

## Modello ALI3

- Motore A.C. monofase-trifase CE
- Motore a magneti permanenti CE
- Riduttore vite senza fine-ruota elicoidale
- Stelo filettato trapezoidale
- Asta traslante in acciaio cromato
- Lubrificazione permanente a grasso
- IP 50 / IP 65
- Temperatura di funzionamento -10°C +60°C
- Impiego intermittente S3 30% (5 min)\*
- Peso: 2,4 kg (con corsa 100 mm)
- Fine corsa, potenziamento ed encoder a richiesta

(\*) Per impieghi diversi contattare il Ns Ufficio Tecnico

## Model ALI3

- Three phase or single phase Motor CE
- Permanent magnet motor CE
- Worm gearbox
- ACME lead screw
- Chrome plated steel push rod
- Permanent lubrication by grease
- IP 50 / IP 65
- Temperature range -10°C +60°C
- Intermittent duty S3 30% (5 min)\*
- Weight: 12,4 kg (with 100 mm stroke)
- Limit switches, potentiometer and encoder on request

(\*) For any special duty please contact our offices

### ALI3 (Vdc)

Fmax [N]	Velocità [mm/s]	Versione	Taglia motore	Giri motore [rpm]	Rapporti Riduzione	Diametro vite [mm]	Passo [mm]	Rendimento
Fmax [N]	Speed [mm/s]	Version	Motor size	Motor speed [rpm]	Gearbox Reduction Ratio	Screw Diameter [mm]	Pitch [mm]	Efficiency
3000	35	M01	59	5000	2/52	16	12	0,37
3000	25	M02	59	5000	2/52	16	8	0,27
5000	14	M03	59	5000	2/52	16	4	0,23
5000	9	M04	59	5000	1/69	16	8	0,26
5000	5	M05	59	5000	1/69	16	4	0,22

### ALI3 VRS (ballscrew) (Vdc)

Fmax [N]	Velocità [mm/s]	Versione	Taglia motore	Giri motore [rpm]	Rapporti Riduzione	Diametro vite [mm]	Passo [mm]	Rendimento
Fmax [N]	Speed [mm/s]	Version	Motor size	Motor speed [rpm]	Gearbox Reduction Ratio	Screw Diameter [mm]	Pitch [mm]	Efficiency
5000	15	M06	59	5000	2/52	14	5	0,56
5000	5	M07	59	5000	1/69	14	5	0,54

### ALI3 (Vac Motore IEC50 S3 30% 5min - Solo trifase - Classe F)

Fmax [N]	Vel. [mm/s]	Versione	Taglia motore	Potenza mot. [kW]	Giri motore [rpm]	Rapporti Riduzione	D. vite [mm]	Passo [mm]	Rendimento
Fmax [N]	Speed [mm/s]	Version	Motor size	Motor Power [kW]	Motor speed [rpm]	Gearbox Red. Ratio	Screw D [mm]	Pitch [mm]	Efficiency
2000	20	M01	IEC50	0,13	2800	2/52	16	12	0,37
2200	14	M02	IEC50	0,13	2800	2/52	16	8	0,27
3500	7	M03	IEC50	0,13	2800	2/52	16	4	0,23
5000	5	M04	IEC50	0,13	2800	1/69	16	8	0,26
5000	2,5	M05	IEC50	0,13	2800	1/69	16	4	0,22

### ALI3 VRS (ballscrew) (Vac Motore IEC50 S3 30% 5min - Solo trifase - Classe F)

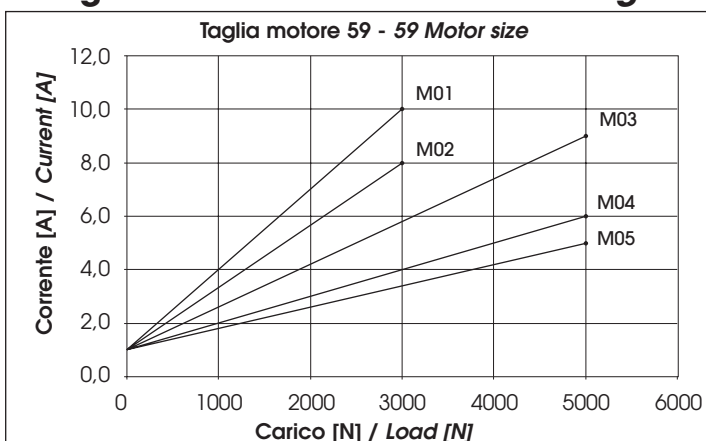
Fmax [N]	Vel. [mm/s]	Versione	Taglia motore	Potenza mot. [kW]	Giri motore [rpm]	Rapporti Riduzione	D. vite [mm]	Passo [mm]	Rendimento
Fmax [N]	Speed [mm/s]	Version	Motor size	Motor Power [kW]	Motor speed [rpm]	Gearbox Red. Ratio	Screw D [mm]	Pitch [mm]	Efficiency
5000	9	M06	IEC50	0,13	2800	2/52	14	5	0,56
5000	3,5	M07	IEC50	0,13	2800	1/69	14	5	0,54

Nota: con motore Vac monofase il valore "Fmax [N]" diminuisce del 35%.

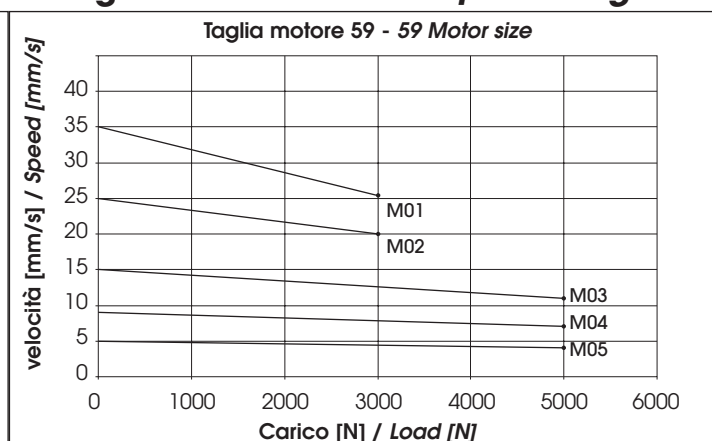
Note: "Fmax [N]" is 35 % lower when a single phase motor is used

### ALI3 (Vdc)

#### Diagrammi di corrente - Current diagram



#### Diagrammi di velocità - Speed diagram



Diagrammi riferiti alla tensione di alimentazione 24Vdc. Per tensione 12Vdc raddoppiare il valore di corrente e ridurre il valore di carico del 20%. Per tensione 36Vdc ridurre il valore di corrente del 30% e lasciare inalterata la velocità.

Per una corretta scelta dell'attuatore idoneo alla Vs. applicazione si devono utilizzare le informazioni tecniche che trovate nel fascicolo "Guida alla Scelta degli Attuatori e dei Martinetti Elettromeccanici".

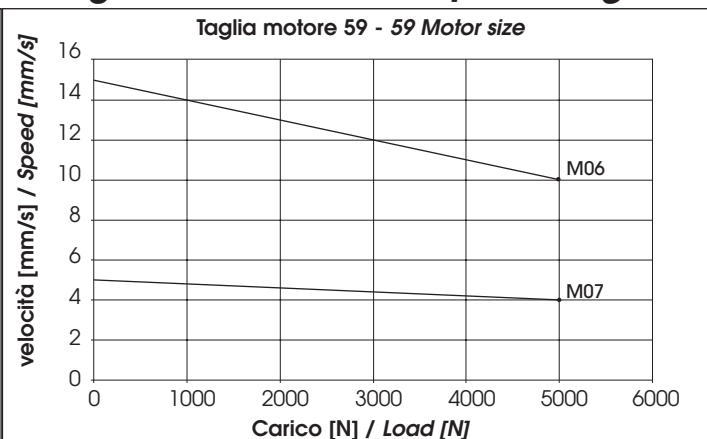
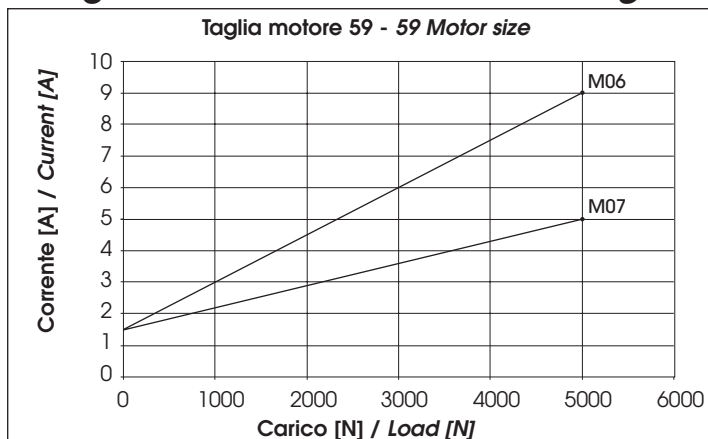
Diagrams valids for 24Vdc power supply. For 12Vdc power supply currents are doubled and loads are 20% slower. For 36Vdc power supply currents are 30% lower and speeds remain the same.

Elements and technical information available in "Electromechanical Actuators + Jack Choice Guideline" have to be carefully considered in order to perform a proper actuator selection according to your application.

## ALI3-VRS (Vdc)

### Diagrammi di corrente - Current diagram

### Diagrammi di velocità - Speed diagram



### Modello ALI3-R

- Motore A.C. monofase-trifase CE
- Motore a magneti permanenti CE
- Riduttore vite senza fine-ruota elicoidale
- Lubrificazione permanente a grasso
- IP 50 / IP 65
- Temperatura di funzionamento -10°C +60°C
- Impiego intermittente S3 30% (5 min)\*
- Peso: 1,9 kg (con corsa 100 mm)
- Fine corsa, potenziamento ed encoder a richiesta

(\*) Per impieghi diversi contattare il Ns Ufficio Tecnico

### Model ALI3-R

- Three phase or single phase Motor CE
- Permanent magnet motor CE
- Worm gearbox
- Permanent lubrication by grease
- IP 50 / IP 65
- Temperature range -10°C +60°C
- Intermittent duty S3 30% (5 min)\*
- Weight: 1,9 kg (with 100 mm stroke)
- Limit switches, potentiometer and encoder on request

(\*) For any special duty please contact our offices

### ALI3-R (Vdc)

Coppia max [Nm] Max torque [Nm]	Velocità [rpm] Speed [rpm]	Versione Version	Taglia motore Motor size	Giri motore [rpm] Motor speed [rpm]	Rapporti Riduzione Gearbox Reduction Ratio	Rendimento Efficiency
25	70	R01	59	5000	1/69	0,60
10	190	R02	59	5000	2/52	0,62

### ALI3-R (Vac)

Coppia max [Nm] Max torque [Nm]	Velocità [rpm] Speed [rpm]	Versione Version	Taglia motore Motor size	Giri motore [rpm] Motor speed [rpm]	Rapporti Riduzione Gearbox Reduction Ratio	Rendimento Efficiency
15	40	R03	IEC50	2800	1/69	0,60
6	105	R04	IEC50	2800	2/52	0,62

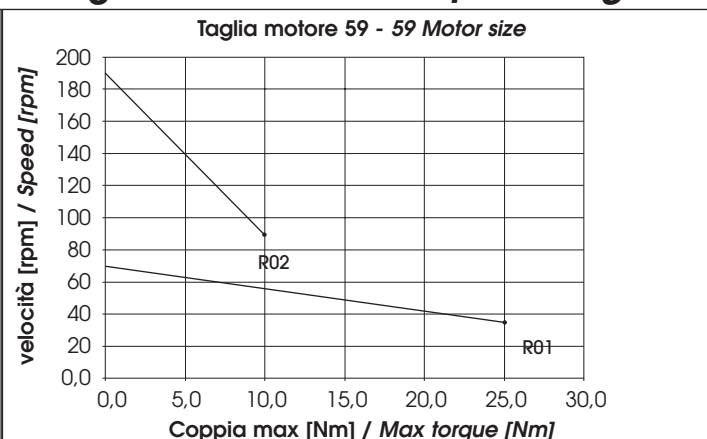
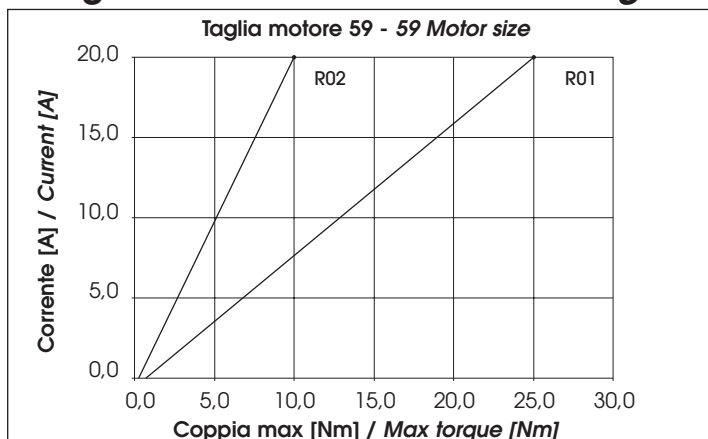
Nota: con motore Vac monofase il valore "Fmax [N]" diminuisce del 35%.

