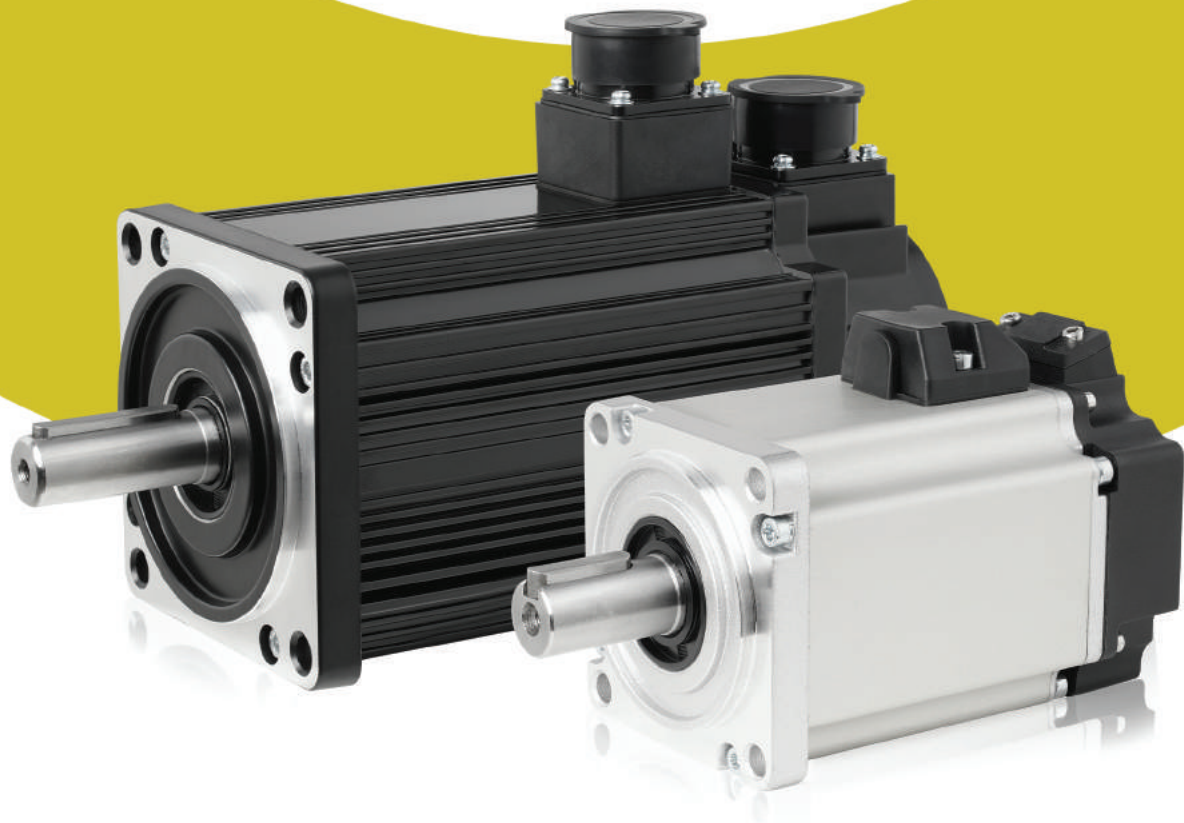


# SERVOMOTORI - *SERVOMOTORS* BRUSHLESS



 **YILING**  
MOTORS

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**Come ordinare - How to Order**

Flangia <i>Flange</i>	Serie <i>Series</i>	Trasduttore <i>Transducer</i>	Coppia <i>Torque</i>	Velocita' <i>Speed</i>	Voltaggio <i>Voltage</i>	Inerzia <i>Inertia</i>	Freno <i>Brake</i>	Albero <i>Shaft</i>	Connessione <i>Connection</i>
40	SY	M	Coppia x 10	10=1000	L=220V	B=Alta	Z=Con Freno	T=Speciale	X=Cavo
60	ASY	Magnetico	<i>Torque x 10</i>	15=1500	H=380V	<i>High</i>	With Brake	<i>Special</i>	<i>Cable</i>
80	ADY	<i>Magnetic</i>		20=2000	D=48V				
100		17 bit	Example	25=2500	D1=24V	L=Bassa	Vuoto-Blank	Vuoto-Blank	Vuoto-Blank
110			1.3x10=13	30=3000	D2=36V	<i>Low</i>	Senza Freno	Standard	Connettori
130	P	Ottico			D3=60V		<i>Without Brake</i>		<i>Connectors</i>
180		<i>Optical</i>			D4=72V				
		2048 ppr			D5=110V				
		A							
		Assoluto							
		<i>Absolute</i>							
		23 bit							
		N							
		Opzionale							
		<i>Optional</i>							

### Tipo Magnetico - Type Magnetic

Risoluzione <i>Resolution</i>		131072 (17bit)
Interfaccia <i>Interface</i>		RS485
Frequenza di Comunicazione <i>Communication Frequency</i>	kHz	≤16
Velocità di Trasmissione <i>Baud Rate</i>	Mbps	2.5
Momento d'inerzia <i>Rotor Moment of Inertia</i>	kg.mm <sup>2</sup>	0.23
Temperatura Operativa <i>Operating Temperature</i>	°C	-20 ÷ +105

#### Cavo Segnale - Signal Cable

Rosso - Red	5V
Nero - Black	GND
Blu - Blue	485+
Giallo - Yellow	485-
Marrone - Brown	NC (Non Connesso - No Connected)
Bianco - White	NC (Non Connesso - No Connected)
Schermo - Shield	PE

### Tipo Assoluto - Type Absolute

Risoluzione Singolo Giro <i>Resolution Single Turn</i>		8388608 (23bit)
Risoluzione Multi Giro <i>Resolution Multi Turn</i>		65536 (16bit)
Posizionamento Assoluto <i>Absolute Positioning</i>	arcsec	< ±50
Ripetibilità <i>Repeatability</i>	arcsec	< ±3
Interfaccia <i>Interface</i>		RS485
Frequenza di Comunicazione <i>Communication Frequency</i>	kHz	≤16
Velocità di Trasmissione <i>Baud Rate</i>	Mbps	2.5
Momento d'inerzia <i>Rotor Moment of Inertia</i>	kg.mm <sup>2</sup>	0.68
Temperatura Operativa <i>Operating Temperature</i>	°C	-20 ÷ +105

#### Cavo Segnale - Signal Cable

Rosso - Red	5V
Nero - Black	GND
Blu - Blue	485+
Giallo - Yellow	485-
Marrone - Brown	Batteria + - Battery +
Bianco - White	Batteria GND - Battery GND
Schermo - Shield	PE

**Tipo Encoder Incrementale - Type Incremental Encoder**

Impulsi per giro <i>Pulses per Revolution</i>		500 to 8192 ppr
Tensione Nominale <i>Rated Voltage</i>	V	5 ±5%
Corrente Nominale <i>Rated Current</i>	mA	≤60
Frequenza <i>Frequency</i>	kHz	300
Tipo di Elettronica <i>Electronic Type</i>		TTL 26LS31
Momento d'inerzia <i>Rotor Moment of Inertia</i>	kg.mm <sup>2</sup>	6.5
Temperatura Operativa <i>Operating Temperature</i>	°C	-20 ÷ +85

**Cavo Segnale - Signal Cable**

Rosso - <i>Red</i>	5V
Nero - <i>Black</i>	GND
Grigio - <i>Gray</i>	A
Verde - <i>Green</i>	B
Giallo - <i>Yellow</i>	Z
Marrone - <i>Brown</i>	U
Ciano - <i>Cyan</i>	V
Arancio - <i>Orange</i>	W
Bianco/Grigio - <i>White/Gray</i>	A/
Bianco/Verde - <i>White/Green</i>	B/
Bianco/Giallo - <i>White/Yellow</i>	Z/
Bianco/Marrone - <i>White/Brown</i>	U/
Bianco/Ciano - <i>White/Cyan</i>	V/
Bianco/Arancione - <i>White/Orange</i>	W/
Schermo - <i>Shield</i>	G

## Tipo AMP

Cavo Segnale – Signal Cable  
Optical Encoder AMP 15pin

1	PE
2	+5V
3	0V
4	B+
5	Z-
6	U+
7	Z+
8	U-
9	A+
10	V+
11	W+
12	V-
13	A-
14	B-
15	W-

Cavo Segnale – Signal Cable  
Magnetic Encoder AMP 9pin

1	PE
2	E-
3	E+
4	SD-
5	0V
6	SD+
7	+5V
8	-
9	-

Cavo Segnale – Signal Cable  
Absolute Encoder AMP 9pin

1	PE
2	E-
3	E+
4	SD-
5	0V
6	SD+
7	+5V
8	-
9	-

Cavo Potenza – Power Cable  
AMP 4pin

1	U
2	V
3	W
4	PE

## Tipo Connettore - Connector

Cavo Segnale – Signal Cable  
Optical Encoder Conn 15pin

1	+5V
2	0V
3	PE
4	U+
5	U-
6	Z+
7	B+
8	A+
9	W+
10	V+
11	Z-
12	B-
13	A-
14	W-
15	V-

Cavo Segnale – Signal Cable  
Magnetic Encoder Conn 7pin

1	PE
2	E-
3	E+
4	SD-
5	0V
6	SD+
7	+5V

Cavo Segnale – Signal Cable  
Absolute Encoder Conn 7pin

1	PE
2	E-
3	E+
4	SD-
5	0V
6	SD+
7	+5V

Cavo Potenza – Power Cable  
Conn 4pin

1	PE
2	U
3	V
4	W

Freno – Brake  
Conn 3pin

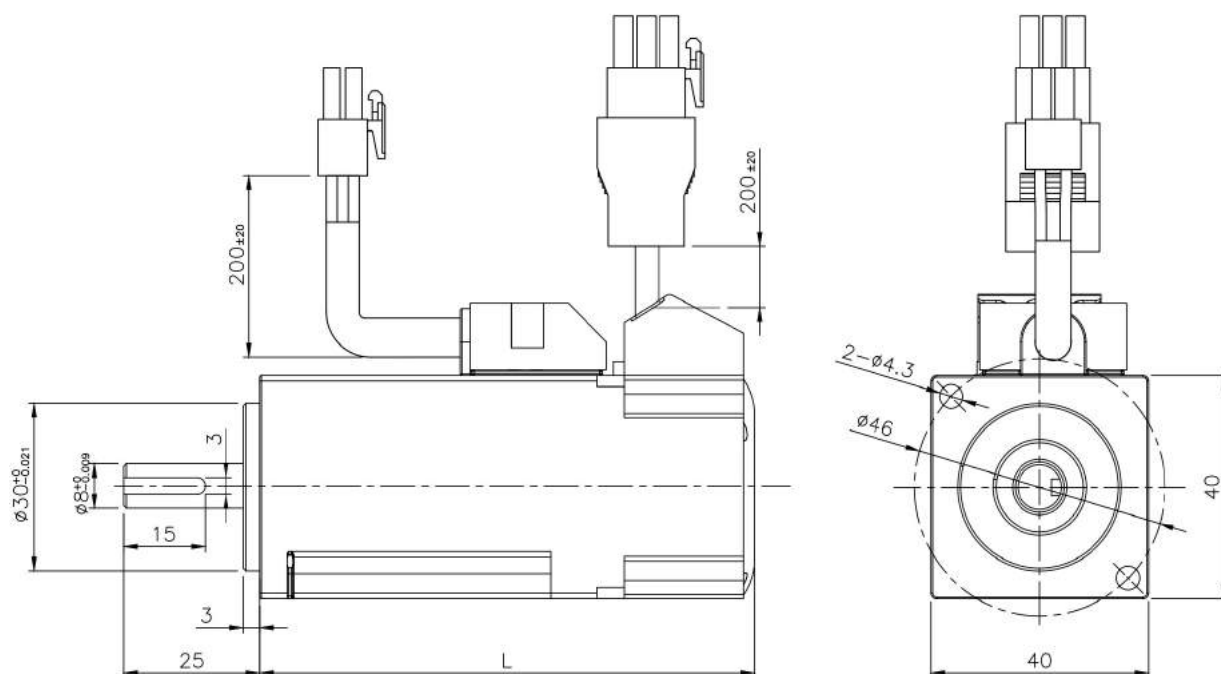
1	+24V
2	0V
3	-

**Tipo - Type 40SY**

Modello Servomotore - Servomotor Model		M00130LBX	M00330LBX
Tensione Alimentazione - Applied Voltage		220 VAC	220 VAC
Numero di Poli Numbers of Poles	P	8	8
Potenza Nominale Rated Power	W	50	100
Corrente Nominale Rated Current	A	1.2	1.8
Velocità Nominale Rated Speed	rpm	3000	3000
Coppia Nominale Rated Torque	N.m	0.159	0.3
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	0.557	1.1
Costante di Tensione ±5% Voltage Constant ± 5%	V/Krpm	6.8	13.8
Costante di Coppia ±5% Torque Constant ± 5%	N.m/A	0.13	0.17
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	0.414×10 <sup>-5</sup>	0.665×10 <sup>-5</sup>
Resistenza di Avvolgimento Winding Resistance ± 5%	Ω	5.23	7.81
Induttanza di Avvolgimento Winding Inductance	mH	6.89	12.03
Costante di Tempo Elettrica Mechanical Time Constant	ms	1.32	1.54
Massa Mass	kg	0.3	0.48
Classe d'isolamento Insulation Class	Classe F - F Class		
Grado di Protezione Level of Protection	IP	64	
Temperatura Operativa Operating Temperature	°C	-20 ÷ +50	

