FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH 220...240VAC

ENERGY AND AUTOMATION



| Product designation Product type designation | | | Power contactor B145 |
|--|--------------------|--------|-------------------------|
| Contact characteristics | | | |
| Number of poles | | Nr. | 4 |
| 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 | 250 |
| Operational current le | | | |
| ' | AC-1 (≤40°C) | Α | 250 |
| | AC-1 (≤55°C) | Α | 235 |
| | AC-1 (≤70°C) | Α | 190 |
| | AC-3 (≤440V ≤55°C) | Α | 150 |
| | AC-4 (400V) | Α | 57 |
| Rated operational power AC-1 (T≤40°C) | 7.0 . (1001) | | |
| (= 10 °) | 230V | kW | 91 |
| | 400V | kW | 150 |
| | 500V | kW | 196 |
| | 690V | kW | 270 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | 000 V | 1000 | 210 |
| 120 max out on 10 m 201 with 2/1 = 1mo with 1 poice in 30/100 | 75V | Α | 220 |
| | 110V | A | 110 |
| | 220V | A | - - |
| | 330V | A | _ |
| | 460V | A | _ |
| IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series | | | |
| TEO max current le in BOT with E/N = mis with 2 poles in series | 75V | Α | 220 |
| | 110V | A | 150 |
| | 220V | A | 130 |
| | 330V | A | 130 |
| | 460V | A | _ |
| IEC may current to in DC1 with L/B < 1mc with 3 notes in series | 400 V | | |
| IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series | 75V | ۸ | 220 |
| | 110V | A A | 150 |
| | 220V | | |
| | 330V | A | 150 |
| | 460V | A | 130 |
| IFC may current to in DC1 with L/D < 1 mg with 4 pales in series | 400 V | A | |
| IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series | 751 | ۸ | 220 |
| | 75V | A | 220 |
| | 110V | A | 150 |
| | 220V | A | 150 |
| | 330V | A | 150 |
| | 460V | Α | 130 |
| | | | |

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Lovato

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION

220...240VAC

| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series | 75.7 | | 100 |
|--|----------|------|------|
| | 75V | Α | 160 |
| | 110V | Α | 80 |
| | 220V | Α | _ |
| | 330V | Α | _ |
| | 460V | Α | _ |
| EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series | | | |
| | 75V | Α | 160 |
| | 110V | Α | 120 |
| | 220V | Α | 90 |
| | 330V | Α | _ |
| | 460V | Α | _ |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series | | | |
| · | 75V | Α | 160 |
| | 110V | Α | 140 |
| | 220V | Α | 120 |
| | 330V | A | 90 |
| | 460V | A | |
| IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series | 400 0 | ^ | _ |
| TEC max current le in DC3-DC3 with L/K > 13ms with 4 poles in series | 75\/ | ٨ | 160 |
| | 75V | A | 160 |
| | 110V | Α | 140 |
| | 220V | Α | 140 |
| | 330V | Α | 140 |
| | 460V | Α | 90 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 1300 |
| Protection fuse | | | |
| | gG (IEC) | Α | 250 |
| | aM (IEC) | Α | 160 |
| Making capacity (RMS value) | | Α | 1500 |
| Breaking capacity at voltage | | | |
| | 440V | Α | 1500 |
| | 500V | Α | 1400 |
| | 690V | Α | 1200 |
| Resistance per pole (average value) | | mΩ | 0.3 |
| Power dissipation per pole (average value) | | | |
| Tower discipation per pole (average value) | Ith | W | 14.5 |
| | AC-3 | W | 6.8 |
| Tightening torque for terminals | AC-3 | VV | 0.0 |
| rightening torque for terminals | | Nima | 10 |
| | min | Nm | 18 |
| | max | Nm | 18 |
| | min | Ibin | 13.3 |
| | max | Ibin | 13.3 |
| Tightening torque for coil terminal | | | |
| | min | Nm | 1 |
| | max | Nm | 1 |
| | min | Ibin | 0.74 |
| | max | lbin | 0.74 |
| Max number of wires simultaneously connectable | | Nr. | 2 |
| Conductor section | | | |
| AWG/Kcmil | | | |
| • | max | | 4/0 |
| | IIIUA | | ., 0 |
| Power terminal protection according to IEC/EN 60529 | | | IP00 |