Note: "Fmax [N]" is 35 % lower when a single phase motor is used

### ALI3-R (Vdc)

### Diagrammi di corrente - Current diagram

### Diagrammi di velocità - Speed diagram



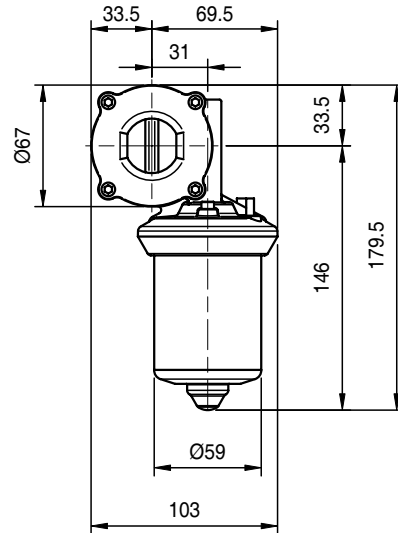
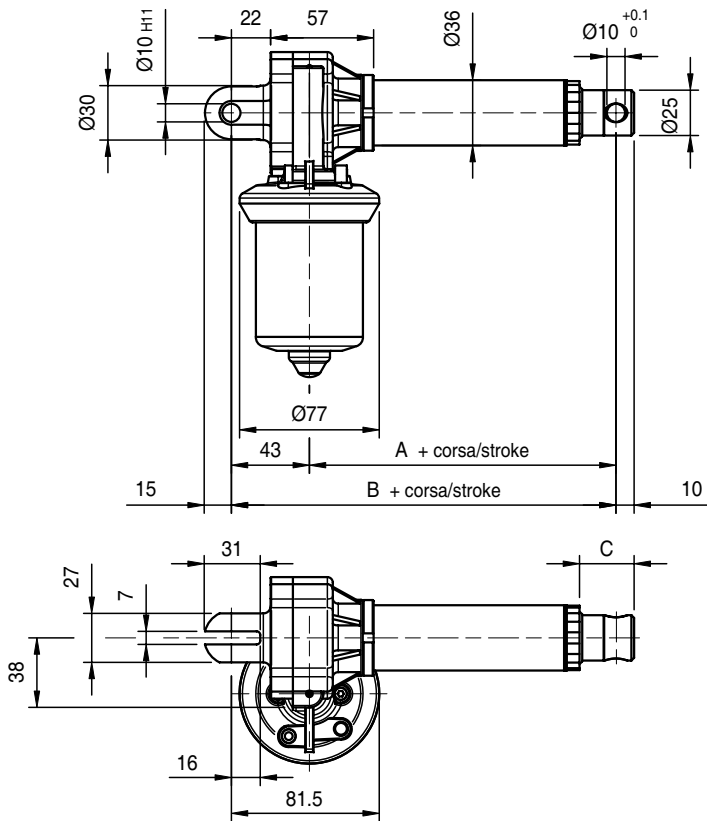
Diagrammi riferiti alla tensione di alimentazione 24Vdc. Per tensione 12Vdc raddoppiare il valore di corrente e ridurre il valore di carico del 20%. Per tensione 36Vdc ridurre il valore di corrente del 30% e lasciare inalterata la velocità.

Per una corretta scelta dell'attuatore idoneo alla Vs. applicazioni si devono utilizzare le informazioni tecniche che trovate nel fascicolo "Guida alla Scelta degli Attuatori e dei Martinetti Elettromeccanici".

Diagrams valid for 24Vdc power supply. For 12Vdc power supply currents are doubled and loads are 20% slower. For 36Vdc power supply currents are 30% lower and speeds remain the same.

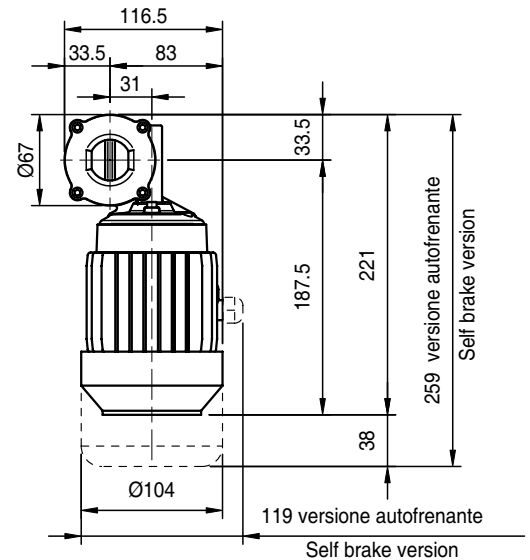
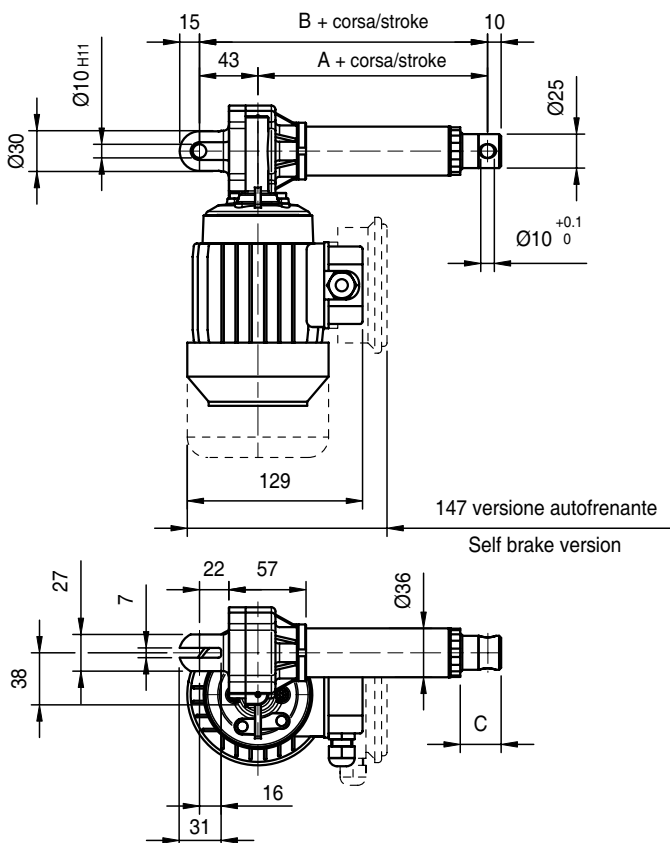
Elements and technical information available in "Electromechanical Actuators + Jack Choice Guideline" have to be carefully considered in order to perform a proper actuator selection according to your application.

**ALI3 - Versione C.C. / D.C. Version**



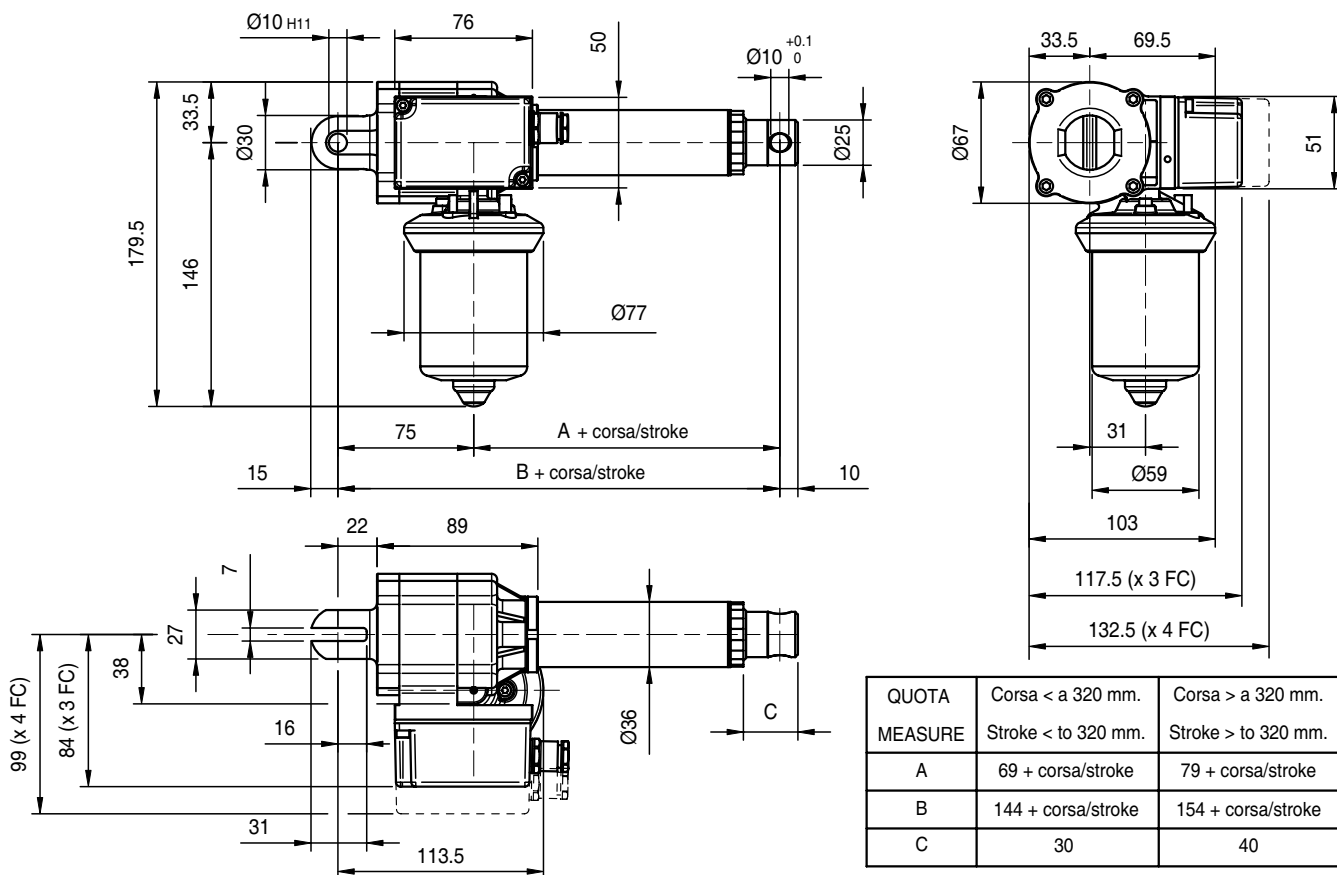
QUOTA	Corsa < a 320 mm.	Corsa > a 320 mm.
MEASURE	Stroke < to 320 mm.	Stroke > to 320 mm.
A	69 + corsa/stroke	79 + corsa/stroke
B	112 + corsa/stroke	122 + corsa/stroke
C	30	40

**ALI3 - Versione C.A. / A.C. Version**

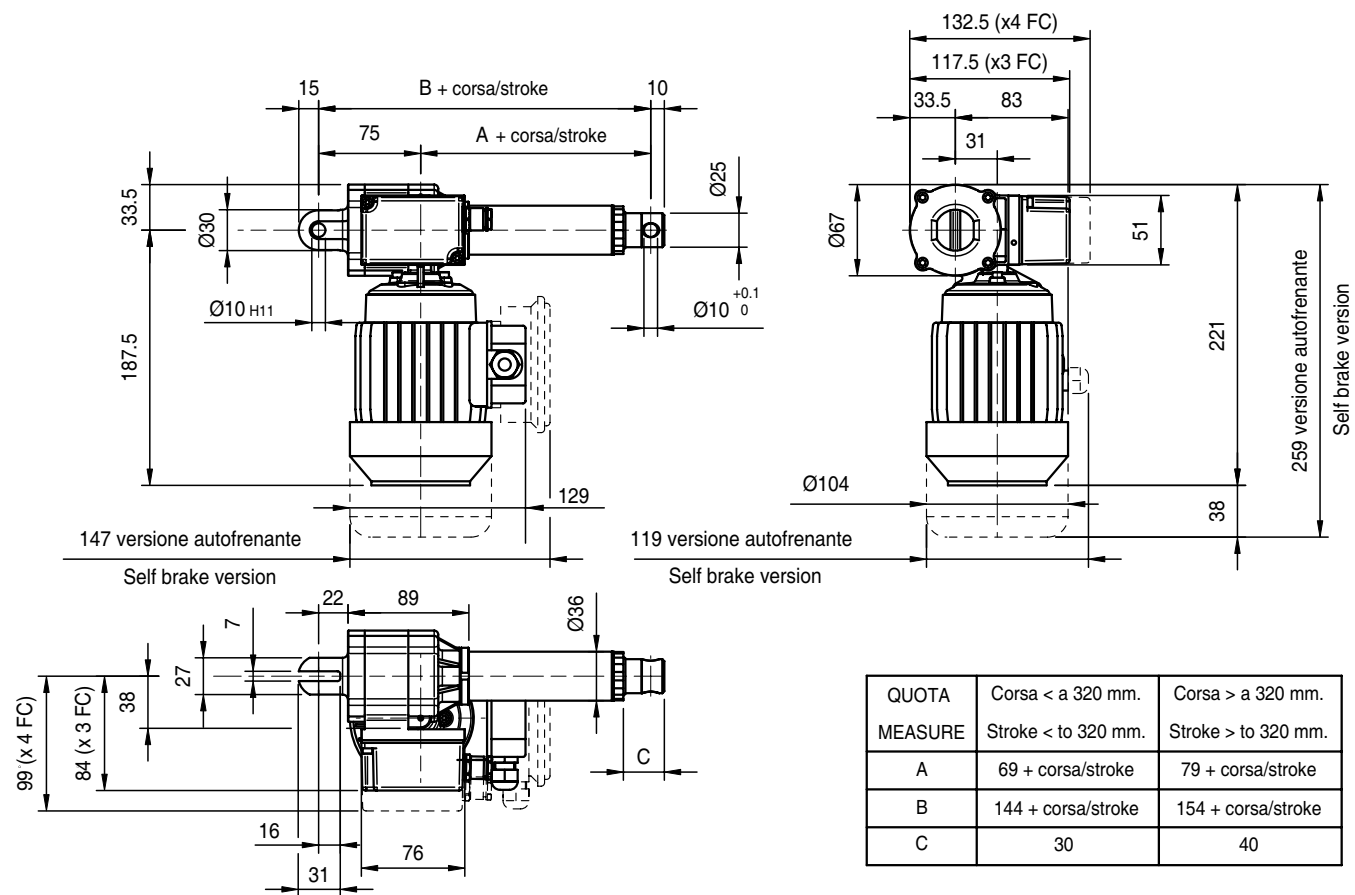


QUOTA	Corsa < a 320 mm.	Corsa > a 320 mm.
MEASURE	Stroke < to 320 mm.	Stroke > to 320 mm.
A	69 + corsa/stroke	79 + corsa/stroke
B	112 + corsa/stroke	122 + corsa/stroke
C	30	40