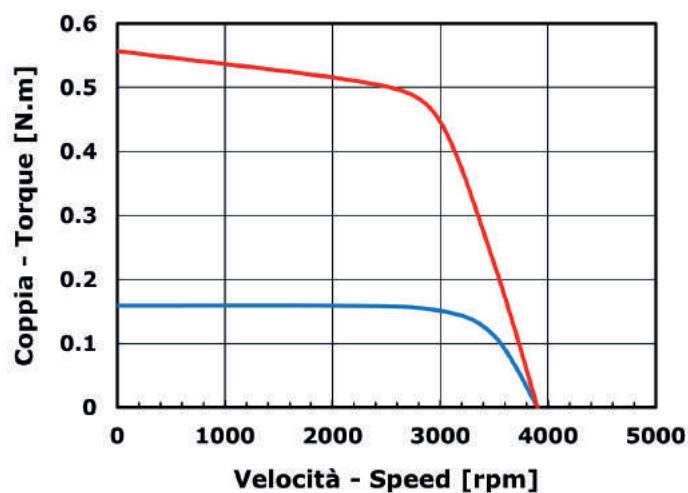
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	M00130LBX	M00330LBX
Senza Freno - Without Brake (L)	72	111
Con Freno - With Brake (L)	85	124

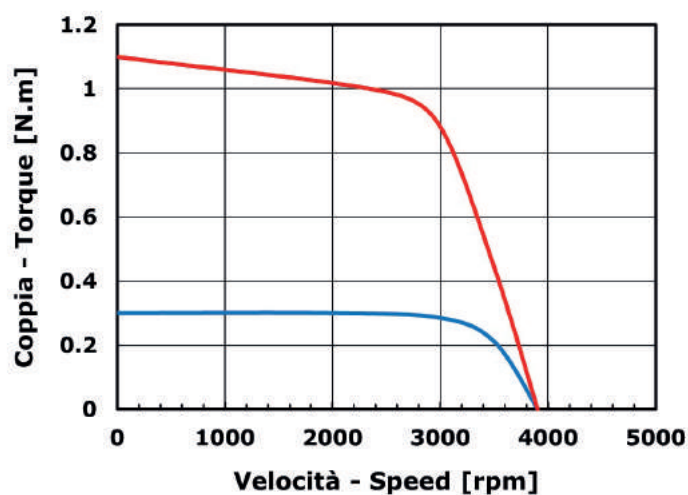


Curve Operative – Operative Curves

40SY-M00130LBX



40SY-M00330LBX



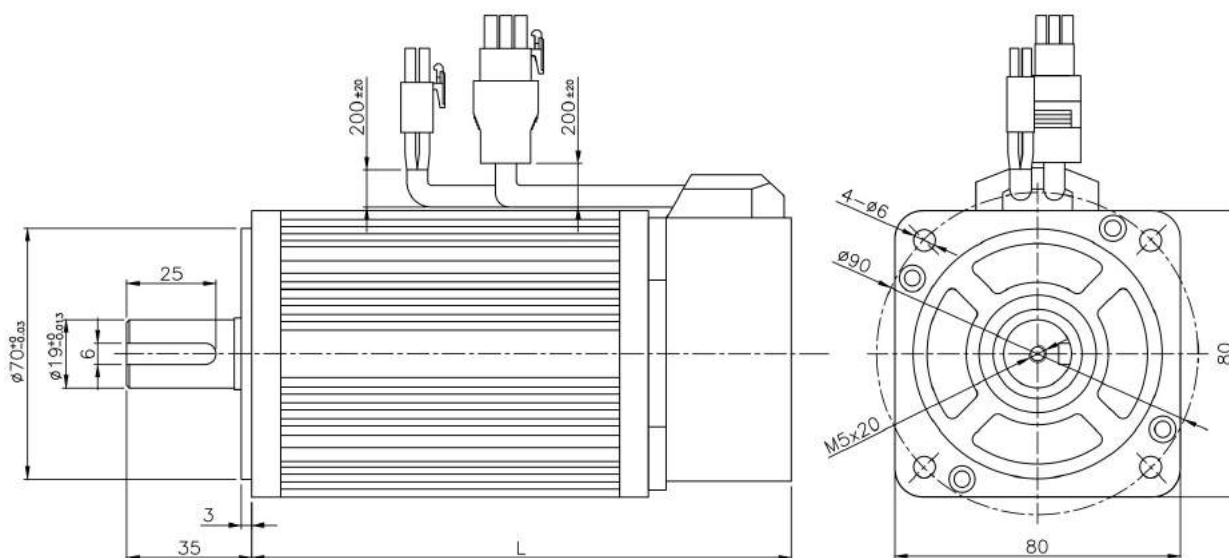


**Tipo - Type 80SY**

Modello Servomotore - Servomotor Model		M01330LBX	M02430LBX
Tensione Alimentazione - Applied Voltage		220 VAC	220 VAC
Numero di Poli Numbers of Poles	P	8	8
Potenza Nominale Rated Power	W	400	750
Corrente Nominale Rated Current	A	2	3
Velocità Nominale Rated Speed	rpm	3000	3000
Coppia Nominale Rated Torque	N.m	1.27	2.4
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	3.8	7.1
Costante di Tensione $\pm 5\%$ Voltage Constant $\pm 5\%$	V/Krpm	35.6	29.2
Costante di Coppia $\pm 5\%$ Torque Constant $\pm 5\%$	N.m/A	0.64	0.8
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	$1.05 \times 10^{-4}$	$1.82 \times 10^{-4}$
Resistenza di Avvolgimento Winding Resistance $\pm 5\%$	$\Omega$	4.26	2.84
Induttanza di Avvolgimento Winding Inductance	mH	7.87	5.35
Costante di Tempo Elettrica Mechanical Time Constant	ms	1.85	1.88
Massa Mass	kg	1.78	2.94
Classe d'isolamento Insulation Class	Classe F - F Class		
Grado di Protezione Level of Protection	IP	65	
Temperatura Operativa Operating Temperature	$^{\circ}\text{C}$	-20 $\div$ +50	

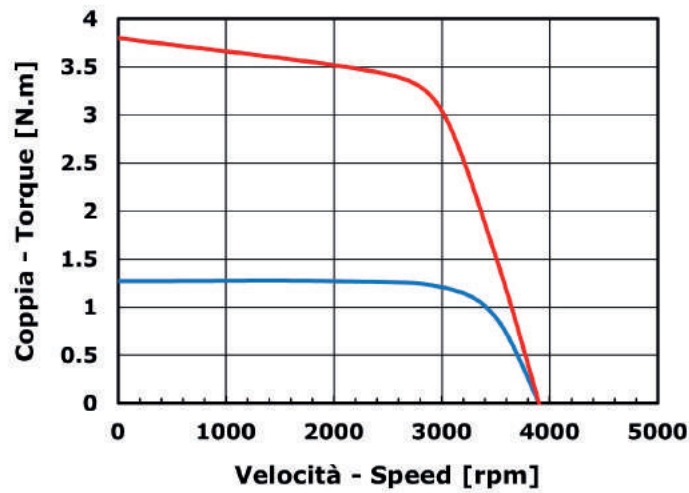
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	M01330LBX	M02430LBX
Senza Freno - Without Brake (L)	124	151
Con Freno - With Brake (L)	164	191

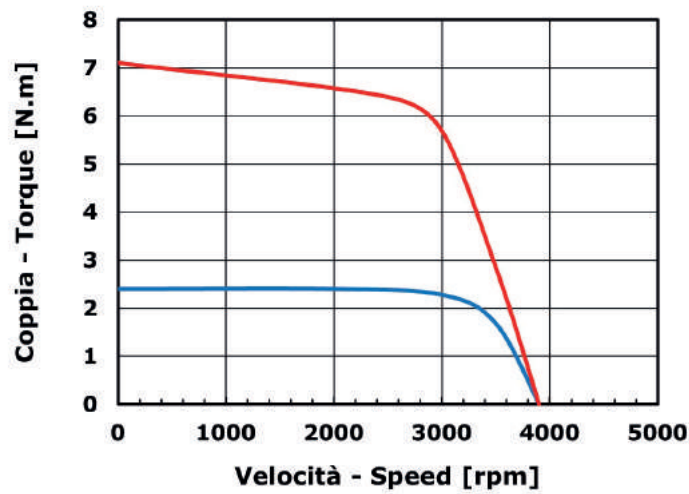


Curve Operative – Operative Curves

80SY-M01330LBX



80SY-M02430LBX

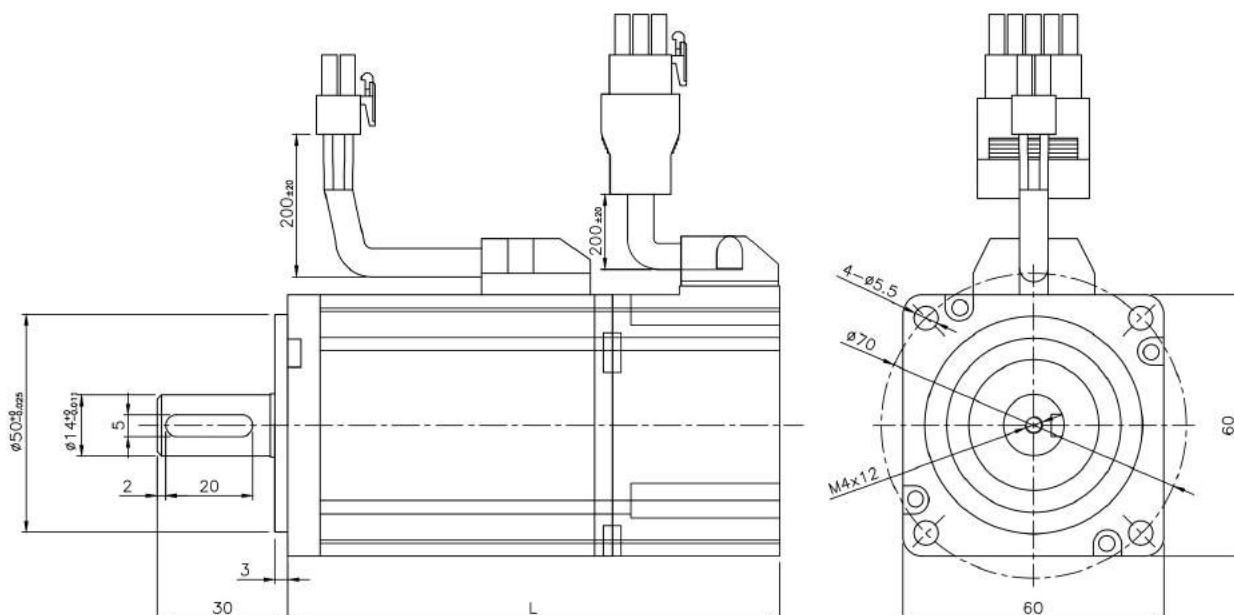


**Tipo - Type 60ASY**

Modello Servomotore - Servomotor Model		M00630LBX	M01330LBX
Tensione Alimentazione - Applied Voltage		220 VAC	220 VAC
Numero di Poli Numbers of Poles	P	10	10
Potenza Nominale Rated Power	W	200	400
Corrente Nominale Rated Current	A	1.9	2.3
Velocità Nominale Rated Speed	rpm	3000	3000
Coppia Nominale Rated Torque	N.m	0.64	1.27
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	2.23	4.46
Costante di Tensione $\pm 5\%$ Voltage Constant $\pm 5\%$	V/Krpm	22	31.5
Costante di Coppia $\pm 5\%$ Torque Constant $\pm 5\%$	N.m/A	0.33	0.55
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	$0.26 \times 10^{-4}$	$0.61 \times 10^{-4}$
Resistenza di Avvolgimento Winding Resistance $\pm 5\%$	$\Omega$	5.99	7.1
Induttanza di Avvolgimento Winding Inductance	mH	9.35	13.8
Costante di Tempo Elettrica Mechanical Time Constant	ms	1.56	1.94
Massa Mass	kg	0.96	1.22
Classe d'isolamento Insulation Class		Classe F - F Class	
Grado di Protezione Level of Protection	IP	64	
Temperatura Operativa Operating Temperature	$^{\circ}\text{C}$	-20 $\div$ +50	

