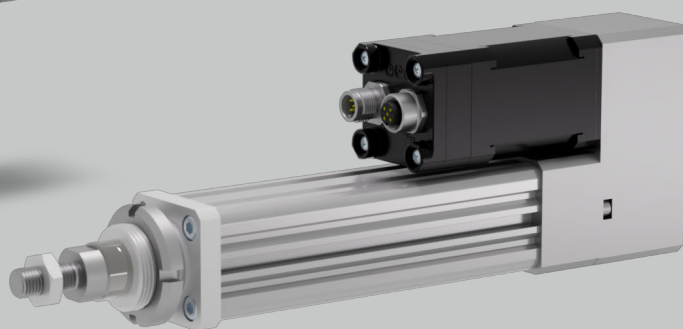
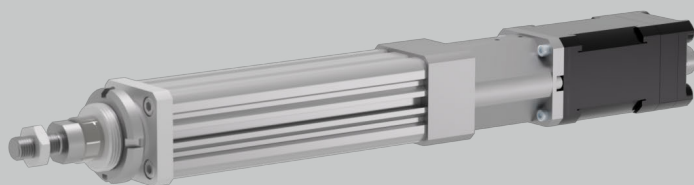


# CILINDRI ELETTRICI

Compatibili ISO  
Da alesaggio 25 a 80  
Spinta fino a 12000N

Versione diretta  
Versione rinviata

| Response | Percentage |
|----------|------------|
| Yes      | 75%        |
| No       | 25%        |

| Motor       |      | A     |
|-------------|------|-------|
| M42SH33-Txx |      | 55,54 |
| M42SH47-Txx | 0,82 | 69,90 |
| M42SH60-Txx | 23   | 81,70 |

### Montaggio motore rinviato

Technical drawing of the M125-2000 motor assembly, showing side and front views with dimensions.

**Side View Dimensions:**

- Overall length: 204,50 + corsa / stroke
- Distance from mounting bracket to motor body: 22
- Distance from mounting bracket to lubrication hole: 125,50 + corsa / stroke
- Distance from mounting bracket to motor body: 20
- Distance from mounting bracket to motor body: 41
- Mounting bracket dimensions: 32,50 (height), 4 x M6 (mounting holes)
- Motor body dimensions: 21 (height), 20 (width)
- Motor body mounting holes: M10 x 1,25
- Motor body mounting holes: M30 x 1,5
- Motor body mounting holes: 125,50 + corsa / stroke

**Front View Dimensions:**

- Overall width: 42
- Overall height: 85,50
- Motor body mounting holes: Ø 17
- Motor body mounting holes: Ø 20

### Montaggio motore diretto

Technical drawing illustrating the dimensions for the direct motor assembly. The drawing shows a side view and two end views.

**Side View Dimensions:**

- Thread: M10 x 1.25
- Thread: M30 x 1.5
- Dimension: 20
- Dimension: 125,50 + corsa / stroke
- Dimension: 53
- Dimension: 22
- Dimension: 38
- Dimension: A
- Feature: Foro per lubrificazione / Lubrication hole

**End View Dimensions:**

- Dimension: 42
- Feature: R21

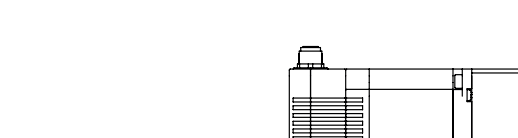
| Motor       | CILINDRO DIRETTO<br>Massa corsa 0 (gr) | CILINDRO RIVIATO<br>Massa corsa 0 (gr) | Massa per mm di corsa<br>(gr/mm) |
|-------------|----------------------------------------|----------------------------------------|----------------------------------|
| M42SH33-Txx | 635                                    | 1110                                   | 3,5                              |
| M42SH47-Txx | 725                                    | 1200                                   | 3,5                              |
| M42SH60-Txx | 905                                    | 1380                                   | 3,5                              |

\* Massimo carico applicabile al cilindro, indipendente dalla coppia del motore

| Modello          | Passo vite | Tipo vite             | Max carico<br>dinamico * | Max carico<br>statico * | Antirotazione | Precisione di<br>posizio-<br>namento | Ripetibilità | Gioco<br>assiale<br>massimo | Forza max<br>spinta/tiro * |
|------------------|------------|-----------------------|--------------------------|-------------------------|---------------|--------------------------------------|--------------|-----------------------------|----------------------------|
|                  | mm         |                       | N                        | N                       |               | mm                                   | mm           | mm                          | N                          |
| <b>IEC025xxx</b> | 10         | ricircolo di<br>sfere | 2500                     | 3900                    | ●             | ±0,02                                | ±0,01        | ±0,02                       | 210                        |

● = Standard  
○ = Su richiesta

## Corse cilindri



Technical drawing of a cylinder assembly. The drawing shows a side view of the cylinder with a piston rod and a piston head. The dimensions are indicated as follows:

- 24: Distance from the mounting bracket to the center of the piston rod.
- 30: Distance from the center of the piston rod to the center of the piston head.
- $B + \text{corsa} / \text{stroke}$ : Total length of the cylinder assembly.

● = Standard  
○ = Su richiesta

### Grafico forza / velocità

Motore M42SH60 - Tensione di alimentazione 24Vdc

| Velocità uscita / rientro stelo [m/sec] | Forza spinta o tiro [kN] |
|-----------------------------------------|--------------------------|
| 0.00                                    | 0.30                     |
| 0.02                                    | 0.22                     |
| 0.04                                    | 0.16                     |
| 0.06                                    | 0.10                     |
| 0.08                                    | 0.08                     |
| 0.10                                    | 0.06                     |
| 0.12                                    | 0.05                     |
| 0.14                                    | 0.045                    |
| 0.16                                    | 0.04                     |

## Accessori - Guidastelo

Guidastelo a H

| Motor       | A   |
|-------------|-----|
| M60SH65-Txx | 97  |
| M60SH86-Txx | 118 |

| Motor       | A   |
|-------------|-----|
| M60SH65-Txx | 97  |
| M60SH86-Txx | 118 |

Technical drawing of the SMC SAE 1000 series solenoid valve, showing front, side, and end views with dimensions.

**Front View (Left):** Shows the valve body with four mounting holes. Dimensions include a square flange of 38 mm and four M6 mounting holes.

**Side View (Middle):** Shows the valve body and solenoid coil. Dimensions include a mounting hole of M12 x 1.25, a coil diameter of  $\varnothing 20$ , a body diameter of  $\varnothing 35$ , a mounting flange of 24 mm, a coil length of 30 mm, and a total length of 49.50 mm. The stroke is labeled as B + corsa / stroke.

**End View (Right):** Shows the valve body with four mounting holes. Dimensions include a square flange of 38 mm, a square base of 53 mm, and four M6 mounting holes.

The technical drawing illustrates the SMC MHA2 series air cylinder from three perspectives:

- Front View (Left):** Shows a square body with a width of 60 mm and a height of 71.60 mm. It features two ports at the top and four mounting holes at the corners.
- Side View (Middle):** Details the cylinder's profile. Key dimensions include:
  - Port thread: M12 x 1.25
  - Port diameter:  $\varnothing 20$
  - Cylinder head diameter:  $\varnothing 35$
  - Stroke length: B + corsa / stroke
  - Head-to-body distance: 61.50 mm
  - Body diameter:  $\varnothing 34.90$
  - Mounting flange diameter: A
  - Internal feature: Foro per lubrificazione (Lubrication hole)
  - Head thicknesses: 24 mm and 30 mm
- End View (Right):** Shows the circular face with a diameter of 53 mm. It has four mounting holes arranged in a square pattern with a side length of 38 mm, labeled as 4 x M6.

|    |        |
|----|--------|
| 5  | 129,50 |
| 12 | 140    |

| Motor       | CILINDRO DIRETTO<br>Massa corsa 0 (gr) | CILINDRO RIVIATO<br>Massa corsa 0 (gr) | Massa per mm di corsa<br>(gr/mm) |
|-------------|----------------------------------------|----------------------------------------|----------------------------------|
| M60SH65-Txx | 2490                                   | 3160                                   | 4,6                              |
| M60SH86-Txx | 2690                                   | 3360                                   | 4,6                              |

| Modello   | Passo vite | Tipo vite             | Max carico<br>dinamico * | Max carico<br>statico * | Antirotazione | Precisione<br>di posizio-<br>namento | Ripetibilità | Gioco<br>assiale<br>massimo | Forza max<br>spinta/tiro * |
|-----------|------------|-----------------------|--------------------------|-------------------------|---------------|--------------------------------------|--------------|-----------------------------|----------------------------|
|           | mm         |                       | N                        | N                       |               | mm                                   | mm           | mm                          | N                          |
| IEC040050 | 5          | ricircolo di<br>sfere | 2650                     | 4600                    | ●             | ±0,02                                | ±0,01        | ±0,02                       | 1600                       |
| IEC040120 | 12         |                       | 5600                     | 6800                    |               |                                      |              |                             |                            |

Technical drawing of a cylinder. The drawing shows a side view of the cylinder with a piston rod extending from the left. The piston rod has a diameter of 24 mm. The cylinder body has a diameter of 30 mm. The total length of the cylinder is labeled as  $B + \text{corsa} / \text{stroke}$ . The drawing also shows a cross-section of the cylinder head on the right side.

**Motore M60SH86 - Tensione di alimentazione 60Vdc**

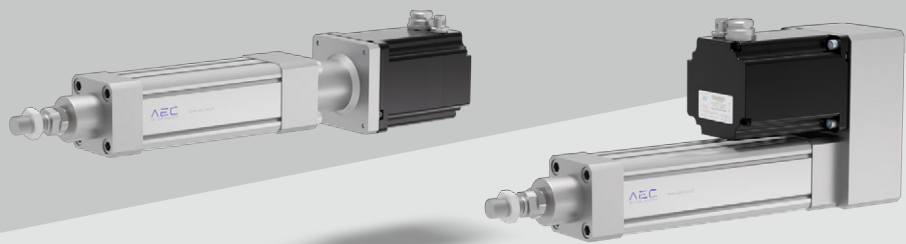
The graph plots Force (Forza spinta o tiro - Push pull force) in [N] on the y-axis (0 to 1.8) against Exit/Entry Speed (Velocità uscita / rientro stelo - Out / in rod speed) in [m/sec] on the x-axis (0 to 0.35). Two data series are shown: 'passo 5 pitch 5' and 'passo 12 pitch 12'. Both series show a sharp drop in force between 0.05 and 0.15 m/sec.

| Velocità uscita / rientro stelo [m/sec] | Forza spinta o tiro [N] (passo 5) | Forza spinta o tiro [N] (passo 12) |
|-----------------------------------------|-----------------------------------|------------------------------------|
| 0.00                                    | 1.50                              | 0.65                               |
| 0.05                                    | 1.35                              | 0.55                               |
| 0.10                                    | 0.80                              | 0.55                               |
| 0.15                                    | 0.60                              | 0.55                               |
| 0.20                                    | -                                 | 0.45                               |
| 0.25                                    | -                                 | 0.35                               |
| 0.30                                    | -                                 | 0.25                               |