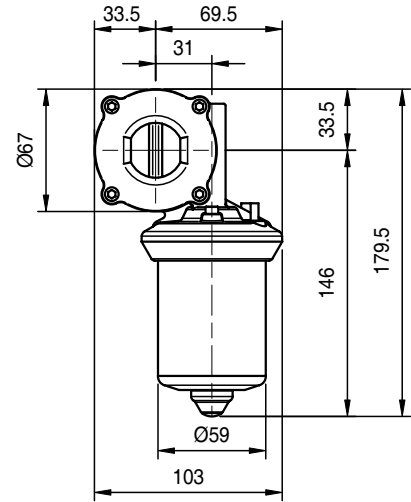
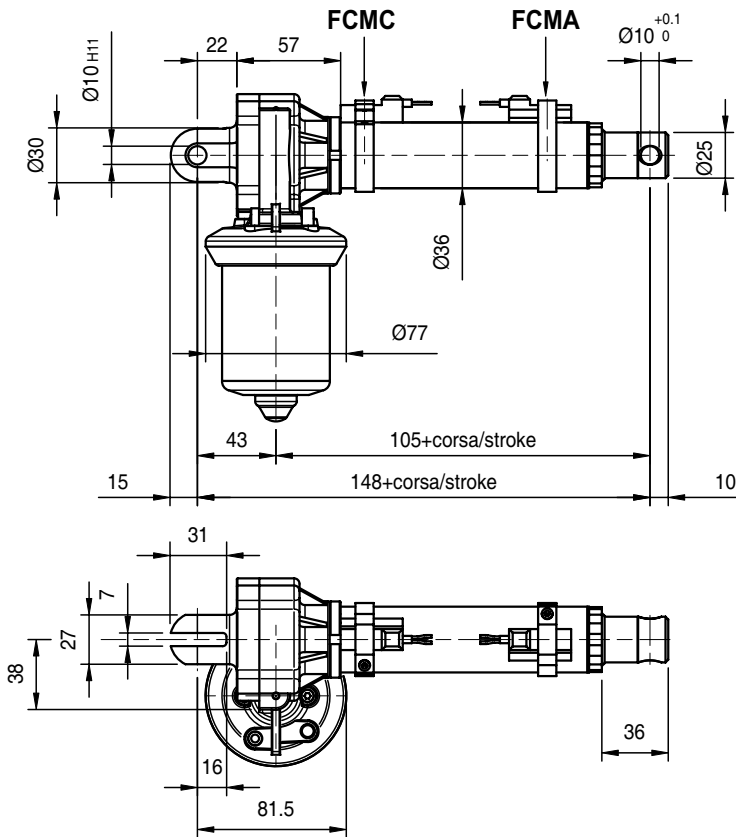
**ALI3-F - Versione C.C. / D.C. Version**



**ALI3-F - Versione C.A. / A.C. Version**



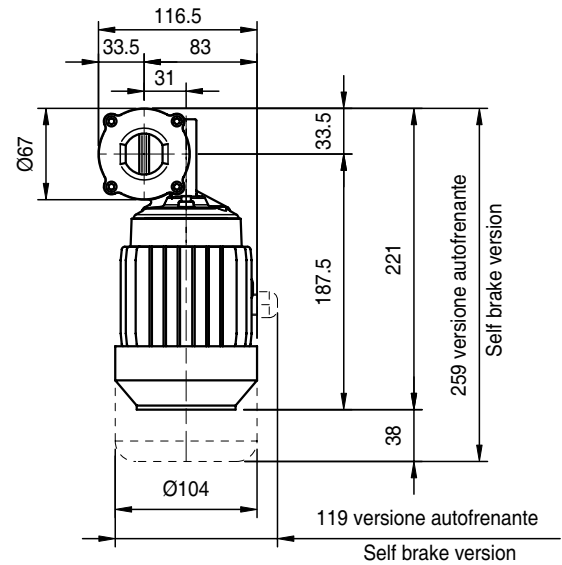
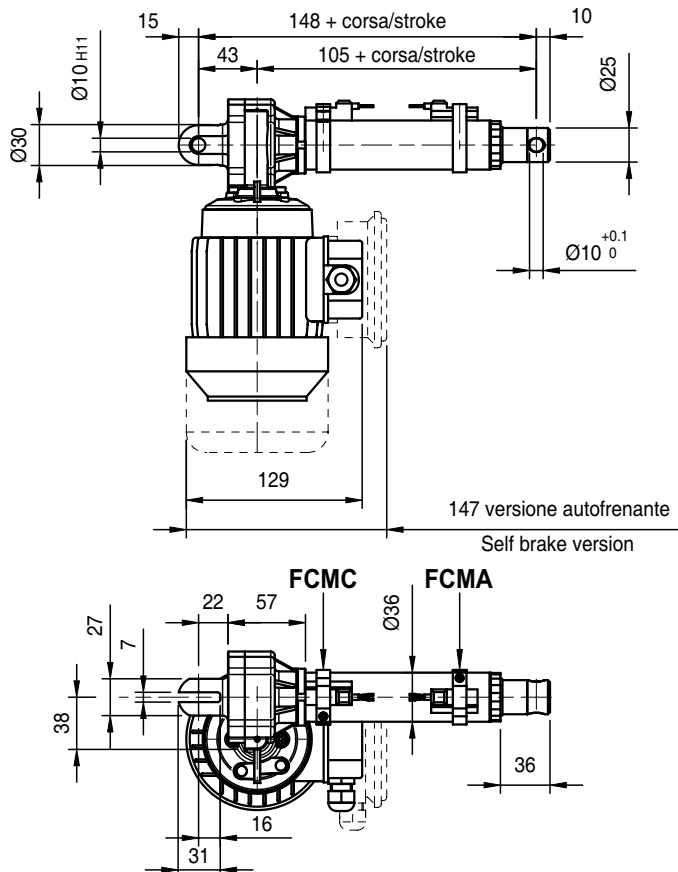
**ALI3-FCM - Versione C.C. / D.C. Version**



**FCMC** = Finecorsa magnetico chiusura  
**FCMA** = Finecorsa magnetico apertura

**FCMC** = Closing magnetic switch  
**FCMA** = Opening magnetic switch

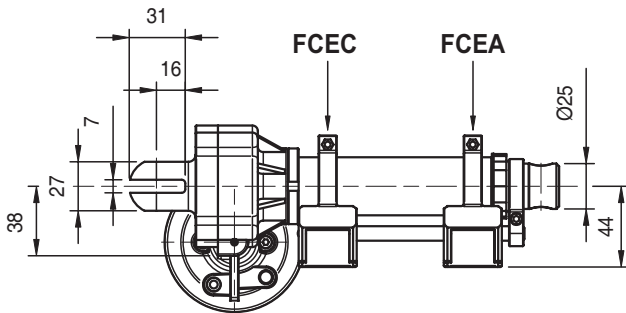
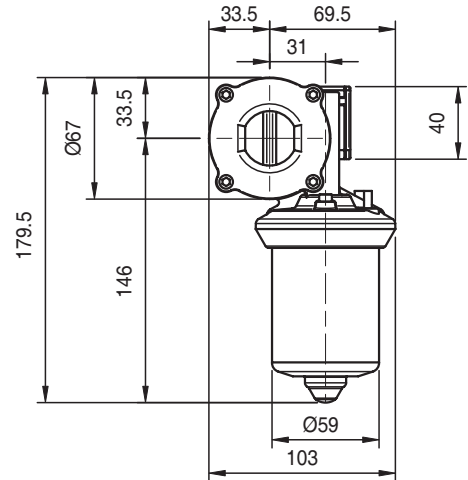
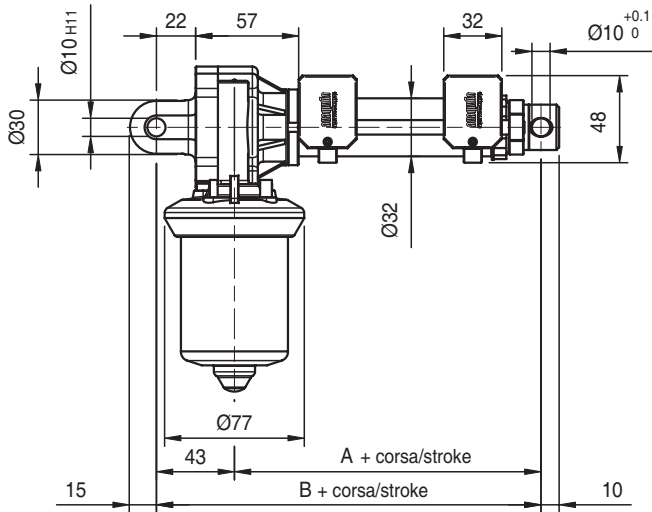
**ALI3-FCM - Versione C.A. / A.C. Version**



**FCMC** = Finecorsa magnetico chiusura  
**FCMA** = Finecorsa magnetico apertura

**FCMC** = Closing magnetic switch  
**FCMA** = Opening magnetic switch

**ALI3-FCE - Versione C.C. / D.C. Version**



QUOTA	Corsa < a 320 mm.	Corsa > a 320 mm.
MEASURE	Stroke < to 320 mm.	Stroke > to 320 mm.
A	69 + corsa/stroke	79 + corsa/stroke
B	112 + corsa/stroke	122 + corsa/stroke

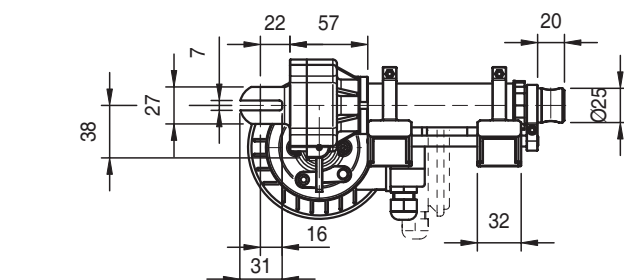
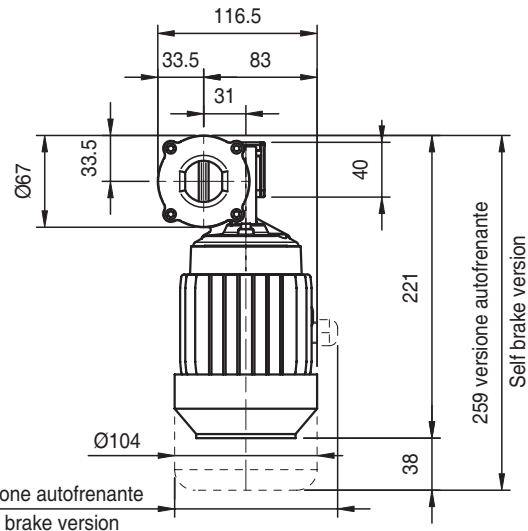
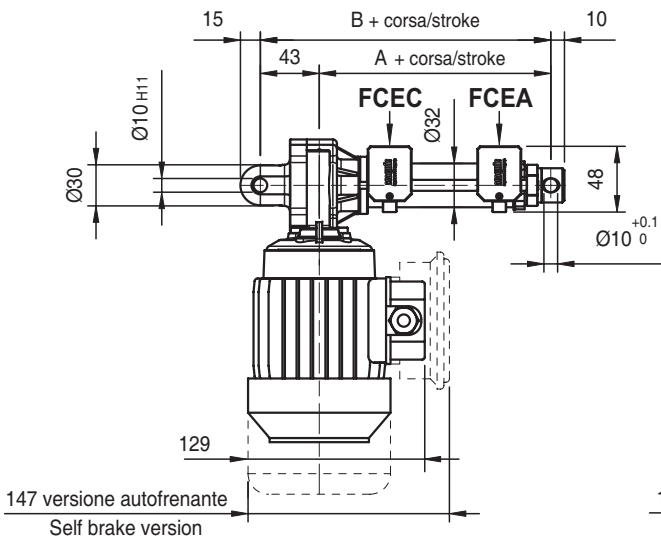
**FCEC** = Finecorsa meccanico chiusura  
**FCEA** = Finecorsa meccanico apertura

**FCEC** = Closing mechanical switch  
**FCEA** = Opening mechanical switch

**N.B.:** In questa versione non è applicabile l'opzione dell'antirrotazione.

**Note:** Antirrotation key is not available in this version.

**ALI3-FCE - Versione C.A. / A.C. Version**



QUOTA	Corsa < a 320 mm.	Corsa > a 320 mm.
MEASURE	Stroke < to 320 mm.	Stroke > to 320 mm.
A	69 + corsa/stroke	79 + corsa/stroke
B	112 + corsa/stroke	122 + corsa/stroke

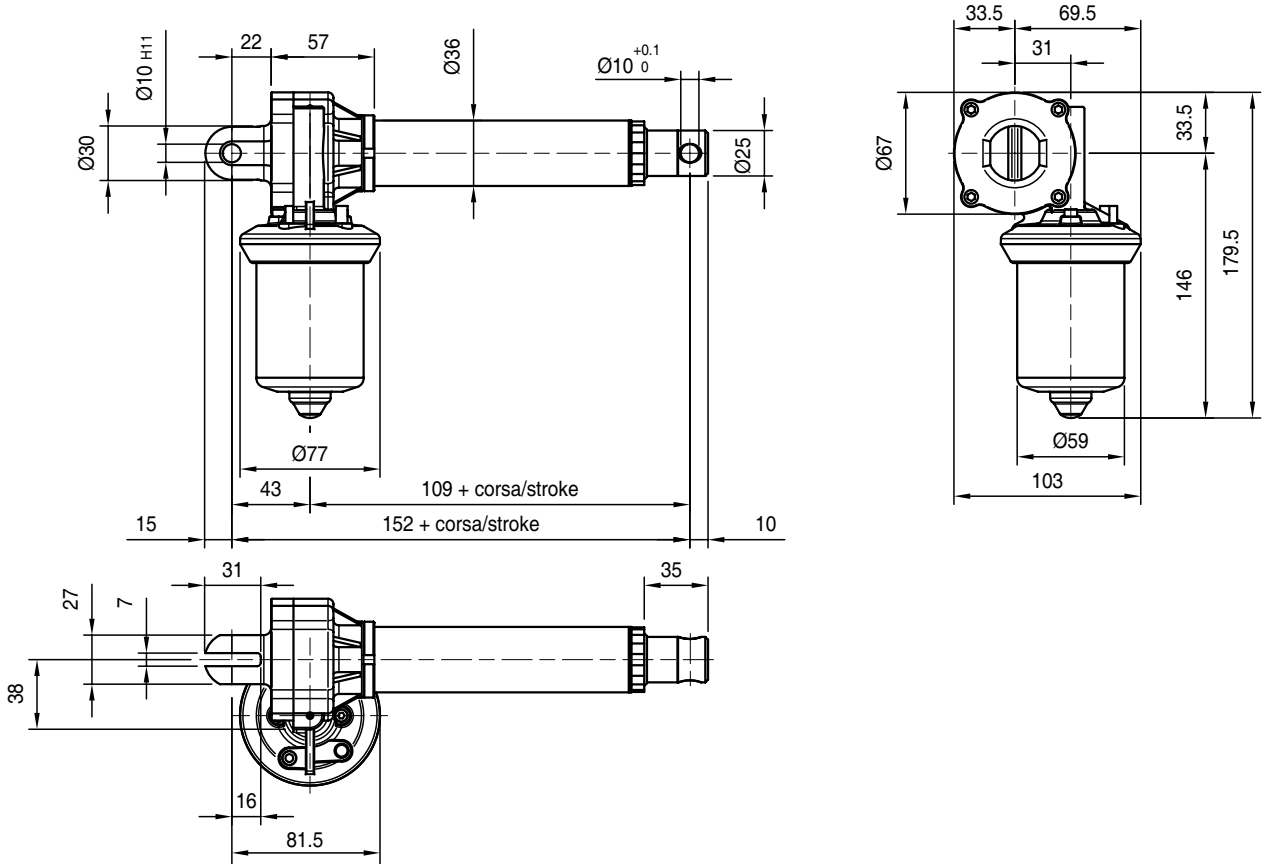
**FCEC** = Finecorsa meccanico chiusura  
**FCEA** = Finecorsa meccanico apertura

**FCEC** = Closing mechanical switch  
**FCEA** = Opening mechanical switch

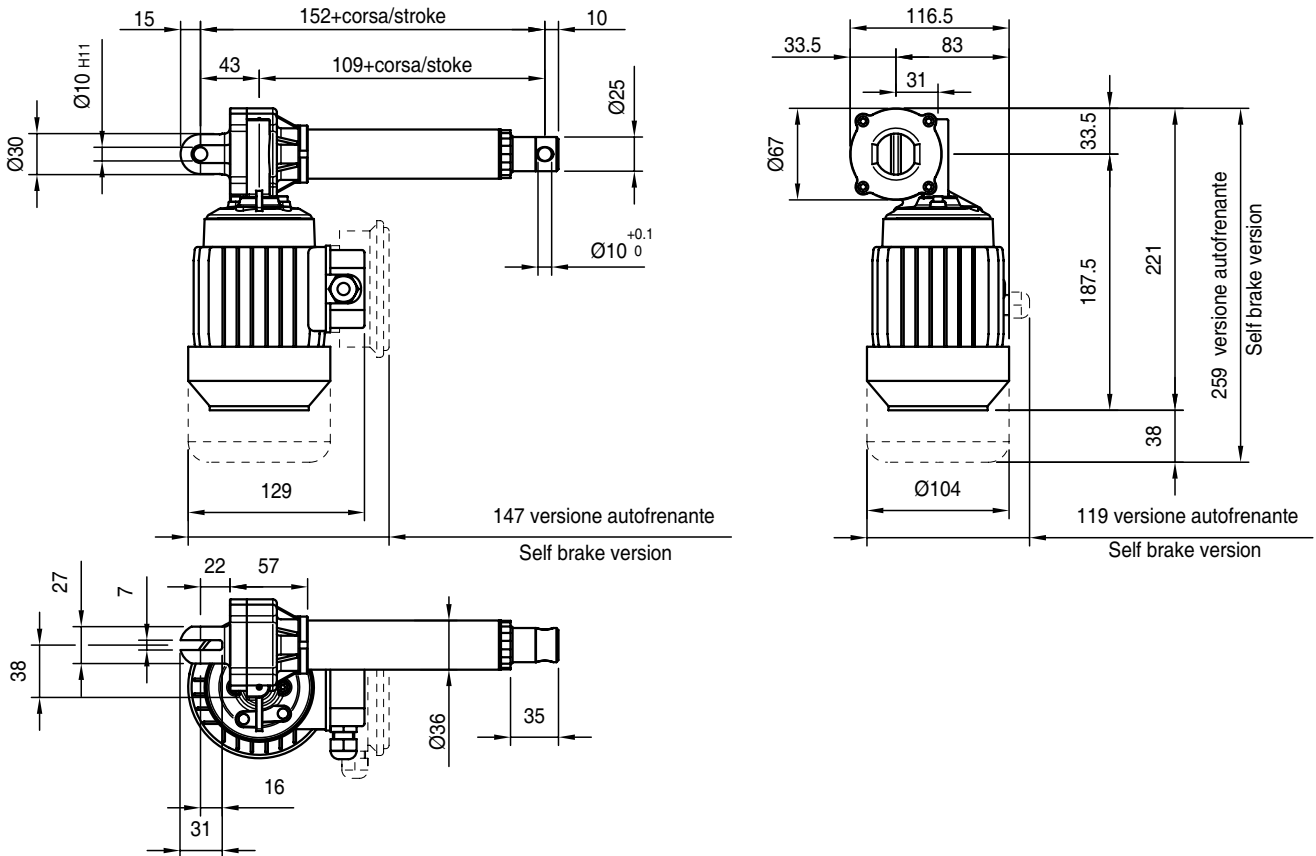
**N.B.:** In questa versione non è applicabile l'opzione dell'antirrotazione.

**Note:** Antirrotation key is not available in this version.

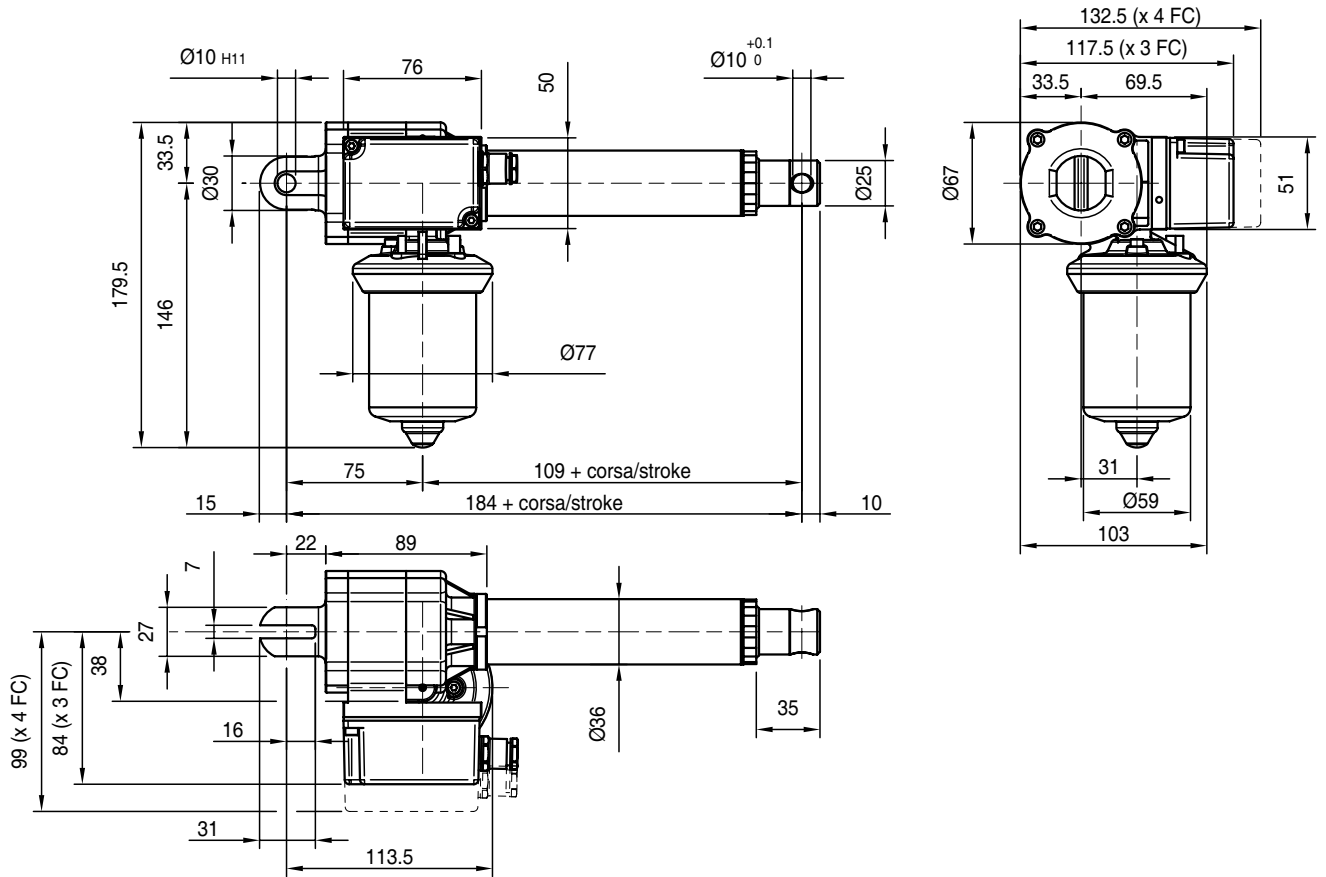
**ALI3-VRS - Versione C.C. / D.C. Version**



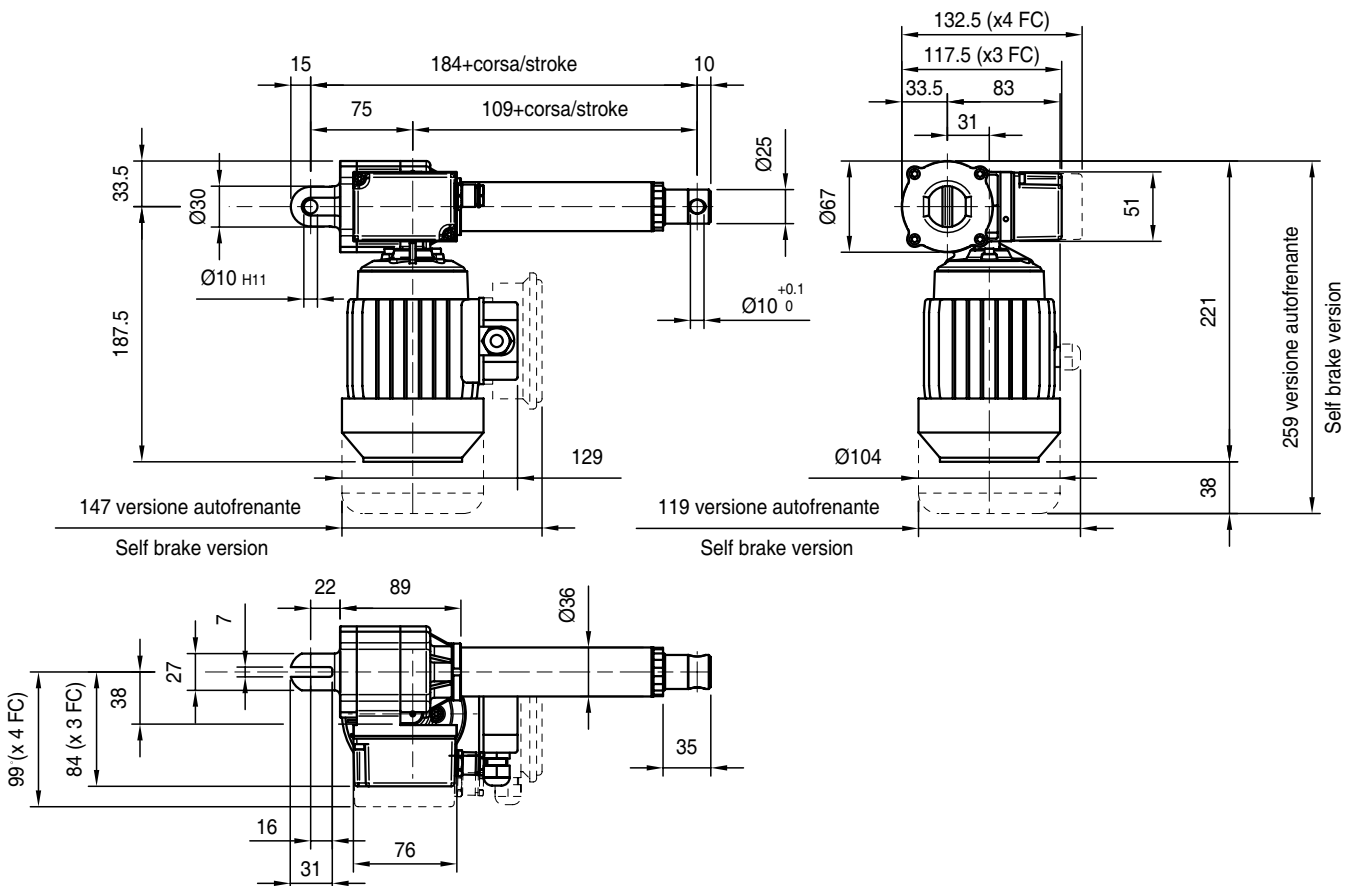
**ALI3-VRS - Versione C.A. / A.C. Version**



**ALI3-F-VRS - Versione C.C. / D.C. Version**

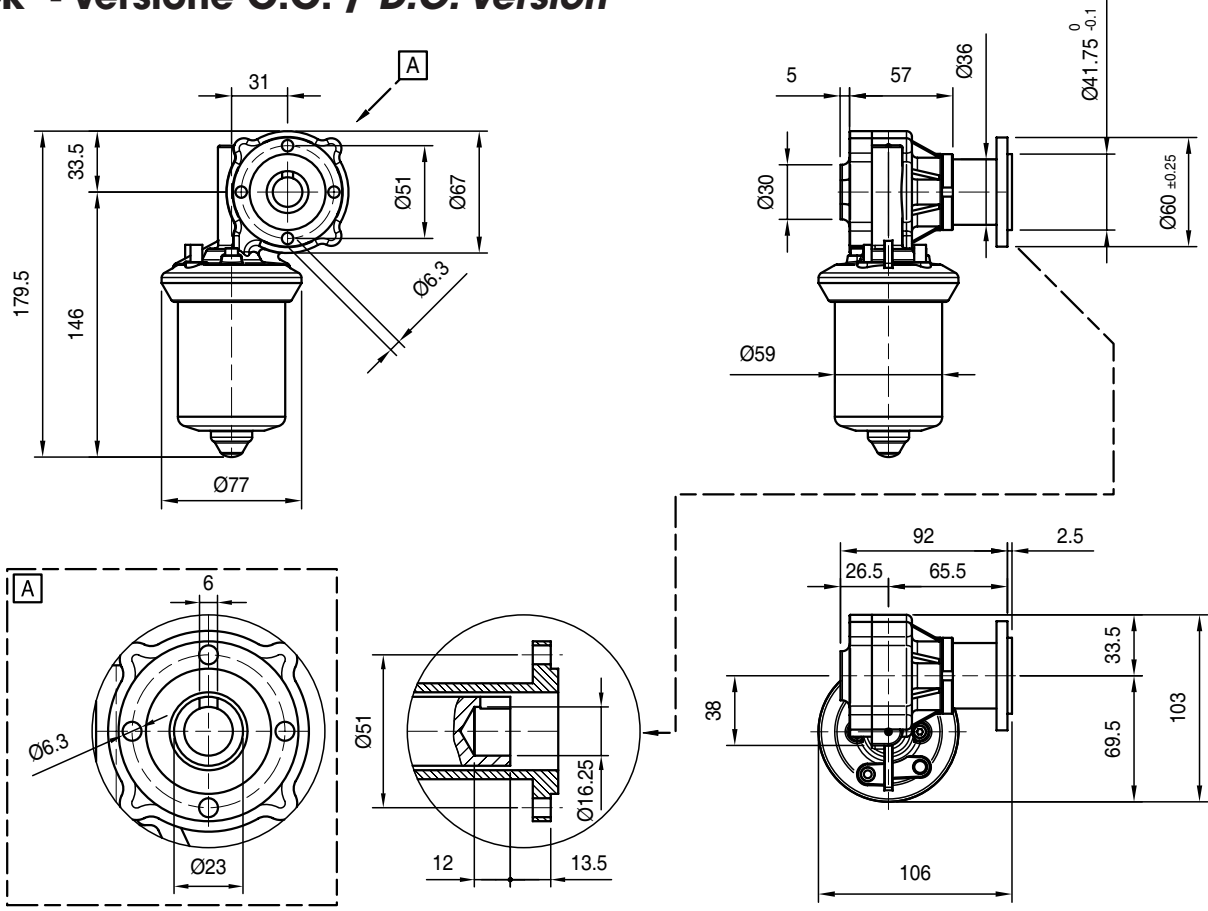


**ALI3-F-VRS - Versione C.A. / A.C. Version**

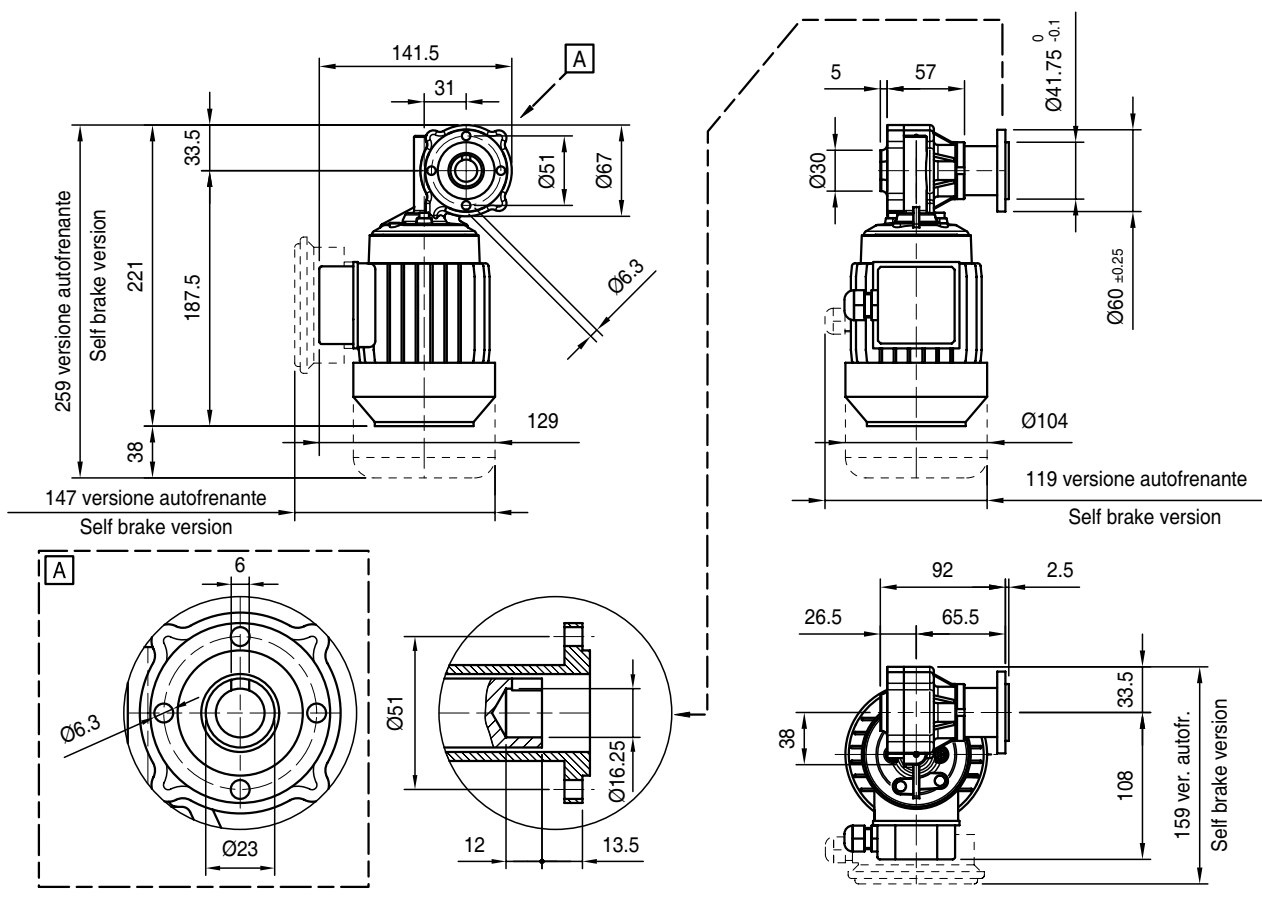




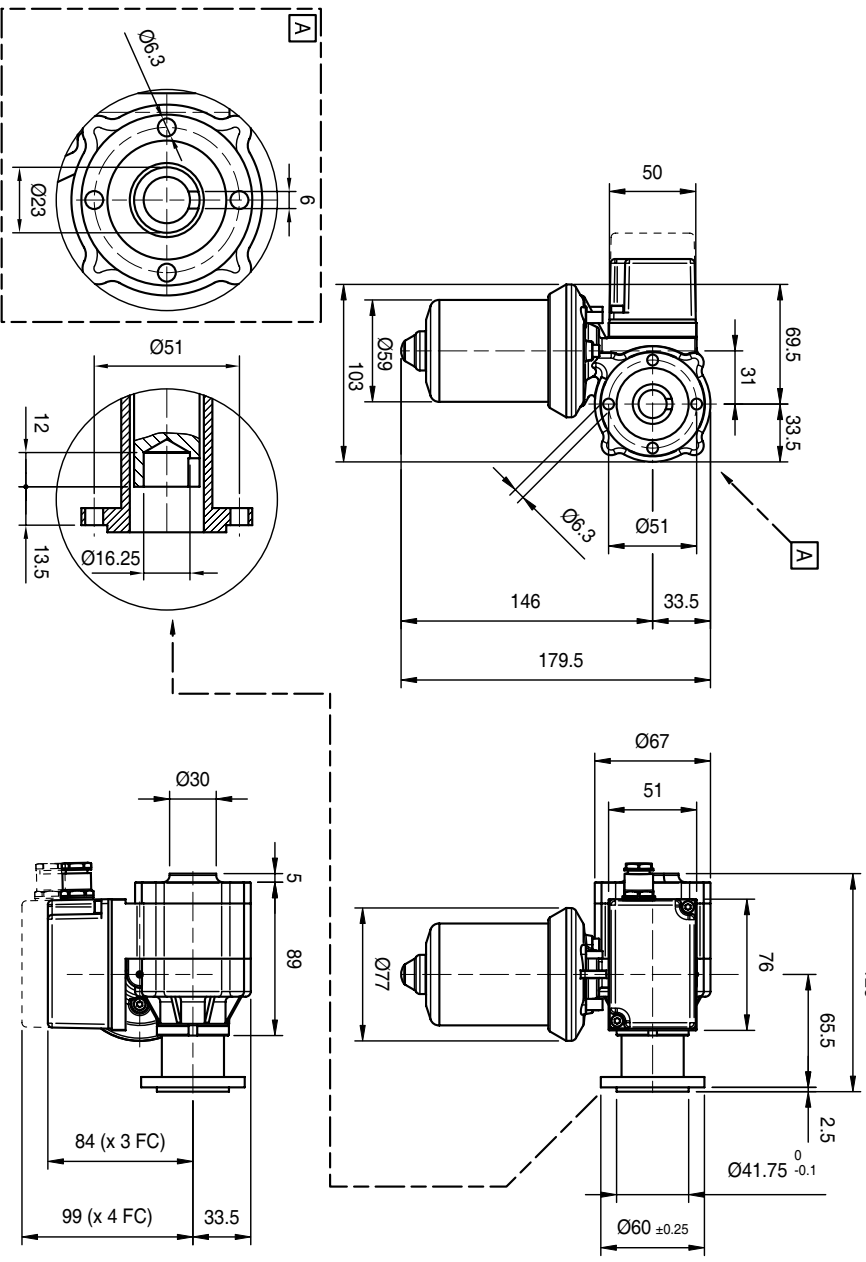
**ALI3-R - Versione C.C. / D.C. Version**



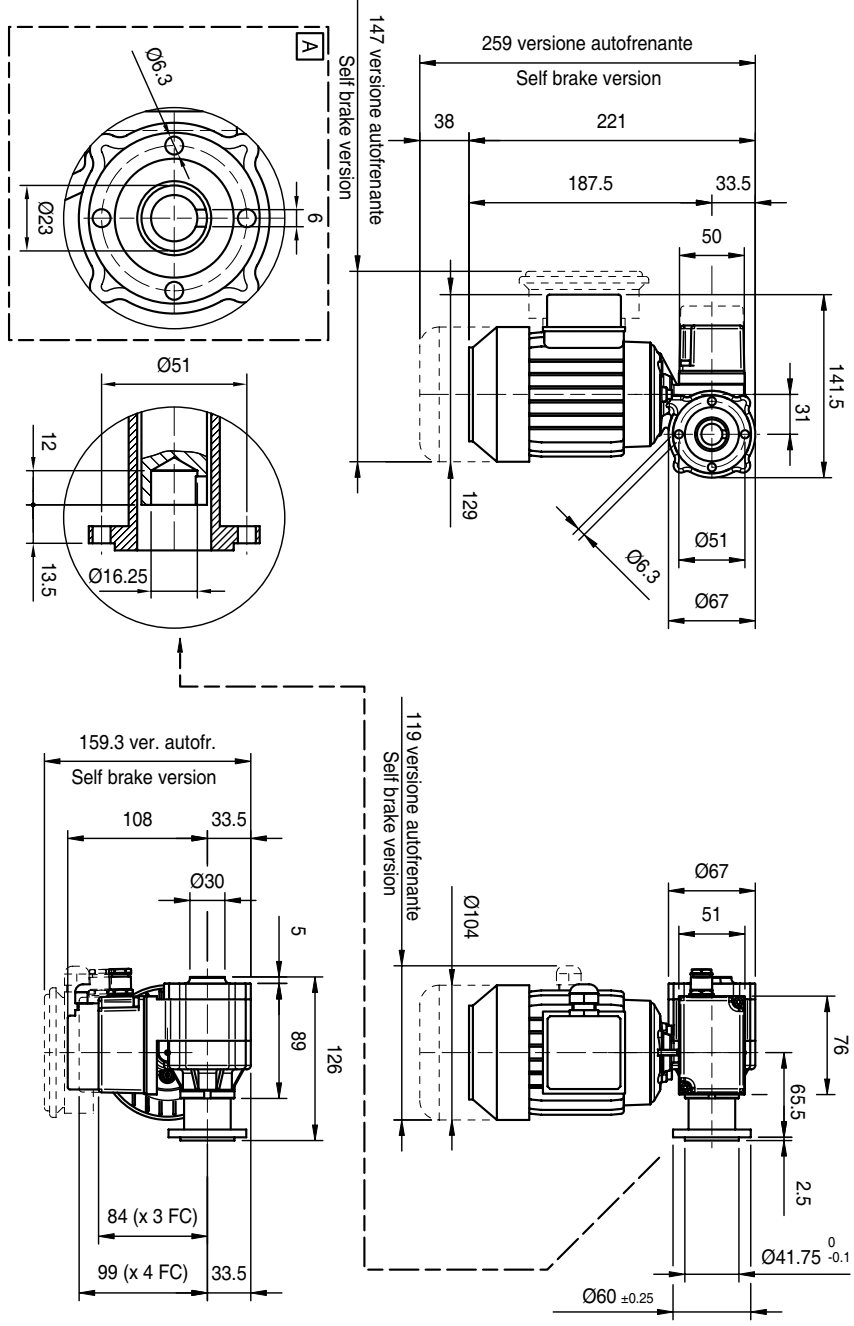
**ALI3-R - Versione C.A. / A.C. Version**



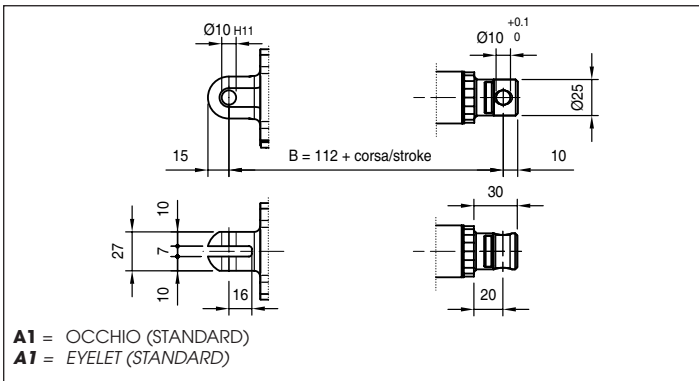
**AL13-RF - Versione C.C. / D.C. Version**



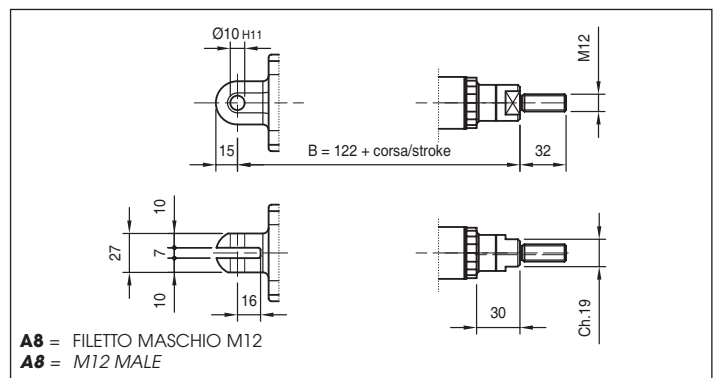
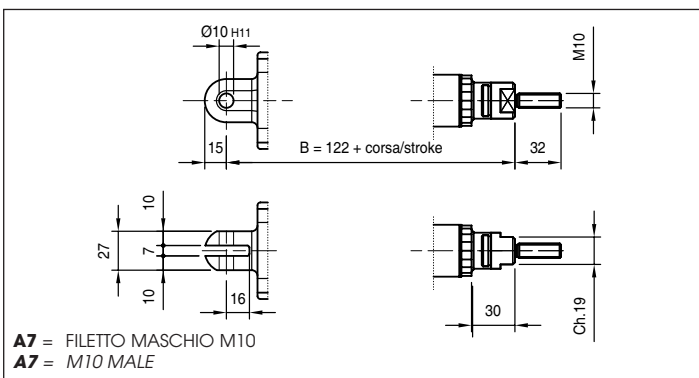
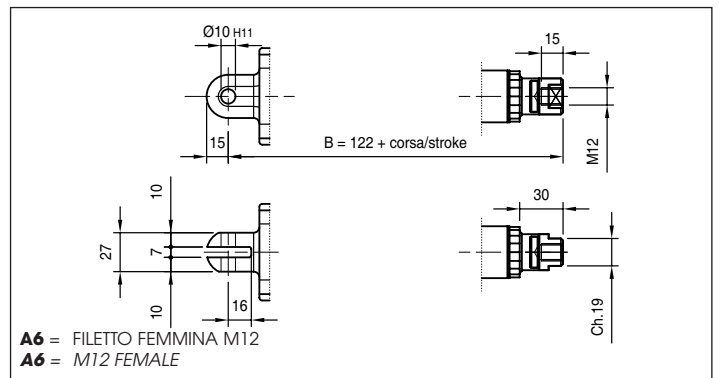
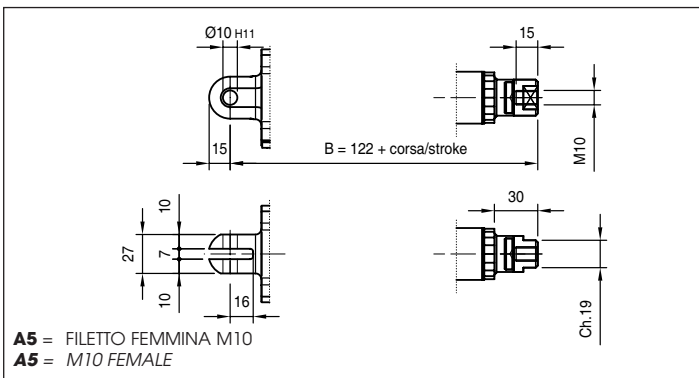
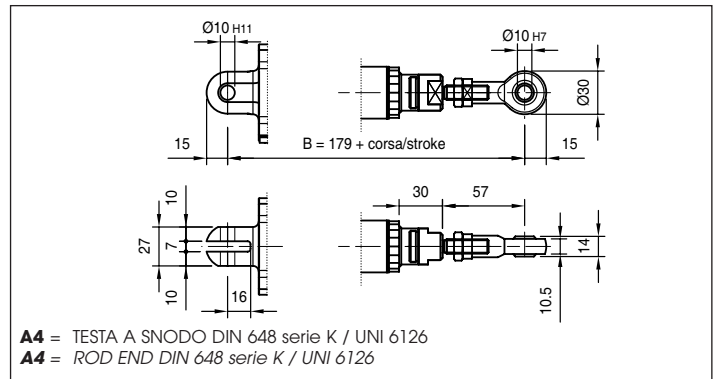
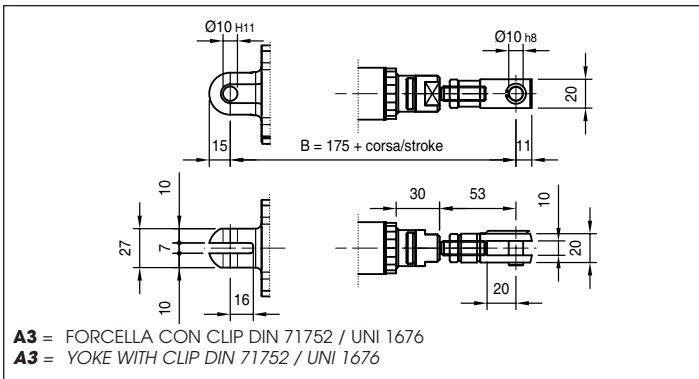
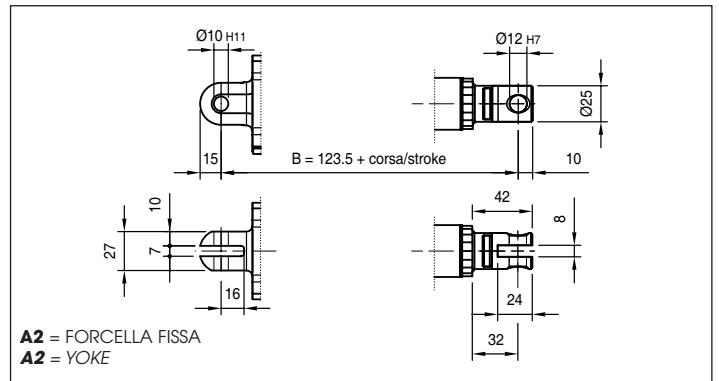
**AL13-RF - Versione C.A. / A.C. Version**



**Attacchi anteriori**



**Front ends**



**NB:** Variazioni quota "B" in base al modello  
**Note:** "B" dimension variations depending on model

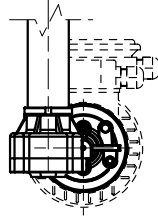
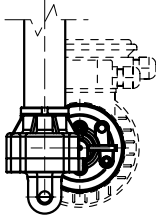
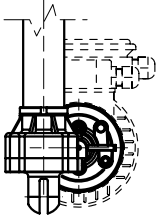
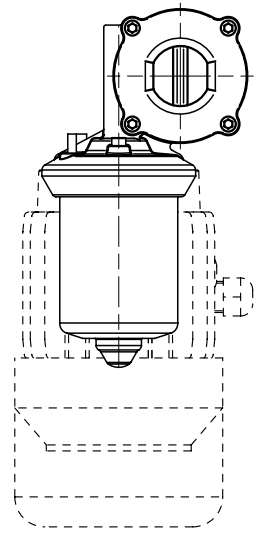
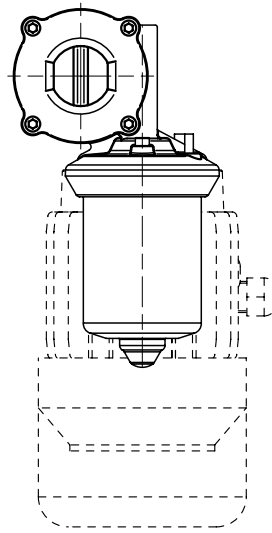
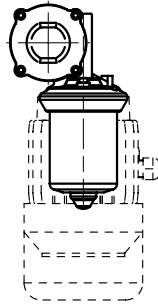
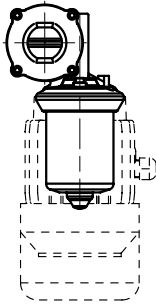
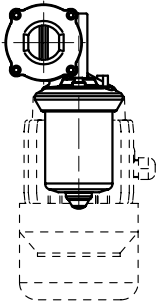
ALI3 = vedi figure / see pictures  
ALI3 corsa / stroke > 320 mm = + 10 mm  
ALI3-FCE = vedi figure / see pictures  
ALI3-FCE corsa / stroke > 320 mm = + 10 mm  
ALI3-F corsa / stroke < 320 mm = + 32 mm  
ALI3-F corsa / stroke > 320 mm = + 42 mm  
ALI3-FCM = + 36 mm  
ALI3-VRS corsa / stroke > 320 mm = + 40 mm  
ALI3-F-VS corsa / stroke > 320 mm = + 72 mm

**Attacco posteriore**

**Rear end**

**Orientamento motore**

**Motor side**



P1  
(Standard)

P2  
Ruotato di 90° / 90° rotated

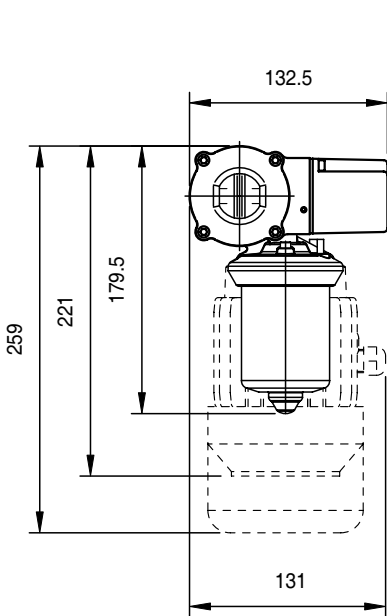
P3

M0  
(Standard)

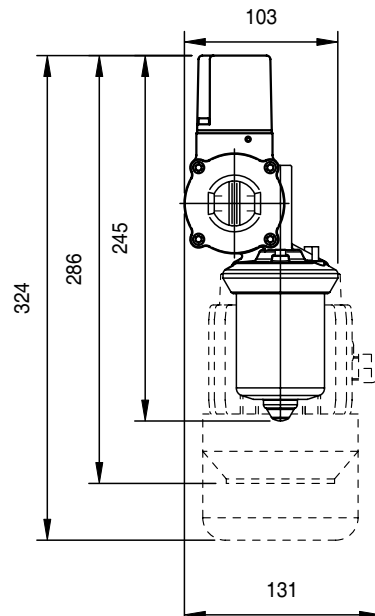
M1

**Orientamento gruppo fine corsa**

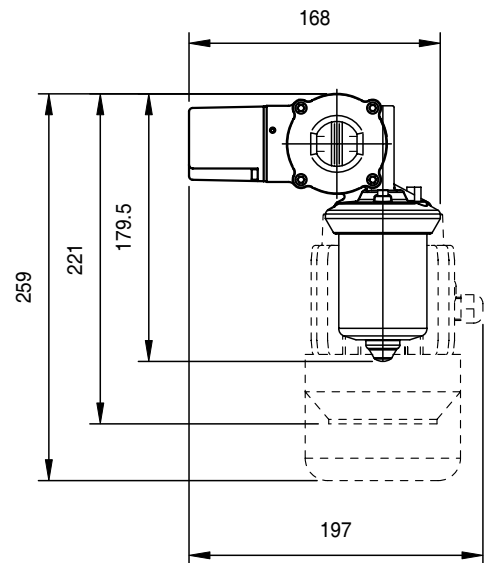
**Limit switches box side**



FC1  
(Standard)