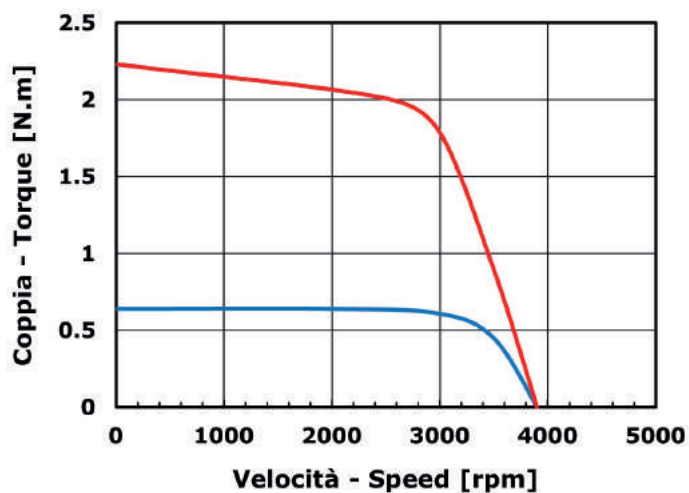
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	M00630LBX	M01330LBX
Senza Freno - Without Brake (L)	97	115
Compatto - Compact Size (L)	78	96
Con Freno - With Brake (L)	126	144

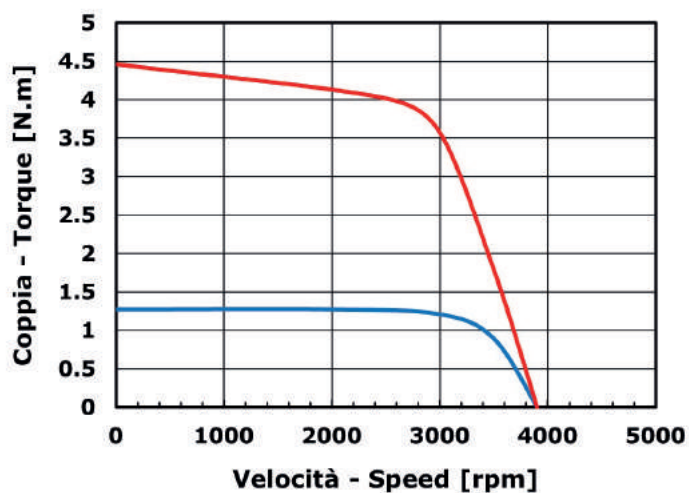


Curve Operative – Operative Curves

60ASY-M00630LBX



60ASY-M01330LBX

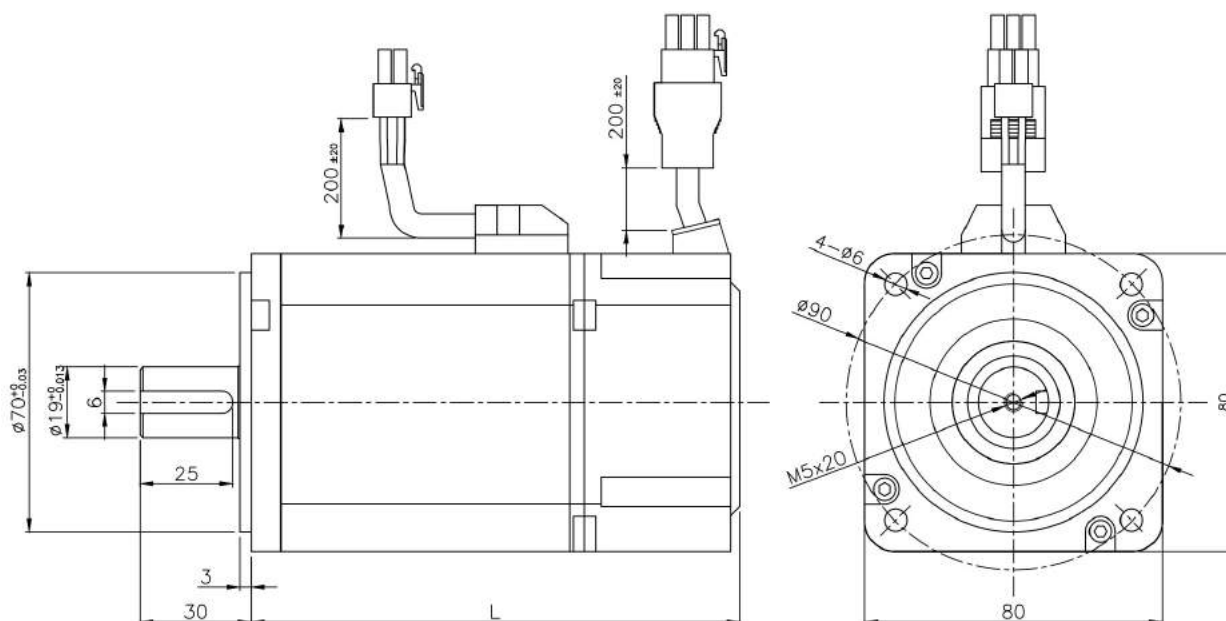


**Tipo - Type 80ASY**

Modello Servomotore – Servomotor Model		M01330LBX	M02430LBX	M03230LBX
Tensione Alimentazione - Applied Voltage		220 VAC	220 VAC	220 VAC
Numero di Poli Numbers of Poles	P	10	10	10
Potenza Nominale Rated Power	W	400	750	1000
Corrente Nominale Rated Current	A	2.8	4.2	6.5
Velocità Nominale Rated Speed	rpm	3000	3000	3000
Coppia Nominale Rated Torque	N.m	1.27	2.39	3.2
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	3.81	7.17	9.6
Costante di Tensione ±5% Voltage Constant ± 5%	V/Krpm	36	35	35
Costante di Coppia ±5% Torque Constant ± 5%	N.m/A	0.45	0.57	0.5
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	0.69×10 <sup>-4</sup>	1.71×10 <sup>-4</sup>	2.17×10 <sup>-4</sup>
Resistenza di Avvolgimento Winding Resistance ± 5%	Ω	3.69	1.65	1.01
Induttanza di Avvolgimento Winding Inductance	mH	14.25	7.4	4.6
Costante di Tempo Elettrica Mechanical Time Constant	ms	3.86	4.5	4.4
Massa Mass	kg	1.76	2.54	3.02
Classe d'isolamento Insulation Class	Classe F - F Class			
Grado di Protezione Level of Protection	IP	65		
Temperatura Operativa Operating Temperature	°C	-20 ÷ +50		

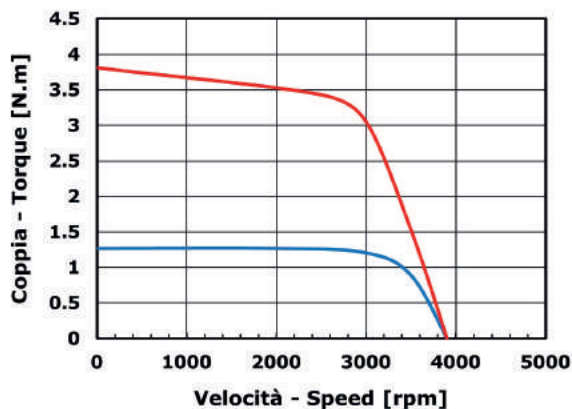
**Dimensioni – Dimensions**

Modello Servomotore – Servomotor Model	M01330LBX	M02430LBX	M03230LBX
Senza Freno – Without Brake (L)	111	132	150
Compatto – Compact Size (L)	92	113	131
Con Freno – With Brake (L)	142	163	181