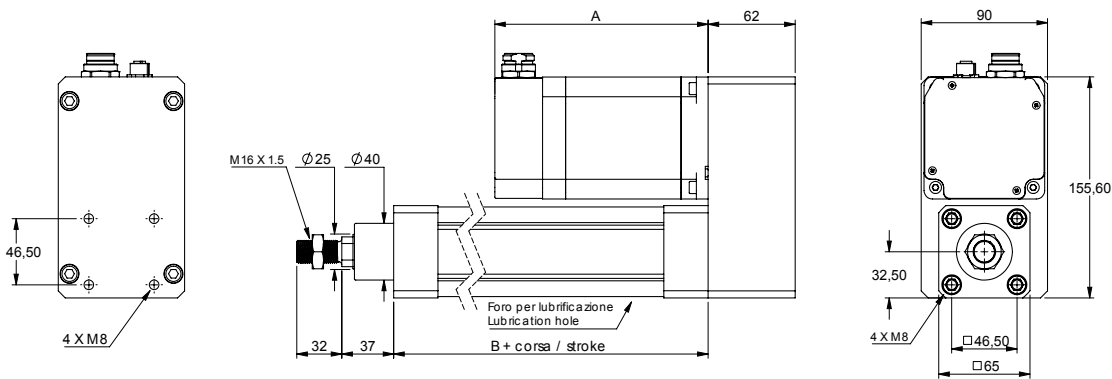
IEC050xxx

Motori abbinabili \*

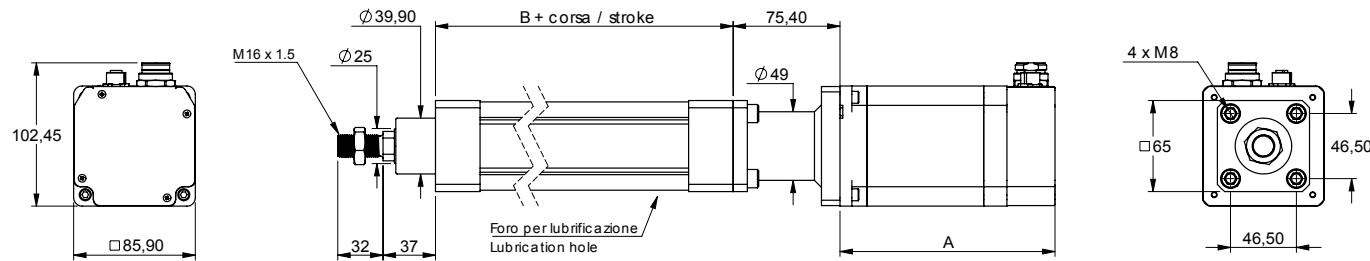
| Motor        | A   |
|--------------|-----|
| M86SH80-Txx  | 115 |
| M86SH96-Txx  | 133 |
| M86SH118-Txx | 152 |
| M86SH156-Txx | 191 |



Montaggio motore rinviato



Montaggio motore diretto



Le dimensioni sono espresse in mm.

| Passo della vite | B   |
|------------------|-----|
| 5                | 165 |
| 10               | 170 |
| 16               | 176 |

Masse dei cilindri

| Motor        | CILINDRO DIRETTO<br>Massa corsa 0 (gr) | CILINDRO RIVIATO<br>Massa corsa 0 (gr) | Massa per mm di corsa<br>(gr/mm) |
|--------------|----------------------------------------|----------------------------------------|----------------------------------|
| M86SH80-Txx  | 5080                                   | 6930                                   | 6,8                              |
| M86SH96-Txx  | 5680                                   | 7530                                   | 6,8                              |
| M86SH118-Txx | 6580                                   | 8430                                   | 6,8                              |
| M86SH156-Txx | 8180                                   | 10030                                  | 6,8                              |

Specifications

\* Massimo carico applicabile al cilindro, indipendente dalla coppia del motore

| Modello   | Passo vite | Tipo vite             | Max carico<br>dinamico * | Max carico<br>statico * | Antirrotazione | Precisione<br>di posizio-<br>namento | Ripetibilità | Gioco<br>assiale<br>massimo | Forza max<br>spinta/tiro * |
|-----------|------------|-----------------------|--------------------------|-------------------------|----------------|--------------------------------------|--------------|-----------------------------|----------------------------|
|           | mm         |                       | N                        | N                       |                | mm                                   | mm           | mm                          | N                          |
| IEC040050 | 5          |                       | 12000                    | 13000                   |                |                                      |              |                             |                            |
| IEC050100 | 10         | ricircolo di<br>sfere | 10000                    | 13000                   | ●              | ±0,02                                | ±0,01        | ±0,02                       | 5000                       |
| IEC050160 | 16         |                       | 10000                    | 13000                   |                |                                      |              |                             |                            |

● = Standard

○ = Su richiesta

Corse cilindri

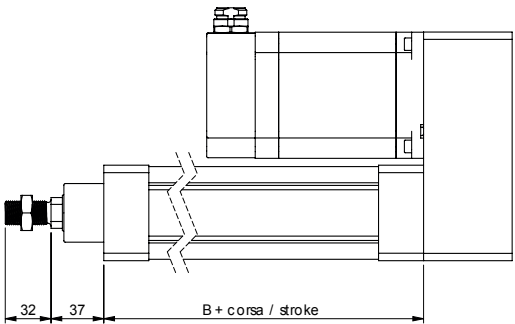
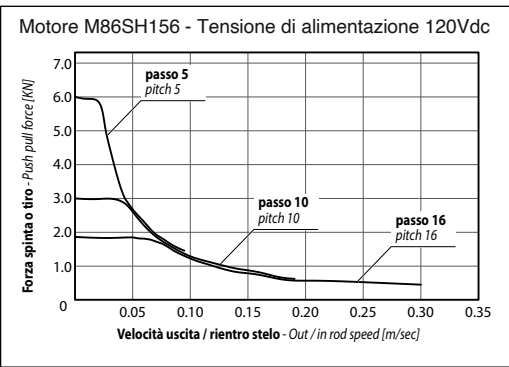


Grafico forza / velocità

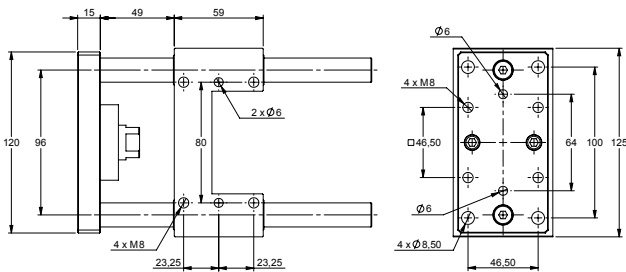


|    |     |     |     |     |     |     |     |         |
|----|-----|-----|-----|-----|-----|-----|-----|---------|
| 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | altre * |
| ●  | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ○       |

