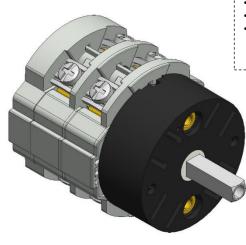
BREMAS

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ISO 9001 Certified Quality System

Cod. CA0160039PL2



(Image is purely indicative)



Standard and Approvals

- Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- Suitable as Manual Motor Controller

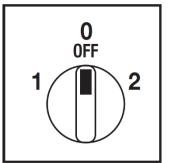


- Change-over switch 4 pole
- IP00 Protection degree
- Rated operational current le: 16A (AC-21A)
- Rated thermal current Ith: 20A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 60°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

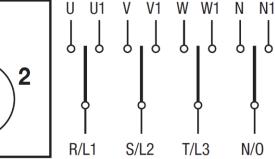
Technical characteristics: Knob

- Transparent plate 75,5x75,5mm and black knob
- Fixing with 2 screws at 28mm vertical
- IP 40 Protection degree

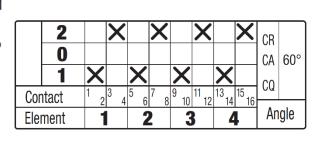
Positions







Electrical function



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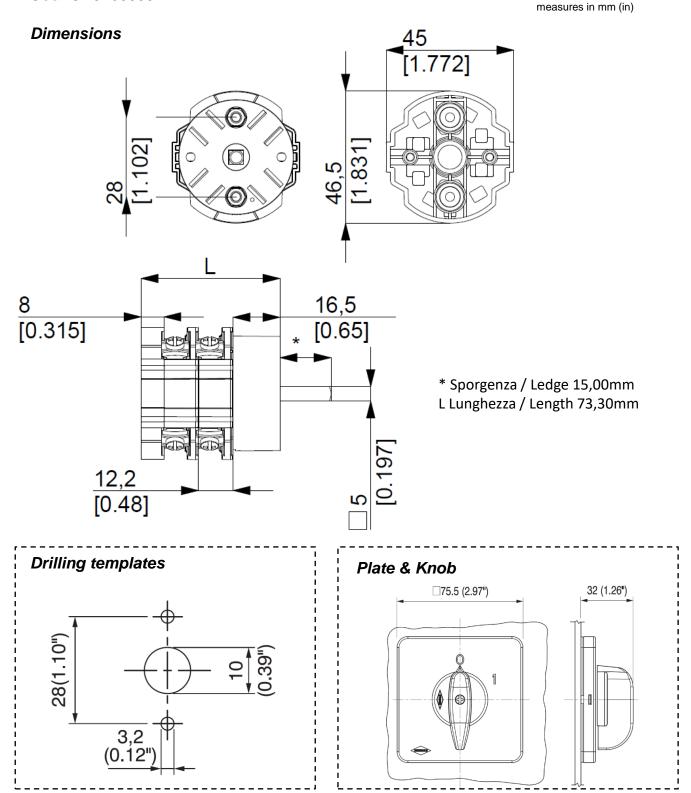




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| Technical data IEC 947-3 EN 60947-3 | | | | |
|---|--------------------------------------|---|---|---|
| Technical data IEC 947-3 EN 60947-3 Rated insulation voltage | | Ui | v | 690 |
| Rated insulation voltage Rated operating voltage | | Ue | v | 690 |
| Rated operating voltage Rated impulse withstand voltage | | Uimp | kV | 6 |
| Rated Impulse withstand Voltage | | Ith | A | 20 |
| Rated thermal current for enclosed switch | | Ithe | A | 20 |
| Rated operation frequency | | itile | Hz | 50/60 |
| Power dissipation for each pole | | | W | 0,5 |
| Rated operating current | | | vv | 0,5 |
| | | la | | 16 |
| AC-21A Switching resistive loads, including moderate overloads | | le | A | 16 |
| AC-22A Switching of mixed resistive and inductive loads, including moderate overloads | | le | A | 16 |
| AC-20A Connecting and disconnecting under no loads conditions | | | | - |
| Rated operating power | | | | |
| AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole | | 230V | Kw (A) | 4 (14) |
| | | 400V | Kw (A) | 7,5 (14) |
| | | 500V | Kw (A) | - |
| | | 690V | Kw (A) | - |
| AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole | | 110V | Kw (A) | 1,1 (12) |
| | | 230V | Kw (A) | 2,2 (14) |
| AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole | | 230V | Kw (A) | 3,7 (12) |
| | | 400V | Kw (A) | 5,5 (10) |
| | | 500V | Kw (A) | - |
| | | 690V | Kw (A) | - |
| AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole | | 110V | Kw (A) | 0,75 (9) |
| | | 230V | Kw (A) | 1,5 (8) |
| | | 400V | Kw (A) | - |
| AC-4 Squirrel cage motors: starting, pluggign, inching | | 230V | Kw (A) | - |
| | | 400V | Kw (A) | - |
| AC-15 Control of a.c electromagnetic loads | | 230V | Α | 6 |
| | | 400V | Α | 4 |
| Rated breaking capability in AC-23A (cos φ=0,45) | | 230V | A | 112 |
| | | 400V | Α | 112 |
| Short circuit protection | | | | |
| | | | | |
| Rated short time withstand current | | lcw | A | 240 |
| | | lcw lcm | A A | 240 |
| Rated short time withstand current | | | | |
| Rated short time withstand current Rated short-circuit make capacity | | lcm | А | - |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current | | Icm - | A kA | - 4 |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG | | Icm - | A kA | - 4 |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA | | Icm - 500V | A kA A | - 4 20 |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage | | Icm - 500V Ue | A kA A UL/CSA V | - 4 20 600/- |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current | | Icm - 500V Ue | A kA A UL/CSA V UL/CSA A | - 4 20 600/- 16 |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac | | Icm - 500V Ue | A kA A UL/CSA V UL/CSA A Arms | - 4 20 600/- 16 5000 |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) | | Icm - 500V Ue | A kA A UL/CSA V UL/CSA A Arms | - 4 20 600/- 16 5000 |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power | | Icm - 500V Ue Ie | A kA A UL/CSA V UL/CSA A Arms A | - 4 20 600/- 16 5000 25 (30) |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power | | Icm | A kA A UL/CSA V UL/CSA A Arms A Hp (A) | - 4 20 600/- 16 5000 25 (30) 1 (16) |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole | | Icm | A kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) | - 4 20 600/- 16 5000 25(30) 25(30) 1(16) 2(12) |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole | | Icm - 500V Ue Ie Ie - | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) | - 4 20 600/- 16 5000 25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole | | Icm | A kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) | - 4 20 600/- 16 5000 25 (30) 25 (30) 1 (16) 2 (12) 2 (7,8) |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole | | Icm - 500V Ue Ie - | Α kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) | - 4 20 600/- 16 5000 25 (30) 25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole | | Icm - 500V Ue Ie - | Α kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) | - 4 20 600/- 16 5000 25 (30) 25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole | | Icm | Α kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) | - 4 20 600/- 16 5000 25(30) 1(16) 2(30) 1(16) 2(12) 2(7,8) 3(9,6) 7,5(11) 7,5(9) |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class g6 Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) | - 4 20 600/- 16 5000 25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class g6 Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness | | Icm | А kA A UL/CSA V UL/CSA A Arms A Arms A Hp (A) Hp (A) | - 4 20 600/- 16 5000 25(30) 25(30) 1(16) 2(12) 2(7,8) 3(9,6) 7,5(11) 7,5(9) 7,5(9) 7,5(9) |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life | With flexible