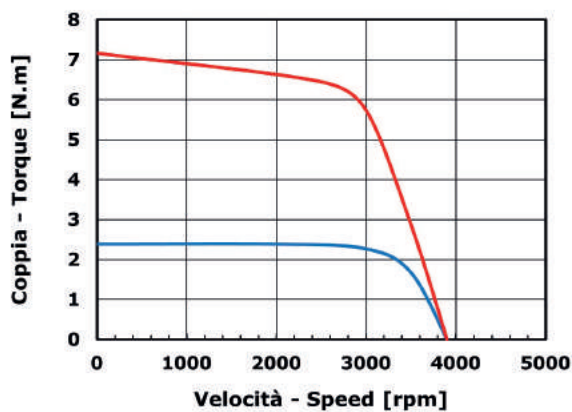


Curve Operative – Operative Curves

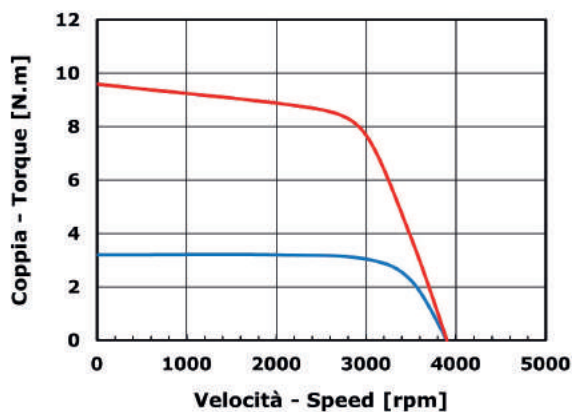
80ASY-M01330LBX



80ASY-M02430LBX



80ASY-M03230LBX

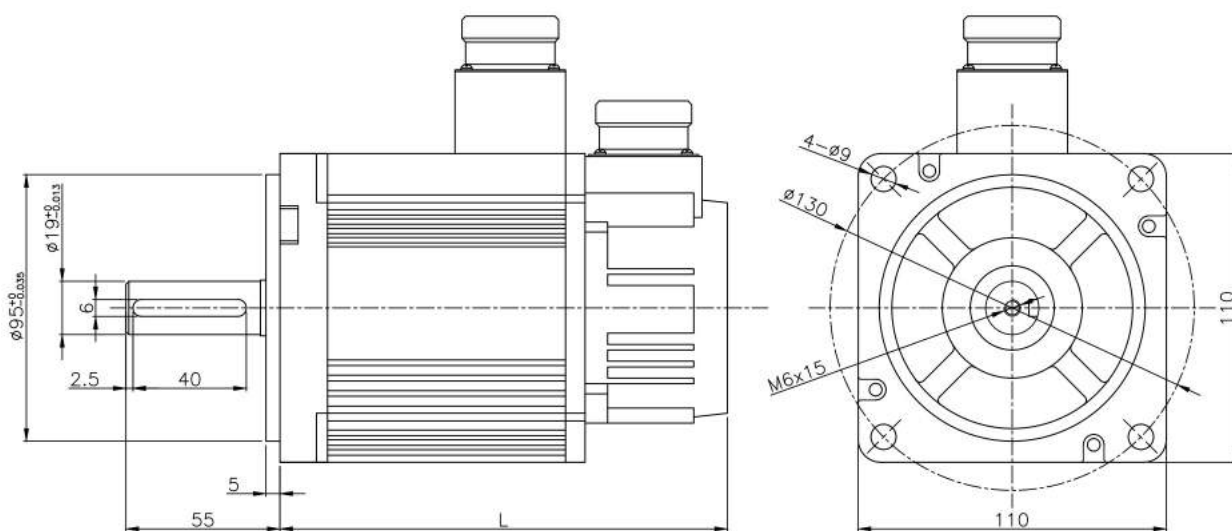


**Tipo - Type 110ASY**

Modello Servomotore - Servomotor Model		M04230LB	M05430LB
Tensione Alimentazione - Applied Voltage		220 VAC	220 VAC
Numero di Poli Numbers of Poles	P	10	10
Potenza Nominale Rated Power	KW	1.3	1.7
Corrente Nominale Rated Current	A	6.5	8.2
Velocità Nominale Rated Speed	rpm	3000	3000
Coppia Nominale Rated Torque	N.m	4.2	5.4
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	12.6	16.2
Costante di Tensione ± 5% Voltage Constant ± 5%	V/Krpm	42.5	43
Costante di Coppia ± 5% Torque Constant ± 5%	N.m/A	0.65	0.66
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	0.787×10 <sup>-3</sup>	0.916×10 <sup>-3</sup>
Resistenza di Avvolgimento Winding Resistance ± 5%	Ω	0.63	0.55
Induttanza di Avvolgimento Winding Inductance	mH	3.1	2.58
Costante di Tempo Elettrica Mechanical Time Constant	ms	4.92	4.69
Massa Mass	kg	4.22	4.84
Classe d'isolamento Insulation Class	Classe F - F Class		
Grado di Protezione Level of Protection	IP	65	
Temperatura Operativa Operating Temperature	°C	-20 ÷ +50	

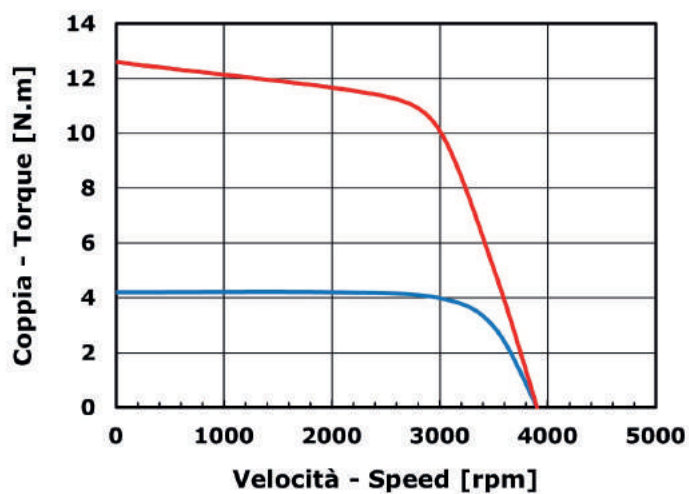
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	M04230LB	M05430LB
Senza Freno - Without Brake (L)	160	170
Con Freno - With Brake (L)	186	196

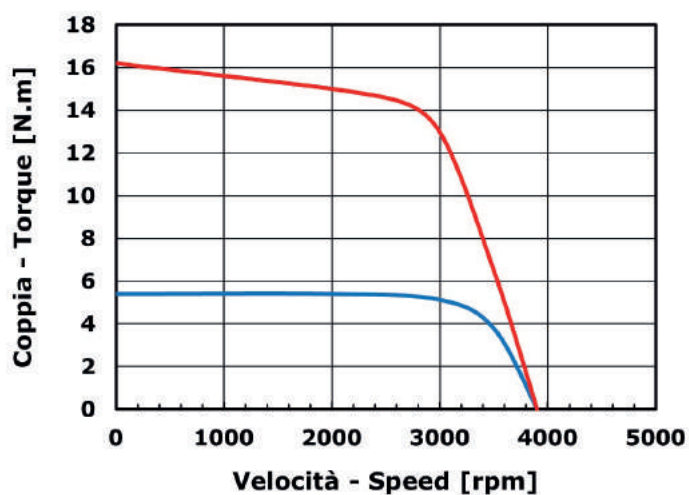


Curve Operative – Operative Curves

110ASY-M04230LB



110ASY-M05430LB



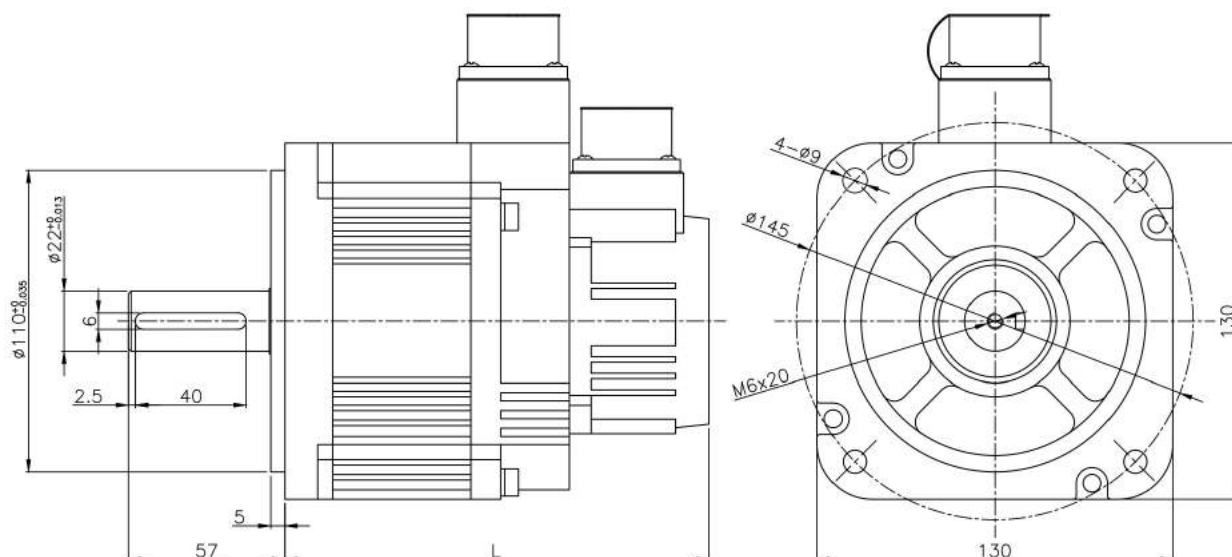


**Tipo - Type 130ASY**

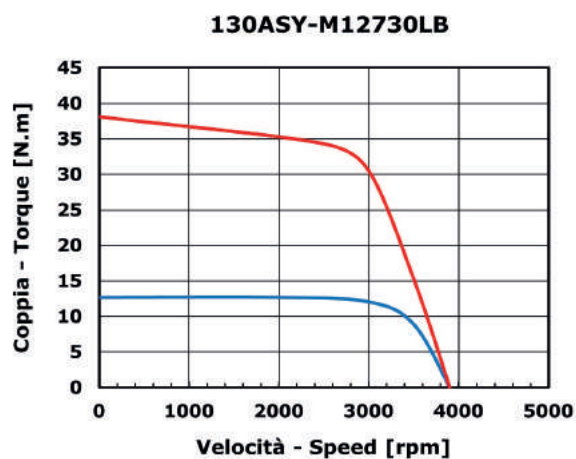
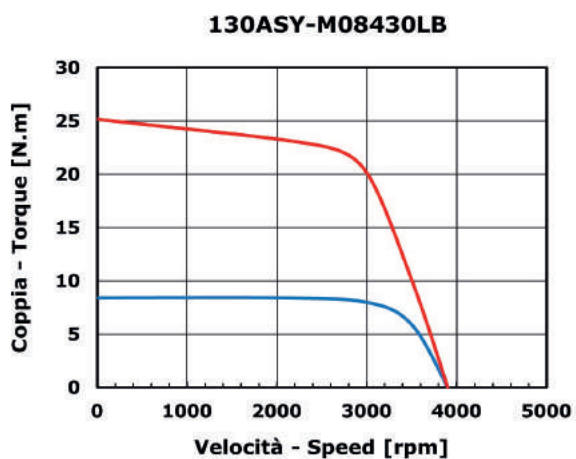
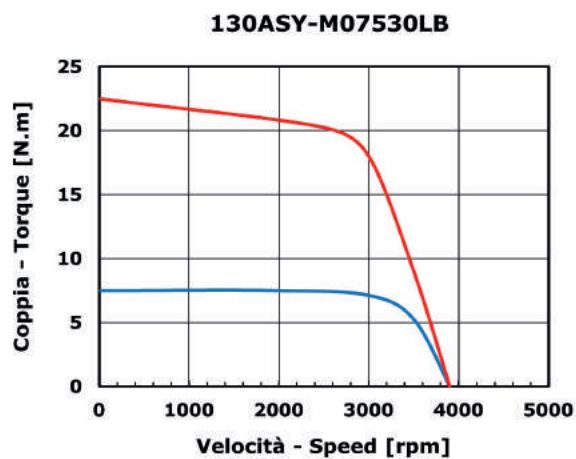
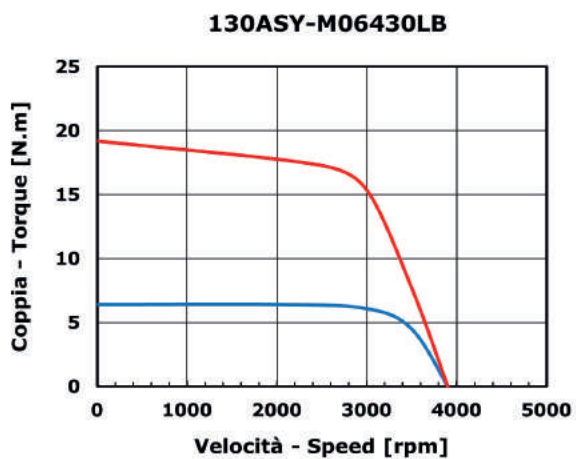
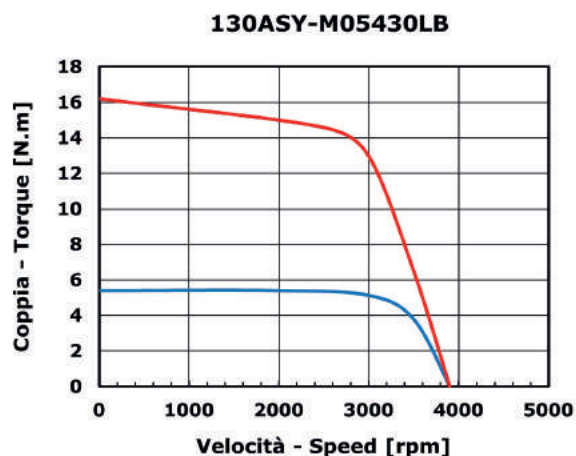
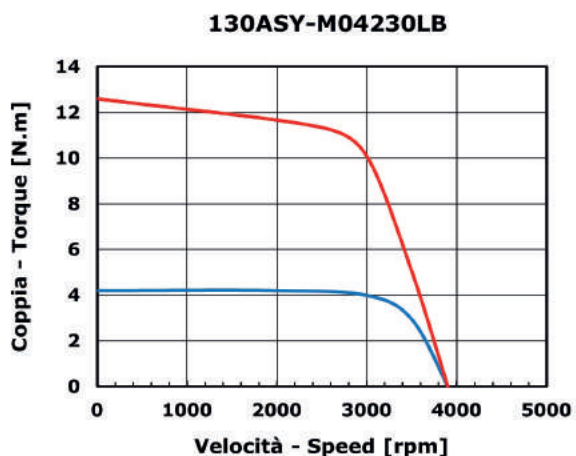
Modello Servomotore - Servomotor Model		M04230LB	M05430LB	M06430LB	M07530LB	M08430LB	M12730LB
Tensione Alimentazione - Applied Voltage		220 VAC	220 VAC	220 VAC	220 VAC	220 VAC	220 VAC
Numero di Poli Numbers of Poles	P	10	10	10	10	10	10
Potenza Nominale Rated Power	KW	1.3	1.7	2	2.4	2.6	4
Corrente Nominale Rated Current	A	5.5	9.5	11.5	12	13.5	20.6
Velocità Nominale Rated Speed	rpm	3000	3000	3000	3000	3000	3000
Coppia Nominale Rated Torque	N.m	4.2	5.4	6.4	7.5	8.4	12.7
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	12.6	16.2	19.2	22.5	25.2	38.1
Costante di Tensione $\pm 5\%$ Voltage Constant $\pm 5\%$	V/Krpm	49	42	41	41	41.6	40.4
Costante di Coppia $\pm 5\%$ Torque Constant $\pm 5\%$	N.m/A	0.76	0.57	0.56	0.63	0.62	0.62
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	$1.163 \times 10^{-3}$	$1.388 \times 10^{-3}$	$1.604 \times 10^{-3}$	$1.857 \times 10^{-3}$	$2.059 \times 10^{-3}$	$8.96 \times 10^{-3}$
Resistenza di Avvolgimento Winding Resistance $\pm 5\%$	$\Omega$	0.88	0.55	0.44	0.34	0.33	0.08
Induttanza di Avvolgimento Winding Inductance	mH	4.3	2.85	2	1.7	1.7	2.08
Costante di Tempo Elettrica Mechanical Time Constant	ms	4.9	5.2	4.5	5	5.2	26
Massa Mass	kg	5.12	5.64	6.38	7.06	7.4	13.24
Classe d'isolamento Insulation Class	Classe F - F Class						
Grado di Protezione Level of Protection	IP	65					
Temperatura Operativa Operating Temperature	$^{\circ}\text{C}$	-20 $\div$ +50					

**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	M04230LB	M05430LB	M06430LB	M07530LB	M08430LB	M12730LB
Senza Freno - Without Brake (L)	149	155	162	169	175	250
Con Freno - With Brake (L)	171	177	184	191	197	



Curve Operative – Operative Curves

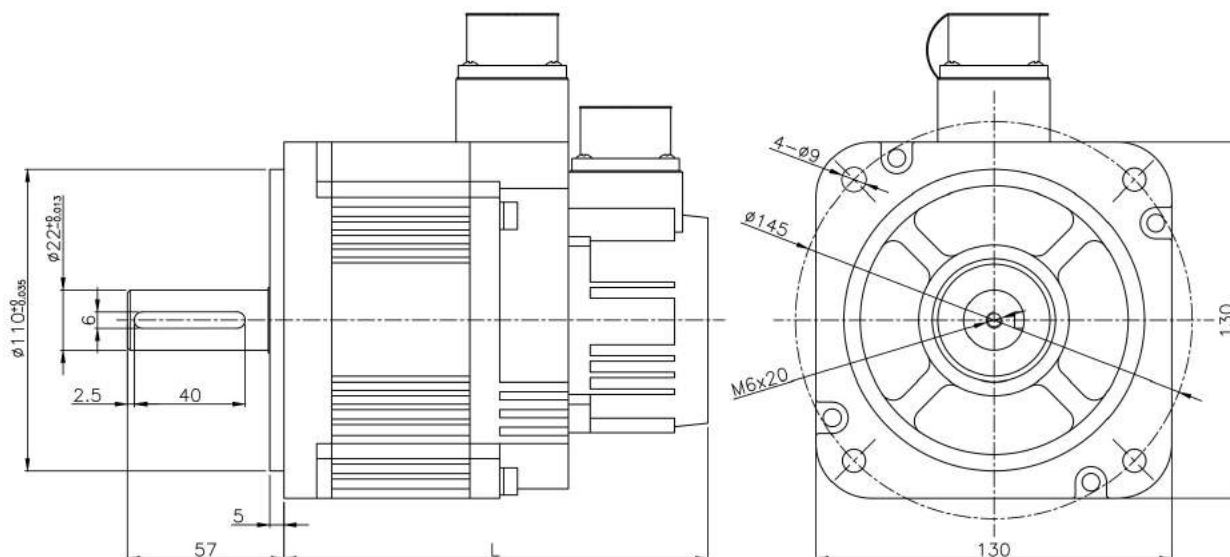


**Tipo - Type 130ASY**

Modello Servomotore - Servomotor Model		09630HL	12730HL
Tensione Alimentazione - Applied Voltage		380 VAC	380 VAC
Numero di Poli Numbers of Poles	P	10	10
Potenza Nominale Rated Power	KW	3	4
Corrente Nominale Rated Current	A	9	12
Velocità Nominale Rated Speed	rpm	3000	3000
Coppia Nominale Rated Torque	N.m	9.6	12.7
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	28.8	38.1
Costante di Tensione $\pm 5\%$ Voltage Constant $\pm 5\%$	V/Krpm	69.6	69.6
Costante di Coppia $\pm 5\%$ Torque Constant $\pm 5\%$	N.m/A	1.06	1.06
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	$6.93 \times 10^{-4}$	$8.96 \times 10^{-4}$
Resistenza di Avvolgimento Winding Resistance $\pm 5\%$	$\Omega$	0.33	0.25
Induttanza di Avvolgimento Winding Inductance	mH	8.9	6.75
Costante di Tempo Elettrica Mechanical Time Constant	ms	27	27
Massa Mass	kg	10.22	13.24
Classe d'isolamento Insulation Class	Classe F - F Class		
Grado di Protezione Level of Protection	IP	65	
Temperatura Operativa Operating Temperature	$^{\circ}\text{C}$	-20 $\div$ +50	

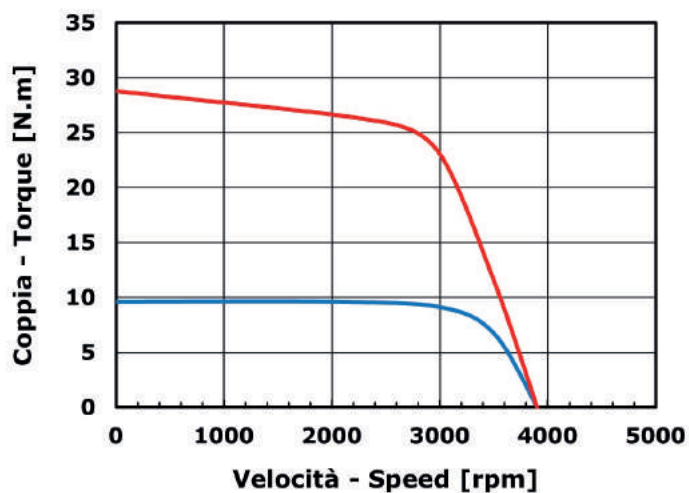
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	M05430LB	M06430LB
Senza Freno - Without Brake (L)	260	230

