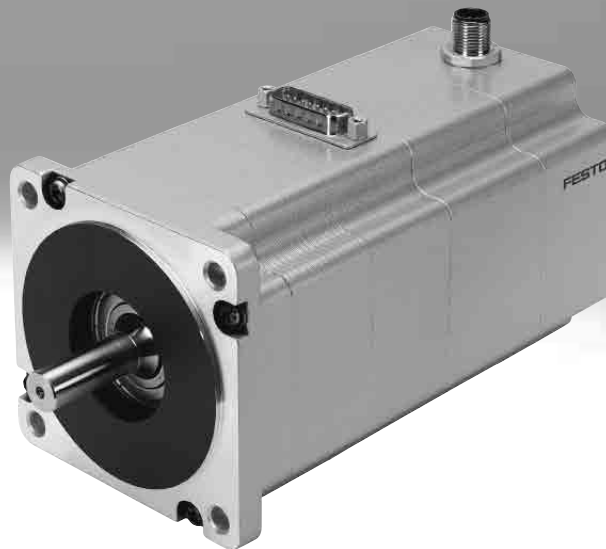


Stepper motors EMMS-ST

FESTO



Festo core product range
Covers 80% of your automation tasks

Worldwide:
Superb:
Easy:

Always in stock
Festo quality at an attractive price
Simplified procurement and warehousing

- ★ Generally ready for dispatch from the factory within 24 hours
In stock at 13 Service Centres worldwide
More than 2200 products
- ★ Generally ready for dispatch from the factory within 5 days
Assembled for you at 4 Service Centres worldwide
Up to 6×10^{12} variants per product family

Just look
for the
star!

Key features

Everything from a single source

Motors

→ Page 4



- Conforms to standard IEC 60034
- 2-phase hybrid technology
- Optionally integrated encoder (closed loop)
- Sinusoidal current injection
- Optionally with holding brake
- Degree of protection: IP54



Gear unit EMGA-SST

→ Page 13



- Planetary gear unit
- Gear ratio $i = 3, 5, 8, 12$
- Life-time lubrication
- Degree of protection: IP54

Servo drive CMMT-ST

→ Internet: cmmt-st



- Servo drive for operating stepper motors and brushless direct current motors
- Options for point-to-point and interpolating motion and for precise positioning
- Primary voltage from 24 ... 48 V DC
- Position controller
- Speed controller
- Force controller
- Range of control functions
- Interfaces:
 - EtherCAT
 - PROFINET RT/IRT
 - EtherNet/IP

Power supply units CACN

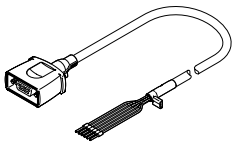
→ Internet: cacn



- Sturdy mechanical system
- Input voltage range 100 ... 240 V AC
- Output voltage 24, 48 V DC
- Output current 5, 10, 20 A

Motor and encoder cables

NEBM → Page 13



- Can be used in a wide temperature range
- Screened cables
- Suitable for energy chains
- Degree of protection IP65

Axial kits EAMM

→ Internet: eamm



- Specific kits for all electromechanical axes from Festo

Type codes

| 001 | Series |
|------|--------|
| EMMS | Motor |

| 002 | Motor type |
|-----|------------------|
| ST | Stepper motor ST |

| 003 | Flange size, motors |
|-----|---------------------|
| 28 | 28 |
| 42 | 42 |
| 57 | 57 |
| 87 | 87 |

| 004 | Length |
|-----|--------|
| S | Short |
| M | Centre |
| L | Long |

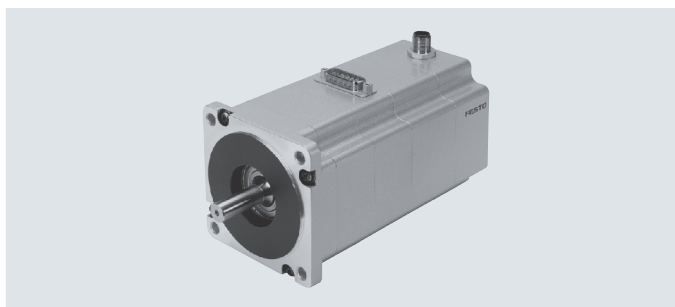
| 005 | Electrical connection |
|-----|-----------------------|
| S | Straight plug |

| 006 | Measuring unit |
|-----|----------------|
| | None |
| E | Encoder |

| 007 | Brake |
|-----|------------|
| | None |
| B | With brake |

| 008 | Generation |
|-----|----------------|
| | 1st generation |
| G2 | 2nd generation |