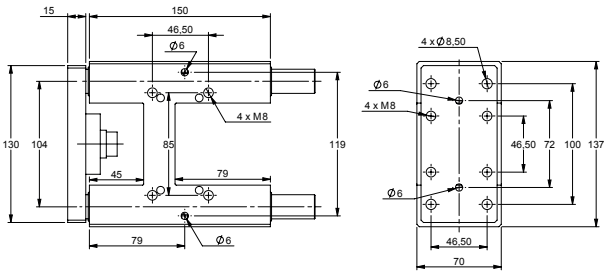
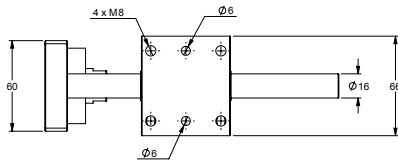
● = Standard

○ = Su richiesta

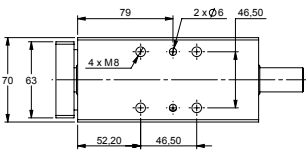
Accessori - Guidastelo



Guidastelo a C



Guidastelo a H



| Government          | Percentage |
|---------------------|------------|
| Current government  | 75%        |
| Previous government | 25%        |



| Motor         | A   |
|---------------|-----|
| M110SH99-Txx  | 129 |
| M110SH150-Txx | 180 |
| M110SH201-Txx | 231 |

### Montaggio motore diretto

The technical drawing illustrates the dimensions for a direct motor assembly in three views:

- Top View:** Shows a square base with a width of 110 mm and a height of 127 mm.
- Side View:** Shows the profile of the motor with various diameters and lengths:
  - Input shaft diameter:  $\varnothing 44,90$
  - Shaft diameter:  $\varnothing 32$
  - Stroke length: B + corsa / stroke
  - Distance from input shaft to output flange: 105
  - Output flange diameter:  $\varnothing 75$
  - Total length: A
  - Mounting hole diameter: M20 x 1.5
  - Distances from mounting holes to input/output shafts: 40 and 46
  - Lubrication hole: Foro per lubrificazione / Lubrication hole
- Front View:** Shows the circular output flange with four mounting holes (4 x M10), an outer diameter of 95 mm, and a central bore diameter of 72 mm.

Le dimensioni sono espresse in mm.

| Passo della vite | B   |
|------------------|-----|
| 5                | 173 |
| 10               | 178 |
| 20               | 188 |

| Motor         | CILINDRO DIRETTO<br>Massa corsa 0 (gr) | CILINDRO RIVIATO<br>Massa corsa 0 (gr) | Massa per mm di corsa<br>(gr/mm) |
|---------------|----------------------------------------|----------------------------------------|----------------------------------|
| M110SH99-Txx  | 11250                                  | 13200                                  | 12,5                             |
| M110SH150-Txx | 14650                                  | 16600                                  | 12,5                             |
| M110SH201-Txx | 17950                                  | 19900                                  | 12,5                             |

\* Massimo carico applicabile al cilindro, indipendente dalla coppia del motore

● = Standard  
○ = Su richiesta

Technical drawing of a double-acting hydraulic cylinder. The drawing shows the cylinder body with two ports on the left. Dimensions are indicated below the cylinder: a diameter of 40, a distance of 46 from the port to the cylinder start, and a total length of  $B + \text{corsa} / \text{stroke}$ .

### Grafico forza / velocità Motore M110SH150 - Tensione di alimentazione 120Vdc | Velocità uscita / rientro stelo - Out / in rod speed [m/sec] | Forza spinta o tiro - Push/pull force [kN] (pitch 5) | Forza spinta o tiro - Push/pull force [kN] (pitch 10) | Forza spinta o tiro - Push/pull force [kN] (pitch 20) | |--------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------| | 0.00 | 14.0 | 6.0 | 3.0 | | 0.05 | 4.0 | 2.5 | 1.5 | | 0.10 | 2.0 | 1.5 | 1.0 | | 0.15 | 1.5 | 1.0 | 0.8 | | 0.20 | 1.5 | 1.0 | 0.8 | | 0.25 | 1.5 | 1.0 | 0.8 | | 0.30 | 1.5 | 1.0 | 0.8 | | 0.35 | 1.5 | 1.0 | 0.8 | | 0.40 | 1.5 | 1.0 | 0.8 | | 0.45 | 1.5 | 1.0 | 0.8 |

● = Standard  
○ = Su richiesta

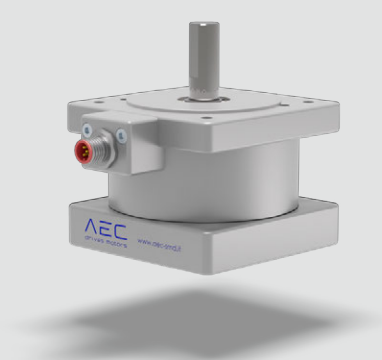
## Accessori - Guidastelo

ACCESSORI

FRENI ELETTRIMAGNETICI

L'EB24 e l'EB34 sono dei freni elettromagnetici monodisco negativo, chiusi a pressione di molle e dotati di flangia NEMA per un montaggio in linea, semplice e rapido. Vengono utilizzati per funzionamento a secco come freno di sicurezza o di stazionamento.

| Caratteristiche                     |               | EB24       | EB34       | U.M              |
|-------------------------------------|---------------|------------|------------|------------------|
| Coppia di frenatura                 |               | 1,5        | 3,0        | Nm               |
| Max coppia in uscita                |               | 5          | 13         | Nm               |
| Max forza assiale applicabile       |               | 5          | 10         | N                |
| Max forza radiale applicabile       |               | 5          | 10         | N                |
| Tempo intervento                    | Inserzione    | 10         | 17         | ms               |
|                                     | Disinserzione | 21         | 35         | ms               |
| Velocità massima                    |               | 3000       | 3000       | RPM              |
| Inerzia                             |               | 9          | 70         | gcm <sup>2</sup> |
| Temperatura di esercizio            |               | -10 .. +90 | -10 .. +90 | °C               |
| Temperatura di ambiente             |               | -10 .. +90 | -10 .. +90 | °C               |
| Umidita' di lavoro (senza condensa) |               | max 95%    | max 95%    | %HR              |
| Peso                                |               | 750        | 1850       | g                |
| Alimentazione                       |               | 24         | 24         | V <sub>dc</sub>  |
| Potenza                             |               | 15         | 24         | W                |