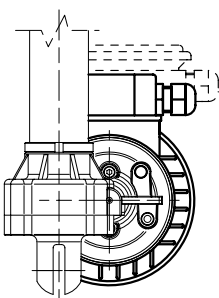
FC2



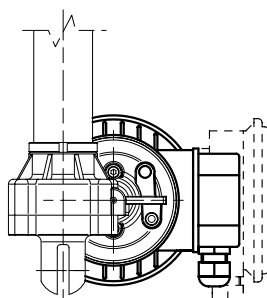
FC3

**Orientamento morsetti**

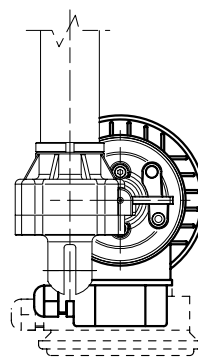
**E-box side**



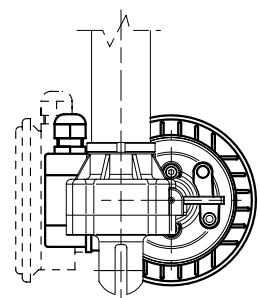
1  
(Standard)



2



3



4

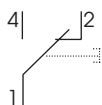
**Dispositivi Controllo Corsa  
Elettrici / Elettronici**
**Electric/Electronic  
Stroke Control Devices**
**Fine corsa FCE/F**
**Limit switches FCE/F**

Prestazioni / Performances	Tipo / Type	
	XCF	XGG <small>SPECIALE A RICHIESTA SPECIAL REQUEST</small>
Tensione / Voltage	250 Vac	230 Vac / 30 Vdc
Carico resistivo / Resistive load	10 A	16 A
Carico motore / Motor load	2 A	6 A

**Caratteristiche tecniche micro**

Le caratteristiche dei microinterruttori di finecorsa montati sono le seguenti:

- Alloggiamento: PA66 rinforzato con fibra di vetro (XCF)  
Resina fenolica/melaminica termo-saldada (XGG)
- Meccanismo: azione a scatto con molla in acciaio inox (XCF) - bronzo/berillio (XGG).  
Un contatto in scambio NC/NO

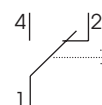


- Contatti: argento
- Terminali: dorati
- Vita meccanica: minimo  $5 \times 10^6$  (XCF) -  $3 \times 10^5$  (XGG)  
azionamenti non impulsivi.

**Switches technicals features**

Limit Switches Features following:

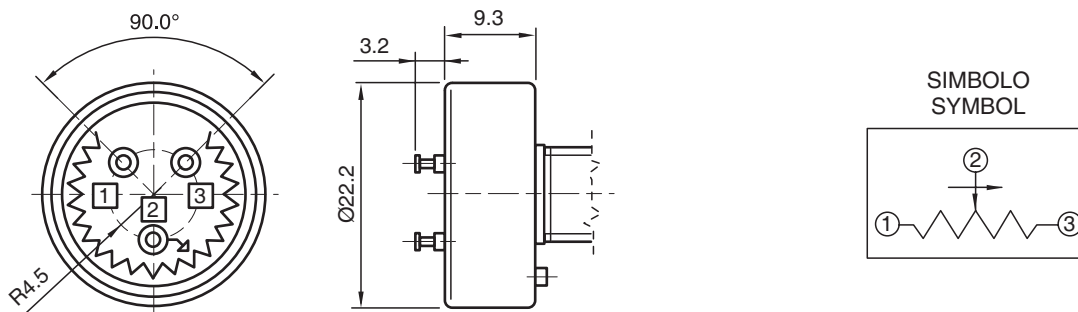
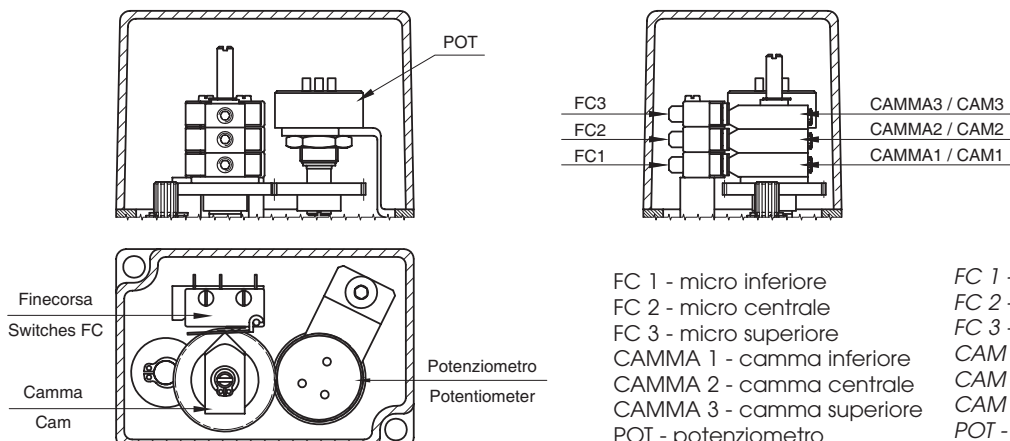
- Housing: Glass fibre reinforce PA66 (XCF)  
Phoenolic-melamine thermosetting (XGG)
- Mechanism: Snap-action coil spring mechanism with:  
stainless steel spring (XCF) - beryllium/bronze spring (XGG). Changeover, normally-closed / normally-open



- Contacts: fine silver
- Terminals: gold flashed
- Mechanical life:  $5 \times 10^6$  (XCF) -  $3 \times 10^5$  (XGG)  
cycle minimum (impact free actuation).

**Potenzimetro rotativo**
**Spinning potentiometer**

Prestazioni / Performances	Tipo / Type (A)
Angolo max. di lavoro / Max. angle	$340^\circ \pm 3^\circ$
Resistenza Ohm / Resistance	1K / 5K / 10K (standard)
Alimentazione consigliata / Voltage	MAX 10 V
Linearità indipendente / Independent linearity	$\pm 2\%$
Tolleranza / Tolerance	$\pm 20\%$
Coefficiente deriva termica / Temperature coefficient of resistance	600 ppm / °C

**Potenzimetro "A"**
**Potentiometer "A"**

**Gruppo controllo corsa**
**Control devices group**


FC 1 - micro inferiore  
FC 2 - micro centrale  
FC 3 - micro superiore  
CAMMA 1 - camma inferiore  
CAMMA 2 - camma centrale  
CAMMA 3 - camma superiore  
POT - potenziometro

FC 1 - lower microswitch  
FC 2 - middle microswitch  
FC 3 - upper microswitch  
CAM 1 - lower cam  
CAM 2 - middle cam  
CAM 3 - upper cam  
POT - potentiometer

**Nota Bene:** la combinazione fine corsa + potenziometro dev'essere valutata con il nostro Ufficio Tecnico.

**N.B.:** microswitches + potentiometer version pls. ask our Technical Dept.

**Fine corsa magnetici FCM**
**Magnetic limit switches FCM**

Prestazioni / Performances	Tipo / Type		
	DSM 1 H 425	DSL 1 C 225	DSL 4 N 225
Tensione in DC / DC voltage	3 / 110 V	3 / 30 V	6 / 30 V
Tensione in AC / AC voltage	3 / 110 V	3 / 30 V	/
Corrente a 25°C / 25°C Current	0,5 A	0,1 A	0,20 A
Potenza / Power	20 VA	6 VA	4 W
Tempo inserzione / ON time	0,5 ms	0,5 ms	0,8 ms
Tempo disinserzione / OFF time	0,02 ms	0,1 ms	0,3 ms
Cavo alimentazione / Supply cable	PVC 2 x 0,14 mm	PVC 2 x 0,14 mm	PVC 3 x 0,14 mm
Lunghezza cavo / Cable length	2500 mm		
Protezione / Protection	IP67		

**Circuito H (DSM)**

Circuito con ampolla Reed normalmente chiusa protetta da varistore contro le sovratensioni generate all'apertura del circuito, e sistema di visualizzazione.

**Circuito N - PNP (DSL)**

Circuito con effetto di Hall normalmente aperto con uscita PNP. Protetto contro l'inversione di polarità e contro picchi di sovratensione. LED GIALLO: presenza tensione (solo DSM). LED VERDE: carico inserito (LED giallo per DSL)

**Circuito C (DSL)**

Circuito con ampolla Reed normalmente aperta, protetta da varistore contro le sovratensioni generate all'apertura del circuito, e sistema di visualizzazione.

**Circuit H (DSM)**

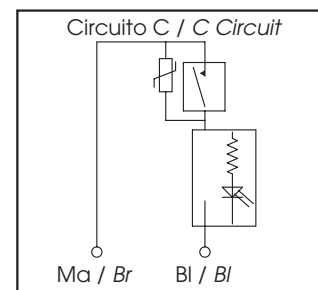
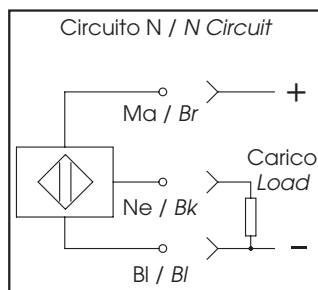
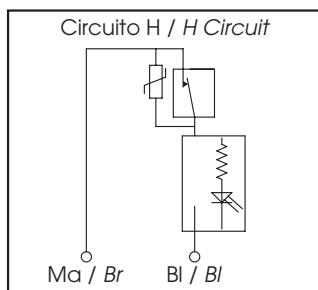
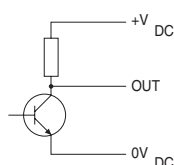
Circuit with Reed switch normally closed protected by a varistor against overvoltages caused when switching off, with indicator.

**Circuit N - PNP (DSL)**

Circuit with Hall-effect switch normally open with outlet PNP, protections against overvoltages spikes and reverse of polarity. Yellow LED: Voltage in (only for DSM). Green LED: Load in (yellow LED for DSL).

**Circuit C (DSL)**

Circuit with Reed switch normally open protected by a varistor against overvoltages caused when switching off, with indicator.


**Encoder**


- Alimentazione Encoder 3,8 V...24Vdc
- NPN + resistenza di polarizzazione 3,9 KΩ
- 1 impulsi/giro onda quadra
- Corrente massima d'uscita: 100 mA

- Encoder Power Supply 3,8 V...24Vdc
- NPN + pull-up resistor 3,9 KΩ
- 1 ppr square wave
- Maximum output current: 100 mA

**Caratteristiche tecniche Encoder**
**Encoder su motore CC**

24Vdc  
Alimentazione Encoder: 3,8/24 V (cavi marrone/bianco)  
NPN  
1 impulso giro onda quadra  
Corrente max. in uscita = 100mA

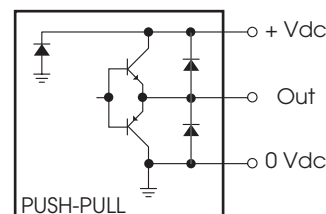
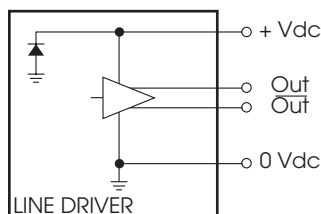
**Encoder su motore CA**

**Encoder incrementale bidirezionale** con (standard) e senza impulso di zero IP54..

**Impulsi giro disponibili:** 50 / 100 / 200 / 400 / 500 / 512 / 1000 / **1024 (standard)** / 2000 / 2048

**Circuiti d'uscita disponibili:** **Line Drive 5 Vdc (standard)** / Push Pull 24 Vdc / Open Collector NPN 10 -30 Vdc / Open Collector PNP 10 -30 Vdc.

Rosso / Red	±Vdc
Nero / Black	0 Vdc
Verde / Green	A
Giallo / Yellow	B
Blu / Blue	Z
Marrone / Brown	-A
Arancione / Orange	-B
Bianco / White	-Z


**Encoder technical specs**
**DC motor onboard Encoder**

24Vdc  
Encoder supply: 3,8/24 V (brown/white cables)  
NPN  
1 ppr square wave  
Max. output current = 100mA

**AC motor onboard Encoder**

**Bidirectional incremental encoder**, with (standard) or without zero-pulse, protection IP54.

**Available ppr:** 50 / 100 / 200 / 400 / 500 / 512 / 1000 / **1024 (standard)** / 2000 / 2048

**Available output circuits:** **Line Drive 5 Vdc (standard)** / Push Pull 24 Vdc / Open Collector NPN 10 -30 Vdc / Open Collector PNP 10 -30 Vdc.