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FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 250A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH ENERGY AND AUTOMATION 220...240VAC

Operating position

| Operating position | | normal | | Vertical plan |
|-------------------------|---------------------------------|-----------------|--------|---------------|
| | | allowable | | ±30° |
| ixing | | | | Screw |
| Veight | | | g | 6980 |
| Operations | | | | |
| Mechanical life | | | cycles | 10000000 |
| Electrical life | | | cycles | 1100000 |
| Safety related data | | | | |
| erformance level B10 | 0d according to EN/ISO 13489-1 | | | |
| | | rated load | cycles | 1100000 |
| | | mechanical load | cycles | 10000000 |
| | ng to IEC/EN 609474-4-1 | | | Yes |
| EMC compatibility | | | | yes |
| AC coil operating | | | | |
| Rated AC voltage at 5 | 0/60Hz, 60Hz | | | |
| | | min | V | 220 |
| • | | max | V | 240 |
| AC operating voltage | (= 0 /0 0 L) | | | |
| | of 50/60Hz coil powered at 50Hz | | | |
| | pick-up | | 0/11- | 90 |
| | | min | %Us | 80 |
| | drap out | max | %Us | 110 |
| | drop-out | min | %Us | 20 |
| | | max | %Us | 60 |
| | of 50/60Hz coil powered at 60Hz | max | 7003 | |
| | pick-up | | | |
| | ριοίταρ | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | ,,,,, | |
| | · | min | %Us | 20 |
| | | max | %Us | 60 |
| | of 60Hz coil powered at 60Hz | | | |
| | pick-up | | | |
| | | min | %Us | 80 |
| | | max | %Us | 110 |
| | drop-out | | | |
| | | min | %Us | 20 |
| | | max | %Us | 60 |
| AC average coil consu | | | | |
| | of 50/60Hz coil powered at 50Hz | _ | | |
| | | in-rush | VA | 300 |
| | (50/0011" | holding | VA | 10 |
| | of 50/60Hz coil powered at 60Hz | | \ | 200 |
| | | in-rush | VA | 300 |
| Discipation of In-1-1: | <20°C FOU- | holding | VA | 10 |
| Dissipation at holding | ≥∠U U DU⊓∠ | | W | 10 |
| DC coil operating | 20 | | | |
| DC rated control voltag | y e | | \/ | 220 |
| | | min | V | 220 |
| DC operating voltage | | max | V | 240 |

