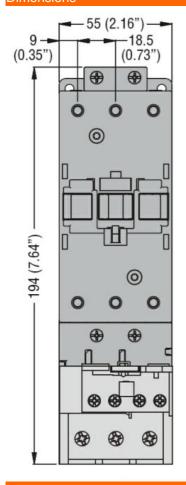
## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ, 400VAC

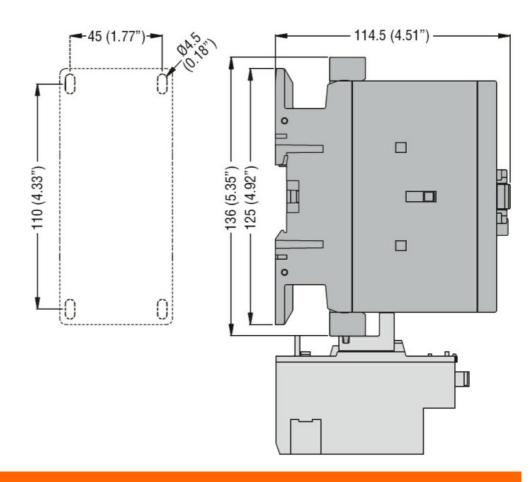
|                          | drop-out                        |                       |          |          |
|--------------------------|---------------------------------|-----------------------|----------|----------|
|                          | •                               | min                   | %Us      | 40       |
|                          |                                 | max                   | %Us      | 55       |
| AC average coil consul   | mption at 20°C                  |                       |          |          |
|                          | of 50/60Hz coil powered at 50Hz |                       |          |          |
|                          |                                 | in-rush               | VA       | 210      |
|                          |                                 | holding               | VA       | 15       |
|                          | of 50/60Hz coil powered at 60Hz |                       |          |          |
|                          |                                 | in-rush               | VA       | 195      |
|                          |                                 | holding               | VA       | 13       |
|                          | of 60Hz coil powered at 60Hz    |                       |          |          |
|                          |                                 | in-rush               | VA       | 210      |
| <del></del>              | 2000 5011                       | holding               | VA       | 15       |
| Dissipation at holding ≤ | 20°C 50Hz                       |                       | W        | 5        |
| Max cycles frequency     |                                 |                       |          |          |
| Mechanical operation     |                                 |                       | cycles/h | 3600     |
| Operating times          | atual .                         |                       |          |          |
| Average time for Us co   |                                 |                       |          |          |
|                          | in AC                           |                       |          |          |
|                          | Closing NO                      | !                     | nc -     | 10       |
|                          |                                 | min                   | ms       | 12<br>28 |
|                          | Opening NO                      | max                   | ms       | 20       |
|                          | Opening NO                      | min                   | ms       | 8        |
|                          |                                 | max                   | ms       | 22       |
|                          | in DC                           | Παλ                   | 1113     |          |
|                          | Closing NO                      |                       |          |          |
|                          | Closing NO                      | min                   | ms       | 40       |
|                          |                                 | max                   | ms       | 85       |
|                          | Opening NO                      |                       |          |          |
|                          | o p = 3 · · · ·                 | min                   | ms       | 20       |
|                          |                                 | max                   | ms       | 55       |
| UL technical data        |                                 |                       |          |          |
| Full-load current (FLA)  | for three-phase AC motor        |                       |          |          |
|                          |                                 | at 480V               | Α        | 40       |
|                          |                                 | at 600V               | Α        | 32       |
| Yielded mechanical per   | rformance                       |                       |          |          |
|                          | for single-phase AC motor       |                       |          |          |
|                          |                                 | 110/120V              | HP       | 3        |
|                          |                                 | 230V                  | HP       | 7.5      |
|                          | for three-phase AC motor        |                       |          |          |
|                          |                                 | 200/208V              | HP       | 10       |
|                          |                                 | 220/230V              | HP       | 15       |
|                          |                                 | 460/480V              | HP       | 30       |
|                          |                                 | 575/600V              | HP       | 30       |
| General USE              |                                 |                       |          |          |
|                          | Contactor                       |                       | _        |          |
| <u></u>                  | ( 000)                          | AC current            | Α        | 70       |
| Short-circuit protection |                                 |                       |          |          |
|                          | High fault                      | 01                    |          | 100      |
|                          |                                 | Short circuit current | kA       | 100      |
|                          |                                 | Fuse rating           | Α        | 150      |
|                          | Chan doubt facility             | Fuse class            |          | J        |
|                          | Standard fault                  |                       |          |          |



#### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ,

|                       |                       | Short circuit current<br>Fuse rating<br>Fuse class | kA<br>A | 5<br>150<br>RK5 |
|-----------------------|-----------------------|--|---------|-----------------|
| Ambient conditions    |                       |  |         |                 |
| Temperature           |                       |  |         |                 |
|                       | Operating temperature |  |         |                 |
|                       |                       | min  | °C      | -50             |
|                       |                       | max  | °C      | 70              |
|                       | Storage temperature   |  |         |                 |
|                       |                       | min  | °C      | -60             |
|                       |                       | max  | °C      | 80              |
| Max altitude          |                       |  | m       | 3000            |
| Resistance & Protecti | on                    |  |         |                 |
| Pollution degree      |                       |  |         | 3               |
| Dimensions            |                       |  |         |                 |

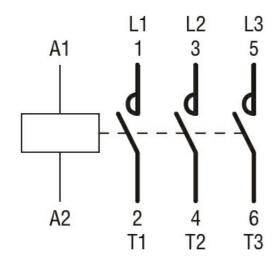




Wiring diagrams

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 40A, AC COIL 50/60HZ,



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

#### ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching