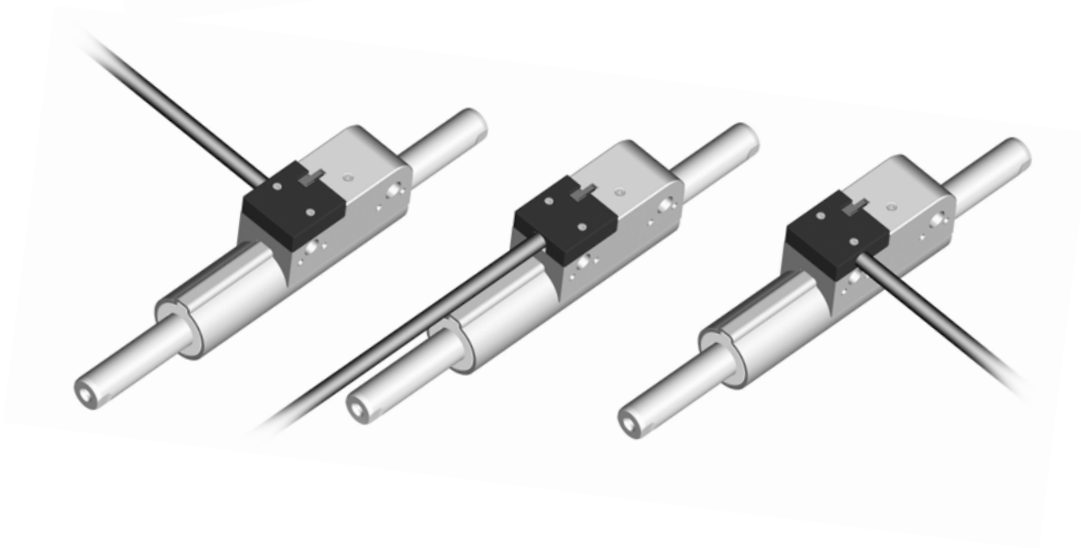
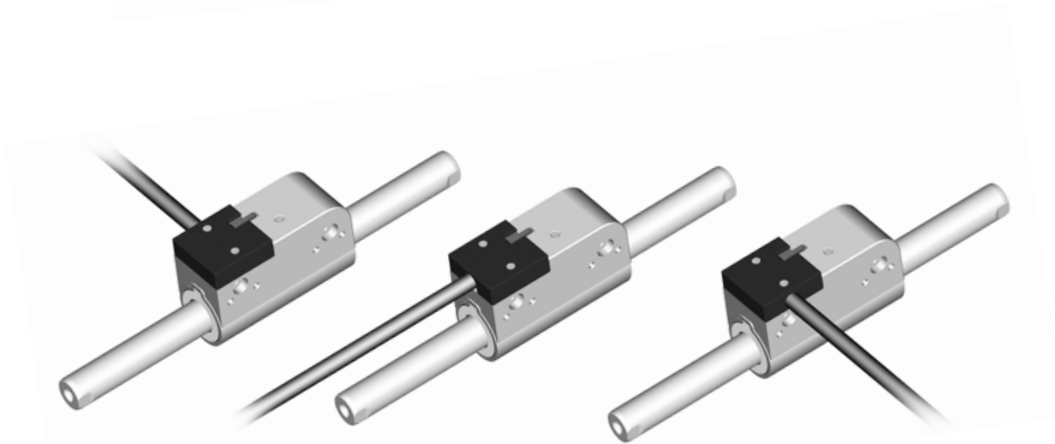