Data sheet



| General technical data | | | |
|-------------------------------------|-----------------------|----------------------------|----------------------------|
| Size | | 28 | 42 |
| Motor | | | |
| Nominal voltage | [V DC] | 48 | 48 |
| Nominal current | [A] | 1.4 | 1.8 |
| Max. rotational speed ¹⁾ | [rpm] | 6000 | 1740 |
| Holding torque | [Nm] | 0.09 | 0.5 |
| Voltage constant, phase | [mVmin] | 6 | 23 |
| Step angle | [°] | 1.8 ±5% | 1.8 ±5% |
| Winding resistance | [Ω] | 2.3 ±15% | 1.75 ±15% |
| Winding inductance | [mH] | 1.4 | 3.3 |
| Output moment of inertia | [kg cm ²] | 0.01 8/0.025 ²⁾ | 0.08 2/0.095 ²⁾ |
| Radial load on shaft | [N] | 20 | 20 |
| Axial load on shaft | [N] | 7 | 7 |
| Mass moment of inertia of rotor | [kgcm ²] | 0.018 | 0.082 |
| Brake | | | |
| Operating voltage | [V DC] | 24 ±10% | 24 ±10% |
| Power | [W] | 8 | 8 |
| Holding torque | [Nm] | 0.2 | 0.4 |
| Mass moment of inertia | [kgcm ²] | 0.007 | 0.013 |
| Response delay | [ms] | 2/6 | 2/6 |
| Separation time | [ms] | 10 | 10 |

1) Theoretical max. rotational speed while idling at nominal voltage

2) With brake

| Size | | 57-S | 57-M |
|-------------------------------------|-----------------------|--------------------------|-------------------------|
| Motor | | | |
| Nominal voltage | [V DC] | 48 | |
| Nominal current | [A] | 5 | |
| Max. rotational speed ¹⁾ | [rpm] | 2720 | 1940 |
| Holding torque | [Nm] | 0.8 | 1.4 |
| Voltage constant, phase | [mVmin] | 12 | 25.5 |
| Step angle | [°] | 1.8 ±5% | |
| Winding resistance | [Ω] | 0.15 ±10% | 0.25 ±10% |
| Winding inductance | [mH] | 0.5 | 0.95 |
| Output moment of inertia | [kg cm ²] | 0.2 9/0.30 ²⁾ | 0.4 8/0.5 ²⁾ |
| Radial load on shaft | [N] | 52 | |
| Axial load on shaft | [N] | 10 | |
| Mass moment of inertia of rotor | [kgcm ²] | 0.29 | 0.48 |
| Brake | | | |
| Operating voltage | [V DC] | 24 ±10% | |
| Power | [W] | 8 | 10 |
| Holding torque | [Nm] | 0.4 | 1 |
| Mass moment of inertia | [kgcm ²] | 0.01 | 0.02 |
| Response delay | [ms] | 2/6 | 2/6 |
| Separation time | [ms] | 10 | 12 |

1) Theoretical max. rotational speed while idling at nominal voltage

2) With brake

Data sheet

| General technical data | | 87-S | 87-M | 87-L |
|-------------------------------------|-----------------------|----------------------|------------------------|----------------------|
| Size | | | | |
| Motor | | | | |
| Nominal voltage | [V DC] | 48 | | |
| Nominal current | [A] | 9.5 | | |
| Max. rotational speed ¹⁾ | [rpm] | 2130 | 550 | 430 |
| Holding torque | [Nm] | 2.5 | 5.9 | 9.3 |
| Voltage constant, phase | [mVmin] | 19 | 68.6 | 77.2 |
| Step angle | [°] | 1.8 ±5% | | |
| Winding resistance | [Ω] | 0.1 ±10% | 0.23 ±10% | 0.23 ±10% |
| Winding inductance | [mH] | 0.45 | 2.6 | 2.7 |
| Output moment of inertia | [kg cm ²] | 1/1.07 ²⁾ | 1.9/1.97 ²⁾ | 3/3.07 ²⁾ |
| Radial load on shaft | [N] | 200 | | |
| Axial load on shaft | [N] | 65 | | |
| Mass moment of inertia of rotor | [kgcm ²] | 1 | 1.9 | 3 |
| Brake | | | | |
| Operating voltage | [V DC] | 24 ±10% | | |
| Power | [W] | 11 | | |
| Holding torque | [Nm] | 2 | | |
| Mass moment of inertia | [kgcm ²] | 0.07 | | |
| Response/Release delay | [ms] | 2/6 | 2/6 | 2/6 |
| Separation time | [ms] | 25 | | |

1) Theoretical max. rotational speed while idling at nominal voltage

2) With brake

| Technical data – Encoder | | |
|--|---------|------------------------------------|
| Rotor position encoder | | Incremental |
| Rotor position encoder measuring principle | | Optical |
| Pulses/revolution | [1/rev] | 500 |
| Interface | | RS422, TTL, AB channel, zero index |
| Operating voltage | [V DC] | 5 |

| Weights [g] | | 28 | 42 | 57-S | 57-M | 87-S | 87-M | 87-L |
|------------------------|--|-----|-----|------|------|------|------|------|
| Product weight | | 268 | 360 | 870 | 1100 | 1950 | 3050 | 4200 |
| With encoder | | 295 | 450 | 970 | 1200 | 2100 | 3200 | 4350 |
| With brake | | 356 | 540 | 1090 | 1320 | 2350 | 3450 | 4600 |
| With encoder and brake | | 383 | 600 | 1150 | 1380 | 2500 | 3600 | 5000 |

| Operating and environmental conditions | | 28 | 42 | 57-S | 57-M | 87-S | 87-M | 87-L |
|--|------|--|----|------|------|------|------|------|
| Insulation class | | B | | | | | | |
| Thermal class to EN 60034-1 | | B | | | | | | |
| Rating class to EN 60034-1 | | S1 | | | | | | |
| Degree of protection: motor shaft | | IP40 | | | | | | |
| Degree of protection: motor housing | | IP65 | | IP54 | | | | |
| Ambient temperature | [°C] | -10 ... +50 | | | | | | |
| Storage temperature | [°C] | -20 ... +70 | | | | | | |
| Relative humidity (non-condensing) | [%] | 0 ... 85 | | | | | | |
| CE marking (see declaration of conformity) | | To EU EMC Directive ¹⁾ | | | | | | |
| UKCA marking (see declaration of conformity) | | UK instructions for EMC UK RoHS instructions | | | | | | |
| Certification | | c UL us - Recognized (OL) RCM compliance mark | | | | | | |
| PWIS conformity | | VDMA24364-B2-L | | | | | | |
| Note on materials | | RoHS-compliant | | | | | | |