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ENERGY AND AUTOMATION

| | pick-up | | | | |
|--|--|------------|---|--------------------------|---|
| | pion up | | min | %Us | 80 |
| | | | max | %Us | 110 |
| | drop-out | | | | |
| | | | min | %Us | 20 |
| | | | max | %Us | 60 |
| Average coil consumpt | tion ≤20°C | | | | |
| | | | in-rush | W | 300 |
| May avalog fraguesay | | | holding | W | 10 |
| Max cycles frequency Mechanical operation | | | | cycles/h | 2400 |
| Operating times | | | | Cycles/II | 2400 |
| Average time for Us co | ontrol | | | | |
| Avorago umo for co oc | in AC | | | | |
| | | Closing NO | | | |
| | | J | min | ms | 60 |
| | | | max | ms | 100 |
| | | Opening NO | | | |
| | | | min | ms | 25 |
| | | | max | ms | 60 |
| | in DC | | | | |
| | | Closing NO | | | |
| | | | min | ms | 60 |
| | | | max | ms | 100 |
| | 1 | Opening NO | i- | | 0.5 |
| | | | min | ms ms | 25 60 |
| UL technical data | | | max | ms | 00 |
| Rated operational volta | age AC (UL) | | | V | 600 |
| | for three-phase AC motor | r | | - | |
| (, | μ | | at 480V | Α | 124 |
| | | | at 600V | Α | 125 |
| Yielded mechanical pe | erformance | | | | _ |
| | | | | | |
| | for three-phase AC motor | or | | | |
| | for three-phase AC moto | or | 200/208V | HP | 50 |
| | for three-phase AC moto | or | 200/208V 220/230V | HP HP | 50 50 |
| General USE | for three-phase AC moto | or | | | |
| General USE | for three-phase AC moto | or | 220/230V | HP | 50 |
| | Contactor | or | | | |
| General USE Short-circuit protection | Contactor fuse, 600V | or | 220/230V | HP | 50 |
| | Contactor | or | AC current | HP A | 250 |
| | Contactor fuse, 600V | or | AC current Short circuit current | HP A kA | 50 250 5 |
| | Contactor fuse, 600V | or | AC current Short circuit current Fuse rating | HP A | 50 250 5 500 |
| Short-circuit protection | Contactor fuse, 600V | or | AC current Short circuit current | HP A kA | 50 250 5 |
| Short-circuit protection Ambient conditions | Contactor fuse, 600V | or | AC current Short circuit current Fuse rating | HP A kA | 50 250 5 500 |
| Short-circuit protection | Contactor fuse, 600V Standard fault | or | AC current Short circuit current Fuse rating | HP A kA | 50 250 5 500 |
| Short-circuit protection Ambient conditions | Contactor fuse, 600V | or | AC current Short circuit current Fuse rating Fuse class | A kA A | 50 250 5 500 RK5 |
| Short-circuit protection Ambient conditions | Contactor fuse, 600V Standard fault | or | AC current Short circuit current Fuse rating | HP A kA | 50 250 5 500 RK5 |
| Short-circuit protection Ambient conditions | Contactor fuse, 600V Standard fault Operating temperature | or | AC current Short circuit current Fuse rating Fuse class | A kA A | 50 250 5 500 RK5 |
| Short-circuit protection Ambient conditions | Contactor fuse, 600V Standard fault | or | AC current Short circuit current Fuse rating Fuse class | A kA A | 50 250 5 500 RK5 |
| Short-circuit protection Ambient conditions | Contactor fuse, 600V Standard fault Operating temperature | or | AC current Short circuit current Fuse rating Fuse class min max | HP A kA A °C °C | 50 250 5 500 RK5 -50 70 |
| Short-circuit protection Ambient conditions | Contactor fuse, 600V Standard fault Operating temperature Storage temperature | or | AC current Short circuit current Fuse rating Fuse class min max | HP A kA A °C °C °C | 50 250 5 500 RK5 -50 70 |

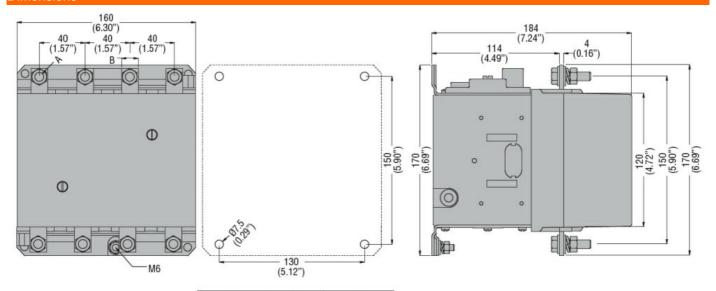


ENERGY AND AUTOMATION

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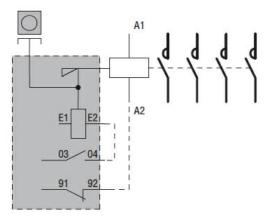
Pollution degree 3

Dimensions



| CONTACTOR TYPE | A | В |
|----------------|----|------------|
| B115 | M6 | 15 (0.59") |
| B145 | M8 | 20 (0.79") |
| B180 | M8 | 20 (0.79") |

Wiring diagrams



Certifications and compliance

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