P02-23Sx80/10x50 200

P02-23Sx80/30x90 202

P02-23Sx80/50x110 204

P02-23Sx80/80x140 206

P02-23Sx80/150x210 208

P02-23Sx80/210x270 210

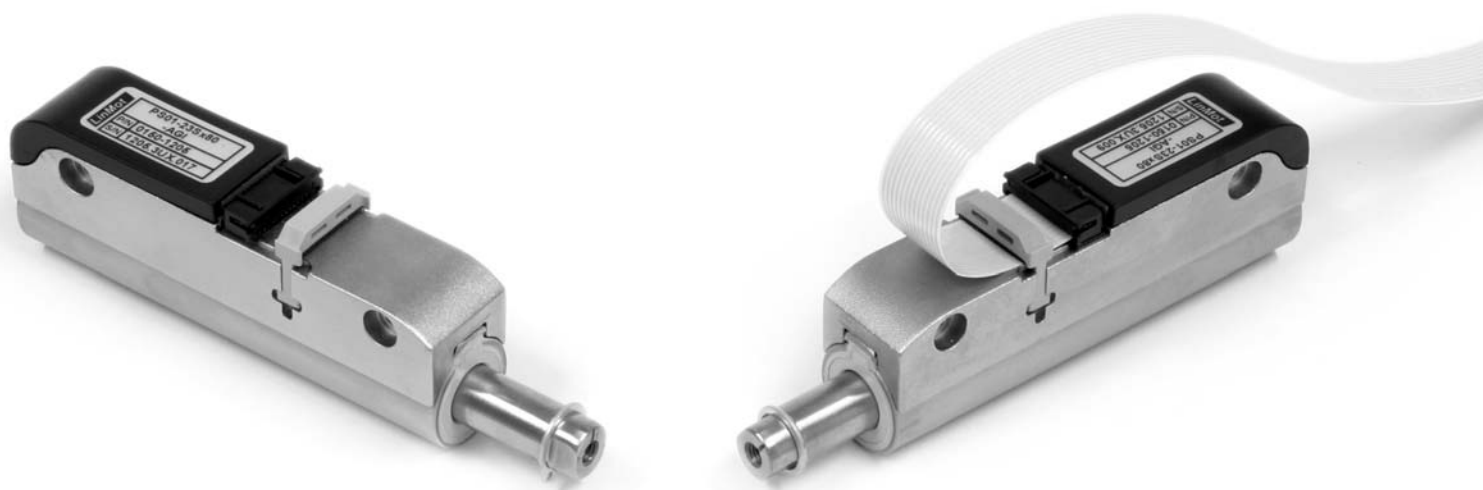
P02-23Sx80/280x340 212

P02-23Sx80/340x400 214

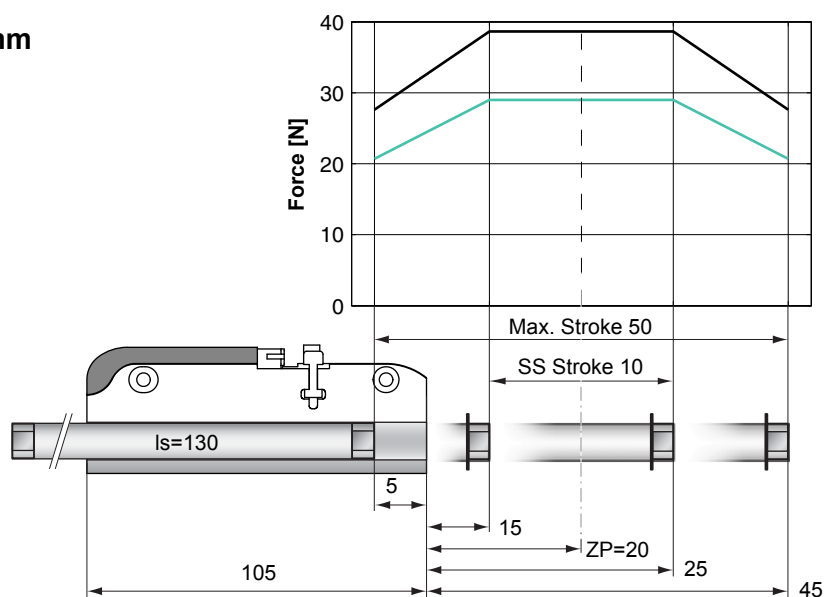
P02-23Sx80/440x500 216

P02-23Sx80/620x680 218

P02-23Sx80/710x770 220



Max. Stroke: 50mm
Peak Force: 39N



Standard Winding:

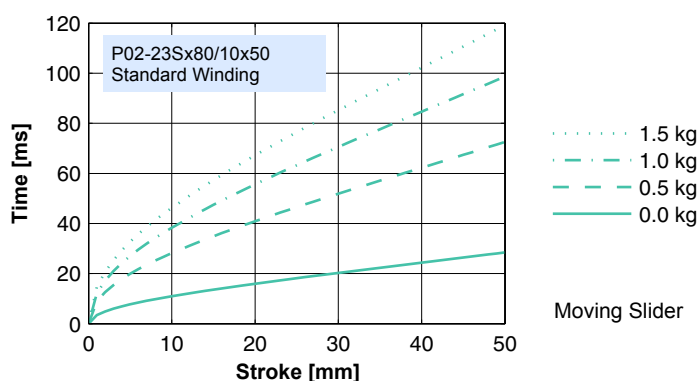
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