wires | Icm | А kA A UL/CSA V UL/CSA A Arms A Arms A Hp (A) Hp (A) | - 4 20 600/- 16 5000 25(30) 25(30) 1(16) 2(12) 2(7,8) 3(9,6) 7,5(11) 7,5(11) 7,5(9) - - - - - - - - - - |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UI/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 | With flexible wires | Icm | А kA A UL/CSA V UL/CSA V UL/CSA A Arms A Hp (A) Hp (| - 4 20 600/- 16 5000 25 (30) 25 (30) 1 (16) 2 (12) 2 (7.8) 3 (9.6) 7,5 (11) 7,5 (9) 4 4 2 120 2 4 2 2 120 |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UI/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr | - 4 20 600/- 16 5000 25 (30) 25 (30) 25 (30) 25 (30) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 4 2 120 4 2 2 120 2 4 16 - 120 - 2 2 1,5-4 16-10 |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UI/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 | With flexible wires With solid wires | Icm | A kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Ka Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² | - 4 20 600/- 16 5000 25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 4 2 2 120 2 2 x1,5-4 16-10 2x1,5-6 |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class g6 Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connection terminal screw dimensions | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Cycles/hr mm ² AWG mm ² Type | - 4 20 600/- 16 5000 25(30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 2 (7,8) 4 2 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 2 (12) 2 |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 | | Icm | A kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Ka Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² | - 4 20 600/- 16 5000 25 (30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 4 2 2 120 2 2 x1,5-4 16-10 2x1,5-6 |
| Rated short-circuit make capacity Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UI/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connection capability Connection according to IEC 9471-1 and EN 50947-1 Connection degree IEC 529 EN 60529 | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Cycles/hr mm ² AWG mm ² Type | - 4 20 600/- 16 5000 25 (30) 2 (12) 2 (12) 2 (12) 2 (12) 2 (12) 2 (12) 7,5 (11) 7,5 (9) 4 4 2 120 4 2 (12) 2 (12) 2 (13) 7,5 (11) 7,5 (9) 4 2 (12) 2 (12) 2 (13) 7,5 (11) 7,5 (9) 2 (12) 2 (12) 7,5 (11) 7,5 (9) 1 (10) 2 (12) 7,5 (11) 7,5 (12) 1 (10) 7,5 (11) 7,5 (1 |
| Rated short-circuit make capacity Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data U/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm | - 4 20 600/- 16 5000 25(30) 1 (16) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 2 (7,8) 120 2 (12) 2 (12) 2 (12) 2 (13) 2 (13) 2 (14) 2 (15) 4 (16) 2 (15) 2 (1 |
| Rated short-time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connecting capability Connecting capability Connection degree IEC 529 EN 60529 Terminals Ambient conditions | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles x 10 ⁶ | - 4 20 600/- 16 5000 25 (30) 7 (116) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 4 2 120 2 x1,5-4 16-10 2x1,5-6 M3,5 1 1 00 |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connection gcapability Connection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Mp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr Cycles/hr Mm ² AWG mm ² Nm IP IP | - 4 20 600/- 16 5000 25(30) 1(16) 2(12) 2(7,8) 3(9,6) 7,5(11) 7,5(9) 4 2 4 2 2 120 2 4 2 2 1,5-4 16-10 2x1,5-5 M3,5 1 00 00 |
| Rated short time withstand current Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RKS, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature Storage ambient temperature | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles x 10 ⁶ | - 4 20 600/- 16 5000 25(30) 1(16) 2(12) 2(7,8) 3(9,6) 7,5(11) 7,5(9) 4 2 2(1,5-6) 4 2(2,5-4) 16-10 2(x1,5-6) M3,5 1 1 00 00 - 25 + +55 -30 ÷ +70 |
| Rated short-circuit make capacity Rated short-circuit make capacity Rated conditional short-circuit current With fuses class gG Technical data UL/CSA Rated operating voltage General use current Short circuit rating @600Vac Fuse size (Class RK5, 600Vac, 200kA A.I.C.) Rated operating power 1 phase - 2 pole 3 phase - 3 pole Mechanical characteristics Panel thickness Mechanical life Connecting capability Connecting capability Connecting capability Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature | | Icm | А kA A UL/CSA V UL/CSA A Arms A Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Hp (A) Mp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr Cycles/hr Mm ² AWG mm ² Nm IP IP | - 4 20 600/- 16 5000 25 (30) 7 (116) 2 (12) 2 (7,8) 3 (9,6) 7,5 (11) 7,5 (9) 4 4 2 120 2 4 2 2 (1,5-4 16-10 2x1,5-6 M3,5 1 1 00 00 |

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