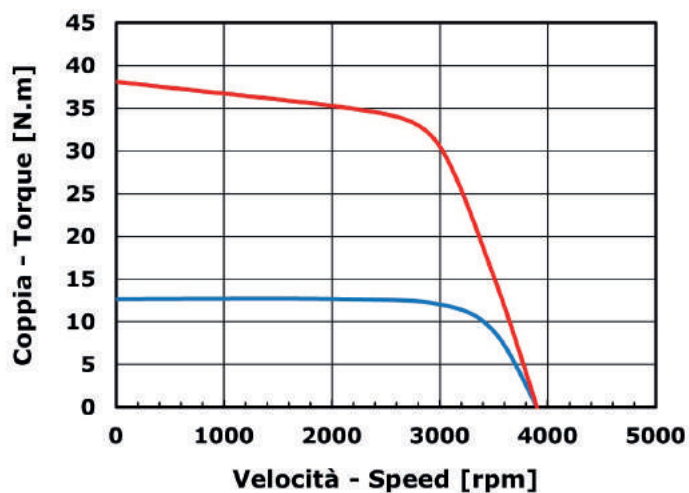


Curve Operative – Operative Curves

130ASY-09630HL



130ASY-12730HL

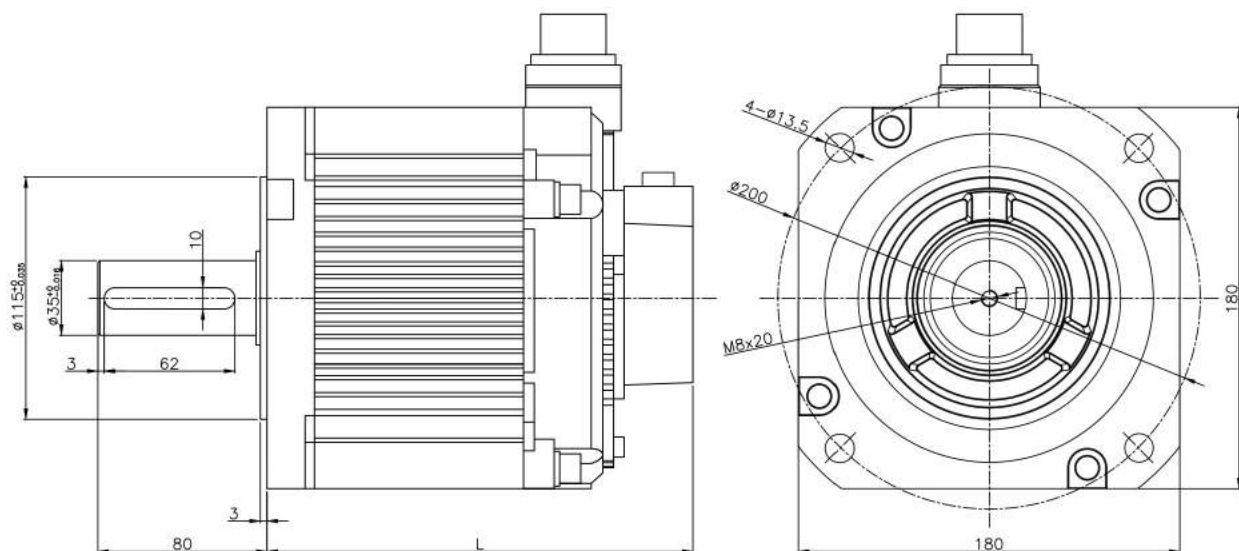


**Tipo - Type 180ASY**

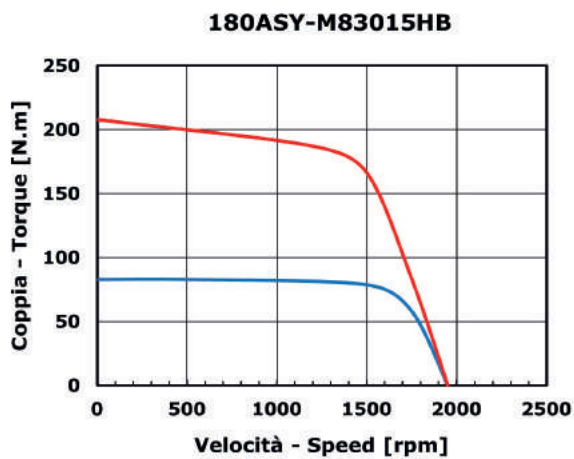
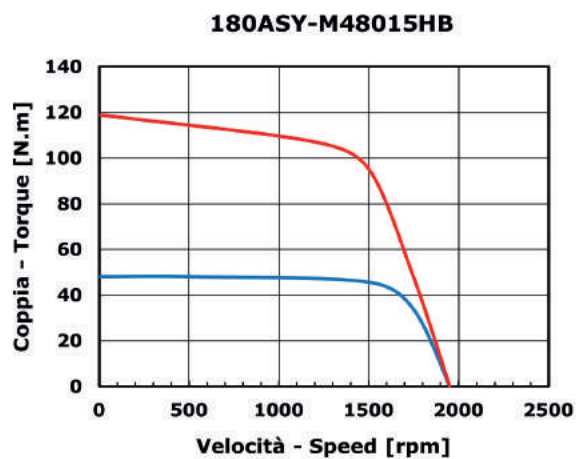
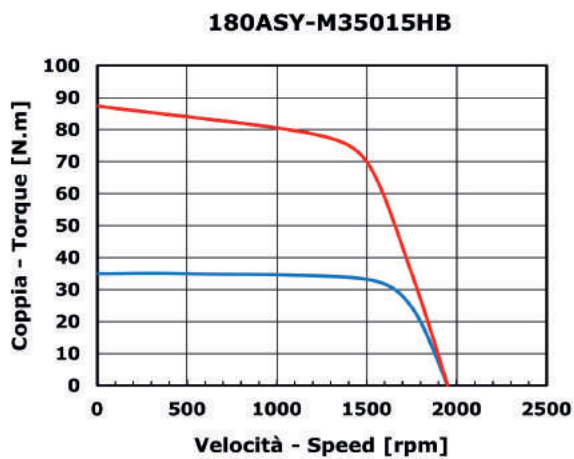
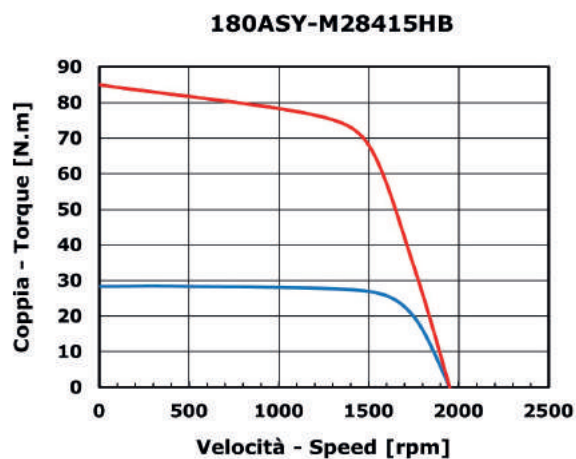
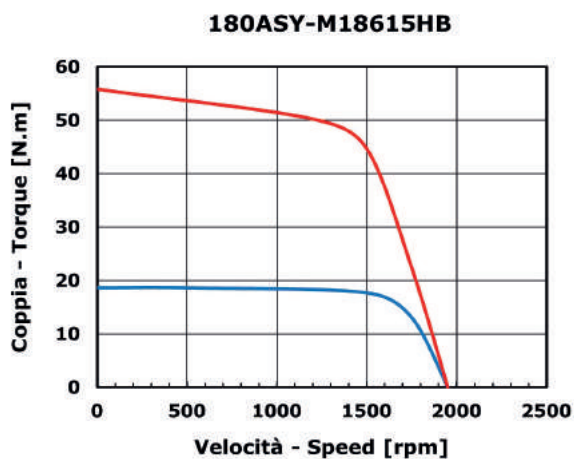
Modello Servomotore - Servomotor Model		M18615HB	M28415HB	M35015HB	M48015HB	M83015HB
Tensione Alimentazione - Applied Voltage		380 VAC	380 VAC	380 VAC	380 VAC	380 VAC
Numero di Poli Numbers of Poles	P	10	10	10	10	10
Potenza Nominale Rated Power	KW	2.9	4.4	5.5	7.5	13
Corrente Nominale Rated Current	A	11.8	15.7	20.6	25.7	26.5
Velocità Nominale Rated Speed	rpm	1500	1500	1500	1500	1500
Coppia Nominale Rated Torque	N.m	18.6	28.4	35	48	83
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	55.8	85	87.5	119	208
Costante di Tensione ±5% Voltage Constant ± 5%	V/Krpm	108	119	106	123	205.8
Costante di Coppia ±5% Torque Constant ± 5%	N.m/A	1.58	1.8	1.7	1.86	3.13
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	5.68×10 <sup>-3</sup>	7.82×10 <sup>-3</sup>	10.9×10 <sup>-3</sup>	13×10 <sup>-3</sup>	27.28×10 <sup>-3</sup>
Resistenza di Avvolgimento Winding Resistance ± 5%	Ω	0.46	0.31	0.2	0.16	0.18
Induttanza di Avvolgimento Winding Inductance	mH	9.17	7.52	4.2	4.3	4.3
Costante di Tempo Elettrica Mechanical Time Constant	ms	19.9	24.3	21	26.9	23.9
Massa Mass	kg	16.3	21.4	25.8	32.3	56
Classe d'isolamento Insulation Class		Classe F - F Class				
Grado di Protezione Level of Protection	IP	65				
Temperatura Operativa Operating Temperature	°C	-20 ÷ +50				

**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	M18615HB	M28415HB	M35015HB	M48015HB	M83015HB
Senza Freno - Without Brake (L)	198	227	254	297	450
Con Freno - With Brake (L)	246	275	302	345	498



Curve Operative – Operative Curves

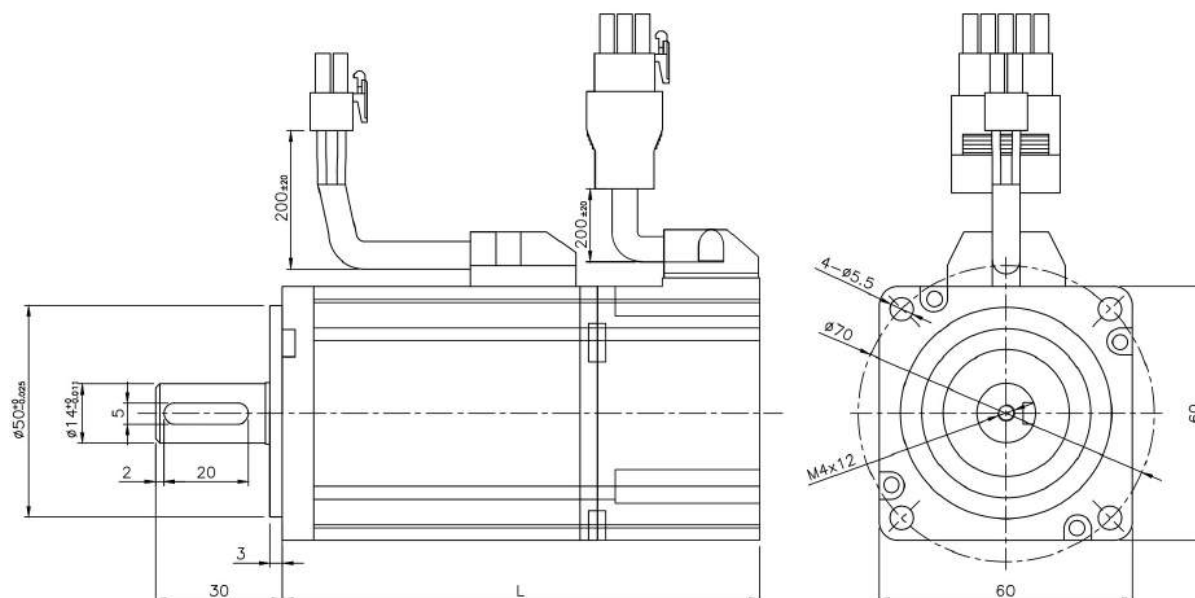


**Tipo - Type 60ADY**

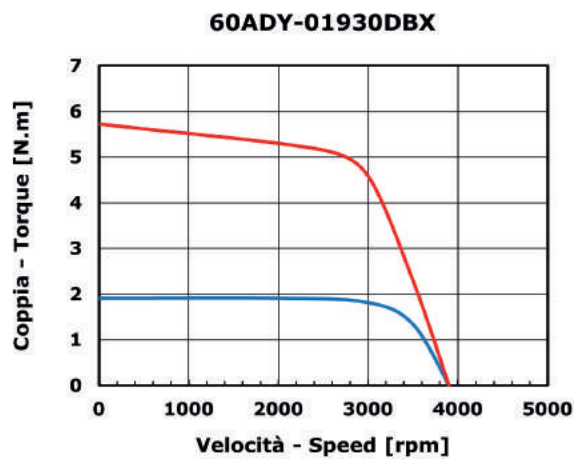
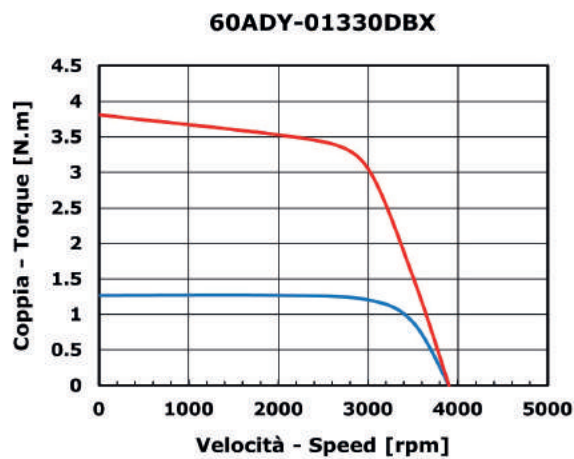
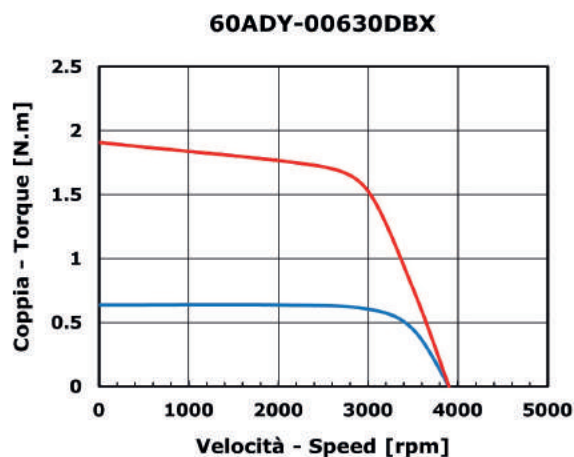
Modello Servomotore - Servomotor Model		00630DBX	01330DBX	01930DBX
Tensione Alimentazione - Applied Voltage		48 VDC	48 VDC	48 VDC
Numero di Poli Numbers of Poles	P	10	10	10
Potenza Nominale Rated Power	W	200	400	600
Corrente Nominale Rated Current	A	5.2	10.2	15
Velocità Nominale Rated Speed	rpm	3000	3000	3000
Coppia Nominale Rated Torque	N.m	0.637	1.27	1.91
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	1.91	3.81	5.73
Costante di Tensione $\pm 5\%$ Voltage Constant $\pm 5\%$	V/Krpm	8	8	8.2
Costante di Coppia $\pm 5\%$ Torque Constant $\pm 5\%$	N.m/A	0.123	0.124	0.127
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	$0.27 \times 10^{-4}$	$0.49 \times 10^{-4}$	$0.74 \times 10^{-4}$
Resistenza di Avvolgimento Winding Resistance $\pm 5\%$	$\Omega$	0.86	0.33	0.21
Induttanza di Avvolgimento Winding Inductance	mH	1.46	0.65	0.44
Costante di Tempo Elettrica Mechanical Time Constant	ms	1.7	1.97	2.1
Massa Mass	kg	0.96	1.22	1.48
Classe d'isolamento Insulation Class		Classe F - F Class		
Grado di Protezione Level of Protection	IP	65		
Temperatura Operativa Operating Temperature	$^{\circ}\text{C}$	-20 $\div$ +50		

**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	00630DBX	01330DBX	01930DBX
Compatto - Compact (L)	75.5	92.5	103.5
Senza Freno - Without Brake (L)	94.5	111.5	122.5
Compatto Con Freno - Compact With Brake (L)	108	125	136
Con Freno - With Brake (L)	127	144	155



Curve Operative – Operative Curves



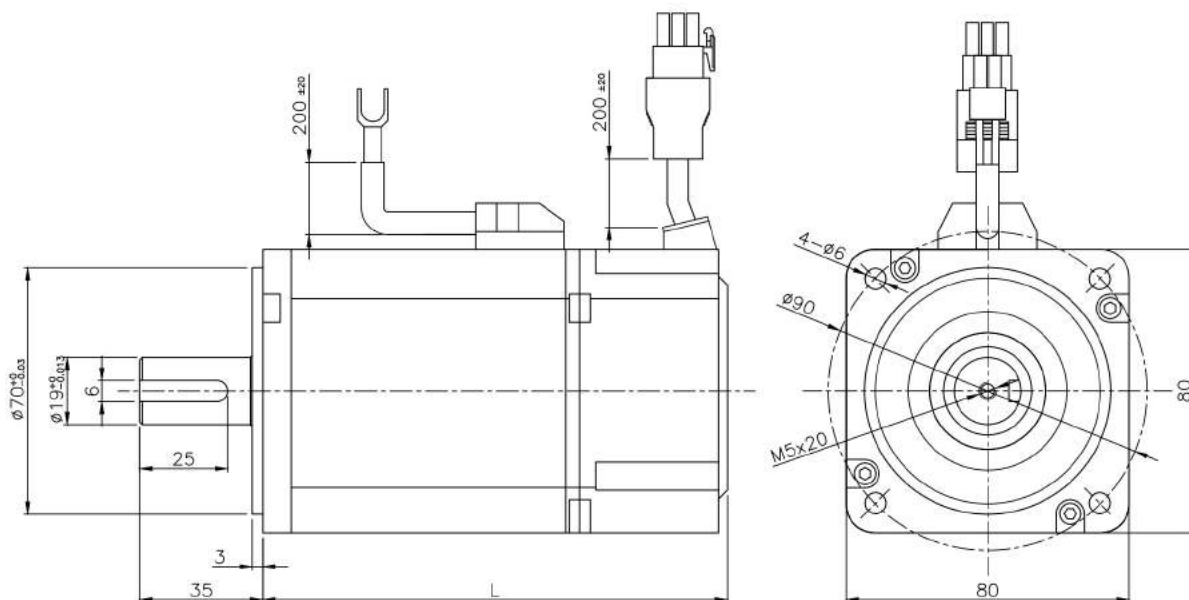


**Tipo - Type 80ADY**

Modello Servomotore - Servomotor Model		01330DBX	02430DBX	03230DBX
Tensione Alimentazione - Applied Voltage		48 VDC	48 VDC	48 VDC
Numero di Poli Numbers of Poles	P	10	10	10
Potenza Nominale Rated Power	W	400	750	1000
Corrente Nominale Rated Current	A	10.5	18.5	24.5
Velocità Nominale Rated Speed	rpm	3000	3000	3000
Coppia Nominale Rated Torque	N.m	1.27	2.39	3.2
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	3.81	7.17	9.6
Costante di Tensione $\pm 5\%$ Voltage Constant $\pm 5\%$	V/Krpm	7.9	8.5	8.5
Costante di Coppia $\pm 5\%$ Torque Constant $\pm 5\%$	N.m/A	0.121	0.129	0.13
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	$0.54 \times 10^{-4}$	$1.42 \times 10^{-4}$	$1.92 \times 10^{-4}$
Resistenza di Avvolgimento Winding Resistance $\pm 5\%$	$\Omega$	0.21	0.11	0.08
Induttanza di Avvolgimento Winding Inductance	mH	0.73	0.43	0.3
Costante di Tempo Elettrica Mechanical Time Constant	ms	3.48	3.91	3.75
Massa Mass	kg	1.76	2.54	3.02
Classe d'isolamento Insulation Class		Classe F - F Class		
Grado di Protezione Level of Protection	IP	65		
Temperatura Operativa Operating Temperature	$^{\circ}\text{C}$	-20 $\div$ +50		

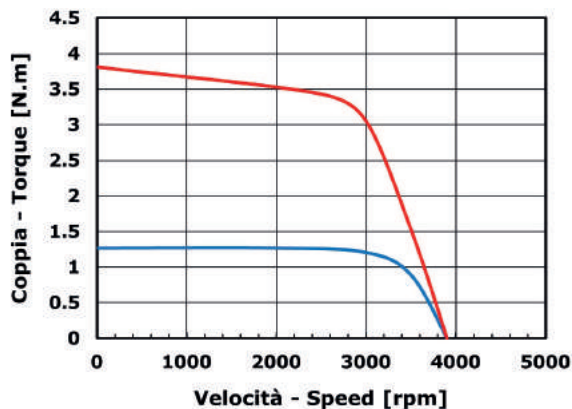
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	01330DBX	02430DBX	03230DBX
Compatto - Compact (L)	88.5	106.5	124.5
Senza Freno - Without Brake (L)	107.5	125.5	143.5
Compatto Con Freno - Compact With Brake (L)	125	143	161
Con Freno - With Brake (L)	144	162	180

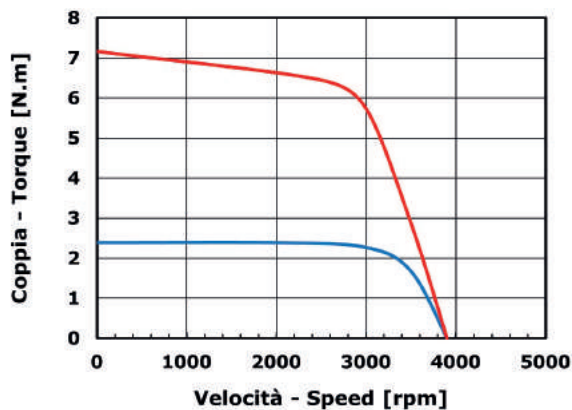


Curve Operative – Operative Curves

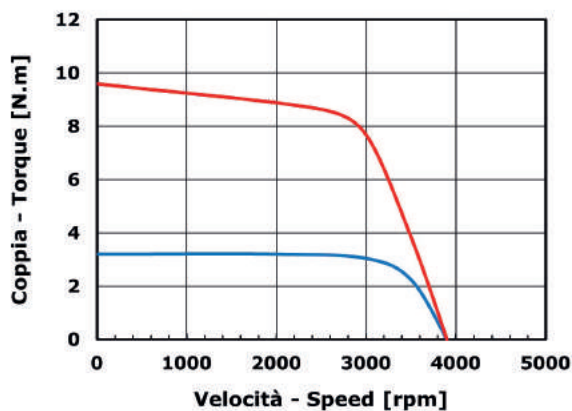
80ADY-01330DBX



80ADY-02430DBX



80ADY-03230DBX

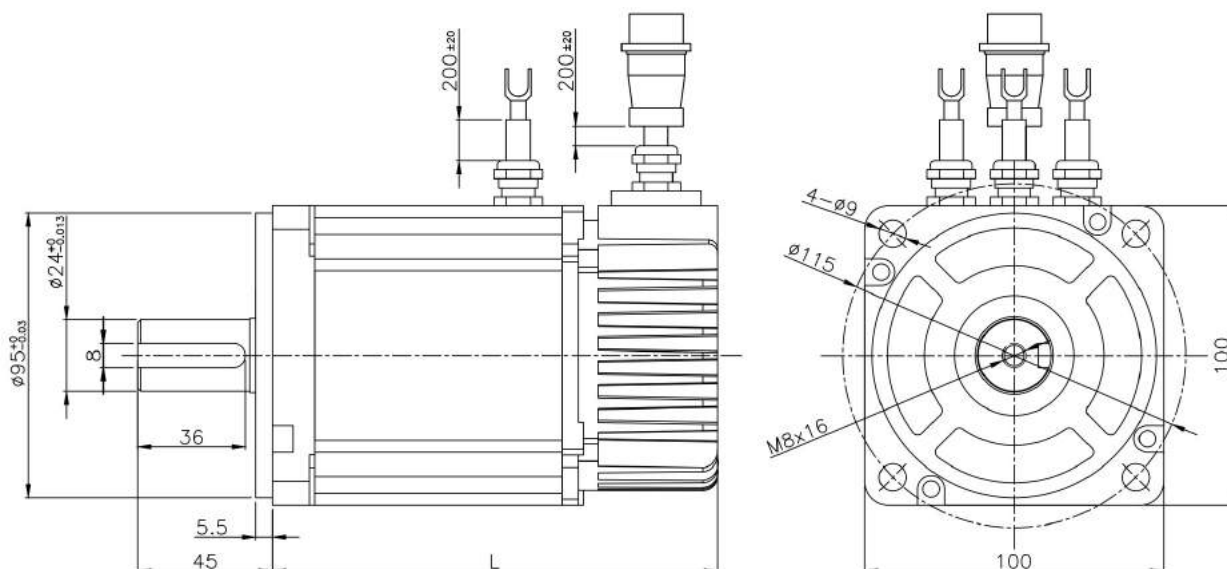


**Tipo - Type 100ADY**

Modello Servomotore - Servomotor Model		03230DBX	04930DBX	06430DBX
Tensione Alimentazione - Applied Voltage		48 VDC	48 VDC	48 VDC
Numero di Poli Numbers of Poles	P	10	10	10
Potenza Nominale Rated Power	KW	1	1.5	2
Corrente Nominale Rated Current	A	25.5	37.5	52
Velocità Nominale Rated Speed	rpm	3000	3000	3000
Coppia Nominale Rated Torque	N.m	3.2	4.9	6.4
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	9.6	14.7	19.2
Costante di Tensione ±5% Voltage Constant ± 5%	V/Krpm	8.4	8.5	8
Costante di Coppia ±5% Torque Constant ± 5%	N.m/A	0.125	0.131	0.122
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	2.04×10 <sup>-4</sup>	2.90×10 <sup>-4</sup>	3.79×10 <sup>-4</sup>
Resistenza di Avvolgimento Winding Resistance ± 5%	Ω	0.055	0.037	0.028
Induttanza di Avvolgimento Winding Inductance	mH	0.35	0.2	0.13
Costante di Tempo Elettrica Mechanical Time Constant	ms	6.4	5.4	4.6
Massa Mass	kg	4.6	5.78	6.92
Classe d'isolamento Insulation Class		Classe F - F Class		
Grado di Protezione Level of Protection	IP	65		
Temperatura Operativa Operating Temperature	°C	-20 ÷ +50		

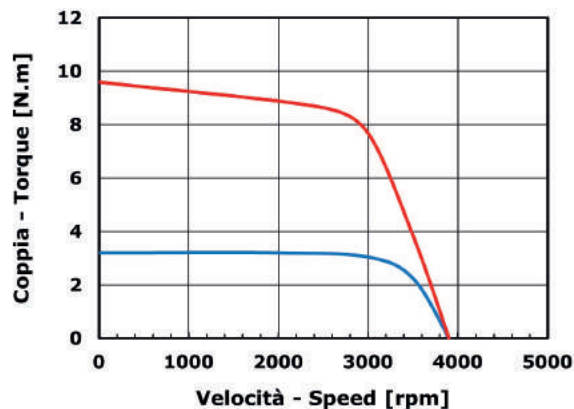
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	03230DBX	04930DBX	06430DBX
Senza Freno - Without Brake (L)	149	167	189
Con Freno - With Brake (L)	199	217	239