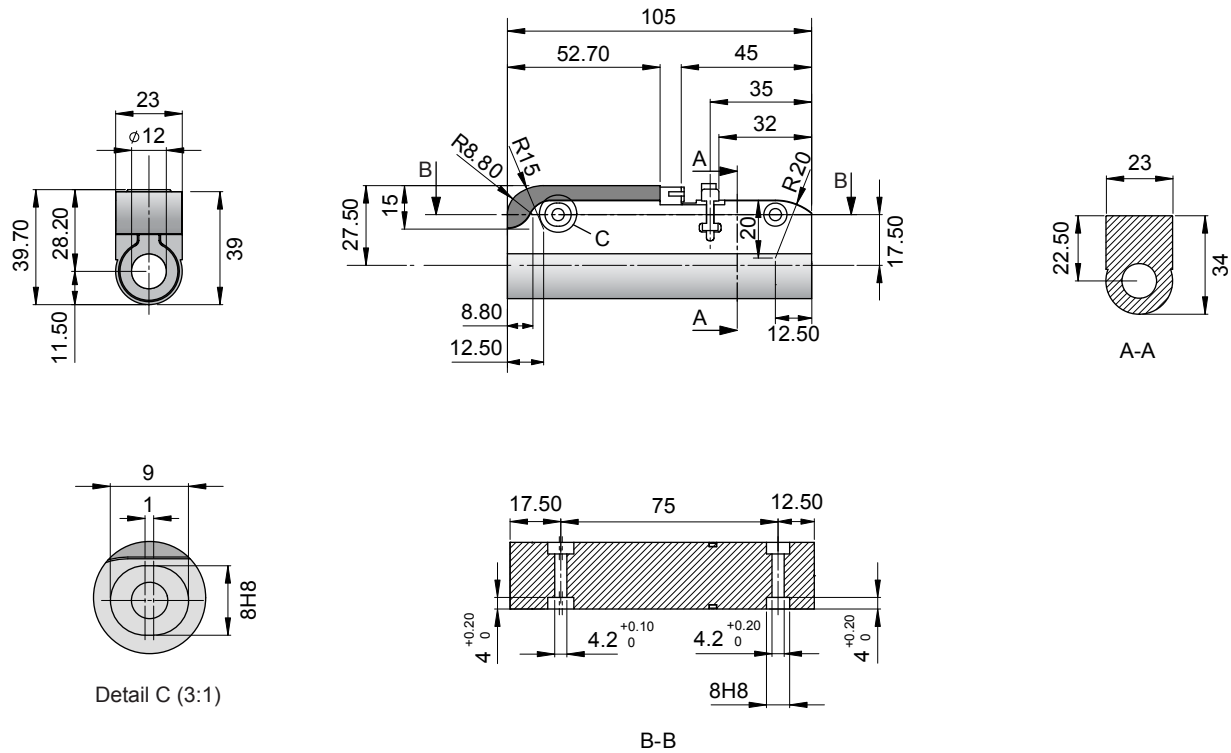
Dimensions in mm

Motor Specification

		P02-23Sx80/10x50
Extended Stroke ES	mm (in)	50 (1.97)
Standard Stroke SS	mm (in)	10 (0.39)
Peak Force E1100 / E1001	N (lbf)	39 (8.7)
Peak Force E100	N (lbf)	29 (6.5)
Cont. Force	N (lbf)	8 (1.7)
Cont. Force Fan cooling	N (lbf)	14 (3.2)
Border Force	%	71
Force Constant	N/A (lbf/A)	9.7 (2.17)
Max. Current @ 72VDC	A	4.0
Max. Current @ 48VDC	A	3.8
Max. Velocity @ 72VDC	m/s (in/s)	6.9 (270)
Max. Velocity @ 48VDC	m/s (in/s)	4.6 (180)
Phase Resist. 25/80 °C	Ohm	10.3/12.5
Phase Inductance	mH	1.4
Thermal Resistance	°K/W	7.0
Thermal Time Const.	sec	900
Stator Diameter	mm (in)	23 (0.91)
Stator Length	mm (in)	105 (4.13)
Stator Mass	g (lb)	245 (0.54)
Slider Diameter	mm (in)	12 (0.47)
Slider Length	mm (in)	130 (5.12)
Slider Mass	g (lb)	89 (0.20)
Position Repeatability	mm (in)	±0.05 (±0.0020)
Linearity	%	±0.70
Repeatability with EPS	mm (in)	±0.01 (±0.0004)
Linearity with EPS	mm (in)	±0.01 (±0.0004)

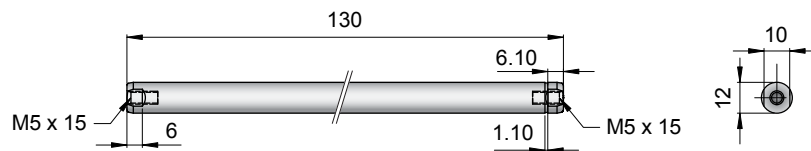
Position-Time Diagram





Linear Motor		Stator		Slider	
Type	Art.No	Type	Art. No.	Type	Art No.
P02-23Sx80/10x50	-->	PS02-23Sx80-F	0150-1272	& PL01-12x130/80	0150-1399

Slider



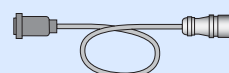
Standard Type	Slider Standard	PL01-12x130/80	0150-1399
Special Sliders	Heavy Duty Slider with WC/C-Coating	PL02-12x130/80	0150-1424
	Hollow Slider hole diameter 4.2mm	PL01-12x130/80-L	0150-1445

Connectors

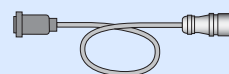
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

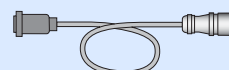
Accessoires



Standard Cable p. 510



High Flex Cable p. 510



Robotic Cable p. 510

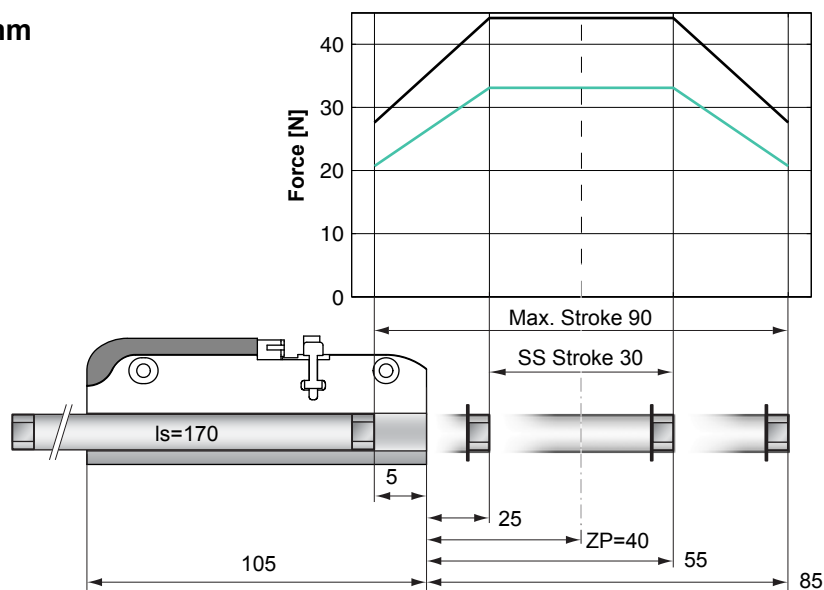


Servo Drive:
E100, E1001, E1100, B1100 p. 317



Optional Linear Encoder p. 530

Max. Stroke: 90mm
Peak Force: 44N



Standard Winding:

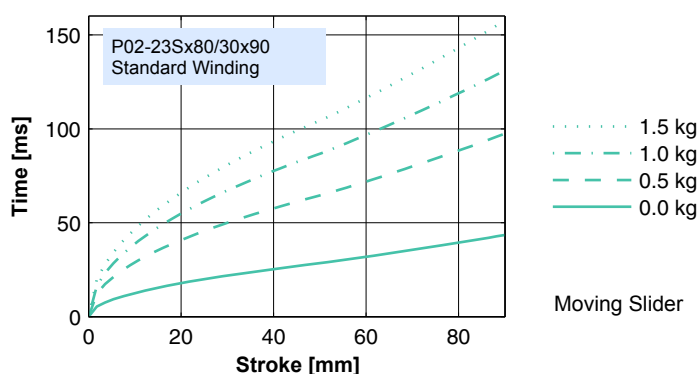
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