1) For information about the area of use, see the EC declaration of conformity: www.festo.com/sp → Certificates.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Data sheet

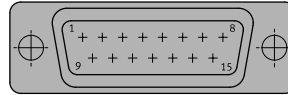
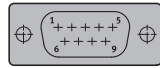
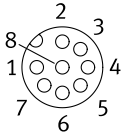
Pin allocation

Motor connection

Size 28

Size 42, 57

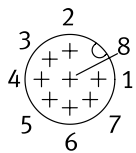
Size 87



| PIN | Function |
|-----|--------------|
| 1 | String A |
| 2 | String A/ |
| 3 | String B |
| 4 | String B/ |
| 5 | n. c. |
| 6 | n. c. |
| 7 | Brake (24 V) |
| 8 | Brake (0 V) |
| 9 | - |

| PIN | Function |
|-----|--------------|
| 1 | String A |
| 2 | String A |
| 3 | String A/ |
| 4 | String A/ |
| 5 | String B |
| 6 | String B |
| 7 | String B/ |
| 8 | String B/ |
| 9 | n. c. |
| 10 | n. c. |
| 11 | Brake (24 V) |
| 12 | Brake (0 V) |
| 13 | n. c. |
| 14 | n. c. |
| 15 | n. c. |

Encoder connection

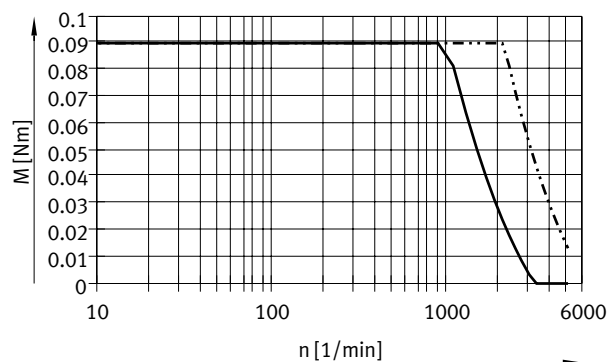


| PIN | Function |
|-----|-----------------|
| 1 | Signal trace A |
| 2 | Signal trace A/ |
| 3 | Signal trace B |
| 4 | Signal trace B/ |
| 5 | 0 V |
| 6 | Signal trace N |
| 7 | Signal trace N/ |
| 8 | 5 V |

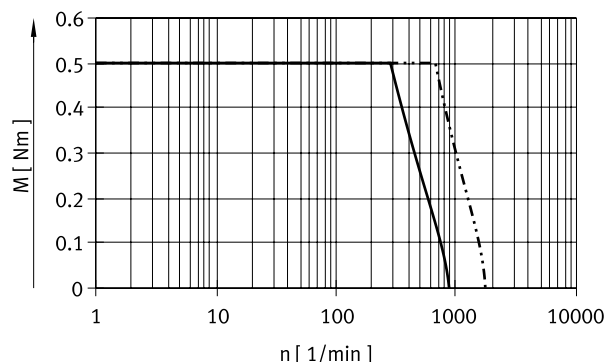
Data sheet

Torque M as a function of rotational speed n

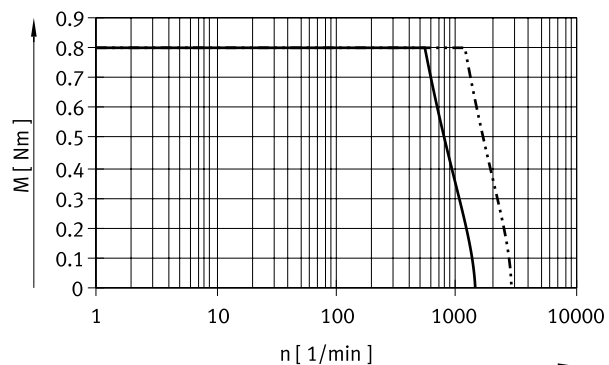
EMMS-ST-28



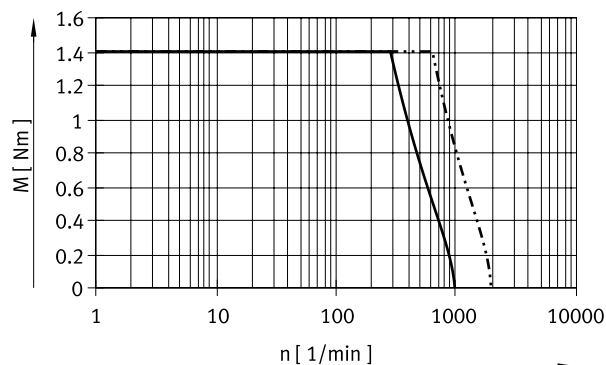
EMMS-ST-42



EMMS-ST-57-S



EMMS-ST-57-M



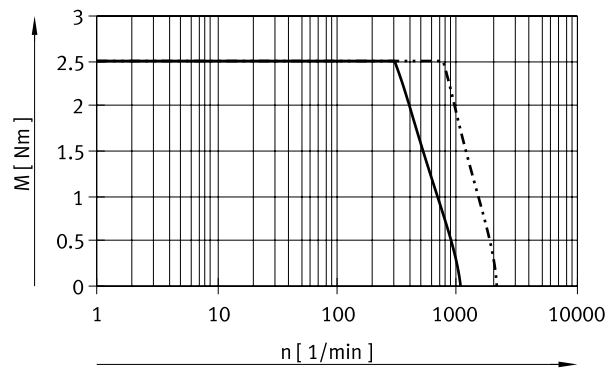
— 24 V DC
 - - - 48 V DC

Note
 Typical motor characteristic curves
 (typical production tolerances ±20%)
 with nominal voltage and optimal
 motor controller.

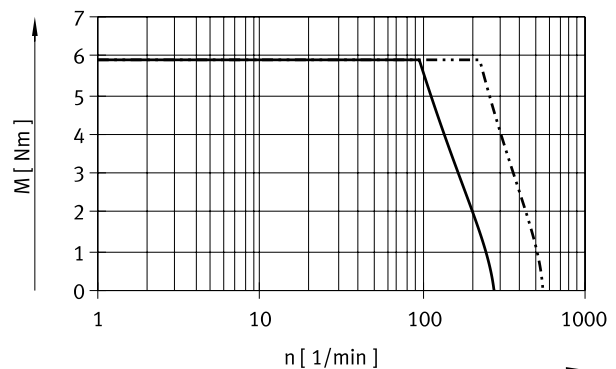
Data sheet

Torque M as a function of rotational speed n

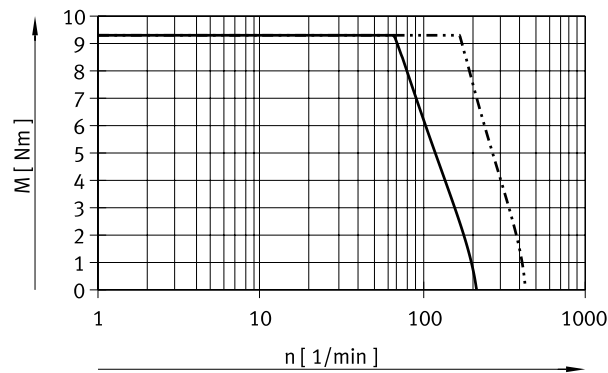
EMMS-ST-87-S



EMMS-ST-87-M



EMMS-ST-87-L



— 24 V DC
 - - - 48 V DC

Note

Typical motor characteristic curves (typical production tolerances $\pm 20\%$) with nominal voltage and optimal motor controller.

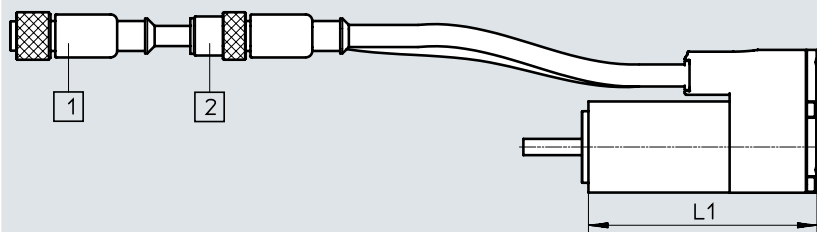
Data sheet

Dimensions

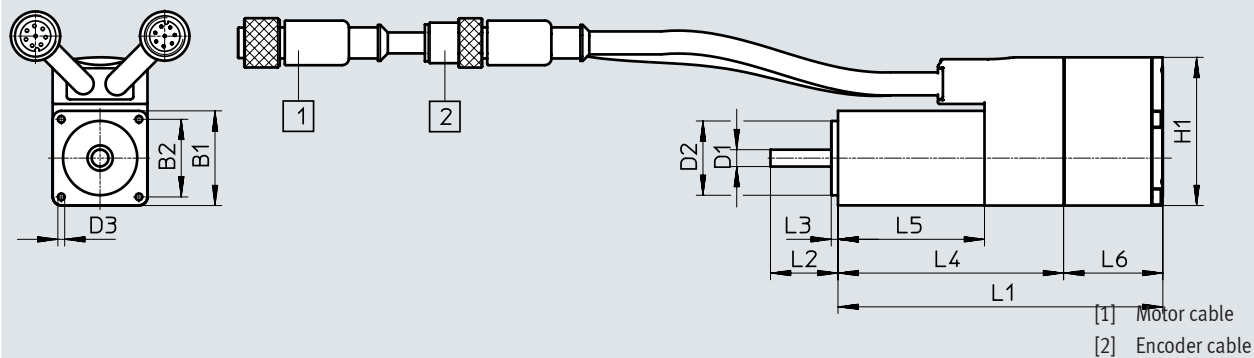
Download CAD data → www.festo.com

Size 28

EMMS-ST...-S/SE



EMMS-ST...-SB/SEB



| Type | B1 | B2 | D1 ∅ | D2 ∅ | D3 | H1 |
|-----------------|----|------|---------|---------|----------|----|
| | ±1 | ±0.2 | -0.013 | -0.03 | | |
| EMMS-ST-28-LS | 28 | 23 | 5 | 22 | M2.5x4.5 | 44 |
| EMMS-ST-28-LSE | | | | | | |
| EMMS-ST-28-LSB | | | | | | |
| EMMS-ST-28-LSEB | | | | | | |

