

Product designation
Product type designation
Power contactor Contact characteristics

| Number of poles | Nr. | 3 |
| :--- | :---: | :--- |
| Rated insulation voltage Ui IEC/EN | V | 690 |
| Rated impulse withstand voltage Uimp | kV | 6 |

Operational frequency

|  | min max | $\begin{aligned} & \mathrm{Hz} \\ & \mathrm{~Hz} \end{aligned}$ | $\begin{aligned} & 25 \\ & 400 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| IEC Conventional free air thermal current Ith |  | A | 20 |
| Operational current le |  |  |  |
|  | $\mathrm{AC}-1\left(\leq 40^{\circ} \mathrm{C}\right)$ | A | 20 |
|  | AC-1 ( $555^{\circ} \mathrm{C}$ ) | A | 18 |
|  | AC-1 ( $570^{\circ} \mathrm{C}$ ) | A | 15 |
|  | AC-3 ( $\leq 440 \mathrm{~V} \leq 55^{\circ} \mathrm{C}$ ) | A | 9 |
|  | AC-4 (400V) | A | 4 |

Rated operational power AC-3 ( $\mathrm{T} \leq 55^{\circ} \mathrm{C}$ )

|  | 230 V | kW | 2.2 |
| :--- | :--- | :--- | :--- |
|  | 400 V | kW | 4 |

IEC max current le in DC1 with L/R $\leq 1 \mathrm{~ms}$ with 3 poles in series

| $\leq 24 \mathrm{~V}$ | A | 16 |
| ---: | ---: | ---: |
| 48 V | A | 16 |
| 75 V | A | 10 |
| 110 V | A | 10 |

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 575VAC, 1NO AUXILIARY CONTACT
ENERGY AND AUTOMATION

|  | 220 V | A | 2 |
| :---: | :---: | :---: | :---: |
| IEC max current le in DC1 with L/R $\leq 1 \mathrm{~ms}$ with 4 poles in series |  |  |  |
|  | $\leq 24 \mathrm{~V}$ | A | 16 |
|  | 48 V | A | 16 |
|  | 75V | A | 10 |
|  | 110V | A | 10 |
|  | 220V | A | 2 |
| IEC max current le in DC3-DC5 with L/R $\leq 15 \mathrm{~ms}$ with 1 poles in series |  |  |  |
|  | $\leq 24 \mathrm{~V}$ | A | 7 |
|  | 48 V | A | 6 |
|  | 75V | A | 2 |
|  | 110V | A | 1 |
|  | 220V | A | - |
| IEC max current le in DC3-DC5 with L/R $\leq 15 \mathrm{~ms}$ with 2 poles in series |  |  |  |
|  | $\leq 24 \mathrm{~V}$ | A | 8 |
|  | 48 V | A | 8 |
|  | 75V | A | 5 |
|  | 110V | A | 4 |
|  | 220 V | A | - |
| IEC max current le in DC3-DC5 with L/R $\leq 15 \mathrm{~ms}$ with 3 poles in series |  |  |  |
|  | $\leq 24 \mathrm{~V}$ | A | 10 |
|  | 48 V | A | 10 |
|  | 75V | A | 6 |
|  | 110 V | A | 5 |
|  | 220 V | A | 0,8 |
| IEC max current le in DC3-DC5 with L/R $\leq 15 \mathrm{~ms}$ with 4 poles in series |  |  |  |
|  | $\leq 24 \mathrm{~V}$ | A | 10 |
|  | 48 V | A | 10 |
|  | 75V | A | 6 |
|  | 110 V | A | 5 |
|  | 220 V | A | 0,8 |
| Short-time allowable current for 10s (IEC/EN60947-1) |  | A | 96 |
| Protection fuse |  |  |  |
|  | gG (IEC) | A | 20 |
|  | aM (IEC) | A | 10 |
| Making capacity (RMS value) |  | A | 92 |
| Breaking capacity at voltage |  |  |  |
|  | 440 V | A | 72 |
|  | 500 V | A | 72 |
|  | 690V | A | 72 |
| Resistance per pole (average value) |  | $\mathrm{m} \Omega$ | 10 |
| Power dissipation per pole (average value) |  |  |  |
|  | Ith | W | 4 |
|  | AC-3 | W | 0.81 |
| Tightening torque for terminals |  |  |  |
|  | min | Nm | 0.8 |
|  | max | Nm | 1 |
|  | min | Ibin | 9 |
|  | max | Ibin | 9 |
| Tightening torque for coil terminal |  |  |  |
|  | min | Nm | 0.8 |
|  | max | Nm | 1 |
|  | min | Ibin | 9 |