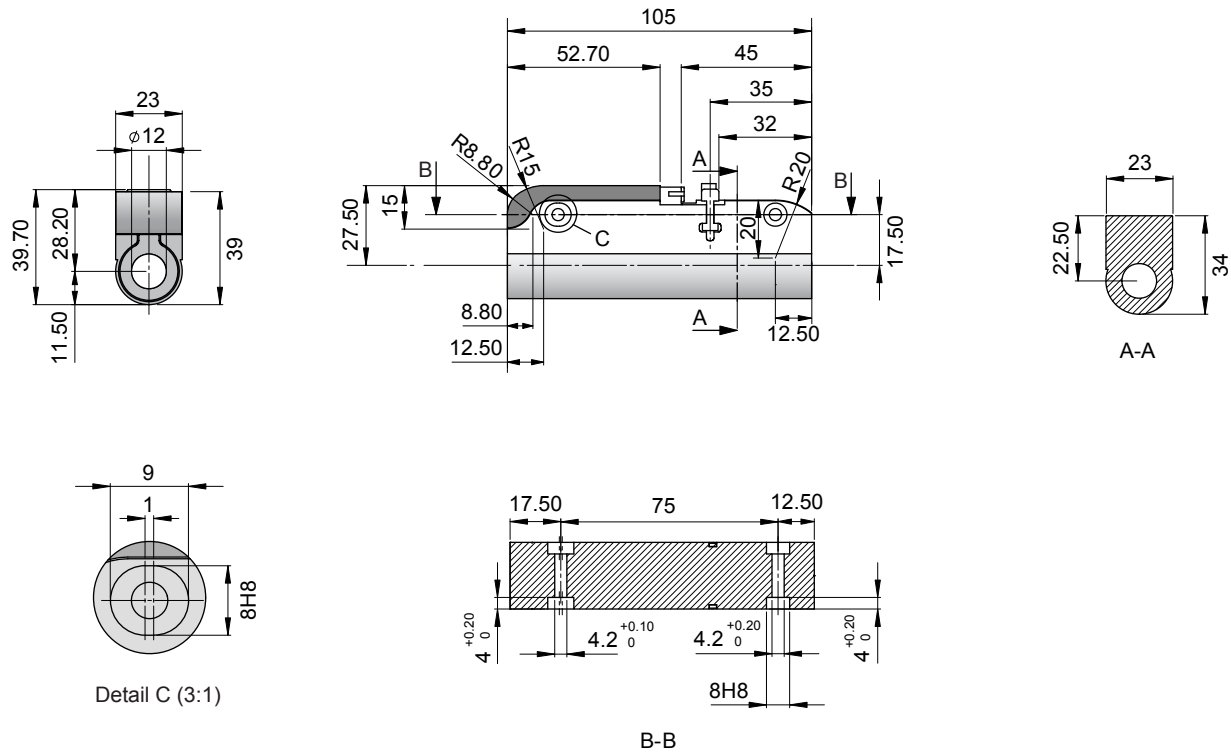
Dimensions in mm

Motor Specification

		P02-23Sx80/30x90	
Extended Stroke ES	mm (in)	90	(3.54)
Standard Stroke SS	mm (in)	30	(1.18)
Peak Force E1100 / E1001	N (lbf)	44	(9.9)
Peak Force E100	N (lbf)	33	(7.4)
Cont. Force	N (lbf)	9	(2.0)
Cont. Force Fan cooling	N (lbf)	16	(3.7)
Border Force	%	63	
Force Constant	N/A (lbf/A)	11.0	(2.48)
Max. Current @ 72VDC	A	4.0	
Max. Current @ 48VDC	A	3.8	
Max. Velocity @ 72VDC	m/s (in/s)	6.0	(236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0	(157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5	
Phase Inductance	mH	1.4	
Thermal Resistance	°K/W	7.0	
Thermal Time Const.	sec	900	
Stator Diameter	mm (in)	23	(0.91)
Stator Length	mm (in)	105	(4.13)
Stator Mass	g (lb)	245	(0.54)
Slider Diameter	mm (in)	12	(0.47)
Slider Length	mm (in)	170	(6.69)
Slider Mass	g (lb)	118	(0.26)
Position Repeatability	mm (in)	±0.05	(±0.0020)
Linearity	%	±0.45	
Repeatability with EPS	mm (in)	±0.01	(±0.0004)
Linearity with EPS	mm (in)	±0.01	(±0.0004)

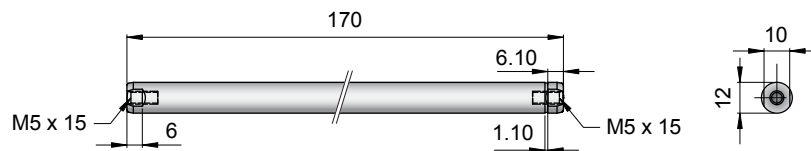
Position-Time Diagram





Linear Motor		Stator		Slider	
Type	Art.No	Type	Art. No.	Type	Art No.
P02-23Sx80/30x90	-->	PS02-23Sx80-F	0150-1272	& PL01-12x170/120	0150-1301

Slider



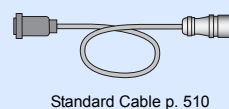
Standard Type	Slider Standard	PL01-12x170/120	0150-1301
Special Sliders	Heavy Duty Slider with WC/C-Coating	PL02-12x170/120	0150-1303
	Hollow Slider hole diameter 4.2mm	PL01-12x170/120-L	0150-1375

Connectors

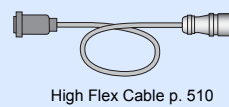
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