| Type | L1 | L2 | L3 | L4 | L5 | L6 |
|-----------------|--------|----|----|----|----|------|
| | | ±1 | | ±1 | ±1 | ±0.5 |
| EMMS-ST-28-LS | 70±1 | 20 | 2 | 67 | 43 | - |
| EMMS-ST-28-LSE | | | | | | |
| EMMS-ST-28-LSB | 96±1.5 | | | | | 29 |
| EMMS-ST-28-LSEB | | | | | | |

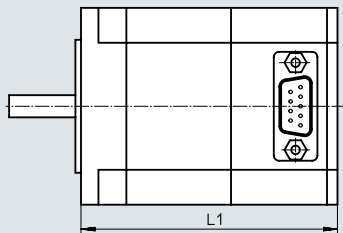
Data sheet

Dimensions

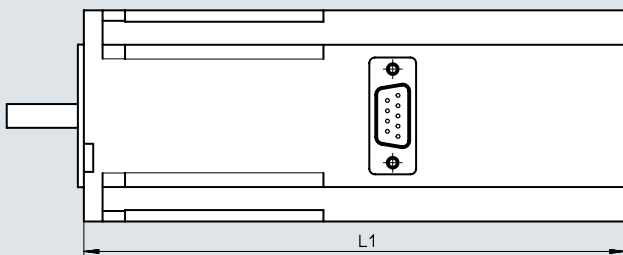
Download CAD data → www.festo.com

Size 42, 57, 87

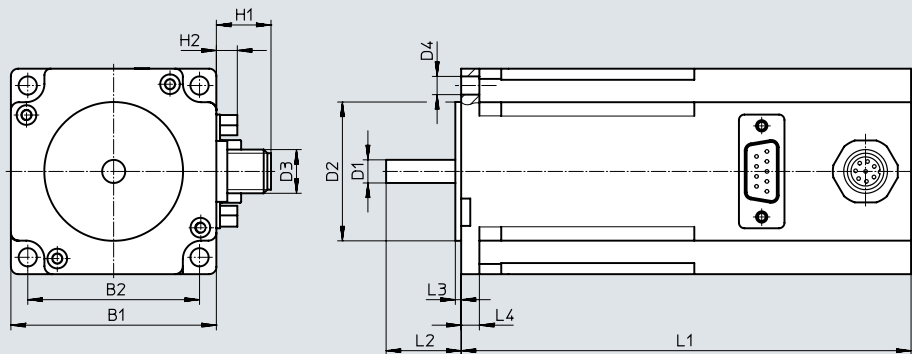
EMMS-ST...S



EMMS-ST...SB



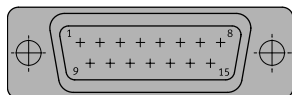
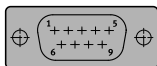
EMMS-ST...SE/SEB



Plug pattern

9-pin Sub-D plug
for size 42, 57

15-pin Sub-D plug
for size 87

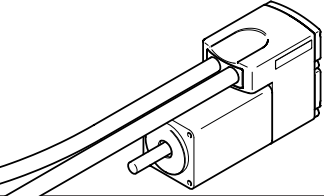
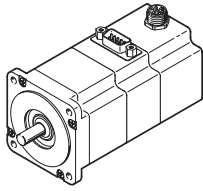


Data sheet

| Type | B1 | B2 ±0.2 | D1 ∅ | D2 ∅ | D3 | D4 ∅ |
|---------------------|-------|------------|------------|------------|-----|---------|
| EMMS-ST-42-S-S-G2 | 42.3 | 31 | 5-0.012 | 22-0.05 | - | M3x4.5 |
| EMMS-ST-42-S-SE-G2 | | | | | M12 | |
| EMMS-ST-42-S-SB-G2 | | | | | - | |
| EMMS-ST-42-S-SEB-G2 | | | | | M12 | |
| EMMS-ST-57-S-S-G2 | 56.4 | 47.14 | 6.35-0.013 | 38.1±0.025 | - | 5 |
| EMMS-ST-57-S-SE-G2 | | | | | M12 | |
| EMMS-ST-57-S-SB-G2 | | | | | - | |
| EMMS-ST-57-S-SEB-G2 | | | | | M12 | |
| EMMS-ST-57-M-S-G2 | | | | | - | |
| EMMS-ST-57-M-SE-G2 | | | | | M12 | |
| EMMS-ST-57-M-SB-G2 | - | | | | | |
| EMMS-ST-57-M-SEB-G2 | M12 | | | | | |
| EMMS-ST-87-S-S-G2 | 85.85 | 69.5 | 11-0.013 | 73-0.046 | - | 6.6 |
| EMMS-ST-87-S-SE-G2 | | | | | M12 | |
| EMMS-ST-87-S-SB-G2 | | | | | - | |
| EMMS-ST-87-S-SEB-G2 | | | | | M12 | |
| EMMS-ST-87-M-S-G2 | | | | | - | |
| EMMS-ST-87-M-SE-G2 | | | | | M12 | |
| EMMS-ST-87-M-SB-G2 | | | | | - | |
| EMMS-ST-87-M-SEB-G2 | | | | | M12 | |
| EMMS-ST-87-L-S-G2 | | | | | - | |
| EMMS-ST-87-L-SE-G2 | | | | | M12 | |
| EMMS-ST-87-L-SB-G2 | | | | | - | |
| EMMS-ST-87-L-SEB-G2 | | | | | M12 | |

| Type | H1 | H2 | L1 | L2 | L3 | L4 |
|---------------------|----|-----------|-----------|----------|-----|------|
| EMMS-ST-42-S-S-G2 | - | 6.5 | 66±1 | 24±1 | 2 | - |
| EMMS-ST-42-S-SE-G2 | 13 | | 94±1.2 | | | |
| EMMS-ST-42-S-SB-G2 | - | | 114±1.3 | | | |
| EMMS-ST-42-S-SEB-G2 | 13 | | 127±1.3 | | | |
| EMMS-ST-57-S-S-G2 | - | 6.5 | 73.5±0.8 | 20.6±0.5 | 1.6 | 5 |
| EMMS-ST-57-S-SE-G2 | 13 | | 102.5±1.1 | | | |
| EMMS-ST-57-S-SB-G2 | - | | 123.5±1.1 | | | |
| EMMS-ST-57-S-SEB-G2 | 13 | | 138±1.1 | | | |
| EMMS-ST-57-M-S-G2 | - | | 95±0.8 | | | |
| EMMS-ST-57-M-SE-G2 | 13 | | 124±1.1 | | | |
| EMMS-ST-57-M-SB-G2 | - | 145±1.1 | | | | |
| EMMS-ST-57-M-SEB-G2 | 13 | 159.5±1.1 | | | | |
| EMMS-ST-87-S-S-G2 | - | 6.5 | 82.6±1 | 27±1 | 2 | 8.38 |
| EMMS-ST-87-S-SE-G2 | 13 | | 112.6±1.3 | | | |
| EMMS-ST-87-S-SB-G2 | - | | 132.6±1.3 | | | |
| EMMS-ST-87-S-SEB-G2 | 13 | | 152.6±1.3 | | | |
| EMMS-ST-87-M-S-G2 | - | | 114.9±1 | | | |
| EMMS-ST-87-M-SE-G2 | 13 | | 144.9±1.3 | | | |
| EMMS-ST-87-M-SB-G2 | - | | 164.9±1.3 | | | |
| EMMS-ST-87-M-SEB-G2 | 13 | | 184.9±1.3 | | | |
| EMMS-ST-87-L-S-G2 | - | | 144.9±1 | | | |
| EMMS-ST-87-L-SE-G2 | 13 | | 174.9±1.3 | | | |
| EMMS-ST-87-L-SB-G2 | - | | 194.9±1.3 | | | |
| EMMS-ST-87-L-SEB-G2 | 13 | | 214.9±1.3 | | | |

Data sheet

| Ordering data | Size | Variant | | | Part no. | Type |
|---|------|------------|--------------|------------|---------------------|---------------------|
| | | Basic type | With encoder | With brake | | |
|  | 28 | ■ | | | ☆ 1451384 | EMMS-ST-28-L-S |
| | | | ■ | | ☆ 1430663 | EMMS-ST-28-L-SE |
| | | | | ■ | ☆ 1451383 | EMMS-ST-28-L-SB |
| | | | ■ | ■ | ☆ 1451382 | EMMS-ST-28-L-SEB |
|  | 42 | ■ | | | ☆ 1370470 | EMMS-ST-42-S-S-G2 |
| | | | ■ | | ☆ 1370471 | EMMS-ST-42-S-SE-G2 |
| | | | | ■ | ☆ 1370472 | EMMS-ST-42-S-SB-G2 |
| | | | ■ | ■ | ☆ 1370473 | EMMS-ST-42-S-SEB-G2 |
| | 57 | ■ | | | ☆ 1370474 | EMMS-ST-57-S-S-G2 |
| | | | ■ | | ☆ 1370475 | EMMS-ST-57-S-SE-G2 |
| | | | | ■ | ☆ 1370476 | EMMS-ST-57-S-SB-G2 |
| | | | ■ | ■ | ☆ 1370477 | EMMS-ST-57-S-SEB-G2 |
| | | ■ | | | ☆ 1370478 | EMMS-ST-57-M-S-G2 |
| | | | ■ | | ☆ 1370479 | EMMS-ST-57-M-SE-G2 |
| | | | | ■ | ☆ 1370480 | EMMS-ST-57-M-SB-G2 |
| | | | ■ | ■ | ☆ 1370481 | EMMS-ST-57-M-SEB-G2 |
| | 87 | ■ | | | ☆ 1370482 | EMMS-ST-87-S-S-G2 |
| | | | ■ | | ☆ 1370483 | EMMS-ST-87-S-SE-G2 |
| | | | | ■ | ☆ 1370484 | EMMS-ST-87-S-SB-G2 |
| | | | ■ | ■ | ☆ 1370485 | EMMS-ST-87-S-SEB-G2 |
| ■ | | | | ☆ 1370486 | EMMS-ST-87-M-S-G2 | |
| | | ■ | | ☆ 1370487 | EMMS-ST-87-M-SE-G2 | |
| | | | ■ | ☆ 1370488 | EMMS-ST-87-M-SB-G2 | |
| | | ■ | ■ | ☆ 1370489 | EMMS-ST-87-M-SEB-G2 | |
| ■ | | | | ☆ 1370490 | EMMS-ST-87-LS-G2 | |
| | | ■ | | ☆ 1370491 | EMMS-ST-87-L-SE-G2 | |
| | | | ■ | ☆ 1370493 | EMMS-ST-87-L-SB-G2 | |
| | | ■ | ■ | ☆ 1370494 | EMMS-ST-87-L-SEB-G2 | |

