DX120305MUAEDSG

BREMAS BETTER SWITCHES

Bremas Ersce S.p.A.

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Disconnect switch

| Utilization category Rated operational voltage Ue Vdc 1500 1500 Rated operational current le A 15 6 Rated operational current le A 15 6 Rated operational current (second rating) Ue Vdc 1250 1250 Rated operational current (second rating) le A 25 10 Rated operational current (second rating) Rated operational voltage (chird rating) Rated operational voltage (third rating) Rated operational voltage (third rating) Rated operational voltage (third rating) Rated operational current (fourth rating) Rated operational current (fifth rating) Rated operational current (fifth rating) Rated operational current (fifth rating) Rated operational current (sixth rating) Rated operational current (s | Disconnect switch | | | | |
|--|--|------|------|---|-------|
| Rated operational voltage Ue | Technical data according to IEC 60947-3:2021 | | | | |
| Rated operational current Ie | Utilization category | | | PV1 (DC-21B) | PV2 |
| Rated operational voltage (second rating) Ue | Rated operational voltage | Ue | V dc | 1500 | 1500 |
| Rated operational current (second rating) le | Rated operational current | le | Α | 15 | 6 |
| Rated operational voltage (third rating) Ue | Rated operational voltage (second rating) | Ue | V dc | 1250 | 1250 |
| Rated operational current (third rating) le | Rated operational current (second rating) | le | Α | 25 | 10 |
| Rated operational voltage (fourth rating) Ue | Rated operational voltage (third rating) | Ue | V dc | 1100 | 1100 |
| Rated operational current (fourth rating) Ie A 40 16 | Rated operational current (third rating) | le | Α | 30 | 12 |
| Rated operational voltage (fifth rating) Ue | Rated operational voltage (fourth rating) | Ue | V dc | 1000 | 1000 |
| Rated operational current (lifth rating) le | Rated operational current (fourth rating) | le | Α | 40 | 16 |
| Rated operational voltage (sixth rating) Ue | Rated operational voltage (fifth rating) | Ue | V dc | 800 | 800 |
| Rated operational current (sixth rating) Ie | Rated operational current (fifth rating) | le | Α | 50 | 20 |
| Rated thermal current | Rated operational voltage (sixth rating) | Ue | V dc | - | 700 |
| DC Poles | Rated operational current (sixth rating) | le | Α | - | 30 |
| Rated conditional short-circuit current RA | Rated thermal current | lth | Α | 50 | |
| Rated insulation voltage | DC Poles | | Nr. | 10 | |
| Rated impulse withstand voltage | Rated conditional short-circuit current | | kA | 5 | |
| Rated short-time withstand current (1 s) Icw A 780 Rated short-circuit making capacity Icm kA 1,4 Power loss per layer at 20 A / 50 A W 0,2 / 1,25 Maximum size of the fuse for the short-circuit protection gPV A 50 Mechanical characteristics Base mounting Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator Layers Nr. 12 Terminal screws orientation Head up External metal parts (screws, shaft) Stainless steel Cross-section of flexible/solid wires Max. Mm² 2x6 AWG 2x 10 Cross-section of wires with fork lug Max. Mm² 1x 16 AWG 1x 6 Minimum required fine wire cross-section: IEC 60947-1, table 9 Terminal screws type M4 - PH2 Terminal screws type M4 - PH2 Terminal screws tightening torque Nm 1,7 ±10% Net weight g 620 Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Rated insulation voltage | Ui | V dc | 1500 | |
| Icm kA | Rated impulse withstand voltage | Uimp | kV | 8 | |
| Power loss per layer at 20 A / 50 A W 0,2 / 1,25 | Rated short-time withstand current (1 s) | lcw | Α | 780 | |
| Maximum size of the fuse for the short-circuit protection gPV A 50 Mechanical characteristics Base mounting Type of mounting Base mounting Type of mounting Base mounting Base mounting Base mounting For direct operation With pre-mounted status indicator Layers Nr. 12 Terminal screws orientation Head up External metal parts (screws, shaft) Stainless steel Cross-section of flexible/solid wires Max. mm² 2x6 AWOG 2x10 Cross-section of flexible/solid wires Max. mm² 2x6 2x10 Cross-section of flexible/solid wires Max. mm² 2x6 2x10 Cross-section of flexible/solid wires Max. mm² 2x12 2x6 2x8 2x8 2x8 2x8 2x8 2x8 | Rated short-circuit making capacity | Icm | kA | 1,4 | |
| Base mounting Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator | Power loss per layer at 20 A / 50 A | | W | 0,2 / 1,25 | |
| Base mounting Back-side for DIN rail or 2 screws fixing Back-side for DIN rail or 2 screws fixing Back-side for DIN rail or 2 screws fixing For direct operation With pre-mounted status indicator | Maximum size of the fuse for the short-circuit protection | gPV | Α | 50 | |
| Back-side for DIN rail or 2 Screws fixing For direct operation With pre-mounted status indicator Unit pre-mounted status indicator With pre-mounted status indicator 12 | Mechanical characteristics | | | | |
| Terminal screws orientation Head up External metal parts (screws, shaft) Stainless steel Cross-section of flexible/solid wires Max. mm² AWG 2x 10 Cross-section of wires with fork lug Max. mm² AWG 1x 16 Minimum required fine wire cross-section: IEC 60947-1, table 9 M4 - PH2 Terminal screws type MMA - PH2 Terminal screws tightening torque Nm 1,7 ±10% Net weight g 620 Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions 2 Operational ambient temperature °C -30 ÷+50 Storage ambient temperature °C -30 ÷+85 | Type of mounting | | | Back-side for DIN rail or 2 screws fixing For direct operation | |
| External metal parts (screws, shaft) Stainless steel Cross-section of flexible/solid wires Max. mm² AWG 2x 10 Cross-section of wires with fork lug Max. mm² Max. 1x 16 Minimum required fine wire cross-section: IEC 60947-1, table 9 W4 – PH2 Terminal screws type M4 – PH2 Terminal screws tightening torque Nm 1,7 ±10% Net weight g 620 Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Layers | | Nr. | 12 | |
| Cross-section of flexible/solid wires Max. mm² AWG 2x 10 Cross-section of wires with fork lug Max. mm² Max. 1x 16 Cross-section of wires with fork lug Max. AWG 1x 6 Minimum required fine wire cross-section: IEC 60947-1, table 9 W4 – PH2 Terminal screws type M4 – PH2 Terminal screws tightening torque Nm 1,7 ±10% Net weight g 620 Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Terminal screws orientation | | | Head up | |
| Max. AWG 2x 10 | External metal parts (screws, shaft) | | | Stainless | steel |
| Cross-section of wires with fork lug Max. AWG 1x6 Minimum required fine wire cross-section: IEC 60947-1, table 9 M4 – PH2 Terminal screws type Nm 1,7 ±10% Net weight g 620 Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions Pollution degree ins. 2 Operational ambient temperature °C -30 ÷+50 Storage ambient temperature °C -30 ÷+85 | Cross-section of flexible/solid wires | Max. | | | |
| Terminal screws type M4 – PH2 Terminal screws tightening torque Nm 1,7 ±10% Net weight g 620 Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Cross-section of wires with fork lug | Max. | | | |
| Terminal screws tightening torque Nm 1,7 ±10% Net weight g 620 Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Minimum required fine wire cross-section: IEC 60947-1, table 9 |) | | | |
| Net weight g 620 Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Terminal screws type | | | M4 – PH2 | |
| Protection degree IEC 529 EN 60529 To the terminal IP20 Ambient conditions Pollution degree ins. Pollution ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Terminal screws tightening torque | | Nm | 1,7 ±10% | |
| To the terminal IP20 Ambient conditions 2 Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Net weight | | g | 620 | |
| Ambient conditions 2 Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Protection degree IEC 529 EN 60529 | | | | |
| Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | To the terminal | | | IP20 |) |
| Pollution degree ins. 2 Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | Ambient conditions | | | | |
| Operational ambient temperature °C -30 ÷ +50 Storage ambient temperature °C -30 ÷ +85 | | | | 2 | |
| Storage ambient temperature °C -30 ÷ +85 | | | °C | _ | |
| | | | | | |
| | Damp heat test IEC 60068-2-30 | | | 90-100% RH at +55 °C | |

Motor driven actuator

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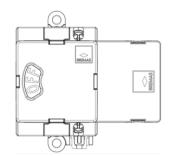
| Motor characteristics | | | | |
|------------------------------------|------|---|----------------------------------|--|
| Rated operational voltage | Ue | Ue V dc 24 ±5% | | |
| Rated operational current | le | le A 0,4 | | |
| Stall current | Max. | Α | 1,4 | |
| Free-load current | | A | 0,10 | |
| Free-load speed | Max. | rpm | 20 ±3 | |
| Rated load current | | A | 0,15 | |
| Rated load speed | | rpm | 17,6 ±2 | |
| Output power at Max. efficiency | | W | 1,55 | |
| Terminal type | | | Solder (supplied with wiring) | |
| Pre-soldered cables length | | mm | 300 | |
| Protection degree to the terminals | | | IP00* | |
| Operating features | | | | |
| Rotation direction | | Clockwise (90deg) | | |
| Position (status indicator) | | Rotary disc with static window at 09:00 o'clock | | |

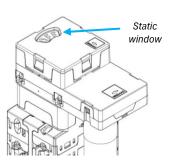
^{*} Pre soldered wiring with heat-shrink sheath

Status indicator



Rotary disc





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Product image



Screwdriver orientation for terminal fixing



Electrical Diagram