SENSORI DI FINECORSA

| Tipo | Circuito | Modello                | Codice    |
|------|----------|------------------------|-----------|
|      |          | Sensore effetto Hall H | SENH-C-M8 |

CODICE PARLANTE

Dimensioni meccaniche

**EB24**

**EB34**

IEC **xxx** **xxx** **xxxx** **xx** **xxx** **xx** **xx**

| Modello      | Alesaggio 25 025 | Alesaggio 40 040 | Alesaggio 50 050 | Alesaggio 80 080 |               |
|--------------|------------------|------------------|------------------|------------------|---------------|
| Passo a vite | p = 5 mm 050     | p = 10 mm 100    | p = 12 mm 120    | p = 16 mm 160    | p = 20 mm 200 |

Unita' di guida  
"C" con bronzine CB  
"H" con bronzine HB  
"H" con cuscinetti a sfera HR

Freno elettromagnetico  
Uscita connettore (solo EB34) BC  
Uscita cavi BF

Codice motore  
Mxx

Accoppiamento motore

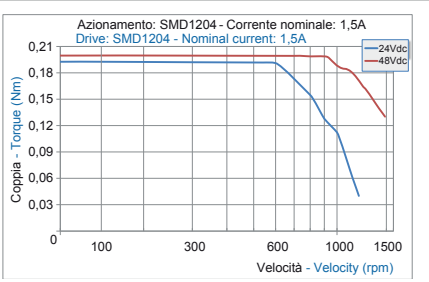
| Corsa | 50 mm 0050 | 100 mm 0100 | 150 mm 0150 | 200 mm 0200 | 250 mm 0250 | 300 mm 0300 | 350 mm 0350 | 400 mm 0400 | Altre corse su richiesta ... |
|-------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------|
|-------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------|

**D1** **R1**

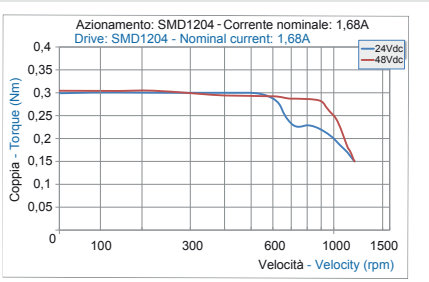


TABELLA MOTORI

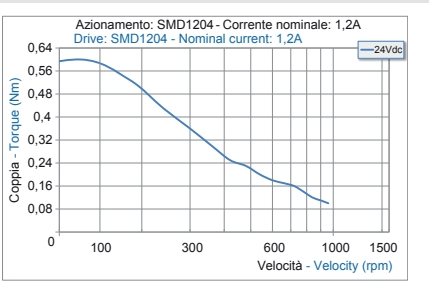
| M42SH33-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder     | Imp./giro enc. |
|--------------------|---------------|------------------|----------------|-------------|----------------|
| M42SH33-T-C        | M117          | 1,5 A            | 0,23 Nm        | -           | -              |
| M42SH33-TO0512P24  | M140          | 1,5 A            | 0,23 Nm        | Push-pull   | 512            |
| M42SH33-TO0512L05C | M130          | 1,5 A            | 0,23 Nm        | Line-driver | 512            |



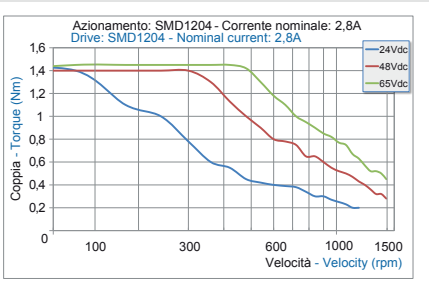
| M42SH47-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder     | Imp./giro enc. |
|--------------------|---------------|------------------|----------------|-------------|----------------|
| M42SH47-T-C        | M111          | 1,68 A           | 0,44 Nm        | -           | -              |
| M42SH47-TO0512P24C | M141          | 1,68 A           | 0,44 Nm        | Push-pull   | 512            |
| M42SH47-TO0512L05C | M131          | 1,68 A           | 0,44 Nm        | Line-driver | 512            |



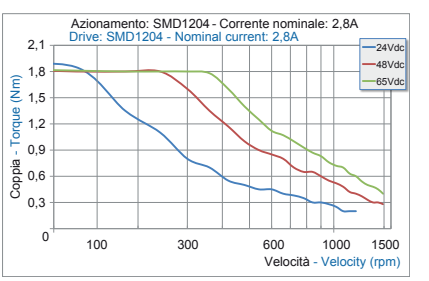
| M42SH60-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder     | Imp./giro enc. |
|--------------------|---------------|------------------|----------------|-------------|----------------|
| M42SH60-T-C        | M112          | 1,2 A            | 0,8 Nm         | -           | -              |
| M42SH60-TO0512P24C | M142          | 1,2 A            | 0,8 Nm         | Push-pull   | 512            |
| M42SH60-TO0512L05C | M132          | 1,2 A            | 0,8 Nm         | Line-driver | 512            |



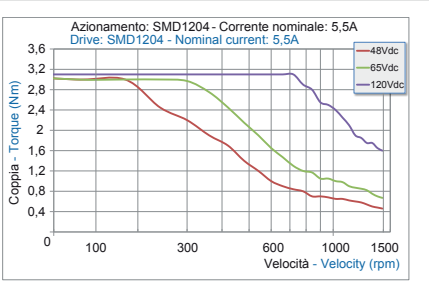
| M60SH65-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder        | Imp./giro enc. |
|--------------------|---------------|------------------|----------------|----------------|----------------|
| M60SH65-T-C        | M02           | 2,8 A            | 2,1 Nm         | -              | -              |
| M60SH65-TO0512P24C | M90           | 2,8 A            | 2,1 Nm         | Push-pull      | 512            |
| M60SH65-TO0512L05C | M81           | 2,8 A            | 2,1 Nm         | Line-driver    | 512            |
| M60SH65-TM1611S05C | M508          | 2,8 A            | 2,1 Nm         | Assoluto Mult. | 2048           |



