Motor cable NEBM-M23G15-EH-7.5-Q9N-S1LEG21

FESTO

Part number: 8190889



General operating condition

Data sheet

| Electrical connection 1, function Electrical connection 1, design Round Electrical connection 1, connection type Hybrid socket Electrical connection 1, connection type Electrical connection 1, connection technology M23x1 Electrical connection 1, connection technology M23x1 Electrical connection 1, number of pins/wires 15 Electrical connection 1, occupied pins/wires 12 Electrical connection 1, type of mounting Snap-locking Electrical connection for input 1, connection pattern 00995912 Electrical connection for input 1, connection pattern Electrical connection 2, function Control side Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, connection technology Sub-D and open end Electrical connection 2, connection technology Electrical connection 2, occupied pins/wires 12 Electrical connection 2, occupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, connection pattern 00995641 DC operating voltage range 0V850 V Operating voltage range AC 0V630 V Operating voltage range AC 17.8 A Current rating at 40° C 17.8 A Surge resistance 6kV Shield yes Cable length 7.5 m Cable daracteristic Suitable for energy chains Connector cable test conditions Electrical connection 2, type of mounting Electrical connection | Feature | Value |
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| Product weight 1725 g Electrical connection 1, function Field device end Electrical connection 1, design Round Electrical connection 1, cabe outlet Straight Electrical connection 1, connection type Hybrid socket Electrical connection 1, connection technology M23x1 Electrical connection 1, connection technology M23x1 Electrical connection 1, number of pins/wires 15 Electrical connection 1, tournet of pins/wires 12 Electrical connection 1, type of mounting Snap-locking Electrical connection 1, type of mounting Snap-locking Electrical connection for input 1, connection pattern 00995912 Electrical connection 2, function Control side Electrical connection 2, connection type Cable Electrical connection 2, connection type Sub-D and open end Electrical connection 2, connection technology Sub-D and open end Electrical connection 2, corupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, vipe of mounting Inserted Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, type of mounting 10 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 3, cocupied pins/wires 12 Electrical connection 4, connection pattern 10 Electrical connection 5, cocupied pins/wires 12 Electrical connection 6, cocupied pins/wires 12 Electrical connection 6, cocupied pins/wires 12 Electrical connection 6, cocupied pins/wires 12 Electrical connection 7, cocupied pins/wires 12 Electrical connection 8, cocupied pins/wires 12 Electrical connection 8, cocupied pin | Based on norm | EN 61984 |
| Electrical connection 1, function Electrical connection 1, design Round Electrical connection 1, connection type Hybrid socket Electrical connection 1, connection type Electrical connection 1, connection technology M23x1 Electrical connection 1, connection technology M23x1 Electrical connection 1, number of pins/wires 15 Electrical connection 1, occupied pins/wires 12 Electrical connection 1, type of mounting Snap-locking Electrical connection for input 1, connection pattern 00995912 Electrical connection for input 1, connection pattern Electrical connection 2, function Control side Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, connection technology Sub-D and open end Electrical connection 2, connection technology Electrical connection 2, occupied pins/wires 12 Electrical connection 2, occupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, cocupied pins/wires 12 Electrical connection 2, connection pattern 00995641 DC operating voltage range 0V850 V Operating voltage range AC 0V630 V Operating voltage range AC 17.8 A Current rating at 40° C 17.8 A Surge resistance 6kV Shield yes Cable length 7.5 m Cable daracteristic Suitable for energy chains Connector cable test conditions Electrical connection 2, type of mounting Electrical connection | Cable designation | Without label holder |
| Electrical connection 1, design Electrical connection 1, connection type Electrical connection 1, connection type Electrical connection 1, connection technology Electrical connection 1, connection technology Electrical connection 1, connection pathen Electrical connection 1, number of pins/wires Electrical connection 1, occupied pins/wires Electrical connection 1, type of mounting Electrical connection 1, type of mounting Electrical connection 1, type of mounting Electrical connection 2, function Control side Electrical connection 2, function Electrical connection 2, connection type Cable Electrical connection 2, connection type Electrical connection 2, type of mounting Inserted Electrical connection 2, connection pattern DC operating voltage range OV 850 V Operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40°C 17.8 A Surge resistance 6 kV Shield yes Cable clangth 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation 51.2 mm Bending radius, fixed cable installation 6 mm Cable daimeter 12.8 mm Cable daimeter Cable daimeter tolerance 2.0.3 mm Cable daimeter tolerance 2.0.3 mm Cable daimeter tolerance 2.0.3 mm Cable daimeter tolerance Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section | Product weight | 1725 g |