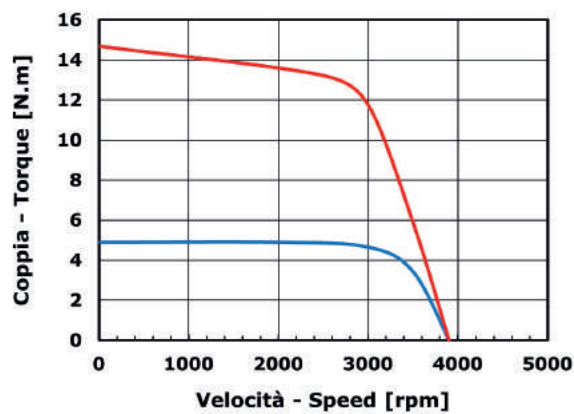


Curve Operative – Operative Curves

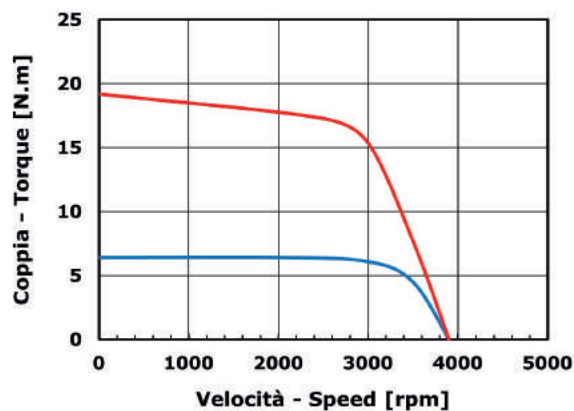
100ADY-03230DBX



100ADY-04930DBX



100ADY-06430DBX

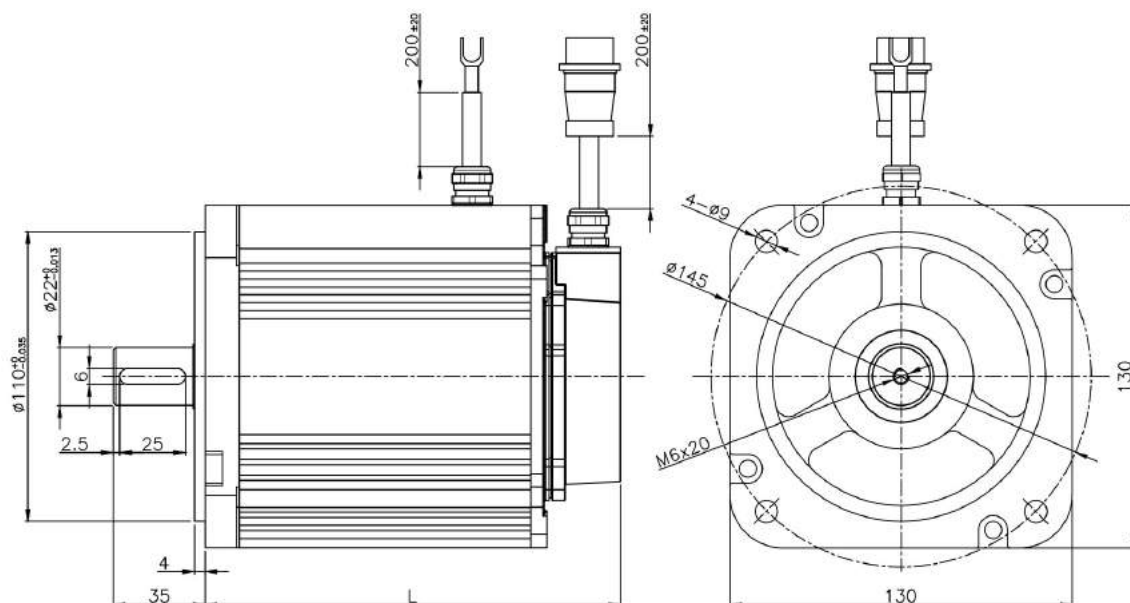


**Tipo - Type 130ADY**

Modello Servomotore - Servomotor Model		04230DBX	05430DBX
Tensione Alimentazione - Applied Voltage		48VDC	48VDC
Numero di Poli Numbers of Poles	P	10	10
Potenza Nominale Rated Power	KW	1.3	1.7
Corrente Nominale Rated Current	A	34	42.5
Velocità Nominale Rated Speed	rpm	3000	3000
Coppia Nominale Rated Torque	N.m	4.2	5.4
Coppia di Picco Istantanea Instantaneous Peak Torque	N.m	12.6	16.2
Costante di Tensione $\pm 5\%$ Voltage Constant $\pm 5\%$	V/Krpm	8	8.3
Costante di Coppia $\pm 5\%$ Torque Constant $\pm 5\%$	N.m/A	0.24	0.235
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	$8.87 \times 10^{-4}$	$11.6 \times 10^{-4}$
Resistenza di Avvolgimento Winding Resistance $\pm 5\%$	$\Omega$	0.032	0.024
Induttanza di Avvolgimento Winding Inductance	mH	0.31	0.24
Costante di Tempo Elettrica Mechanical Time Constant	ms	9.7	10
Massa Mass	kg	4.22	4.84
Classe d'isolamento Insulation Class		Classe F - F Class	
Grado di Protezione Level of Protection	IP	65	
Temperatura Operativa Operating Temperature	$^{\circ}\text{C}$	$-20 \div +50$	

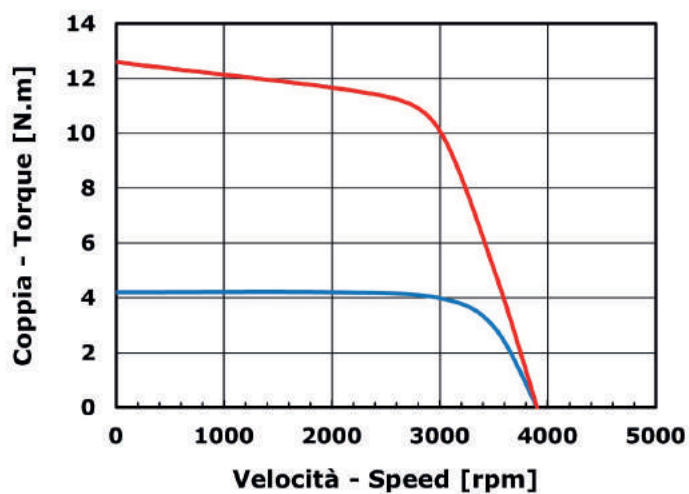
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	04230DBX	05430DBX
Compatto - Compact (L)	127	134
Senza Freno - Without Brake (L)	148	155
Compatto Con Freno - Compact With Brake (L)	149	156
Con Freno - With Brake (L)	170	177

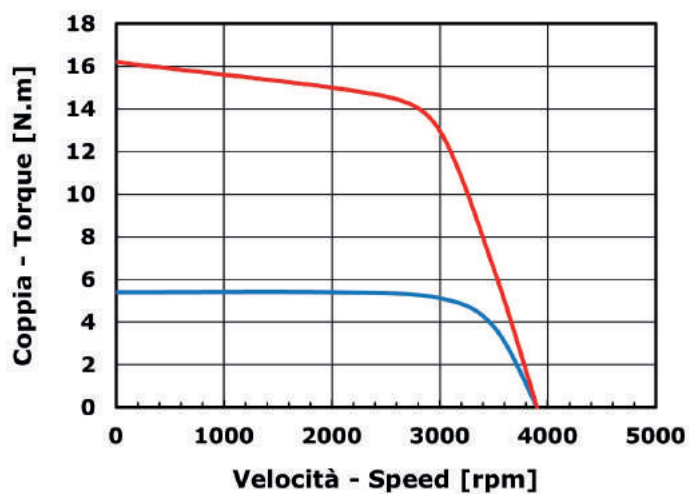


Curve Operative – Operative Curves

**130ADY-04230DBX**



**130ADY-05430DBX**

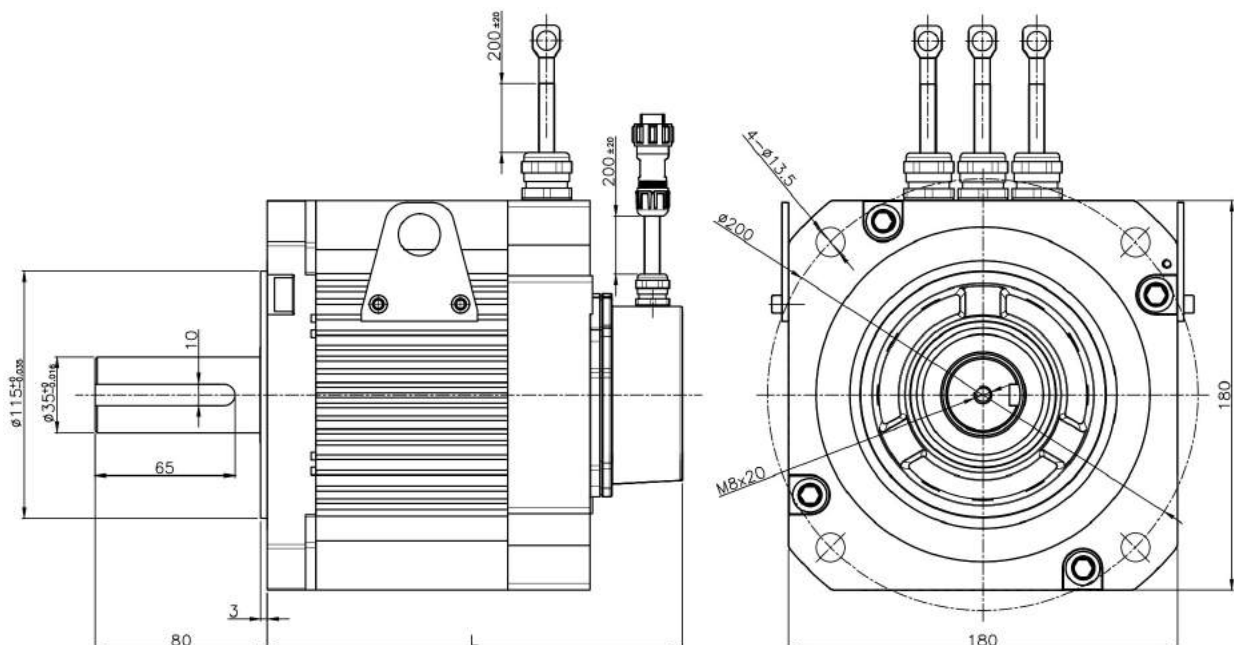


**Tipo - Type 180ADY**

Modello Servomotore - Servomotor Model		18615DBX	28410DBX
Tensione Alimentazione - Applied Voltage		48VDC	48VDC
Numero di Poli <i>Numbers of Poles</i>	P	10	10
Potenza Nominale <i>Rated Power</i>	KW	2.9	3
Corrente Nominale <i>Rated Current</i>	A	75	74
Velocità Nominale <i>Rated Speed</i>	rpm	1500	1000
Coppia Nominale <i>Rated Torque</i>	N.m	18.6	28.4
Coppia di Picco Istantanea <i>Instantaneous Peak Torque</i>	N.m	56	85
Costante di Tensione $\pm 5\%$ <i>Voltage Constant <math>\pm 5\%</math></i>	V/Krpm	8.4	14.7
Costante di Coppia $\pm 5\%$ <i>Torque Constant <math>\pm 5\%</math></i>	N.m/A	0.25	0.38
Momento d'inerzia Rotor Moment of Inertia	kg.m <sup>2</sup>	$6.18 \times 10^{-3}$	$9.16 \times 10^{-3}$
Resistenza di Avvolgimento <i>Winding Resistance <math>\pm 5\%</math></i>	$\Omega$	0.008	0.01
Induttanza di Avvolgimento <i>Winding Inductance</i>	mH	0.13	0.14
Costante di Tempo Elettrica <i>Mechanical Time Constant</i>	ms	16.3	14
Massa <i>Mass</i>	kg	16.3	21.4
Classe d'isolamento <i>Insulation Class</i>	Classe F - F Class		
Grado di Protezione <i>Level of Protection</i>	IP	65	
Temperatura Operativa <i>Operating Temperature</i>	$^{\circ}\text{C}$	-20 $\div$ +50	

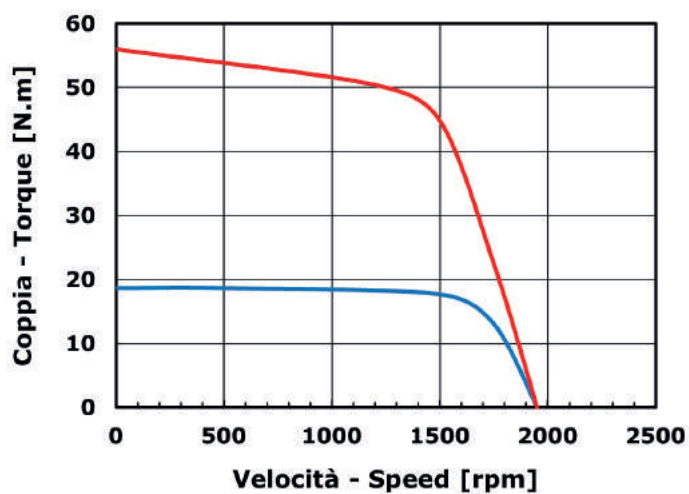
**Dimensioni - Dimensions**

Modello Servomotore - Servomotor Model	18615DBX	28410DBX
Senza Freno - Without Brake (L)	221	256



Curve Operative – Operative Curves

180ADY-18615DBX



180ADY-28410DBX