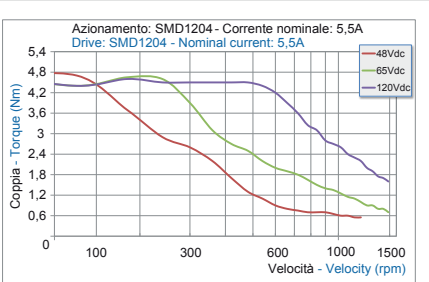
| M60SH86-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder        | Imp./giro enc. |
|--------------------|---------------|------------------|----------------|----------------|----------------|
| M60SH86-T-C        | M06           | 2,8 A            | 3,1 Nm         | -              | -              |
| M60SH86-TO0512P24C | M91           | 2,8 A            | 3,1 Nm         | Push-pull      | 512            |
| M60SH86-TO0512L05C | M82           | 2,8 A            | 3,1 Nm         | Line-driver    | 512            |
| M60SH86-TM1611S05C | M509          | 2,8 A            | 3,1 Nm         | Assoluto Mult. | 2048           |



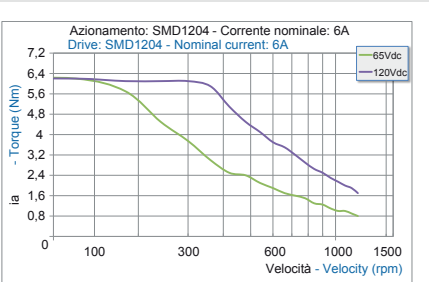
| M86SH80-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder        | Imp./giro enc. |
|--------------------|---------------|------------------|----------------|----------------|----------------|
| M86SH80-T-C        | M15           | 5,5 A            | 4,6 Nm         | -              | -              |
| M86SH80-TO0512P24C | M92           | 5,5 A            | 4,6 Nm         | Push-pull      | 512            |
| M86SH80-TO0512L05C | M83           | 5,5 A            | 4,6 Nm         | Line-driver    | 512            |
| M86SH80-TM1611S05C | M510          | 5,5 A            | 4,6 Nm         | Assoluto Mult. | 2048           |



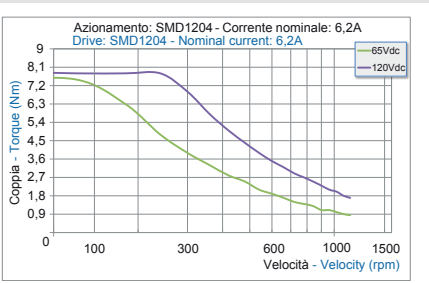
| M86SH96-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder        | Imp./giro enc. |
|--------------------|---------------|------------------|----------------|----------------|----------------|
| M86SH96-T-C        | M216          | 5,6 A            | 6,5 Nm         | -              | -              |
| M86SH96-TO0512P24C | M217          | 5,6 A            | 6,5 Nm         | Push-pull      | 512            |
| M86SH96-TO0512L05C | M218          | 5,6 A            | 6,5 Nm         | Line-driver    | 512            |
| M86SH96-TM1611S05C | M511          | 5,6 A            | 6,5 Nm         | Assoluto Mult. | 2048           |



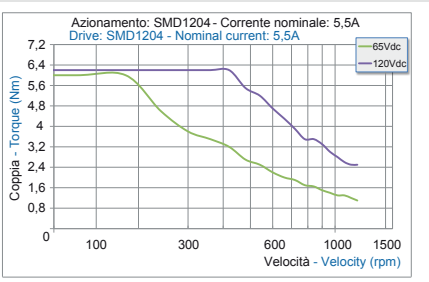
| M86SH118-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder        | Imp./giro enc. |
|---------------------|---------------|------------------|----------------|----------------|----------------|
| M86SH118-T-C        | M18           | 6,0 A            | 8,7 Nm         | -              | -              |
| M86SH118-TO0512P24C | M93           | 6,0 A            | 8,7 Nm         | Push-pull      | 512            |
| M86SH118-TO0512L05C | M84           | 6,0 A            | 8,7 Nm         | Line-driver    | 512            |
| M86SH118-TM1611S05C | M512          | 6,0 A            | 8,7 Nm         | Assoluto Mult. | 2048           |



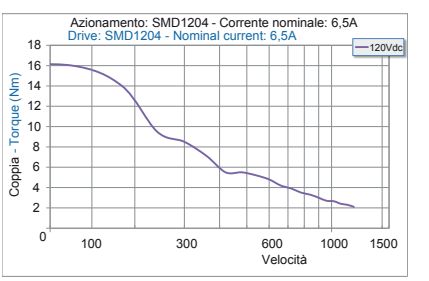
| M86SH156-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder        | Imp./giro enc. |
|---------------------|---------------|------------------|----------------|----------------|----------------|
| M86SH156-T-C        | M22           | 6,2 A            | 12,8 Nm        | -              | -              |
| M86SH156-TO0512P24C | M94           | 6,2 A            | 12,8 Nm        | Push-pull      | 512            |
| M86SH156-TO0512L05C | M85           | 6,2 A            | 12,8 Nm        | Line-driver    | 512            |
| M86SH156-TM1611S05C | M513          | 6,2 A            | 12,8 Nm        | Assoluto Mult. | 2048           |