| Electrical connection 1, connection type Electrical connection 1, cable outlet Electrical connection 1, cable outlet Electrical connection 1, connection technology Electrical connection 1, number of pins/wires Electrical connection 1, number of pins/wires Electrical connection 1, type of mounting Electrical connection 2, function Control side Electrical connection 2, function Electrical connection 2, connection type Cable Electrical connection 2, connection type Electrical connection 2, connection technology Electrical connection 2, connection technology Electrical connection 2, ocupied pins/wires Electrical connection 2, occupied pins/wires DC operating voltage range OV 850 V Operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40° C 17.8 A Surge resistance 6 kW Shield yes Cable length 7.5 m Cable elaracteristic Suitable for energy chains Connector cable test conditions Eest conditions on request Bending radius, fixed cable installation 9 mm Cable diameter 12.8 mm Cable diameter Cable diameter Cable diameter Cable diameter Cable diameter Cable diameter tolerance 4 0.15 mm² Nominal conductor cross section 0.15 mm² | Electrical connection 1, function | Field device end |
| Electrical connection 1, cable outlet Electrical connection 1, connection technology M23x1 Electrical connection 1, number of pins/wires 15 Electrical connection 1, occupied pins/wires 12 Electrical connection 1, type of mounting Electrical connection for input 1, connection pattern 00995912 Electrical connection 2, function Electrical connection 2, connection type Electrical connection 2, occupied pins/wires 12 Electrical connection 2, occupied pins/wires 12 Electrical connection 2, type of mounting Inserted Electrical connection 2, type of mounting Inserted Electrical connection 2, connection pattern 00995641 Coperating voltage range 0 V 850 V Operating voltage range AC 0 V 630 V Current rating at 40° C 17.8 A Surge resistance 6 kV Shield yes Cable length 7.5 m Cable length 7.5 m Cable length Cable characteristic Suitable for energy chains Fest conditions on request Bending radius, fixed cable installation 51.2 mm Bending radius, fixed cable installation 96 mm Cable diameter Cable diameter tolerance 20.3 mm Nominal conductor cross section O.15 mm² | Electrical connection 1, design | Round |
| Electrical connection 1, connection technology Electrical connection 1, number of pins/wires Electrical connection 1, occupied pins/wires 12 Electrical connection 1, type of mounting Electrical connection 1, type of mounting Electrical connection 2, function Electrical connection 2, function Control side Electrical connection 2, connection pattern Cable Electrical connection 2, connection type Cable Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, connection technology Electrical connection 2, connection pattern Electrical connection 2, connection pattern Description of the properties of the proper | Electrical connection 1, connection type | Hybrid socket |
| Electrical connection 1, number of pins/wires Electrical connection 1, occupied pins/wires Electrical connection 1, type of mounting Electrical connection 2, connection pattern Electrical connection 2, function Electrical connection 2, connection type Electrical connection 2, connection technology Sub-D and open end Electrical connection 2, number of pins/wires 21 Electrical connection 2, occupied pins/wires 12 Electrical connection 2, occupied pins/wires 12 Electrical connection 2, type of mounting Inserted Electrical connection 2, type of mounting Electrical connection 2, type of type | Electrical connection 1, cable outlet | Straight |
| Electrical connection 1, occupied pins/wires Electrical connection 1, type of mounting Electrical connection 2, function Electrical connection 2, function Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, connection technology Electrical connection 2, compaction technology Electrical connection 2, compaction technology Electrical connection 2, connection pins/wires Electrical connection 2, occupied pins/wires Electrical connection 2, connection pattern DO operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40° C Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation Sending radius, fixed cable installation Sending radius, flexible cable installation Cable diameter Cable diameter Cable diameter tolerance ± 0.3 mm Cable diameter tolerance 4 x 1.5 mm ² + 1 x (2 x 0.24 mm ² + 2 x 2 x 0.15 mm ²) Nominal conductor cross section | Electrical connection 1, connection technology | M23x1 |
| Electrical connection 1, type of mounting Electrical connection for input 1, connection pattern Electrical connection 2, function Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, cole outlet Electrical connection 2, connection technology Electrical connection 2, number of pins/wires Electrical connection 2, number of pins/wires Electrical connection 2, occupied pins/wires Electrical connection 2, type of mounting Inserted Electrical connection 2, type of mounting Electrical connection 2, the mounting type of mounting Electrical connection 2, the mounti | Electrical connection 1, number of pins/wires | 15 |