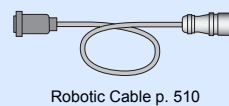
Accessoires



Standard Cable p. 510



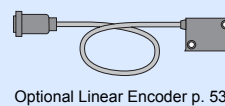
High Flex Cable p. 510



Robotic Cable p. 510

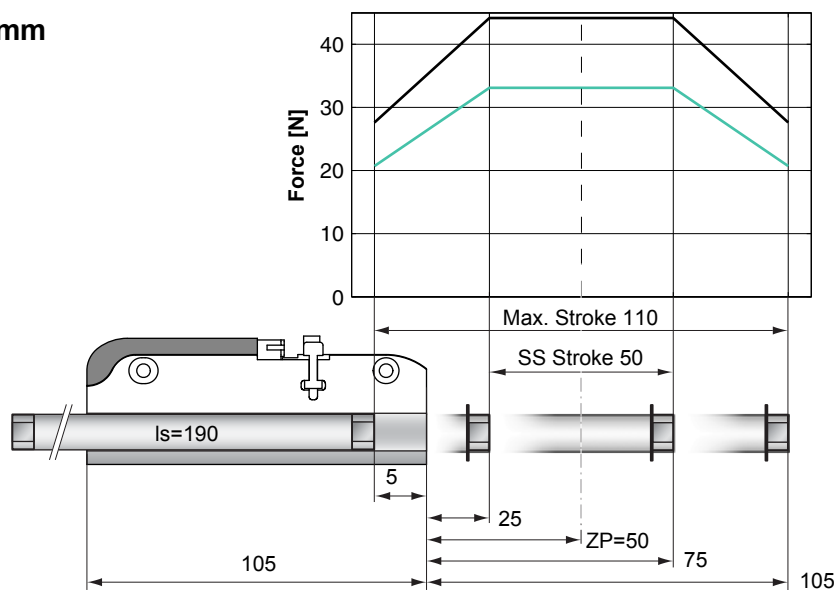


Servo Drive:
E100, E1001, E1100, B1100 p. 317



Optional Linear Encoder p. 530

Max. Stroke: 110mm
Peak Force: 44N



Standard Winding:

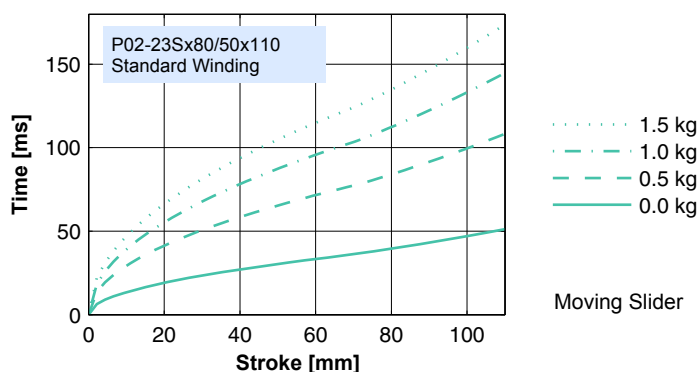
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

Dimensions in mm

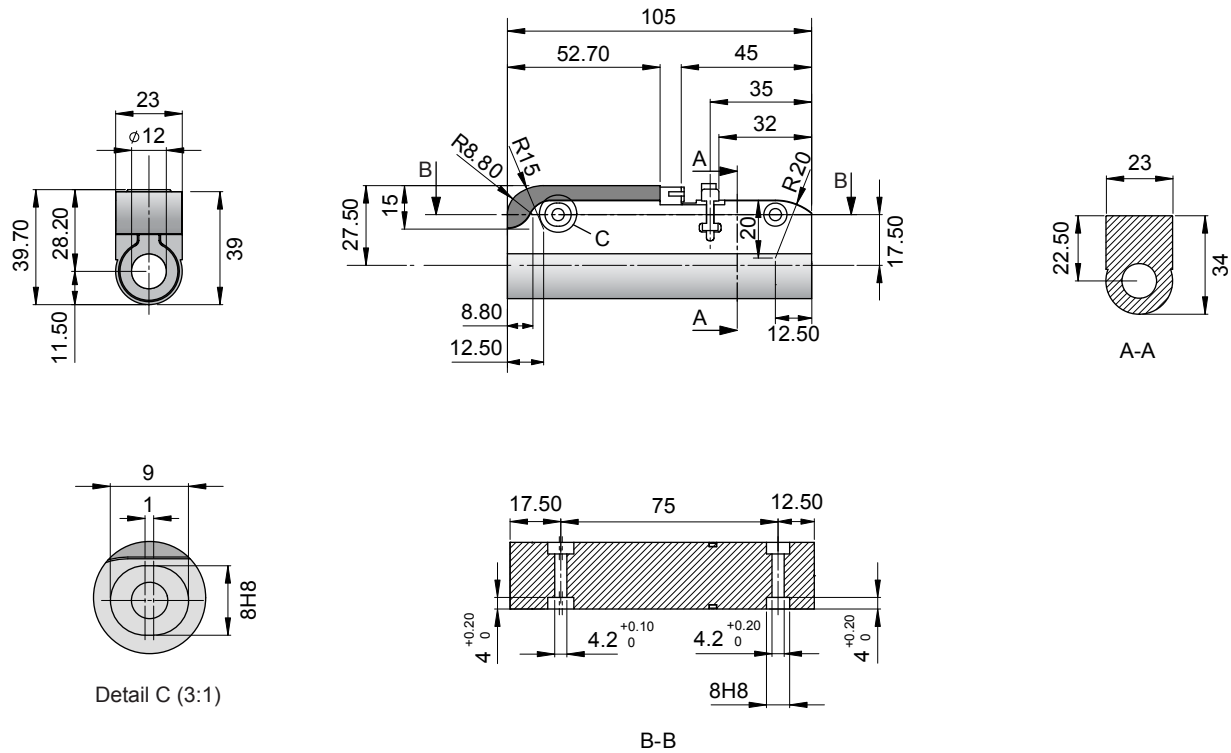
Motor Specification

		P02-23Sx80/50x110
Extended Stroke ES	mm (in)	110 (4.33)
Standard Stroke SS	mm (in)	50 (1.97)
Peak Force E1100 / E1001	N (lbf)	44 (9.9)
Peak Force E100	N (lbf)	33 (7.4)
Cont. Force	N (lbf)	9 (2.0)
Cont. Force Fan cooling	N (lbf)	16 (3.7)
Border Force	%	63
Force Constant	N/A (lbf/A)	11.0 (2.48)
Max. Current @ 72VDC	A	4.0
Max. Current @ 48VDC	A	3.8
Max. Velocity @ 72VDC	m/s (in/s)	6.0 (236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0 (157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5
Phase Inductance	mH	1.4
Thermal Resistance	°K/W	7.0
Thermal Time Const.	sec	900
Stator Diameter	mm (in)	23 (0.91)
Stator Length	mm (in)	105 (4.13)
Stator Mass	g (lb)	245 (0.54)
Slider Diameter	mm (in)	12 (0.47)
Slider Length	mm (in)	190 (7.48)
Slider Mass	g (lb)	135 (0.30)
Position Repeatability	mm (in)	±0.05 (±0.0020)
Linearity	%	±0.40
Repeatability with EPS	mm (in)	±0.01 (±0.0004)
Linearity with EPS	mm (in)	±0.01 (±0.0004)