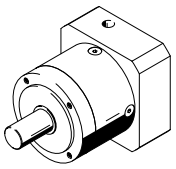
Festo core product range

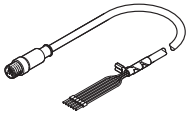
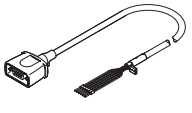
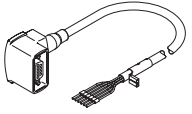


Generally ready for dispatch from the factory within 24 hours

Generally ready for dispatch from the factory within 5 days

Accessories

| Ordering data – Gear unit | | Data sheets → Internet: emga | | |
|---|------------|------------------------------|----------|----------------------|
| | For motor | Gear ratio | Part no. | Type |
|  | EMMS-ST-42 | 3 | ☆ 549428 | EMGA-40-P-G3-SST-42 |
| | | 5 | ☆ 549429 | EMGA-40-P-G5-SST-42 |
| | | 8 | 8141762 | EMGA-40-P-G8-SST-42 |
| | | 12 | 8141763 | EMGA-40-P-G12-SST-42 |
| | EMMS-ST-57 | 3 | ☆ 549430 | EMGA-60-P-G3-SST-57 |
| | | 5 | ☆ 549431 | EMGA-60-P-G5-SST-57 |
| | | 8 | 8141764 | EMGA-60-P-G8-SST-57 |
| | | 12 | 8141765 | EMGA-60-P-G12-SST-57 |
| | EMMS-ST-87 | 3 | ☆ 549432 | EMGA-80-P-G3-SST-87 |
| | | 5 | ☆ 549433 | EMGA-80-P-G5-SST-87 |
| | | 8 | 8141766 | EMGA-80-P-G8-SST-87 |
| | | 12 | 8141767 | EMGA-80-P-G12-SST-87 |

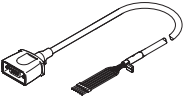
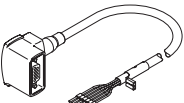
| Ordering data | | Description | Cable length [m] | Part no. | Type |
|---|--|-------------|--------------------------|-----------|--------------------------|
| Motor cable | | | | | |
| For EMMS-ST-28 and motor controller CMMT-ST | | | | | |
|  | Straight plug | | | | |
| | <ul style="list-style-type: none"> • Min. bending radius: 62 mm • Suitable for energy chains • Ambient temperature: -40 ... +80°C | | 1.5 | ☆ 1449600 | NEBM-SM12G8-E-1.5-Q5-LE6 |
| | | | 2.5 | ☆ 1449601 | NEBM-SM12G8-E-2.5-Q5-LE6 |
| | | | 5.0 | ☆ 1449602 | NEBM-SM12G8-E-5-Q5-LE6 |
| | | | 7.0 | ☆ 1449603 | NEBM-SM12G8-E-7-Q5-LE6 |
| | | | 10.0 | ☆ 1449604 | NEBM-SM12G8-E-10-Q5-LE6 |
| | X length ¹⁾ | 1449605 | NEBM-SM12G8-E-...-Q5-LE6 | | |
| For EMMS-ST-4 2/57 and motor controller CMMT-ST/CMMS-ST | | | | | |
|  | Straight plug | | | | |
| | <ul style="list-style-type: none"> • Min. bending radius: 62 mm • Suitable for energy chains • Ambient temperature: -40 ... +80°C | | 1.5 | ☆ 1450368 | NEBM-S1G9-E-1.5-Q5-LE6 |
| | | | 2.5 | ☆ 1450369 | NEBM-S1G9-E-2.5-Q5-LE6 |
| | | | 5.0 | ☆ 1450370 | NEBM-S1G9-E-5-Q5-LE6 |
| | | | 7.0 | ☆ 1450371 | NEBM-S1G9-E-7-Q5-LE6 |
| | | | 10.0 | ☆ 1450372 | NEBM-S1G9-E-10-Q5-LE6 |
| | X length ¹⁾ | 1450373 | NEBM-S1G9-E-...-Q5-LE6 | | |
|  | Angled plug | | | | |
| | <ul style="list-style-type: none"> • Min. bending radius: 62 mm • Suitable for energy chains • Ambient temperature: -40 ... +80°C | | 1.5 | ☆ 1450736 | NEBM-S1W9-E-1.5-Q5-LE6 |
| | | | 2.5 | ☆ 1450737 | NEBM-S1W9-E-2.5-Q5-LE6 |
| | | | 5.0 | ☆ 1450738 | NEBM-S1W9-E-5-Q5-LE6 |
| | | | 7.0 | ☆ 1450739 | NEBM-S1W9-E-7-Q5-LE6 |
| | | | 10.0 | ☆ 1450740 | NEBM-S1W9-E-10-Q5-LE6 |
| | X length ¹⁾ | 1450741 | NEBM-S1W9-E-...-Q5-LE6 | | |

1) Maximum 25 m. Available in 0.1 m increments.

