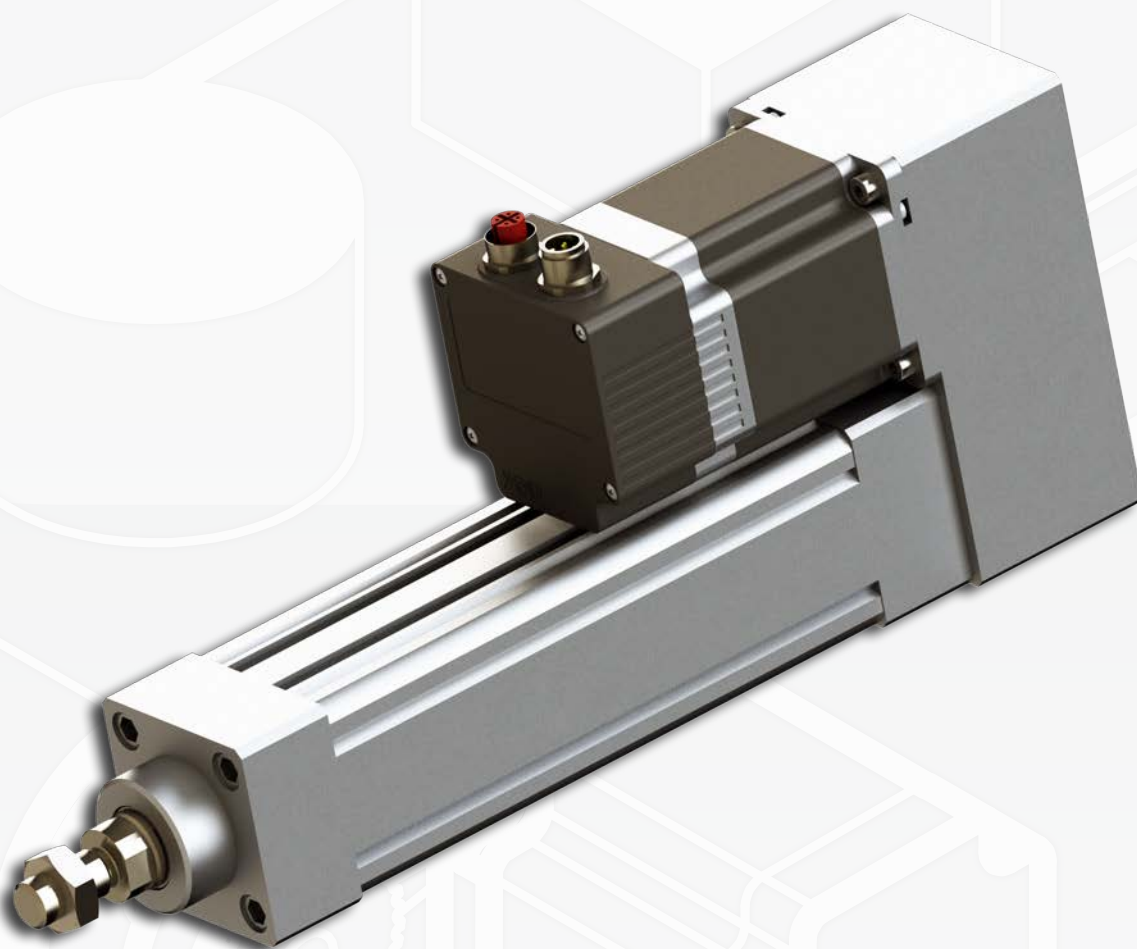


Electric cylinders



IEC025xxx

Servo electric cylinder stage

MOTORI ABBINABILI * MATCHING MOTORS *

Motor	A
M42SH33-Txx	55,54
M42SH47-Txx	69,90
M42SH60-Txx	81,70

*Curve di coppia a pag.12
Torque curves on page 12



Specifications

Modello <i>Model</i>	Passo vite <i>Screw pitch</i>	Tipo vite <i>Screw type</i>	Max carico dinamico * <i>Max dynamic load *</i>	Max carico statico * <i>Max static load *</i>	Antirotazione <i>Anti-rotation</i>	Precisione di posizio- namento <i>Positioning accuracy</i>	Ripetibilità <i>Repeata- bility</i>	Gioco assiale massimo <i>Maximum backlash</i>	Forza max spinta/tiro* <i>Max push/ pull force*</i>
	mm		N	N		mm	mm	mm	N
IEC025xxx	10	ricircolo di sfere <i>ballscrew</i>	2500	3900	●	±0,02	±0,01	±0,02	210

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

* Maximum load applicable to the cylinder, independent from the torque of the motor

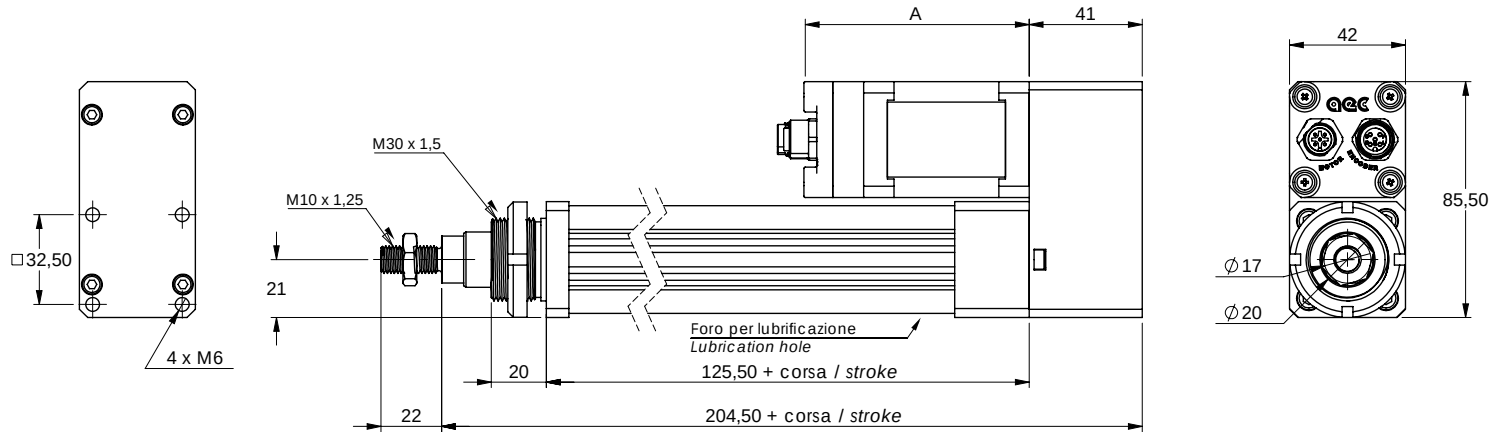
● = Standard • Standard

○ = Su richiesta • On request

Mechanical dimensions

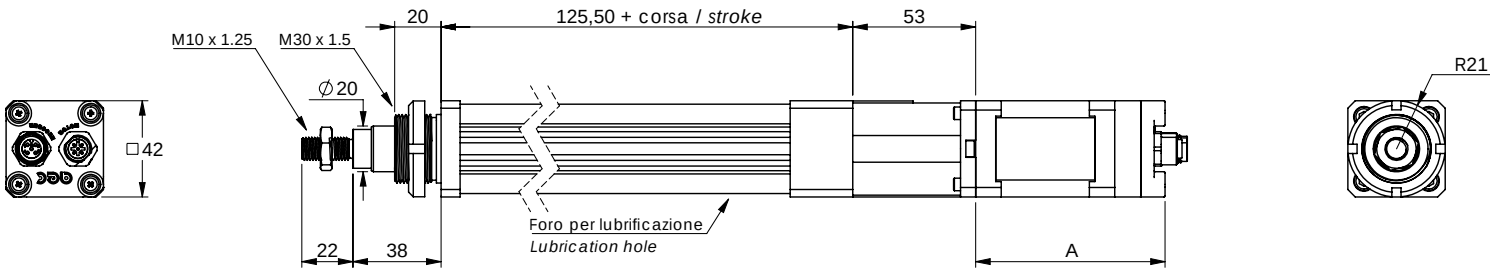
Montaggio motore rinviato

Gear parallel transmission



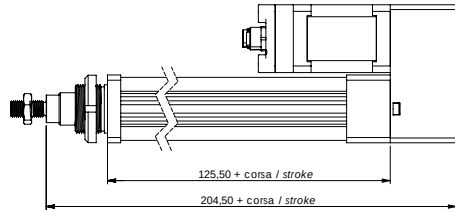
Montaggio motore diretto

In line direct transmission



Le dimensioni sono espresse in mm. • Dimensions are in mm.

Corse cilindri / Cylinder strokes

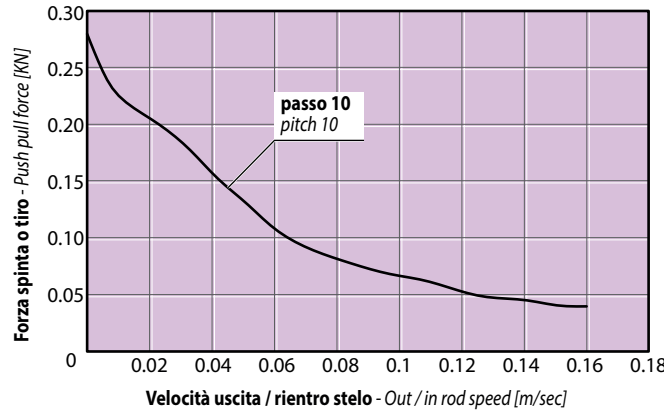


50	100	150	200	250	300	350	400	altre • <i>others</i>
●	●	●	●	●	●	●	●	○

● = Standard • Standard / ○ = Su richiesta • On request

Grafico forza / velocità – Force / speed graphs

Motore M42SH60 - Tensione di alimentazione 24Vdc

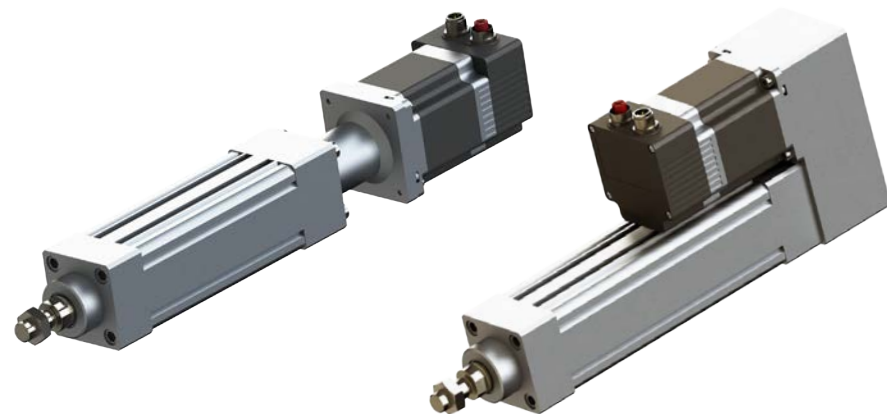


Servo electric cylinder stage

MOTORI ABBINABILI *
MATCHING MOTORS *

Motor	A
M60SH65-Txx	97
M60SH86-Txx	118

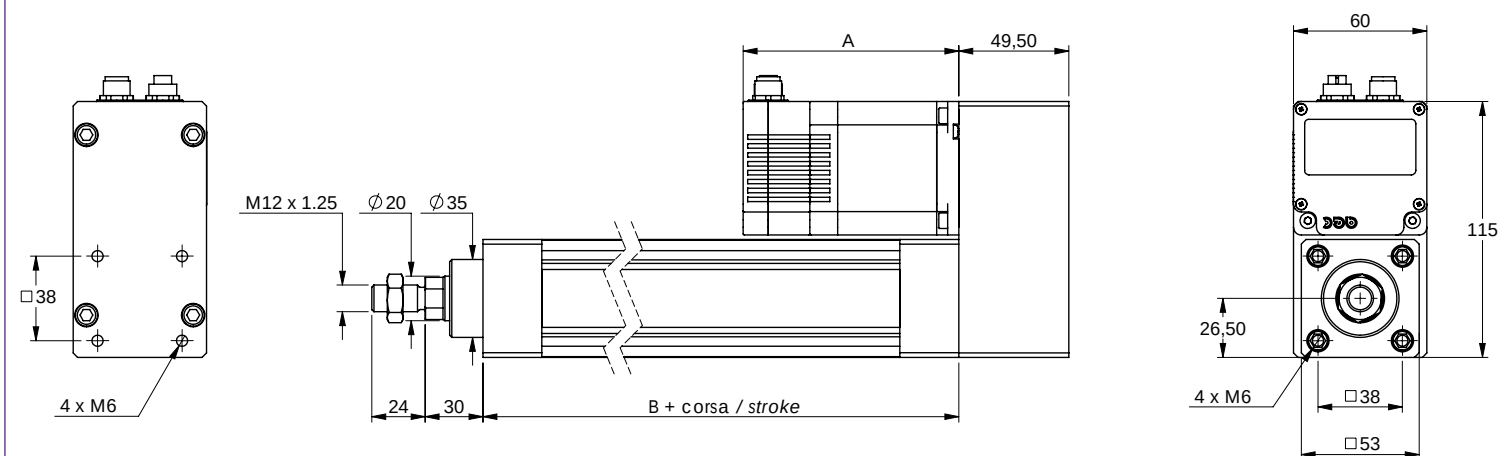
*Curve di coppia a pag.12
Torque curves on page 12



Mechanical dimensions

Montaggio motore rinviato

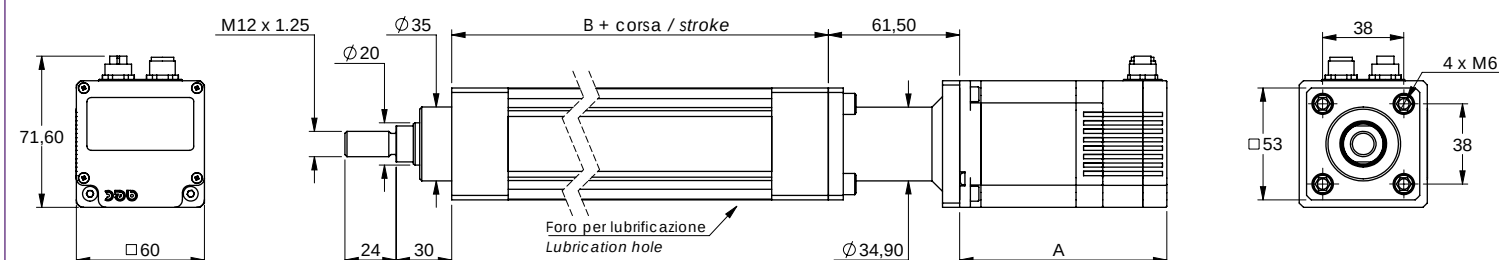
Gear parallel transmission



Passo della vite <i>Screw pitch</i>	B
5	129,50
12	140

Montaggio motore diretto

In line direct transmission



Le dimensioni sono espresse in mm. • *Dimensions are in mm.*

Masse dei cilindri / Mass of cylinders

	Direct transmission	Parallel transmission	
Motor	0 stroke mass (gr)	0 stroke mass (gr)	Mass per mm of stroke (gr/mm)
M60SH65-Txx	2490	3160	4,6
M60SH86-Txx	2690	3360	

Specifications

Modello <i>Model</i>	Passo vite <i>Screw pitch</i>	Tipo vite <i>Screw type</i>	Max carico dinamico * <i>Max dynamic load *</i>	Max carico statico * <i>Max static load *</i>	Antirotazione <i>Anti-rotation</i>	Precisione di posizio- namento <i>Positioning accuracy</i>	Ripetibilità <i>Repeata- bility</i>	Gioco assiale massimo <i>Maximum backlash</i>	Forza max spinta/tiro <i>Max push/ pull force</i>
	<i>mm</i>		<i>N</i>	<i>N</i>		<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>N</i>
IEC040050	5	ricircolo di sfere <i>ballscrew</i>	2650	4600		±0,02	±0,01	±0,02	1600
IEC040120	12		5600	6800					

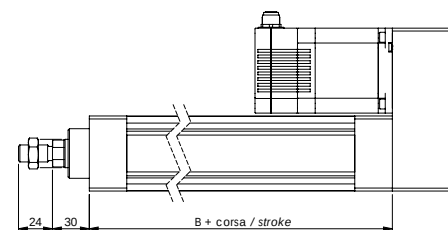
* Massimo carico applicabile al cilindro, indipendente dalla coppia del motore

* Maximum load applicable to the cylinder, independent from the torque of the motor

- = Standard • *Standard*

● = Standard • *Standard*
○ = Su richiesta • *On request*

Corse cilindri / *Cylinder strokes*

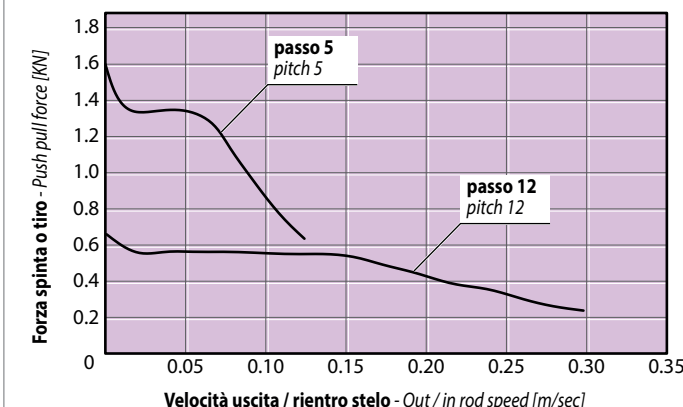


50	100	150	200	250	300	350	400	altre <i>others</i>
●	●	●	●	●	●	●	●	○

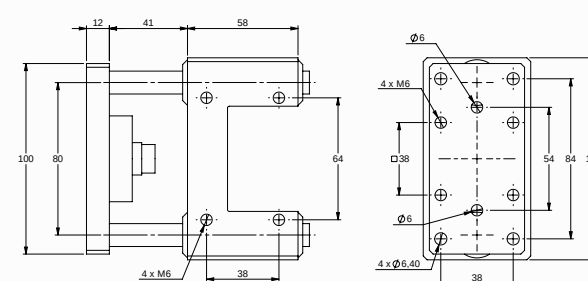
● = Standard • *Standard* / ○ = Su richiesta • *On request*

Grafico forza / velocità – Force / speed graphs

Motore M60SH86 - Tensione di alimentazione 60Vdc

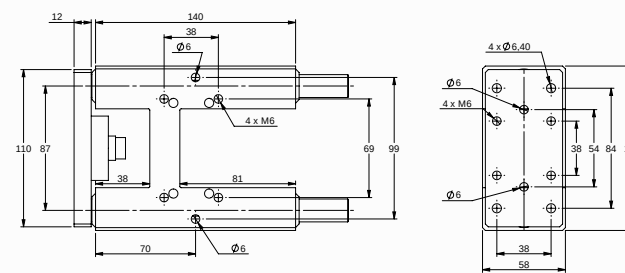


ACCESSORI GUIDASTELO • *OPTIONAL LINEAR CONTROL UNIT*



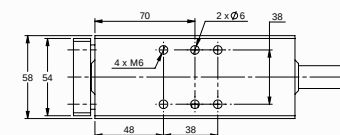
Guidastelo a C

C Linear control unit



Guidastelo a H

H Linear control unit



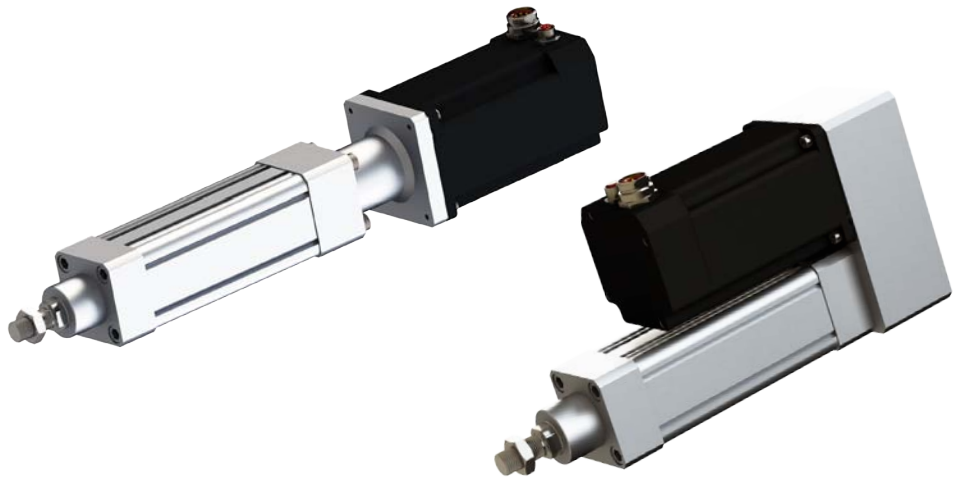
IEC050xxx

Servo electric cylinder stage

MOTORI ABBINABILI * MATCHING MOTORS *

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

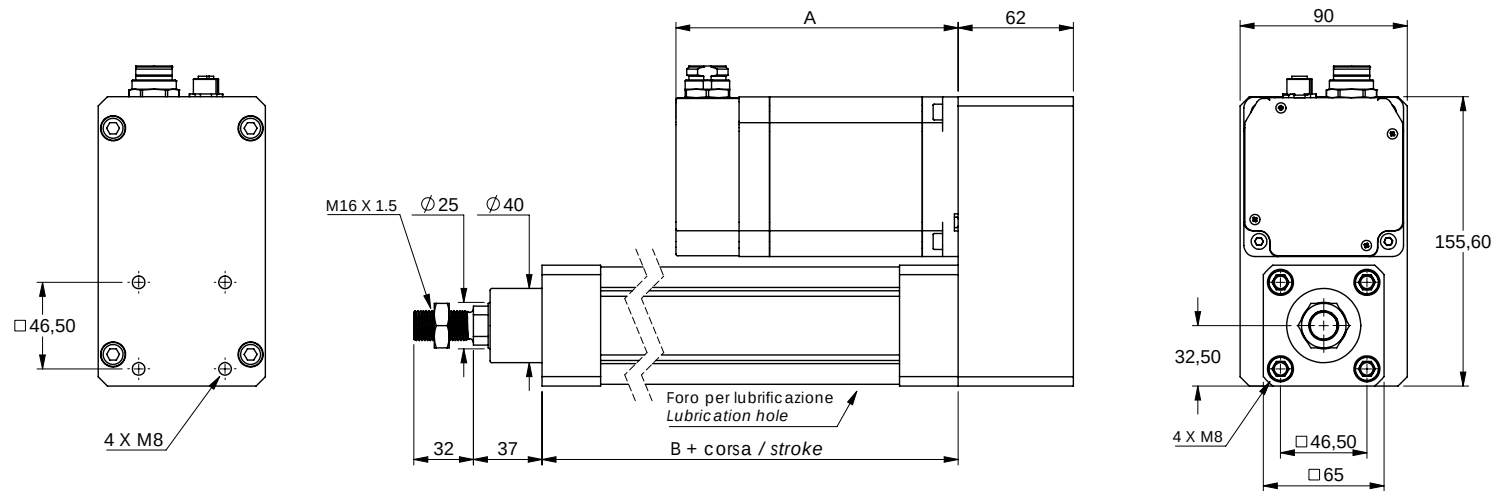
*Curve di coppia a pag.12
Torque curves on page 12



Mechanical dimensions

Montaggio motore rinviato

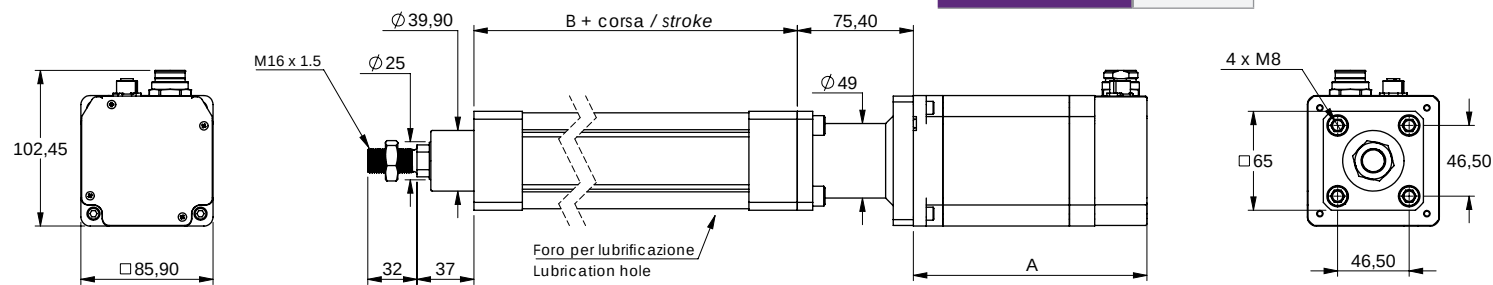
Gear parallel transmission



Passo della vite Screw pitch	B
5	165
10	170
16	176

Montaggio motore diretto

In line direct transmission



Le dimensioni sono espresse in mm. • Dimensions are in mm.

Masse dei cilindri / Mass of cylinders

Motor	Direct transmission 0 stroke mass (gr)	Parallel transmission 0 stroke mass (gr)	Mass per mm of stroke (gr/mm)
M86SH80-Txx	5080	6930	6,8
M86SH96-Txx	5680	7530	
M86SH118-Txx	6580	8430	
M86SH156-Txx	8180	10030	

Specifications

Modello Model	Passo vite Screw pitch	Tipo vite Screw type	Max carico dinamico * Max dynamic load *	Max carico statico * Max static load *	Antirotazione Anti-rotation	Precisione di posizio- namento Positioning accuracy	Ripetibilità Repeata- bility	Gioco assiale massimo Maximum backlash	Forza max spinta/tiro Max push/ pull force
	mm		N	N		mm	mm	mm	N
IEC050050	5	ricircolo di sfere ballscrew	12000	13000	●	±0,02	±0,01	±0,02	5000
IEC050100	10		10000	13000					
IEC050160	16		10000	13000					

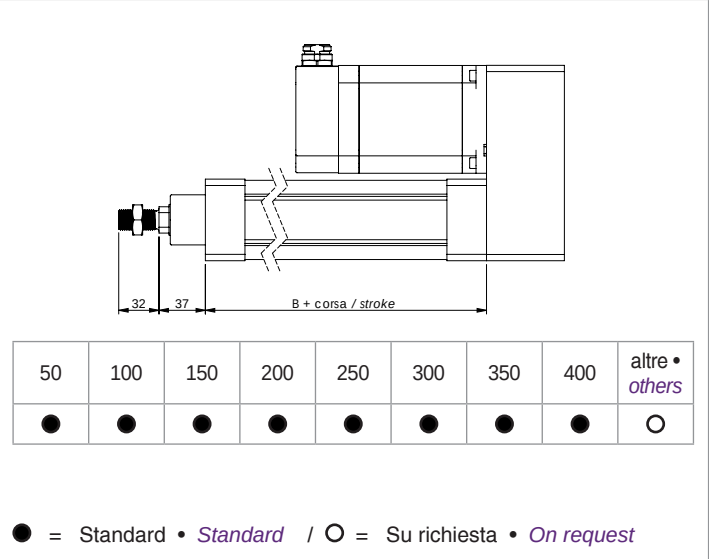
* Massimo carico applicabile al cilindro, indipendente dalla coppia del motore

* Maximum load applicable to the cylinder, independent from the torque of the motor

● = Standard • Standard

○ = Su richiesta • On request

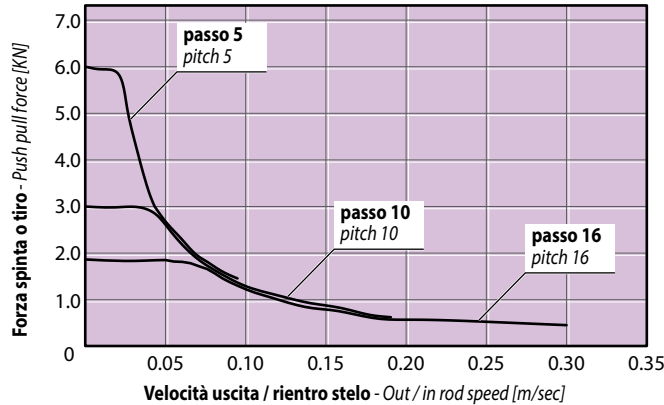
Corse cilindri / Cylinder strokes



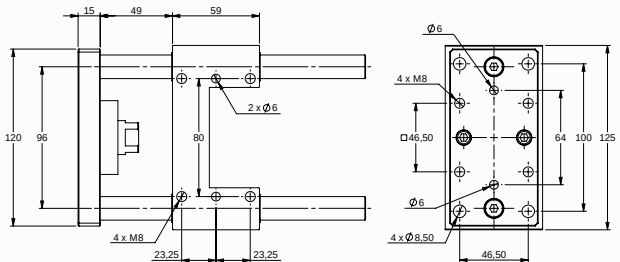
● = Standard • Standard / ○ = Su richiesta • On request

Grafico forza / velocità – Force / speed graphs

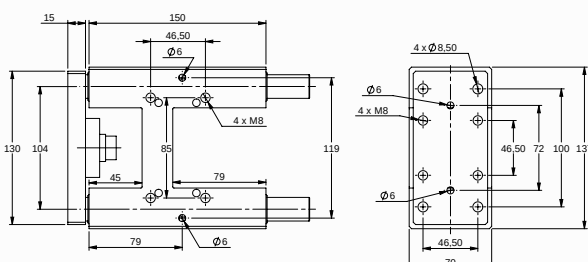
Motore M86SH156 - Tensione di alimentazione 120Vdc



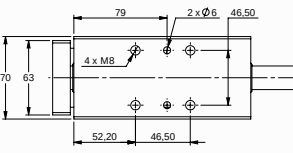
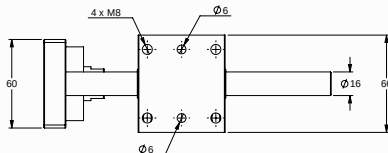
ACCESSORI GUIDASTELO • OPTIONAL LINEAR CONTROL UNIT



Guidastelo a C
C Linear control unit



Guidastelo a H
H Linear control unit



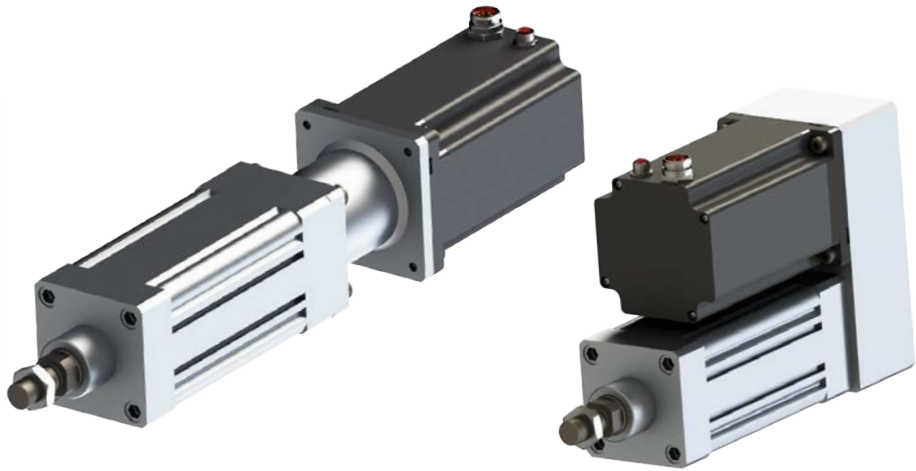
IEC080xxx

Servo electric cylinder stage

MOTORI ABBINABILI * MATCHING MOTORS *

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

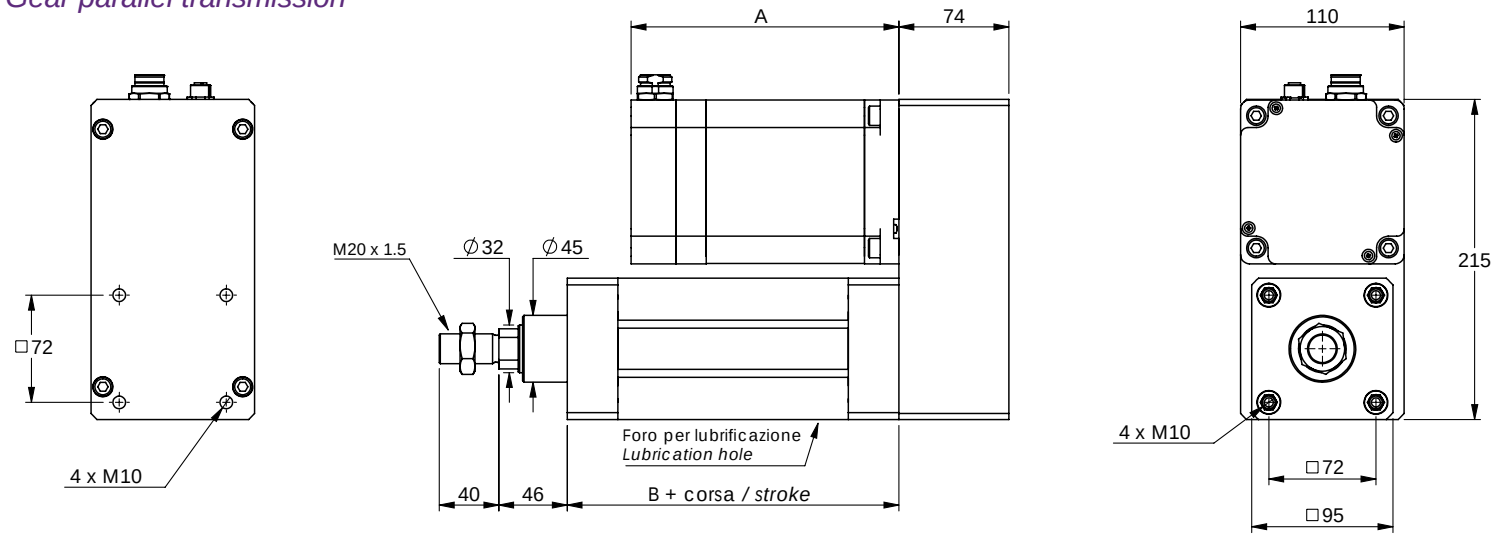
*Curve di coppia a pag.12
Torque curves on page 12



Mechanical dimensions

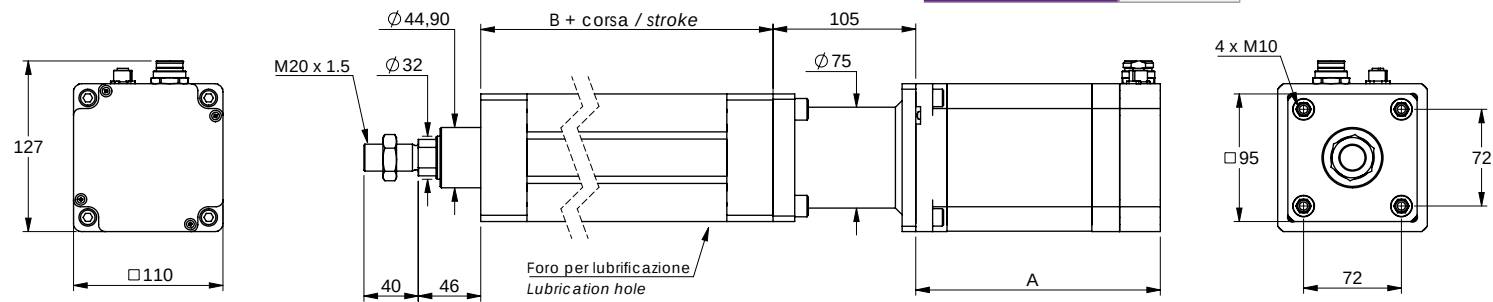
Montaggio motore rinviato

Gear parallel transmission



Montaggio motore diretto

In line direct transmission



Le dimensioni sono espresse in mm. • Dimensions are in mm.

Masse dei cilindri / Mass of cylinders

Motor	Direct transmission 0 stroke mass (gr)	Parallel transmission 0 stroke mass (gr)	Mass per mm of stroke (gr/mm)
M110SH99-Txx	11250	13200	12,5
M110SH150-Txx	14650	16600	
M110SH201-Txx	17950	19900	

Specifications

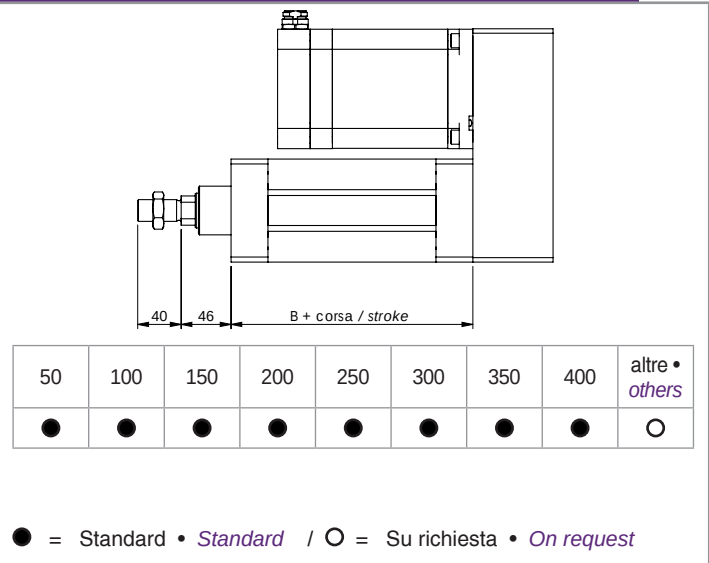
Modello Model	Passo vite Screw pitch	Tipo vite Screw type	Max carico dinamico * Max dynamic load *	Max carico statico * Max static load *	Antirotazione Anti-rotation	Precisione di posizio- namento Positioning accuracy	Ripetibilità Repeata- bility	Gioco assiale massimo Maximum backlash	Forza max spinta/tiro Max push/ pull force
	mm		N	N		mm	mm	mm	N
IEC080050	5	ricircolo di sfere ballscrew	15000	20000	●	±0,02	±0,01	±0,02	12000
IEC080100	10		10000	20000					
IEC080200	20		13000	20000					

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

* Maximum load applicable to the cylinder, independent from the torque of the motor

● = Standard • Standard
○ = Su richiesta • On request

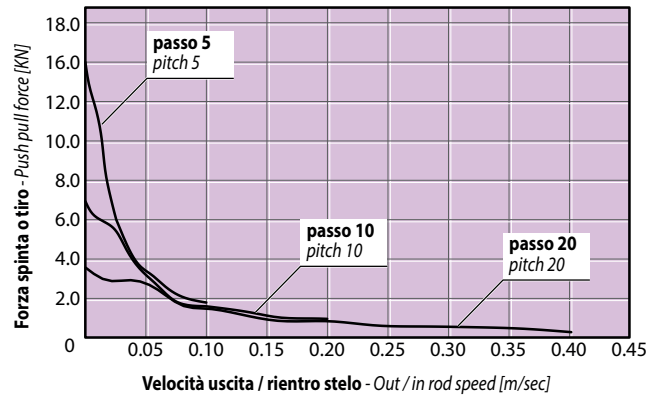
Corse cilindri / Cylinder strokes



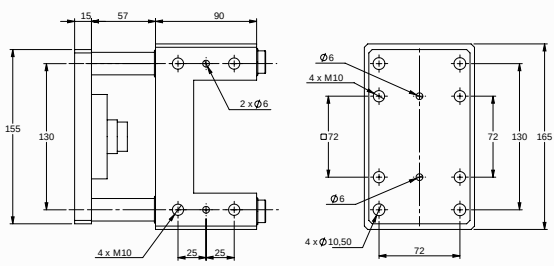
● = Standard • Standard / ○ = Su richiesta • On request

Grafico forza / velocità – Force / speed graphs

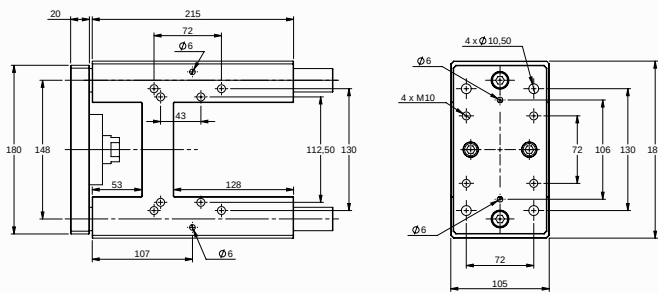
Motore M110SH150 - Tensione di alimentazione 120Vdc



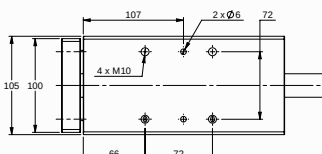
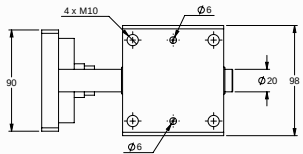
ACCESSORI GUIDASTELO • OPTIONAL LINEAR CONTROL UNIT



Guidastelo a C
C Linear control unit



Guidastelo a H
H Linear control unit



FRENI ELETTROMAGNETICI • ELECTROMAGNETIC BRAKES

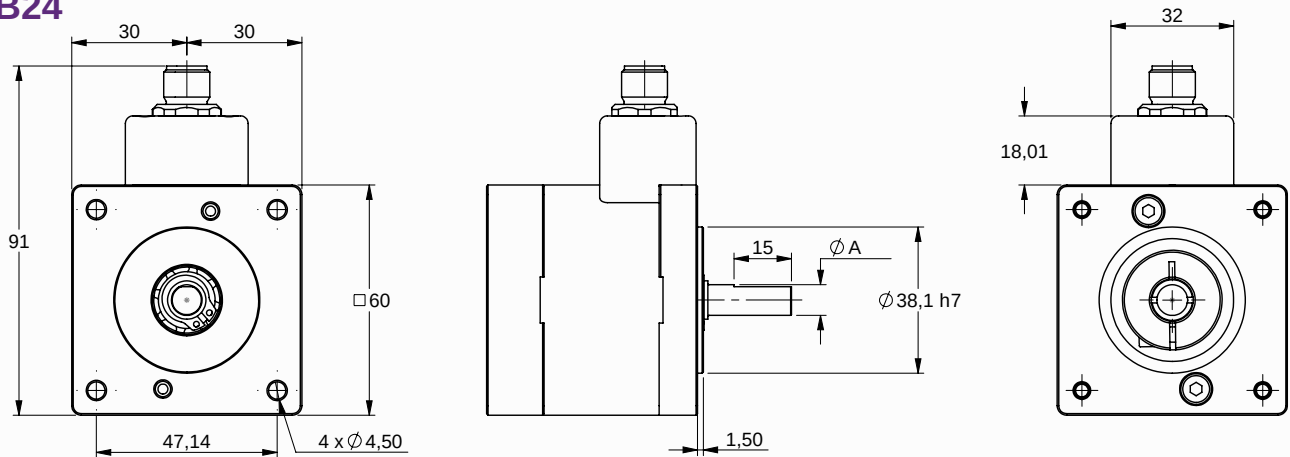
EB24 and EB34 are negative single disc electromagnetic brakes, closed by a spring mechanism and equipped with NEMA 24/NEMA 34 flange for an easy and quick mounting. It is used for a dry run as an holding brake.

Characteristics		EB24	EB34	U.M.
Braking torque		1,5	3,0	Nm
Max output torque (Nm)		5	13	Nm
Max axial force (Fa)		5	10	N
Max radial force (Fr)		5	10	N
Tripping time	Insertion	10	17	ms
	Disinsertion	21	35	ms
Maximum speed		3000	3000	RPM
Inertia		9	70	gcm ²
Operating temperature range		-10 .. +90	-10 .. +90	°C
Ambient temperature range		-10 .. +50	-10 .. +50	°C
Humidity range (no condensation)		95% or less	95% or less	%HR
Weight		750	1850	g
Supply		24	24	V _{dc}
Power		15	24	W

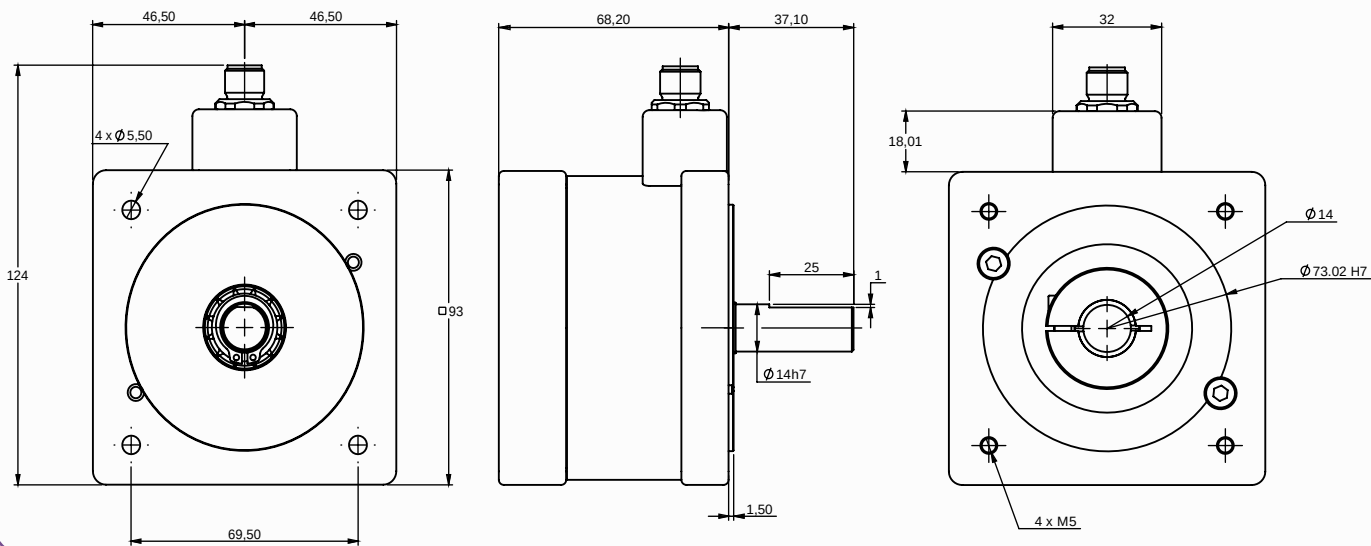


Mechanical dimensions

EB24



EB34



SENSORI DI FINE CORSA • LIMIT SWITCHES

Tipo • Type	Circuito • Circuit	Modello • Model	Codice • Code
		Sensore effetto Hall H	SENH-C-M8

CODICE D'ORDINE • ORDERING CODE

Modello • Model

Alesaggio 25 • Bore 25
Alesaggio 40 • Bore 40
Alesaggio 50 • Bore 50
Alesaggio 80 • Bore 80

Passo vite • Screw pitch

p = 5 mm
p = 10 mm
p = 12 mm
p = 16 mm
p = 20 mm

Corsa • Stroke

50 mm
100 mm
150 mm
200 mm
250 mm
300 mm
350 mm
400 mm
Altre corse su richiesta • Other strokes on request

IEC XXX XXX XXXX XX XXX XX XX

025
040
050
080

050
100
120
160
200

0050
0100
0150
0200
0250
0300
0350
0400
....

Unità di guida
Linear control unit

CB
HB
HR

"C" con bronzine • with brass bearing
"H" con bronzine • with brass bearing
"H" con cuscinetti a sfera • with ball bushing

Freno elettromagnetico • Electromagnetic brake

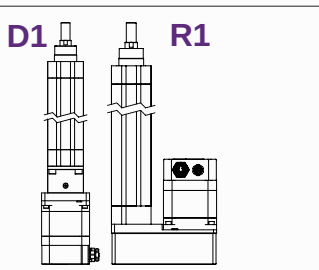
BC
BF

Uscita connettore (solo EB34) • Connector output (only EB34)
Uscita cavi • Wires output

Codice motore • Motor code

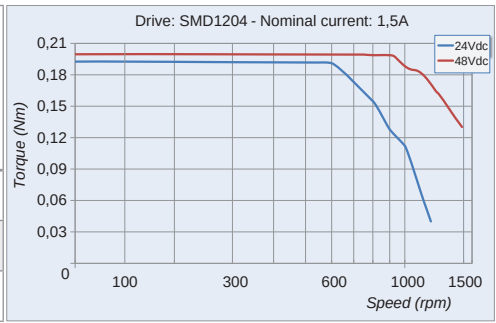
Mxx

Accoppiamento motore • Motor coupling

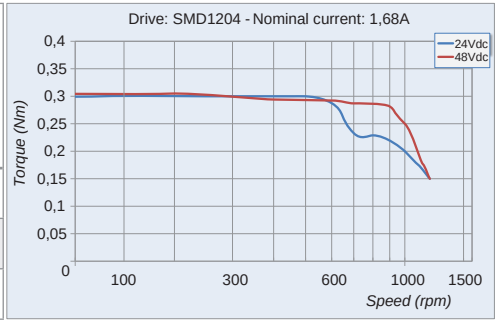


Motors

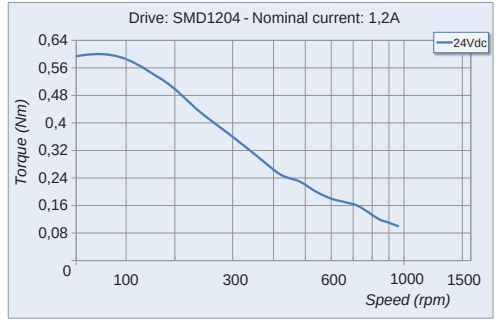
M42SH33-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M42SH33-T-C	M117	1,5 A	0,23 Nm	-	-
M42SH33-TO0512P24C	M140	1,5 A	0,23 Nm	Push-pull	512
M42SH33-TO0512L05C	M130	1,5 A	0,23 Nm	Line-driver	512



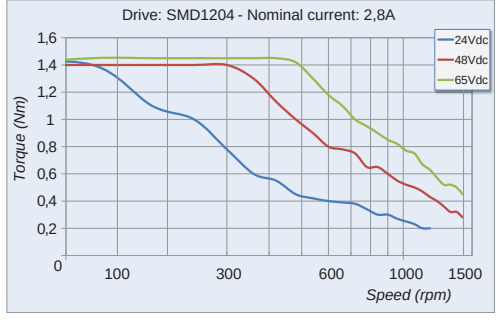
M42SH47-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M42SH47-T-C	M111	1,68 A	0,44 Nm	-	-
M42SH47-TO0512P24C	M141	1,68 A	0,44 Nm	Push-pull	512
M42SH47-TO0512L05C	M131	1,68 A	0,44 Nm	Line-driver	512



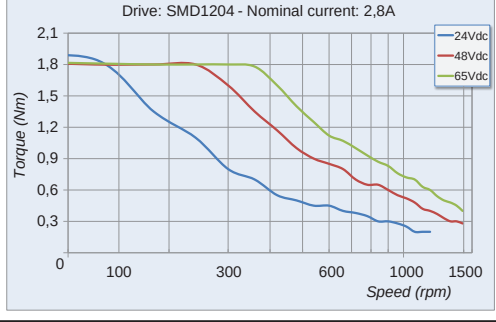
M42SH60-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M42SH60-T-C	M112	1,2 A	0,8 Nm	-	-
M42SH60-TO0512P24C	M142	1,2 A	0,8 Nm	Push-pull	512
M42SH60-TO0512L05C	M132	1,2 A	0,8 Nm	Line-driver	512



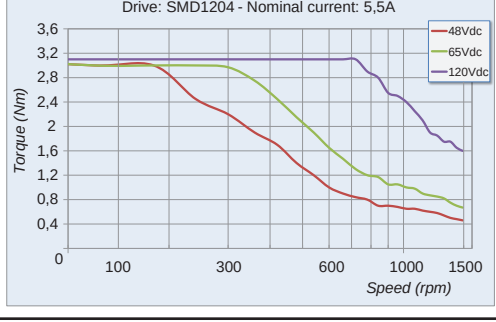
M60SH65-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M60SH65-T-C	M02	2,8 A	2,1 Nm	-	-
M60SH65-TO0512P24C	M90	2,8 A	2,1 Nm	Push-pull	512
M60SH65-TO0512L05C	M81	2,8 A	2,1 Nm	Line-driver	512



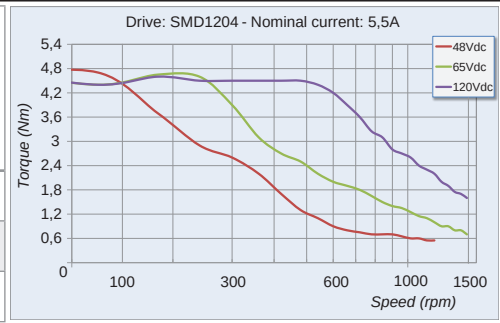
M60SH86-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M60SH86-T-C	M06	2,8 A	3,1 Nm	-	-
M60SH86-TO0512P24C	M91	2,8 A	3,1 Nm	Push-pull	512
M60SH86-TO0512L05C	M82	2,8 A	3,1 Nm	Line-driver	512



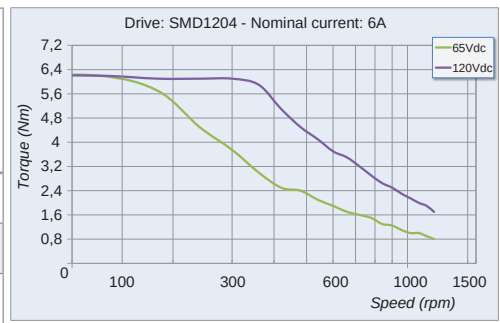
M86SH80-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M86SH80-T-C	M15	5,5 A	4,6 Nm	-	-
M86SH80-TO0512P24C	M92	5,5 A	4,6 Nm	Push-pull	512
M86SH80-TO0512L05C	M83	5,5 A	4,6 Nm	Line-driver	512



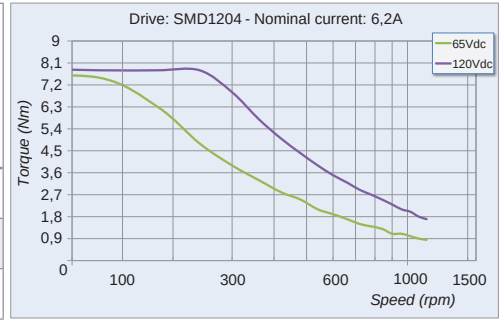
M86SH96-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M86SH96-T-C	M216	5,6 A	6,5 Nm	-	-
M86SH96-TO0512P24C	M217	5,6 A	6,5 Nm	Push-pull	512
M86SH96-TO0512L05C	M218	5,6 A	6,5 Nm	Line-driver	512



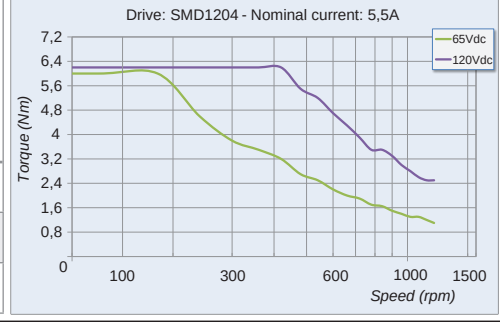
M86SH118-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M86SH118-T-C	M18	6,0 A	8,7 Nm	-	-
M86SH118-TO0512P24C	M93	6,0 A	8,7 Nm	Push-pull	512
M86SH118-TO0512L05C	M84	6,0 A	8,7 Nm	Line-driver	512



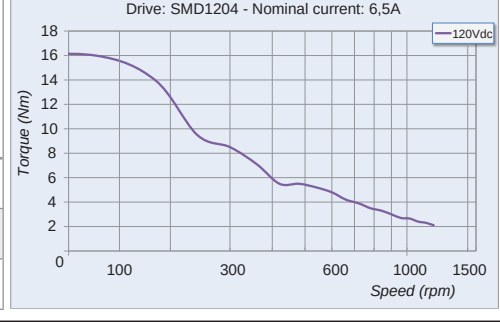
M86SH156-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M86SH156-T-C	M22	6,2 A	12,8 Nm	-	-
M86SH156-TO0512P24C	M94	6,2 A	12,8 Nm	Push-pull	512
M86SH156-TO0512L05C	M85	6,2 A	12,8 Nm	Line-driver	512



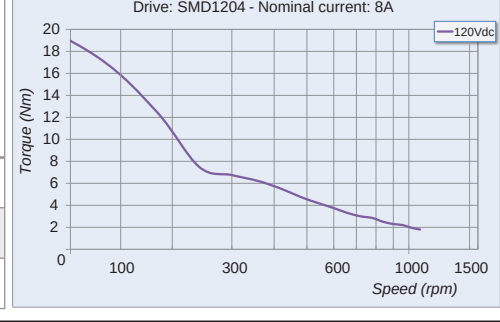
M110SH99-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
M110SH99-T-C	M32	5,5 A	11,2 Nm	-	-
M110SH99-TO0512P24C	M95	5,5 A	11,2 Nm	Push-pull	512
M110SH99-TO0512L05C	M86	5,5 A	11,2 Nm	Line-driver	512



M110SH150-Tx	Codice motore <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
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 <i>Motor code</i>	Corrente di fase <i>Phase current</i>	Coppia di mantenimento <i>Holding torque</i>	Encoder <i>Encoder</i>	Impulsi/ giro enco-der <i>Encoder pulse/revolu-tion</i>
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



Dynamic laying cables

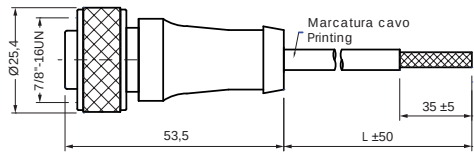
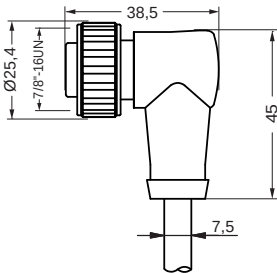
Cables with 7/8" female connector, for stepper motors series M86SHxx and M110SHxx.

Modello - <i>model</i>	Nr. conduttori	Sezione	Caratteristiche	Materiale guaina	Materiale isolante	Diametro esterno	Lunghezza
	nr. of wires	Section	Characteristics	Sheat material	Insulation material	Outer diameter	Length
	N	mm ²				mm	m
CONV05FDR78C04SU100	4 + 1	1,00	UL-CSA 300 V 80°C	PUR	PP 9Y	7,4	4
CONV05FDR78C12SU100	4 + 1	1,00	UL-CSA 300 V 80°C	PUR	PP 9Y	7,4	12

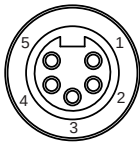
CONV05Fxx78CxxSU100

Cavo motore preassemblato
7/8" 5 vie femmina

7/8" 5 ways female $\neq$
preassembled motor cable



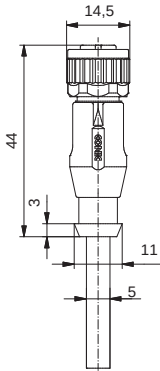
Schermo non connesso alla ghiera
Shield not connected to the nut



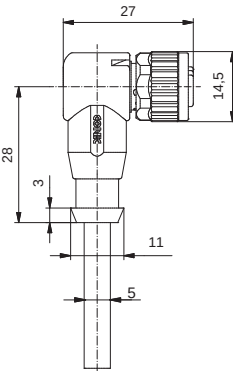
Phase A	1	BLACK
Phase A -	2	BLUE
Ground	3	YELLOW/GREEN
Phase B	4	BN
Phase B -	5	WH

Cables with M12 female connector, for stepper motors series M42SHxx/M57SHxx/M60SHxx.

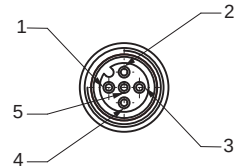
Modello - <i>model</i>	Connettore	Nr. conduttori	Sezione	Caratteristiche	Materiale guaina	Materiale isolante	Diametro esterno	Lunghezza
	Connector	nr. of wires	Section	Characteristics	Sheat material	Insulation material	Outer diameter	Length
		N	mm ²				mm	m
CONV05FM12C04SU034	Dritto	5	0,34	UL20549	PUR	PP 9Y	5,8	4
CONV05FDRM12C12SU034	Dritto	5	0,34	UL20549	PUR	PP 9Y	5,8	12
CONV05F90M12C04SU034	Angolato	5	0,34	UL20549	PUR	PP 9Y	5,8	4



Dritto



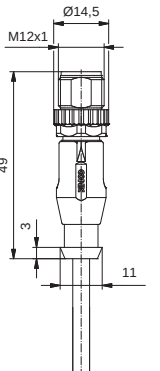
Angolato



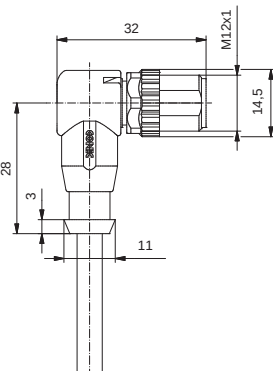
Phase A -	1	BROWN (BN)
Phase A	2	WHITE (WH)
Phase B -	3	BLUE (BL)
Phase B	4	BLACK (BK)
Ground	5	GREY (GY)

Cables with M12 male connector, for AEC integrated Push Pull encoders.

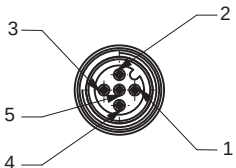
Modello - <i>model</i>	Connettore	Nr. conduttori	Sezione	Caratteristiche	Materiale guaina	Materiale isolante	Diametro esterno	Lunghezza
	Connector	nr. of wires	Section	Characteristics	Sheat material	Insulation material	Outer diameter	Length
		N	mm ²				mm	m
CONV05MDRM12C04SU025	Dritto	5	0,25	UL20549	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



Dritto



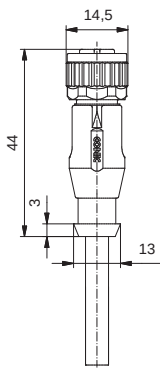
Angolato



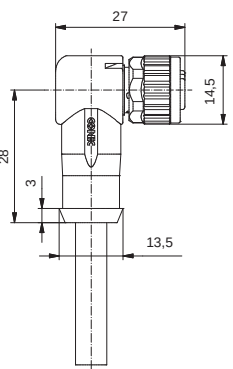
+24 Vdc	1	BROWN (BN)
Channel A	2	WHITE (WH)
Ground	3	BLUE (BL)
Channel B	4	BLACK (BK)
Channel Z	5	GREY (GY)

Cables with M12 female connector, for AEC integrated Line Driver encoders.

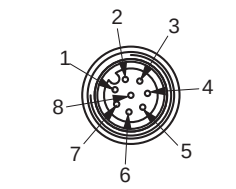
Modello - <i>model</i>	Connettore	Nr. conduttori	Sezione	Caratteristiche	Materiale guaina	Materiale isolante	Diametro esterno	Lunghezza
	Connector	nr. of wires	Section	Characteristics	Sheat material	Insulation material	Outer diameter	Length
		N	mm ²				mm	m
CONV08FDRM12C04SU025	Dritto	8	0,25	UL20549	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



Dritto



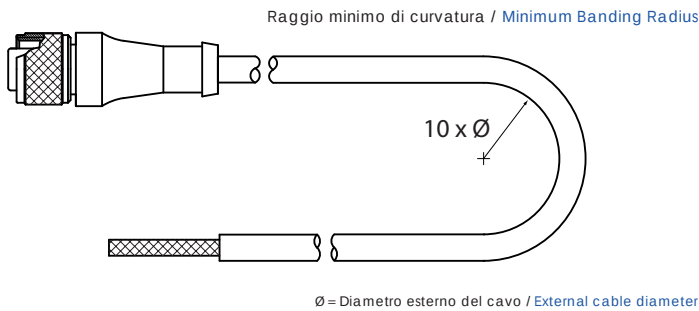
Angolato



Ch. Z+	1	WHITE (WH)
+Vin	2	BROWN (BN)
Ch. A +	3	GREEN (GN)
Ch. A -	4	YELLOW (YL)
Ch. B +	5	GREY (GY)
Ch. B -	6	PINK (PK)
Common	7	BLUE (BL)
Ch. Z -	8	RED (RD)

SPECIFICHE	UM	CONV05Fxx78CxxSU100	CONV05FxxM12CxxSU034	CONV05MxxM12CxxSU025	CONV08FxxM12CxxSU025
Temperatura posa mobile / Dynamic laying temperature	°C	-30 .. +80	-25 .. +80	-25 .. +80	-25 .. +80
Temperatura posa fissa / Static laying temperature	°C	-30 .. +80	-25 .. +80	-25 .. +80	-25 .. +80
Formazione sezione / Stranding	N x mm	cl 6	32 x 0,10	42 x 0,10	32 x 0,10
Raggio di curvatura / Banding radius min	mm	10 x Ø	10 x Ø	10 x Ø	10 x Ø
Tensione nominale / Nominale voltage	V	300	300	300	300
Tensione di prova / Testing voltage	V	2000	2000	2000	2000
Note materiale guaina / Sheat material notes		Halogen free	Halogen free	Halogen free	Halogen free
Note materiale isolante / Insulation material notes		Halogen free	Halogen free	Halogen free	Halogen free
Colore / Colour		Black	Black	Black	Black

SIGLA	DESCRIZIONE
BK	Nero / Black
BN	Marrone / Brown
BU	Blu / Blue
GN	Verde / Green
GY	Grigio / Grey
PK	Rosa / Pink
RD	Rosso / Red
YE	Giallo / Yellow
WH	Bianco / White



Ø = Diametro esterno del cavo / External cable diameter



Linear actuators

- *Ball-screw linear axes*
- *Belt linear axes*
- *ISO electric cylinders*
- *Pick and Place*



Rotary actuators

- *Self-supporting programmable rotary tables*
- *Format changeover*
- *Parts orientation*



Transport systems

- *Variable pitch conveyors*
- *Controlled speed roller tables*
- *Reduced backlash motorgearboxes*



Unwinding systems

- *Label applicators*
- *Variable or constant pitch unwinding machines*
- *Sheeter machines*

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