## Riferimento Sigla d'ordinazione

### Fine Corsa Meccanici:

2FC1 = 2 Micro XCF  
3FC1 = 3 Micro XCF } — Versioni Standard

4FC1 = 4 Micro XCF  
2FC2 = 2 Micro XGG  
3FC2 = 3 Micro XGG

2FCD2 = 2 Micro XGG cablati con diodi  
3FCD2 = 3 Micro XGG di cui 2 cablati con diodi

Solo per motori DC  
e per carichi fino a 6A di assorbimento

### Fine Corsa Magnetici:

2FCM0= 2 Sensori DSM.1H  
2FCM1= 2 Sensori DSL.1C  
2FCM2= 2 Sensori DSL.4N  
3FCM0= 3 Sensori DSM.1H  
3FCM1= 3 Sensori DSL.1C  
3FCM2= 3 Sensori DSL.4N

### Potenziometri:

POT01A = 1 k Ohm  
POT05A = 5 k Ohm  
POT10A = 10 k Ohm } — Taratura a carico dell'utilizzatore

### Encoder:

E01 = Encoder 2 canali 1 ppr NPN

Solo su motore DC (D.59)

E05 = Push Pull 1024 ppr  
E06 = Line Drive 1024 ppr  
E07 = Open Collector NPN  
E08 = Open Collector PNP } Solo su Motore C.A.

E13 = Encoder non contemplato (indicare caratteristiche nel disegno d'assieme)

## Ordering Key references

### Mechanical limit switches:

2FC1 = 2 Microswitches XCF  
3FC1 = 3 Microswitches XCF } — Standard Versions

4FC1 = 4 Micro XCF  
2FC2 = 2 Micro XGG  
3FC2 = 3 Micro XGG

2FCD2 = 2 XGG Microswitches diode-wired  
3FCD2 = 3 XGG Microswitches, 2 of them diode-wired

For DC motor only  
and for loads up to 6A

### Magnetic limit switches:

2FCM0 = 2 Sensors DSM.1H  
2FCM1 = 2 Sensors DSL.1C  
2FCM2 = 2 Sensors DSL.4N  
3FCM0 = 3 Sensors DSM.1H  
3FCM1 = 3 Sensors DSL.1C  
3FCM2 = 3 Sensors DSL.4N

### Potentiometers:

POT01A = 1 k Ohm  
POT05A = 5 k Ohm  
POT10A = 10 k Ohm } — To be adjusted by end-user

### Encoder:

E01 = Encoder 2 channel 1 ppr NPN

With DC (D.59) motor only

E05 = Push Pull 1024 ppr  
E06 = Line Drive 1024 ppr  
E07 = Open Collector NPN  
E08 = Open Collector PNP } With AC motor only

E13 = Special encoder (advise features in drawing)



## Guida alla scelta della motorizzazione - *Motor choice guideline*

### TIPO MOTORE / MOTOR TYPE

<b>Versione / Version:</b>	<b>CC</b> = corrente continua / <b>DC</b> = direct current <b>CA</b> = corrente alternata / <b>AC</b> = alternate current
<b>Tensione / Voltage:</b>	CC / DC = V12 / V24 / V36 / V48 CA / AC = 230/400/50 - 190/330/50 - 208/360/50 - 400/690/50 277/480/60 - 220/380/60 - 254/440/60 - 480/830/60 - <b>MT</b> = Multitensione / Multivoltage 230/50 (monofase / 1-phase)
<b>Tipo / Type:</b> (Solo per CA / only for AC)	<b>T</b> = trifase / 3-phase <b>M</b> = monofase / 1-phase <b>AT</b> = trifase autofrenante / 3-phase with brake <b>AM</b> = monofase autofrenante / 1-phase with brake <b>ME</b> = monofase con condensatore elettronico / 1-phase with starting capacitor <b>AE</b> = monofase con condensatore elettronico autofr. / 1-phase with brake and starting capacitor
<b>Grandezza / Size:</b>	CC / DC: D.59 CA / AC: IEC 50
<b>N° Poli / Poles:</b>	<b>CA / AC:</b> 2 / 4
<b>N° Giri / RPM's:</b>	<b>CC / DC:</b> 5000 RPM
<b>Potenza CA / AC Power: kW</b>	

IEC IEC	kW trifase / 3-phase			kW monofase / 1-phase		
	2POLI 2POLES	4POLI 4POLES	6POLI 6POLES	2POLI 2POLES	4POLI 4POLES	6POLI 6POLES
50	0,13	0,09	-	0,09	0,06	-

### VARIANTI MOTORE / MOTOR OPTIONALS

<b>Flangia tipo / Motorflange type:</b>	PAM a disegno / provide drawing
<b>Tipo servizio / Service rate:</b>	<b>S1 / S2 / S3</b>
<b>Classe isolamento / Insulation class:</b>	<b>F</b> = standard (non indicare) / standard (leave blank) <b>Specificare solo se diversa / Advise only if different than "F"</b>
<b>Grado Protezione / Degree protection:</b>	<b>IP55</b> (non indicare / leave blank) <b>IP65</b> <b>TP</b> = tropicalizzato / tropicalization <b>ALTRO / OTHER</b> (indicare / advise)
<b>Freno / Brake:</b>	<b>FECC</b> = freno elettromagnetico in CC / DC brake <b>FECA</b> = freno elettromagnetico in CA / AC brake <b>SENZA</b> = omettere / <b>NO BRAKE</b> = leave blank
<b>Opzioni / Options:</b>	<b>LS</b> = leva sblocco / hand release lever (non indicare / leave blank) <b>AB</b> = albero bisporgente / 2' shaft <b>IN</b> = avvolgimento per inverter / winding for inverters <b>ALTRO / OTHER</b> = indicare per esteso / advise <b>SENZA / NONE</b> = omettere / leave blank



## SIGLA DI ORDINAZIONE - ORDERING KEY

ALI3 / 0250 / M01 / CA-400-50 - T-56-4-0,09 / S1+AB / M1 / 1 / EO1 / 2FC0 / POT01A / FC1 / IP65 / P1 / A1 / A+B / N.Dis

**MODELLO / MODEL:**

ALI3 ALI3-F ALI3-VRS  
 ALI3-FCE ALI3-FCM ALI3-VRS-F  
 ALI3-R ALI3-RF

**CORSA / STROKE:** mm

es. 250 mm = 0250  
 ALI3-R = 0

**VELOCITÀ / SPEED:** mm/s Pag. 1/2

M01 / M02 / M03 / M04 / M05 / M06 / M07 } **versione / version C.C.**  
 M08 / M09 / M10 / M11 / M12 / M13 / M14 } **versione / version C.A.**

M00 = Velocità non contemplate / Speed to be provided

**Versione Riduttore / Gearbox Version = Rpm**

R01 / R02 **versione / version C.C.**  
 R03 / R04 **versione / version C.A.**  
 R00 = Velocità non contemplate / Speed to be provided

**MOTORE / MOTOR:** Pag. 16

**Indicare solo con motore: / Advise only if with motor:**

**In C.A.:** versione / tensione / tipo / grandezza / n° poli / potenza  
*version / voltage / type / size / n° poles / power*

**In C.C.:** versione / tensione / grandezza / n° giri  
*version / voltage / size / Rpm*

**VARIANTI MOTORE / MOTOR OPTIONALS:** Pag. 16

**Tipo Servizio:** Indicare se diverso da S3 (standard)  
**Service rate:** Advise if different than S3 (standard)  
**Classe isolamento:** Indicare se diverso da F (standard)  
**Insulation class:** Advise if different than F (standard)  
**Grado Protezione:** Indicare se diverso da IP55 (standard)  
**Degree Protection:** Advise if different than IP55 (standard)  
**Tipo freno:** solo se autofrenante: ES, FECA  
**Brake type:** for brakemotors only: ES, FECA  
**Opzioni:** Indicare se richiesto ES, AB= Albero Bisporgente  
**Options:** Advise if needed ES, AB= 2'shaft

**ORIENTAMENTO MOTORE / MOTOR SIDE:** Pag. 12

**Senza / None:** Omettere / Leave blank  
 M0 / M1

**ORIENTAMENTO MORSETTIERA / E-BOX SIDE:** Pag. 12

1 (Standard), 2, 3, 4  
**Senza Motore o Motore in CC / No Motor or DC Motor.:** Omettere / Leave blank

**ENCODER / ENCODER:** Pag. 15

**Senza / None:** Omettere / Leave blank

**FINE CORSA / LIMIT SWITCHES:** Pag. 15

**Senza / None:** Omettere / Leave blank

**POTENZIOMETRO / POTENTIOMETER:** Pag. 15

**Senza / None:** Omettere / Leave blank

**ORIENTAMENTO GRUPPO FINE CORSA / LIMIT SWITCHES SIDE:** Pag. 12

**Senza / None:** Omettere / Leave blank  
 FC1 / FC2 / FC3

**GRADO PROTEZIONE / PROTECTION CLASS:**

IP50 (Standard)  
 IP65  
**Altro / Other:** Specificare / Advise

**ATTACCO POSTERIORE / REAR END:** Pag. 12

**P0** = Senza / None      **P2** = Occhio / Eyelet (90°)  
**P1** = Occhio / Eyelet (standard)      **P3** = Attacco a Disegno / Special (provide drawing)

**ATTACCO ANTERIORE / FRONT END:** Pag. 11

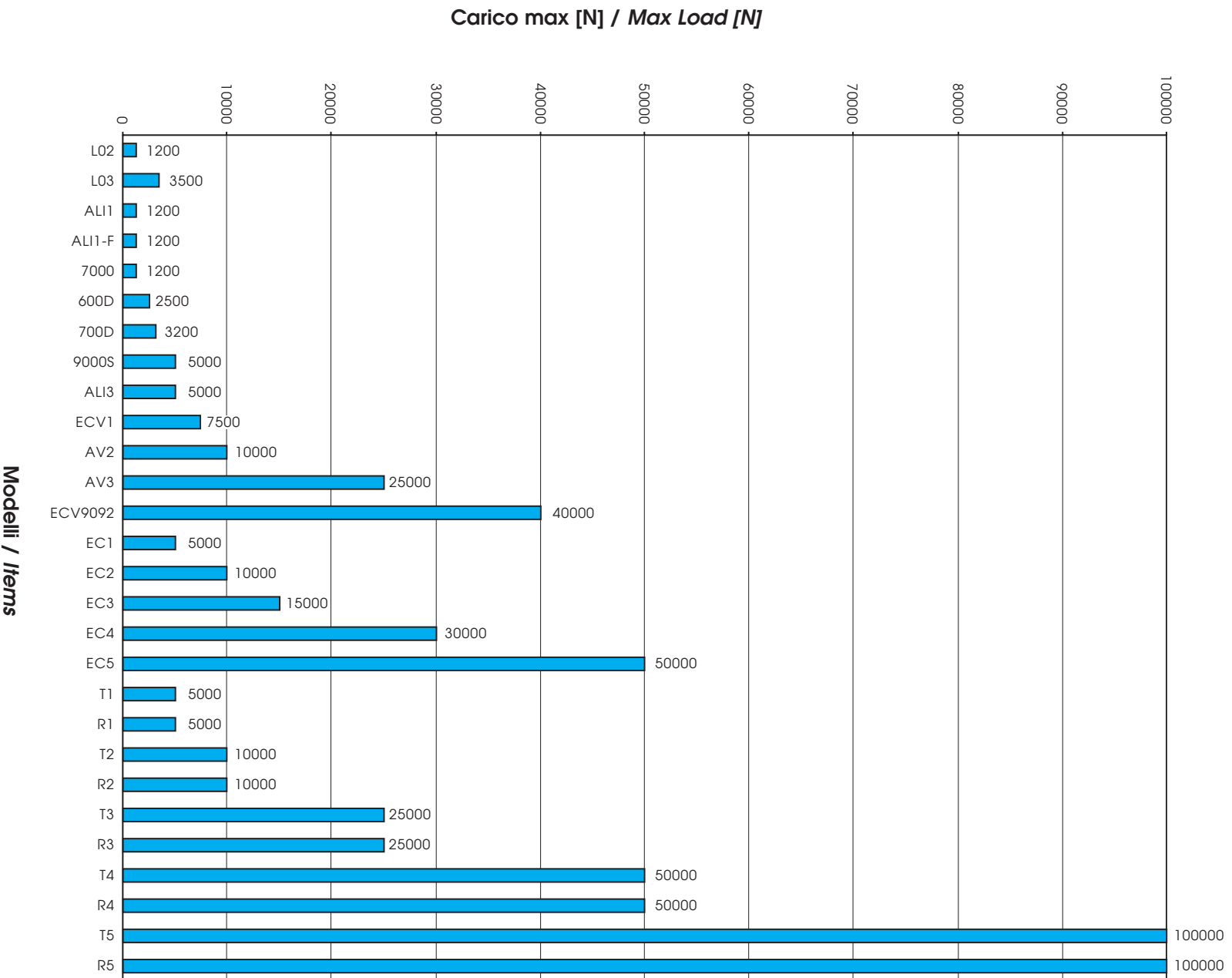
**A0** = Senza / None      **A4** = Testa a Snodo / Rod end      **A8** = Filetto Maschio M12 / M12 male  
**A1** = Occhio / Eyelet (Standard)      **A5** = Filetto Femmina M10 / M10 female      **A9** = Attacco a Disegno / Special (provide drawing)  
**A2** = Forcella Fissa / Yoke      **A6** = Filetto Femmina M12 / M12 female  
**A3** = Forcella + Clip / Yoke + Clip      **A7** = Filetto Maschio M10 / M10 male

**OPZIONI / OPTIONS:**

**Senza / None:** Omettere / Leave blank      **C** = Vite Scoperta / Naked Screw      **G** = Chiocciola di Sicurezza / Safety nut  
**A** = Versione Inox / Stainless steel version      **E** = Guarnizioni in Viton / Viton joints      **L** = Antitrotazione / Anti-rotation device  
**B** = Protezione Soffietto / Bellow      **F** = Verniciatura / Painting

**VARIANTI / VERSIONS:**

**N° Disegno / Drawing number:** Per Condizioni non Contemplate / Drawing to be provided  
**Senza / None:** Omettere / Leave blank



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