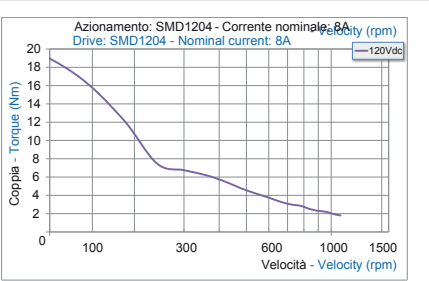
| M110SH99-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder     | Imp./giro enc. |
|---------------------|---------------|------------------|----------------|-------------|----------------|
| M110SH99-T-C        | M32           | 5,5 A            | 11,2 Nm        | -           | -              |
| M110SH99-TO0512P24C | M95           | 5,5 A            | 11,2 Nm        | Push-pull   | 512            |
| M110SH99-TO0512L05C | M86           | 5,5 A            | 11,2 Nm        | Line-driver | 512            |



| M110SH150-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder     | Imp./giro enc. |
|----------------------|---------------|------------------|----------------|-------------|----------------|
| M110SH150-T-C        | M36           | 6,5 A            | 22 Nm          | -           | -              |
| M110SH150-TO0512P24C | M96           | 6,5 A            | 22 Nm          | Push-pull   | 512            |
| M110SH150-TO0512L05C | M87           | 6,5 A            | 22 Nm          | Line-driver | 512            |



| M110SH201-Tx         | Codice motore | Corrente di fase | Coppia manten. | Encoder     | Imp./giro enc. |
|----------------------|---------------|------------------|----------------|-------------|----------------|
| M110SH201-T-C        | M40           | 8,0 A            | 30 Nm          | -           | -              |
| M110SH201-TO0512P24C | M97           | 8,0 A            | 30 Nm          | Push-pull   | 512            |
| M110SH201-TO0512L05C | M88           | 8,0 A            | 30 Nm          | Line-driver | 512            |



CAVI A POSA MOBILE

Cavo motori serie M86SH ed M110SH

| Modello              | Connettore | Nr. conduttori | Sezione | Caratteristiche   | Materiale guaina | Materiale isolante | Diametro esterno | Lunghezza |
|----------------------|------------|----------------|---------|-------------------|------------------|--------------------|------------------|-----------|
|                      |            | N              | mm²     |                   |                  |                    | mm               | m         |
| CONV05FDR78C04SU100  | Dritto     | 4 + 1          | 1,00    | UL-CSA 300 V 80°C | PUR              | PP 9Y              | 7,4              | 4         |
| CONV05FDR78C12SU100  | Dritto     | 4 + 1          | 1,00    | UL-CSA 300 V 80°C | PUR              | PP 9Y              | 7,4              | 12        |
| CONV05F9078C012SU100 | Angolato   | 4 + 1          | 1,00    | UL-CSA 300 V 80°C | PUR              | PP 9Y              | 7,4              | 12        |

Cavo motori serie M42SH/M57SH/M60SH

| Modello              | Connettore | Nr. conduttori | Sezione | Caratteristiche | Materiale guaina | Materiale isolante | Diametro esterno | Lunghezza |
|----------------------|------------|----------------|---------|-----------------|------------------|--------------------|------------------|-----------|
|                      |            | N              | mm²     |                 |                  |                    | mm               | m         |
| CONV05FDRM12C04SU034 | Dritto     | 5              | 0,25    | UL20549         | PUR              | PP 9Y              | 5,8              | 4         |
| CONV05FDRM12C12SU034 | Dritto     | 5              | 0,25    | UL20549         | PUR              | PP 9Y              | 5,8              | 12        |
| CONV05F90M12C04SU034 | Angolato   | 5              | 0,25    | UL20549         | PUR              | PP 9Y              | 5,8              | 4         |
| CONV05F90M12C12SU034 | Angolato   | 5              | 0,25    | UL20549         | PUR              | PP 9Y              | 5,8              | 12        |

Cavo encoder Push Pull

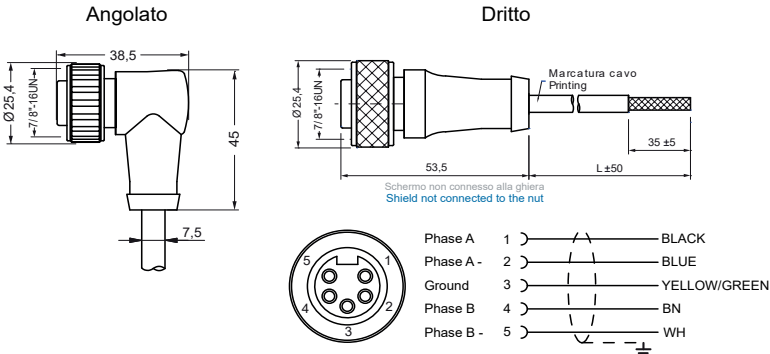
| Modello              | Connettore | Nr. conduttori | Sezione | Caratteristiche | Materiale guaina | Materiale isolante | Diametro esterno | Lunghezza |
|----------------------|------------|----------------|---------|-----------------|------------------|--------------------|------------------|-----------|
|                      |            | N              | mm²     |                 |                  |                    | mm               | m         |
| CONV05MDRM12C04SU025 | Dritto     | 5              | 0,25    | UL20549         | PUR              | PP 9Y              | 5,5              | 4         |
| CONV05MDRM12C12SU025 | Dritto     | 5              | 0,25    | UL20549         | PUR              | PP 9Y              | 5,5              | 12        |
| CONV05M90M12C04SU025 | Angolato   | 5              | 0,25    | UL20549         | PUR              | PP 9Y              | 5,5              | 4         |
| CONV05M90M12C12SU025 | Angolato   | 5              | 0,25    | UL20549         | PUR              | PP 9Y              | 5,5              | 12        |

Cavo encoder Line Driver

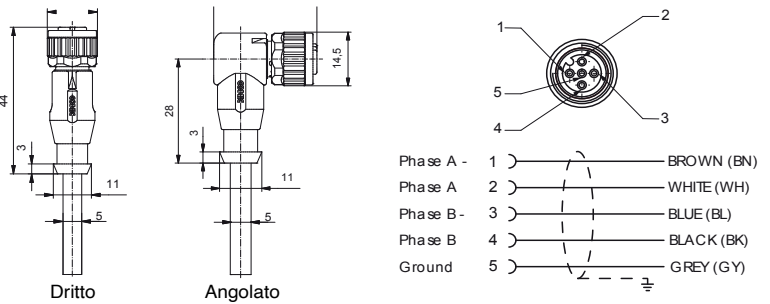
| Modello              | Connettore | Nr. conduttori | Sezione | Caratteristiche | Materiale guaina | Materiale isolante | Diametro esterno | Lunghezza |
|----------------------|------------|----------------|---------|-----------------|------------------|--------------------|------------------|-----------|
|                      |            | N              | mm²     |                 |                  |                    | mm               | m         |
| CONV08FDRM12C04SU025 | Dritto     | 8              | 0,25    | UL20549         | PUR              | PP 9Y              | 6,4              | 4         |
| CONV08FDRM12C12SU025 | Dritto     | 8              | 0,25    | UL20549         | PUR              | PP 9Y              | 6,4              | 12        |
| CONV08F90M12C04SU025 | Angolato   | 8              | 0,25    | UL20549         | PUR              | PP 9Y              | 6,4              | 4         |
| CONV08F90M12C12SU025 | Angolato   | 8              | 0,25    | UL20549         | PUR              | PP 9Y              | 6,4              | 12        |