| Electrical connection for input 1, connection pattern Control side Electrical connection 2, function Electrical connection 2, connection type Electrical connection 2, cable outlet Electrical connection 2, connection technology Sub-D and open end Electrical connection 2, number of pins/wires Electrical connection 2, ocupied pins/wires Electrical connection 2, type of mounting Electrical connection 2, type of mounting Electrical connection 2, type of mounting Electrical connection 2, connection pattern Do operating voltage range Ov850 V Operating voltage range AC Ov630 V Current rating at 40° C Surge resistance 6 kV Shield yes Cable length 7,5 m Cable characteristic Suitable for energy chains Connector cable test conditions Bending radius, fixed cable installation Bending radius, fixed cable installation Bending radius, flexible cable installation Bending radius, flexible cable installation Bending radius, flexible cable installation Cable diameter Cable diameter tolerance \$\therefore \therefore \ | Electrical connection 1, occupied pins/wires | 12 |
| Electrical connection 2, function Electrical connection 2, connection type Electrical connection 2, connection type Electrical connection 2, cable outlet Electrical connection 2, connection technology Electrical connection 2, number of pins/wires Electrical connection 2, occupied pins/wires Electrical connection 2, occupied pins/wires Electrical connection 2, type of mounting Inserted Electrical connection 2, connection pattern DC operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40° C Electrical connection 2 connection 3 c | Electrical connection 1, type of mounting | Snap-locking |
| Electrical connection 2, connection type Electrical connection 2, cable outlet Electrical connection 2, connection technology Electrical connection 2, number of pins/wires Electrical connection 2, number of pins/wires Electrical connection 2, occupied pins/wires Electrical connection 2, type of mounting Electrical connection 2, type of mounting Electrical connection 2, connection pattern Do operating voltage range Ov850 V Operating voltage range AC Ov630 V Current rating at 40° C Electrical connection 2, connection pattern Operating ot late 40° C Electrical connection 3, connection pattern Operating voltage range Ov850 V Operating voltage range AC Ov630 V Electrical connection 2, type of mounting Electrical conne | Electrical connection for input 1, connection pattern | 00995912 |
| Electrical connection 2, cable outlet Electrical connection 2, connection technology Electrical connection 2, number of pins/wires Electrical connection 2, number of pins/wires Electrical connection 2, occupied pins/wires Electrical connection 2, type of mounting Electrical connection 2, type of mounting Electrical connection 2, connection pattern DC operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40° C Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation Electrical connection 2, occupied pins/wires 12.8 mm Cable diameter Cable diameter tolerance 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section Suitable for energy chains Confidence of the conditions of the co | Electrical connection 2, function | Control side |
| Electrical connection 2, connection technology Electrical connection 2, number of pins/wires Electrical connection 2, occupied pins/wires Electrical connection 2, type of mounting Electrical connection 2, type of mounting Electrical connection 2, connection pattern Dougheating voltage range Ov 850 V Operating voltage range AC Ov 630 V Current rating at 40° C Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Ending radius, fixed cable installation Ending radius, flexible cable installation Samm Cable diameter Cable diameter Cable design A x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section Suitable for means and the condition of th | Electrical connection 2, connection type | Cable |
| Electrical connection 2, number of pins/wires 21 Electrical connection 2, occupied pins/wires 12 Electrical connection 2, type of mounting Inserted Electrical connection 2, connection pattern 00995641 DC operating voltage range 0 V 850 V Operating voltage range AC 0 V 630 V Current rating at 40° C 17.8 A Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation 51.2 mm Bending radius, flexible cable installation 96 mm Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design 4x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Electrical connection 2, cable outlet | Straight |
| Electrical connection 2, occupied pins/wires Electrical connection 2, type of mounting Electrical connection 2, connection pattern DC operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40° C Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Bending radius, fixed cable installation Bending radius, flexible cable installation Bending radius, flexible cable installation Cable diameter Cable diameter Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section | Electrical connection 2, connection technology | Sub-D and open end |
| Electrical connection 2, type of mounting Electrical connection 2, connection pattern DC operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40° C Shield Yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Bending radius, fixed cable installation Bending radius, flexible cable installation Cable diameter Cable diameter Cable diameter tolerance 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section | Electrical connection 2, number of pins/wires | 21 |
