



| Product type designation | Product designation | | | | Auxiliary contactor |
|--|-------------------------|---|-----------|------|---------------------|
| Contact characteristics Number of poles Nr. 4 Rated insulation voltage UI IEC/EN V 690 Rated impulse withstand voltage Ulmp kV 6 Operational frequency min Hz 25 max Hz 400 LEC Conventional free air thermal current Ith A 10 Protection fuse gG (IEC) A 16 Tightening torque for terminals min Nm 0.8 max Nm 1 nm 1 Tightening torque for coil terminal min Nm 0.8 nm 1 Tightening torque for coil terminal min Nm 0.8 nm 1 | Product type designat | | | | |
| Rated insulation voltage Ui IEC/EN | | | | | |
| Rated insulation voltage Ui IEC/EN | Number of poles | | | Nr. | 4 |
| Name | | ge Ui IEC/EN | | V | 690 |
| Min | | | | kV | 6 |
| EC Conventional free air thermal current Ith | Operational frequency | , | | | |
| EC Conventional free air thermal current Ith | | | min | Hz | 25 |
| Protection fuse gG (IEC) A 16 Tightening torque for terminals min Nm 0.8 max Nm 1 Min bin 9 Tightening torque for coil terminal min Nm 0.8 max Nm 0.8 max Nm 1 min nm 0.8 max Nm 1 max Ibin 9 Max number of wires simultaneously connectable nm 2 Conductor section max 12 Flexible w/o lug conductor section min mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 min mm² 1.5 Mechanical features | | | max | Hz | 400 |
| Tightening torque for terminals | IEC Conventional free | | Α | 10 | |
| Tightening torque for terminals | Protection fuse | | | | |
| Min | | | gG (IEC) | Α | 16 |
| Max Nm 1 1 9 9 1 1 1 1 1 1 | Tightening torque for t | erminals | | | |
| Part Part | | | min | Nm | 0.8 |
| Tightening torque for coil terminal | | | max | Nm | 1 |
| Tightening torque for coil terminal | | | min | lbin | 9 |
| Min Nm 0.8 max Nm 1 min lbin 9 max lbin 12 max lbin max lbin lbin | | | max | lbin | 9 |
| Max number of wires simultaneously connectable Max number of wires simultaneously connectable Nr. 2 | Tightening torque for o | coil terminal | | | |
| Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm² mm² mm² 2.5 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² mm² 1.5 max mm² 2.5 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² mm² 2.5 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired properly wired properly wired mortal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm | | | min | Nm | 0.8 |
| Max number of wires simultaneously connectable Mr. 2 Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm² mm² on mm² | | | max | Nm | 1 |
| Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm² mm² 2.5 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² mm² 1.5 max mm² 2.5 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² mm² 2.5 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features Operating position Vertical plan allowable 430° Fixing Screw / DIN rail 35mm | | | min | lbin | 9 |
| AWG/Kcmil | | | max | lbin | 9 |
| AWG/Kcmil max 12 | Max number of wires | simultaneously connectable | | Nr. | 2 |
| Max | Conductor section | | | | _ |
| Flexible w/o lug conductor section min mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position Fixing Fixing Fixing Min mm² 1.5 max mm² 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm | | AWG/Kcmil | | | |
| Min min mm² 0.75 max mm² 2.5 | | | max | | 12 |
| Max mm² 2.5 | | Flexible w/o lug conductor section | | | |
| Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal protection according to IEC/EN 60529 Fixing Fixing | | | min | mm² | 0.75 |
| min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal allowable ±30° Fixing Screw / DIN rail 35mm | | | max | mm² | 2.5 |
| Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 | | Flexible c/w lug conductor section | | | |
| Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal vertical plan allowable ±30° Fixing Fixing | | | min | mm² | |
| min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal vertical plan allowable ±30° Fixing Time min mm² 1.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm | | | max | mm² | 2.5 |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal normal allowable Fixing max mm² 2.5 IP20 when properly wired Vertical plan ±30° Screw / DIN rail 35mm | | Flexible with insulated spade lug conductor section | | | |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan #30° Fixing Screw / DIN rail 35mm | | | min | | |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | | | max | mm² | |
| Mechanical features Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | Power terminal protect | tion according to IEC/EN 60529 | | | |
| Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | | | | | properly wired |
| normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | | | | | |
| Fixing allowable ±30° Screw / DIN rail 35mm | Operating position | | _ | | |
| Fixing Screw / DIN rail 35mm | | | | | |
| Fixing 35mm | | | allowable | | |
| 33011111 | Fixing | | | | |
| weight g 187 | | | | | |
| | vveignt | | | g | 101 |