| SPECIFICHE              | UM     | CONV05Fxx78CxxSU100 | CONV05FxxM12CxxSU034 | CONV05MxxM12CxxSU025 | CONV08FxxM12CxxSU025 |
|-------------------------|--------|---------------------|----------------------|----------------------|----------------------|
| Temperatura posa mobile | °C     | -30 .. +80          | -25 .. +80           | -25 .. +80           | -25 .. +80           |
| Formazione sezione      | N x mm | cl 6                | -                    | 42 x 0,10            | 32 x 0,10            |
| Raggio di curvatura     | mm     | 10 x Ø              | 10 x Ø               | 10 x Ø               | 10 x Ø               |
| Tensione nominale       | V      | 300                 | 300                  | 300                  | 300                  |
| Tensione di prova       | V      | 2000                | 2000                 | 2000                 | 2000                 |
| Note materiale guaina   |        | Halogen free        | Halogen free         | Halogen free         | Halogen free         |
| Note materiale isolante |        | Halogen free        | Halogen free         | Halogen free         | Halogen free         |
| Colore                  |        | Black               | Black                | Black                | Black                |

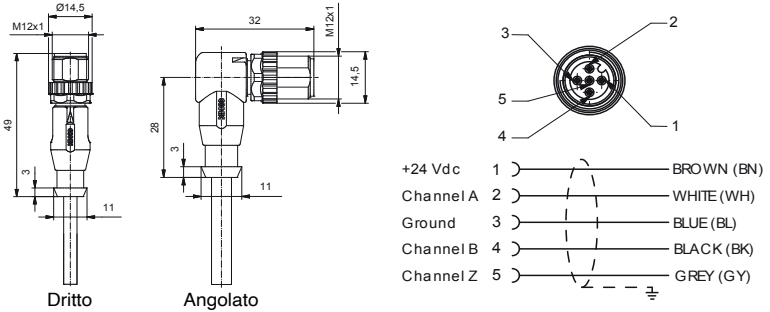
CONV05Fxx78CxxSU100  
Cavo motore preassemblato  
7/8" 5 vie femmina



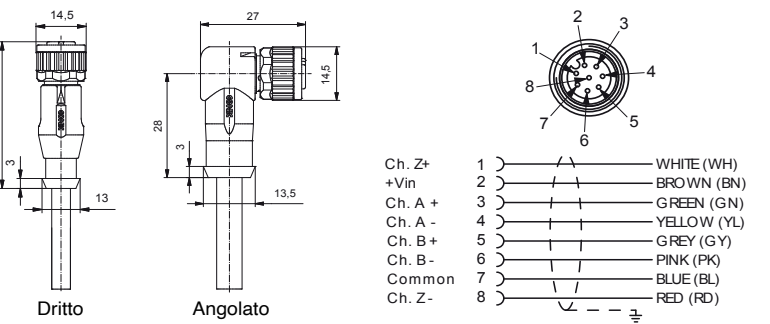
CONV05FxxM12CxxSU034  
Cavo motore preassemblato  
M12 5 vie femmina



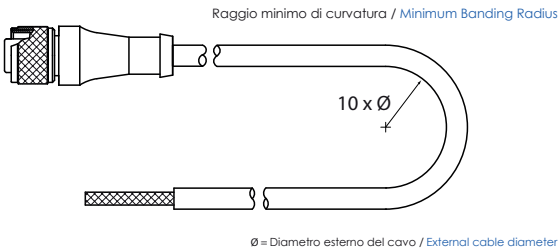
CONV05MxxM12CxxSU025  
Cavo encoder push-pull  
preassemblato  
M12 5 vie maschio



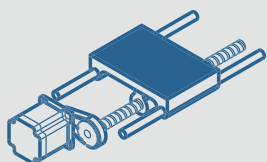
CONV08FxxM12CxxSU025  
Cavo encoder line-driver  
preassemblato  
M12 8 vie femmina



| Sigla | Descrizione |
|-------|-------------|
| BK    | Nero        |
| BN    | Marrone     |
| BU    | Blu         |
| GN    | Verde       |
| GY    | Grigio      |
| PK    | Rosa        |
| RD    | Rosso       |
| YE    | Giallo      |
| WH    | Bianco      |

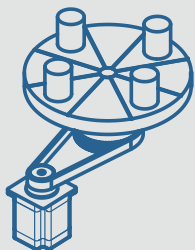






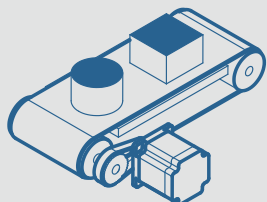
## Attuatori lineari

- Assi lineari a vite senza fine
- Assi lineari a cinghia
- Cilindri elettrici ISO
- Pick and Place



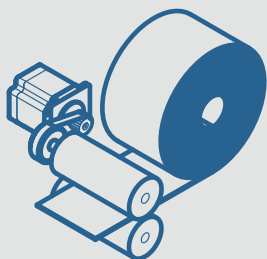
## Attuatori rotativi

- Tavole rotanti programmabili autoportanti
- Cambio formato
- Orientamento pezzi



## Sistemi di trasporto

- Nastri di trasporto a passo variabile
- Rulliere a velocità controllata
- Motoriduttori a gioco ridotto



## Sistemi di svolgimento

- Applicatori di etichette
- Svolgitori a passo costante e variabile
- Sfogliatori

**AEC SRL**

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