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ,


Conductor section
AWG/kcmil conductor section

|  | max |  | 12 |
| :---: | :---: | :---: | :---: |
| Auxiliary contact characteristics |  |  |  |
| Thermal current Ith |  | A | 10 |
| IEC/EN 60947-5-1 designation |  |  | A600-Q600 |
| Operating current AC15 |  |  |  |
|  | 230 V | A | 3 |
|  | 400 V | A | 1.9 |
|  | 500 V | A | 1.4 |
| Operating current DC12 |  |  |  |
|  | 110V | A | 2.9 |
| Operating current DC13 |  |  |  |
|  | 24 V | A | 2.9 |
|  | 48 V | A | 1.4 |
|  | 60 V | A | 1.2 |
|  | 110V | A | 0.6 |
|  | 125 V | A | 0.55 |
|  | 220 V | A | 0.3 |
|  | 600 V | A | 0.1 |
| Operations |  |  |  |
| Mechanical life |  | cycles | 20000000 |
| Electrical life |  | cycles | 500000 |
| Safety related data |  |  |  |
| Performance level B10d according to EN/ISO 13489-1 |  |  |  |
|  | rated load | cycles | 500000 |
|  | mechanical load | cycles | 20000000 |
| Mirror contats according to IEC/EN 609474-4-1 |  |  | yes |
| EMC compatibility |  |  | yes |
| AC coil operating |  |  |  |

11BG0910A57560

## Rated AC voltage at 60 Hz <br> AC operating voltage

V 575
of 60 Hz coil powered at 60 Hz
pick-up

drop-out | $\min$ | $\%$ Us | 75 |  |
| :---: | :---: | :---: | :---: |
| $\max$ | $\%$ Us | 115 |  |
|  | $\min$ | $\% U s$ | 20 |
| max | $\%$ Us | 55 |  |

$\overline{\mathrm{AC}}$ average coil consumption at $20^{\circ} \mathrm{C}$
of $50 / 60 \mathrm{~Hz}$ coil powered at 50 Hz


Average time for Us control
in AC Closing NO

|  | $\min$ | ms | 12 |
| :--- | ---: | :--- | :--- |
| Opening NO | $\max$ | ms | 21 |
| Closing NC | $\min$ | ms | 9 |
|  | $\max$ | ms | 18 |
| Opening NC | $\min$ | ms | 17 |
|  | $\max$ | ms | 26 |
|  |  |  |  |
|  | $\min$ | ms | 7 |
|  | $\max$ | ms | 17 |

Closing NO

|  | $\min$ | ms | 18 |
| :--- | ---: | :---: | :---: |
| Opening NO | $\max$ | ms | 25 |
| Closing NC | $\min$ | ms | 2 |
|  | $\max$ | ms | 3 |
| Opening NC | $\min$ | ms | 3 |
|  | $\max$ | ms | 5 |
|  |  |  |  |
|  | $\min$ | ms | 11 |
|  | $\max$ | ms | 17 |

UL technical data
Full-load current (FLA) for three-phase AC motor

| at 480 V | A | 7.6 |
| :--- | :--- | :--- |
| at 600 V | A | 6.1 |


| Yielded mechanical performance |  |  |  |
| :--- | ---: | ---: | ---: |
| for single-phase AC motor |  |  |  |
|  |  |  |  |
|  |  | $110 / 120 \mathrm{~V}$ | HP |
|  | 230 V | HP | 0.5 |
|  |  |  |  |
|  |  |  |  |
|  | $200 / 208 \mathrm{~V}$ | HP | 2 |
|  | $220 / 230 \mathrm{~V}$ | HP | 3 |
|  | $460 / 480 \mathrm{~V}$ | HP | 5 |
|  | $575 / 600 \mathrm{~V}$ | HP | 5 |

## General USE

Contactor

|  | AC current | A 20 |
| :--- | :--- | :--- |
| Short-circuit protection fuse 600 V |  |  |

Short-circuit protection fuse, 600V
High fault

|  | Short circuit current Fuse rating Fuse class | $\begin{gathered} \text { kA } \\ \text { A } \end{gathered}$ | $\begin{aligned} & 100 \\ & 30 \\ & \text { J } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Standard fault |  |  |  |
|  | Short circuit current | kA | 5 |
|  | Fuse rating | A | 30 |
|  | Fuse class |  | RK5 |
| Contact rating of auxiliary contacts according to UL |  |  | A600- Q600 |
| Ambient conditions |  |  |  |

Temperature


[^0]

Certifications and compliance
Compliance

|  | CSA C22.2 $\mathrm{n}^{\circ}$ 60947-1 |  |
| :---: | :---: | :---: |
|  | CSA C22.2 ${ }^{\circ}$ 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 |


[^0]:    Wiring diagrams