Position-Time Diagram

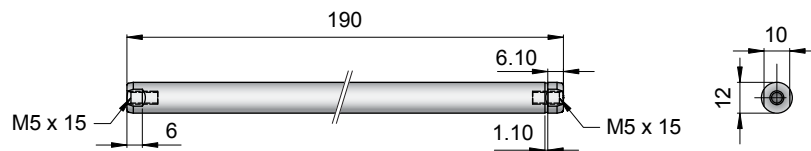


Moving Slider



Linear Motor		Stator		Slider	
Type	Art.No	Type	Art. No.	Type	Art No.
P02-23Sx80/50x110	-->	PS02-23Sx80-F	0150-1272	& PL01-12x190/140	0150-1302

Slider



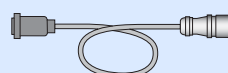
Standard Type	Slider Standard	PL01-12x190/140	0150-1302
Special Sliders	Heavy Duty Slider with WC/C-Coating	PL02-12x190/140	0150-1304
	Hollow Slider hole diameter 4.2mm	PL01-12x190/140-L	0150-1478

Connectors

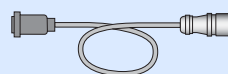
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

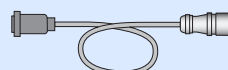
Accessoires



Standard Cable p. 510



High Flex Cable p. 510



Robotic Cable p. 510

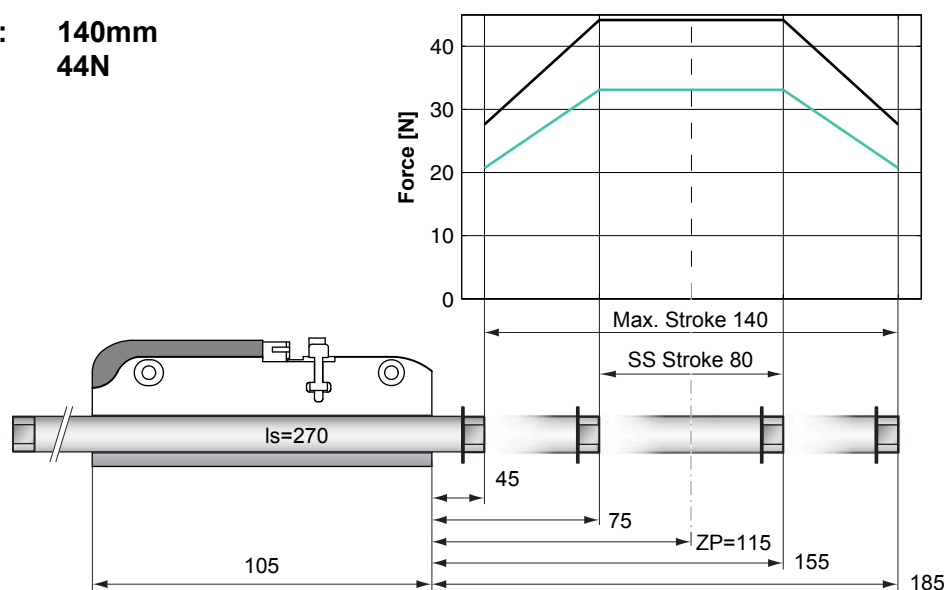


Servo Drive:
E100, E1001, E1100, B1100 p. 317



Optional Linear Encoder p. 530

Max. Stroke: 140mm
Peak Force: 44N



Standard Winding:

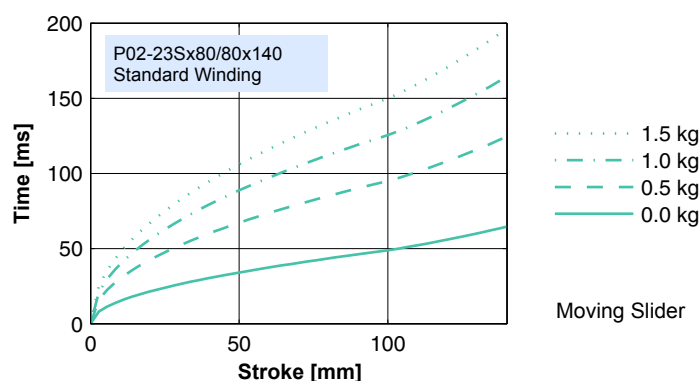
— E1100, 72VDC &
E1001, 72VDC
— E100, 48VDC