| Electrical connection 2, connection pattern DC operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40° C Shield Ves Cable length Cable characteristic Connector cable test conditions Bending radius, fixed cable installation Bending radius, flexible cable installation Cable diameter Cable diameter Cable diameter Cable design A x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section | Electrical connection 2, occupied pins/wires | 12 |
| DC operating voltage range OV 850 V Operating voltage range AC OV 630 V Current rating at 40° C Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation Sending radius, flexible cable installation Bending radius, flexible cable installation Sending radius, flexible cable installation Cable diameter 12.8 mm Cable diameter Cable diameter tolerance ± 0.3 mm Cable design A x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section | Electrical connection 2, type of mounting | Inserted |
| Operating voltage range AC Current rating at 40° C Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation Bending radius, flexible cable installation 96 mm Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design A x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section | Electrical connection 2, connection pattern | 00995641 |
| Current rating at 40° C Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation 51.2 mm Bending radius, flexible cable installation 96 mm Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section | DC operating voltage range | 0 V 850 V |
| Surge resistance 6 kV Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation 51.2 mm Bending radius, flexible cable installation 96 mm Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design 4x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Operating voltage range AC | 0 V 630 V |
| Shield yes Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation 51.2 mm Bending radius, flexible cable installation 96 mm Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design 4x 1.5 mm ² + 1 x (2 x 0.75 mm ²) + 1 x (2 x 0.24 mm ² + 2 x 2 x 0.15 mm ²) Nominal conductor cross section 0.15 mm ² | Current rating at 40° C | 17.8 A |
| Cable length 7.5 m Cable characteristic Suitable for energy chains Connector cable test conditions Test conditions on request Bending radius, fixed cable installation 51.2 mm Bending radius, flexible cable installation 96 mm Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design 4x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Surge resistance | 6 kV |
| Cable characteristic Connector cable test conditions Est conditions on request Bending radius, fixed cable installation Bending radius, flexible cable installation Cable diameter Cable diameter tolerance 12.8 mm Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section Suitable for energy chains Test conditions on request 51.2 mm 96 mm 4 x 1.8 mm 4 x 1.5 mm² 4 x 1.5 mm² 0.15 mm² | Shield | yes |
| Connector cable test conditions Test conditions on request Bending radius, fixed cable installation Bending radius, flexible cable installation Pending radius, flexible cable installation Cable diameter Cable diameter tolerance 12.8 mm 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Cable length | 7.5 m |
| Bending radius, fixed cable installation 51.2 mm Bending radius, flexible cable installation 96 mm Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Cable characteristic | Suitable for energy chains |
| Bending radius, flexible cable installation Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Connector cable test conditions | Test conditions on request |
| Cable diameter 12.8 mm Cable diameter tolerance ± 0.3 mm Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Bending radius, fixed cable installation | 51.2 mm |
| Cable diameter tolerance ± 0.3 mm Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Bending radius, flexible cable installation | 96 mm |
| Cable design 4 x 1.5 mm² + 1 x (2 x 0.75 mm²) + 1 x (2 x 0.24 mm² + 2 x 2 x 0.15 mm²) Nominal conductor cross section 0.15 mm² | Cable diameter | 12.8 mm |
| Nominal conductor cross section 0.15 mm ² | Cable diameter tolerance | ± 0.3 mm |
| | Cable design | 4 x 1.5 mm ² + 1 x (2 x 0.75 mm ²) + 1 x (2 x 0.24 mm ² + 2 x 2 x 0.15 mm ²) |
| Wire ends Cable end sleeve | Nominal conductor cross section | 0.15 mm ² |
| | Wire ends | Cable end sleeve |

| Feature | Value |
|--|---|
| Degree of protection | IP20 IP67 |
| Note on degree of protection | In mounted state |
| Ambient temperature | -40 °C 90 °C |
| Ambient temperature with flexible cable installation | -25 °C 80 °C |
| Overvoltage category | III |
| CE marking (see declaration of conformity) | As per EU low voltage directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions To UK instructions for electrical equipment |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Note on materials | RoHS-compliant Halogen-free |
| Contamination level | 3 |
| Corrosion resistance class (CRC) | 1 - Low corrosion stress |
| Material of cable sheath | TPE-U(PUR) |
| Color cable sheath | Gray |
| Insulating sheath material | PP |