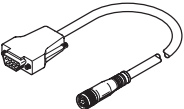
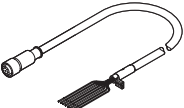
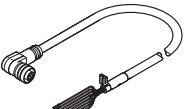
Festo core product range

- ★ Generally ready for dispatch from the factory within 24 hours
- ☆ Generally ready for dispatch from the factory within 5 days


Accessories

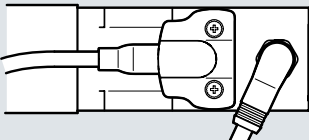
| Ordering data | Description | Cable length [m] | Part no. | Type |
|--|--|------------------------|-----------|-------------------------|
| Motor cable | | | | |
| For EMMS-ST-87 and motor controller CMMT-ST/CMMS-ST | | | | |
|  | Straight plug • Min. bending radius: 80 mm • Suitable for energy chains • Ambient temperature: -40 ... +80°C | 1.5 | ★ 1450834 | NEBM-S1G15-E-1.5-Q7-LE6 |
| | | 2.5 | ★ 1450835 | NEBM-S1G15-E-2.5-Q7-LE6 |
| | | 5.0 | ★ 1450836 | NEBM-S1G15-E-5-Q7-LE6 |
| | | 7.0 | ★ 1450837 | NEBM-S1G15-E-7-Q7-LE6 |
| | | 10.0 | ★ 1450838 | NEBM-S1G15-E-10-Q7-LE6 |
| | | X length ¹⁾ | 1450839 | NEBM-S1G15-E-...-Q7-LE6 |
|  | Angled plug • Min. bending radius: 80 mm • Suitable for energy chains • Ambient temperature: -40 ... +80°C | 1.5 | ★ 1450943 | NEBM-S1W15-E-1.5-Q7-LE6 |
| | | 2.5 | ★ 1450944 | NEBM-S1W15-E-2.5-Q7-LE6 |
| | | 5.0 | ★ 1450945 | NEBM-S1W15-E-5-Q7-LE6 |
| | | 7.0 | ★ 1450946 | NEBM-S1W15-E-7-Q7-LE6 |
| | | 10.0 | ★ 1450947 | NEBM-S1W15-E-10-Q7-LE6 |
| | | X length ¹⁾ | 1450948 | NEBM-S1W15-E-...-Q7-LE6 |

1) Maximum 25 m. Available in 0.1 m increments.

| Ordering data | Description | Cable length [m] | Part no. | Type |
|--|--|-------------------------------------|-----------|-----------------------|
| Encoder cable | | | | |
| For motor controller CMMS-ST | | | | |
|  | Straight plug • Min. bending radius: 51 mm • Suitable for energy chains • Ambient temp.: -40 ... +70°C | 5.0 | ★ 550748 | NEBM-M12G8-E-5-S1G9 |
| | | 10.0 | ★ 550749 | NEBM-M12G8-E-10-S1G9 |
| | | 15.0 | ★ 550750 | NEBM-M12G8-E-15-S1G9 |
| | | X length ¹⁾ | 550751 | NEBM-M12G8-E-...-S1G9 |
| | | For motor controller CMMT-ST | | |
|  | Straight plug • Min. bending radius: 68 mm • Suitable for energy chains • Ambient temperature: -40 ... +80°C | 1.5 | ★ 1451586 | NEBM-M12G8-E-1.5-LE8 |
| | | 2.5 | ★ 1451587 | NEBM-M12G8-E-2.5-LE8 |
| | | 5.0 | ★ 1451588 | NEBM-M12G8-E-5-LE8 |
| | | 7.0 | ★ 1451589 | NEBM-M12G8-E-7-LE8 |
| | | 10.0 | ★ 1451590 | NEBM-M12G8-E-10-LE8 |
| | | X length ¹⁾ | 1451591 | NEBM-M12G8-E-...-LE8 |
|  | Angled plug • Min. bending radius: 68 mm • Suitable for energy chains • Ambient temperature: -40 ... +80°C | 1.5 | ★ 1451674 | NEBM-M12W8-E-1.5-LE8 |
| | | 2.5 | ★ 1451675 | NEBM-M12W8-E-2.5-LE8 |
| | | 5.0 | ★ 1451676 | NEBM-M12W8-E-5-LE8 |
| | | 7.0 | ★ 1451677 | NEBM-M12W8-E-7-LE8 |
| | | 10.0 | ★ 1451678 | NEBM-M12W8-E-10-LE8 |
| | | X length ¹⁾ | 1451679 | NEBM-M12W8-E-...-LE8 |

1) Maximum 25 m. Available in 0.1 m increments.

 **Note**
 Angled cables and leads can protrude into the area of the axis/drive!



Festo core product range

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- ★ Generally ready for dispatch from the factory within 5 days

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