ENERGY AND AUTOMATION

| Conductor section | | | | |
|--|--------------------------------------|-----------------|---------|-------------|
| | AWG/kcmil conductor section | | | |
| | | max | | 12 |
| Auxiliary contact chara | cteristics | | | |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 des | signation | | | A600 - Q600 |
| Operating current AC1 | 5 | | | |
| | | 230V | Α | 3 |
| | | 400V | Α | 1.9 |
| | | 500V | Α | 1.4 |
| Operating current DC1 | 2 | | | |
| | | 110V | Α | 2.9 |
| Operating current DC1 | 3 | | | |
| | | 24V | Α | 2.9 |
| | | 48V | Α | 1.4 |
| | | 60V | Α | 1.2 |
| | | 110V | Α | 0.6 |
| | | 125V | Α | 0.55 |
| | | 220V | Α | 0.3 |
| | | 600V | Α | 0.1 |
| Operations | | | | |
| Mechanical life | | | cycles | 20000000 |
| Safety related data | | | | |
| · · | Od according to EN/ISO 13489-1 | | | |
| | • | mechanical load | cycles | 20000000 |
| Mirror contats according | ng to IEC/EN 609474-4-1 | | | YES |
| EMC compatibility | | | | yes |
| AC coil operating | | | | |
| Rated AC voltage at 6 | 0Hz | | V | 575 |
| AC operating voltage | | | | |
| , , | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | r 1 | min | %Us | 75 |
| | | max | %Us | 115 |
| | drop-out | | ,,,,, | |
| | ш | min | %Us | 20 |
| | | max | %Us | 55 |
| AC average coil consu | Imption at 20°C | | | |
| <u> </u> | of 50/60Hz coil powered at 50Hz | | | |
| | 5. 55. 55. 12 55 p 5 51 50 at 650 12 | in-rush | VA | 30 |
| | | holding | VA | 4 |
| | of 50/60Hz coil powered at 60Hz | | -,, | <u> </u> |
| | 5. 55. 55. 12 55 por 51 50 at 601 12 | in-rush | VA | 25 |
| | | holding | VA | 3 |
| | of 60Hz coil powered at 60Hz | notality | ٧,١ | |
| | or dor iz doir powered at dor iz | in-rush | VA | 30 |
| | | | | |
| | | holding | ۱/Δ | |
| Dissination at holding | <20°C 50H 7 | holding | VA W | 0.95 |
| Dissipation at holding: | ≤20°C 50Hz | holding | VA W | 0.95 |
| Max cycles frequency | ≤20°C 50Hz | holding | W | 0.95 |
| Max cycles frequency Mechanical operation | ≤20°C 50Hz | holding | | 0.95 |
| Max cycles frequency | | holding | W | 0.95 |

in AC

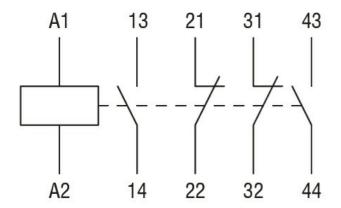


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| | | Olasia a NO | | | |
|---|--|-------------|-----------------------------------|---|---------------------------|
| | | Closing NO | min | ms | 12 |
| | | | max | | 21 |
| | | Opening NC | | 1113 | 21 |
| | | Opening NC | , min | ms | 9 |
| | | | max | | 18 |
| | | Closing NC | max | 1110 | 10 |
| | | 0.00g | min | ms | 17 |
| | | | max | | 26 |
| | | Opening NC | | | |
| | | , , | min | ms | 7 |
| | | | max | | 17 |
| | in DC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NC |) | | |
| | | | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | | | |
| | | | min | ms | 3 |
| | | | max | ms | 5 |
| | | Opening NC | | | |
| | | | min | ms | 11 |
| | | | max | ms | 17 |
| UL technical data | | | | | |
| General USE | 0 | | | | |
| | Contactor | | AC current | Α | 10 |
| Contact rating of auxilia | ary contacts according to | TII | AC current | | A600 - Q600 |
| Ambient conditions | ary cornacts according to | OL | | | A000 - Q000 |
| | | | | | |
| TAMBARATITA | | | | | |
| Temperature | Operating temperature | | | | |
| remperature | Operating temperature | | min | °C | -50 |
| remperature | Operating temperature | | min max | | -50 +70 |
| remperature | | | min max | | -50 +70 |
| remperature | Operating temperature Storage temperature | | max | °C | +70 |
| remperature | | | max min | °C | +70 -60 |
| | | | max | °C °C | +70 -60 +80 |
| Max altitude | Storage temperature | | max min | °C | +70 -60 |
| Max altitude Resistance & Protection | Storage temperature | | max min | °C °C | +70 -60 +80 |
| Max altitude | Storage temperature | | max min | °C °C | +70 -60 +80 3000 |
| Max altitude Resistance & Protection Pollution degree Dimensions | Storage temperature | | max min max | °C °C °C m | +70 -60 +80 3000 |
| Max altitude Resistance & Protection Pollution degree Dimensions | Storage temperature | | max min max | °C °C °C m | +70 -60 +80 3000 |
| Max altitude Resistance & Protection Pollution degree Dimensions | Storage temperature | | max min max | °C °C °C m | +70 -60 +80 3000 |
| Max altitude Resistance & Protection Pollution degree Dimensions 4.4 (0.17") (0.17") (0.17") | Storage temperature | | min max | °C °C °C | +70 -60 +80 3000 |
| Max altitude Resistance & Protection Pollution degree Dimensions 4.4 (0.17") (0.17") | Storage temperature | | min max | °C °C °C m | +70 -60 +80 3000 |
| Max altitude Resistance & Protection Pollution degree Dimensions 4.4 (0.17") (0.17") (0.17") | Storage temperature | | min max (1.73") (1.73") (1.61) | 0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | +70 -60 +80 3000 |
| Max altitude Resistance & Protection Pollution degree Dimensions 4.4 (0.17") *** *** *** *** *** *** *** | Storage temperature | | min max | C \$C m | +70 -60 +80 3000 3 |
| Max altitude Resistance & Protection Pollution degree Dimensions 4.4 (0.17") (0.17") (0.38") (0.38") | Storage temperature | | min max | 0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° | +70 -60 +80 3000 3 |
| Max altitude Resistance & Protection Pollution degree Dimensions 4.4 (0.17") (0.17") (0.33") (0.33") (0.33") | Storage temperature | | min max (1.73") (0.1.37") | C \$C m | +70 -60 +80 3000 3 |
| Max altitude Resistance & Protection Pollution degree Dimensions 4.4 (0.17") (0.17") (0.38") (0.38") | Storage temperature | | min max | C \$C m | +70 -60 +80 3000 3 |



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Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-5-1

IEC/EN 60947-1

IEC/EN 60947-5-1

UL 60947-1

UL 60947-5-1

Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC000196 -Contactor relay