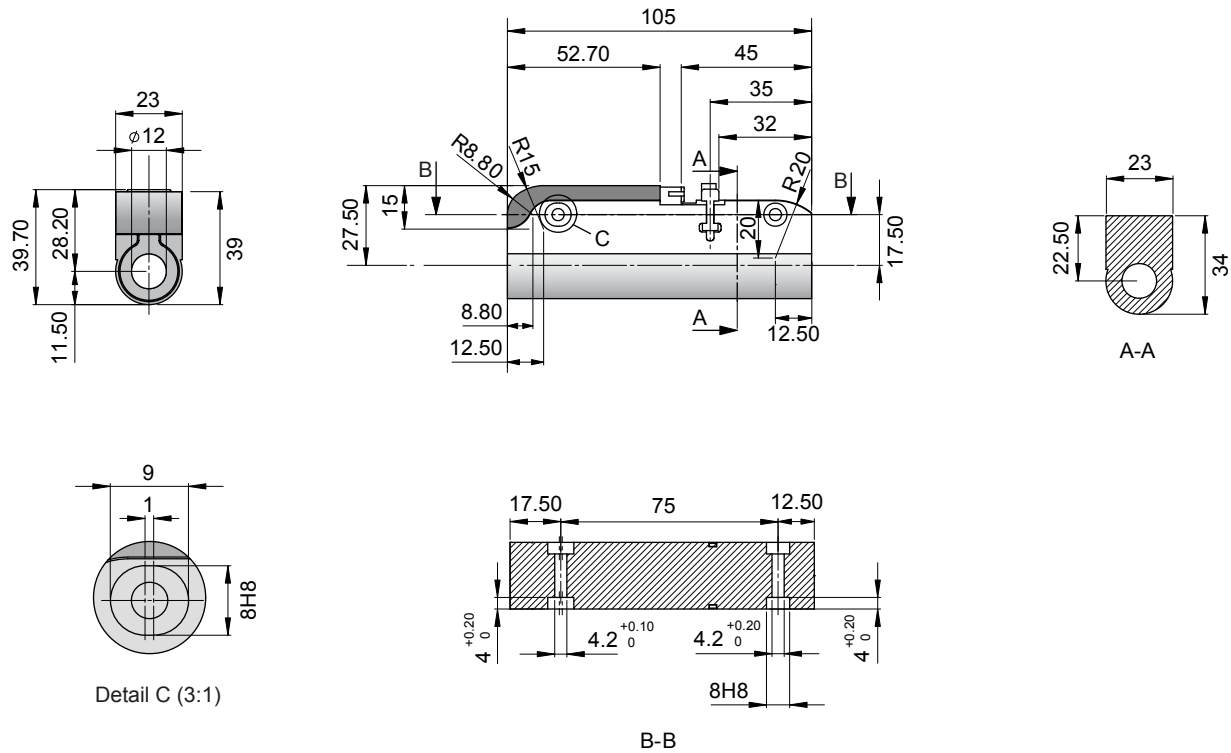
Dimensions in mm

Motor Specification

		P02-23Sx80/80x140	
Extended Stroke ES	mm (in)	140	(5.51)
Standard Stroke SS	mm (in)	80	(3.15)
Peak Force E1100 / E1001	N (lbf)	44	(9.9)
Peak Force E100	N (lbf)	33	(7.4)
Cont. Force	N (lbf)	9	(2.0)
Cont. Force Fan cooling	N (lbf)	16	(3.7)
Border Force	%	63	
Force Constant	N/A (lbf/A)	11.0	(2.48)
Max. Current @ 72VDC	A	4.0	
Max. Current @ 48VDC	A	3.8	
Max. Velocity @ 72VDC	m/s (in/s)	6.0	(236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0	(157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5	
Phase Inductance	mH	1.4	
Thermal Resistance	°K/W	7.0	
Thermal Time Const.	sec	900	
Stator Diameter	mm (in)	23	(0.91)
Stator Length	mm (in)	105	(4.13)
Stator Mass	g (lb)	245	(0.54)
Slider Diameter	mm (in)	12	(0.47)
Slider Length	mm (in)	270	(10.63)
Slider Mass	g (lb)	171	(0.38)
Position Repeatability	mm (in)	±0.05	(±0.0020)
Linearity	%	±0.35	
Repeatability with EPS	mm (in)	±0.01	(±0.0004)
Linearity with EPS	mm (in)	±0.01	(±0.0004)

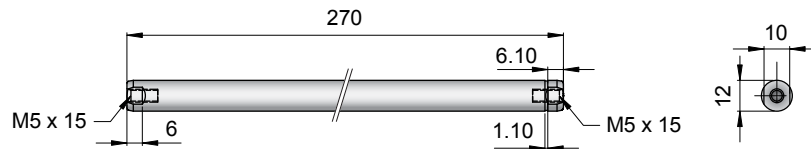
Position-Time Diagram





Linear Motor		Stator		Slider	
Type	Art.No	Type	Art. No.	Type	Art No.
P02-23Sx80/80x140	-->	PS02-23Sx80-F	0150-1272	& PL01-12x270/170	0150-1307

Slider



Standard Type		Slider Standard		PL01-12x270/170	
Special Sliders		Heavy Duty Slider with WC/C-Coating		PL02-12x270/170	
		Hollow Slider hole diameter 4.2mm		PL01-12x270/170-L	
				0150-1307	
				0150-1310	
				0150-1393	

Connectors

Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

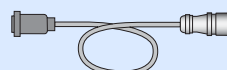
Accessoires



Standard Cable p. 510



High Flex Cable p. 510



Robotic Cable p. 510

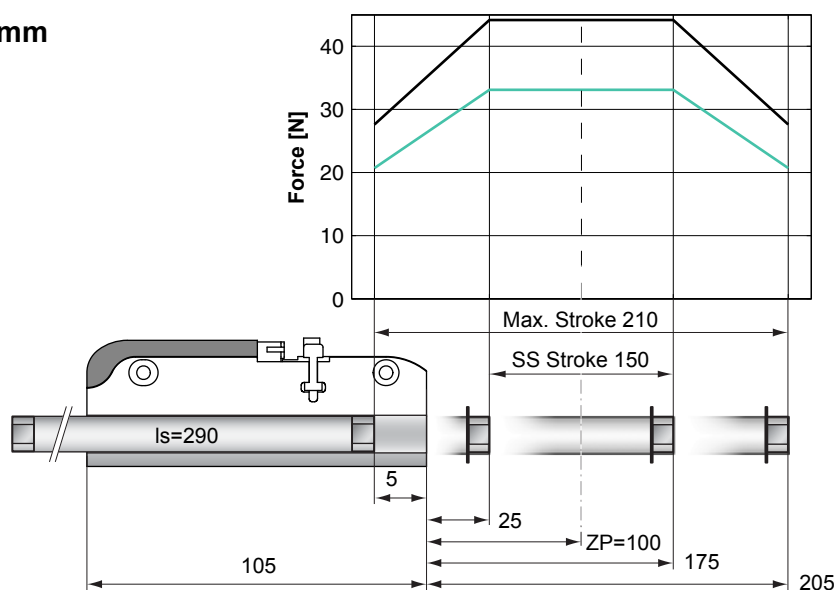


Servo Drive:
E100, E1001, E1100, B1100 p. 317



Optional Linear Encoder p. 530

Max. Stroke: 210mm
Peak Force: 44N



Standard Winding:

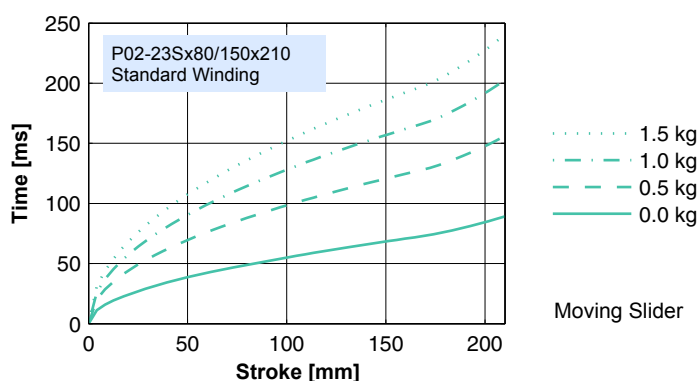
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

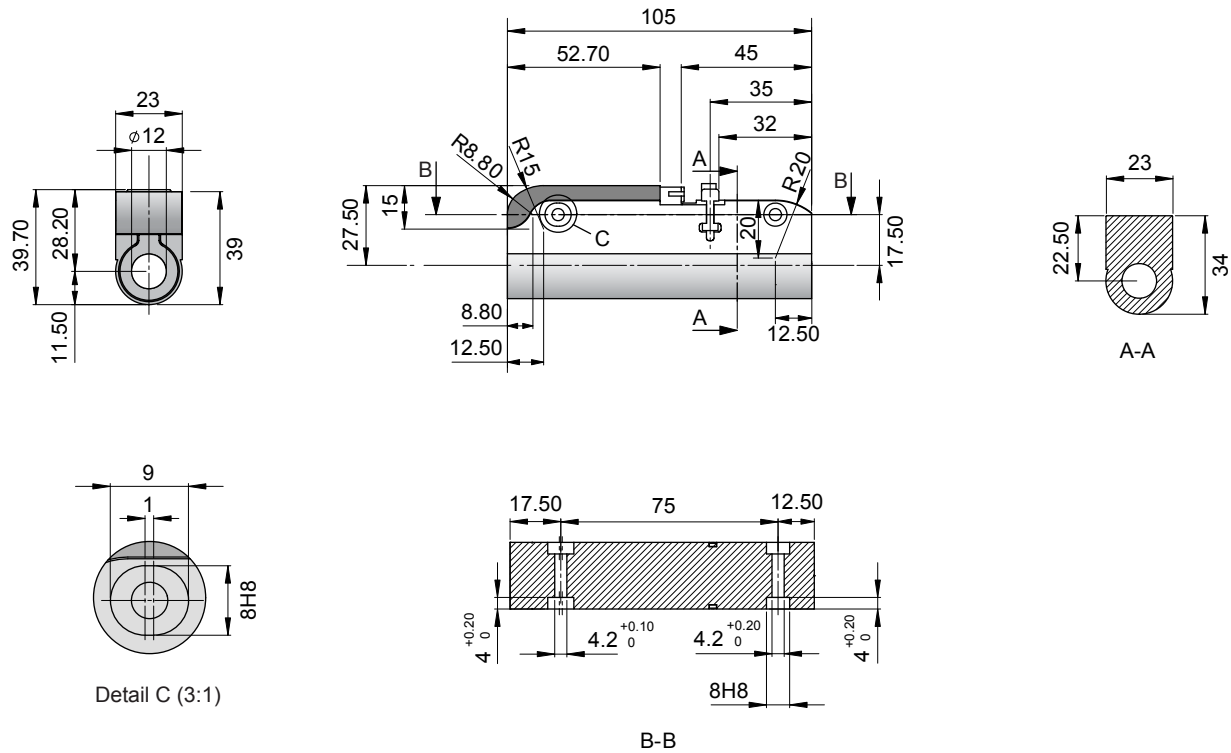
Dimensions in mm

Motor Specification

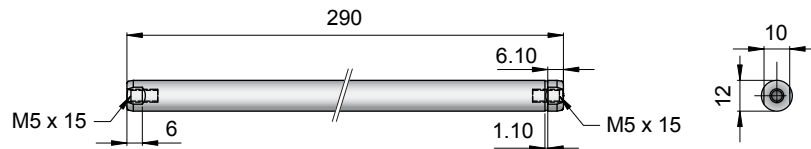
		P02-23Sx80/150x210
Extended Stroke ES	mm (in)	210 (8.27)
Standard Stroke SS	mm (in)	150 (5.91)
Peak Force E1100 / E1001	N (lbf)	44 (9.9)
Peak Force E100	N (lbf)	33 (7.4)
Cont. Force	N (lbf)	9 (2.0)
Cont. Force Fan cooling	N (lbf)	16 (3.7)
Border Force	%	63
Force Constant	N/A (lbf/A)	11.0 (2.48)
Max. Current @ 72VDC	A	4.0
Max. Current @ 48VDC	A	3.8
Max. Velocity @ 72VDC	m/s (in/s)	6.0 (236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0 (157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5
Phase Inductance	mH	1.4
Thermal Resistance	°K/W	7.0
Thermal Time Const.	sec	900
Stator Diameter	mm (in)	23 (0.91)
Stator Length	mm (in)	105 (4.13)
Stator Mass	g (lb)	245 (0.54)
Slider Diameter	mm (in)	12 (0.47)
Slider Length	mm (in)	290 (11.42)
Slider Mass	g (lb)	220 (0.49)
Position Repeatability	mm (in)	±0.05 (±0.0020)
Linearity	%	±0.30
Repeatability with EPS	mm (in)	±0.01 (±0.0004)
Linearity with EPS	mm (in)	±0.01 (±0.0004)

Position-Time Diagram





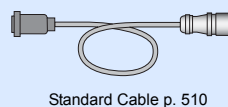
Linear Motor		Stator		Slider	
Type	Art.No	Type	Art. No.	Type	Art No.
P02-23Sx80/150x210	-->	PS02-23Sx80-F	0150-1272	& PL01-12x290/240	0150-1320



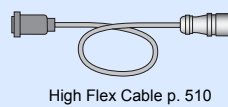
Standard Type	Slider Standard	PL01-12x290/240	0150-1320
Special Sliders	Heavy Duty Slider with WC/C-Coating	PL02-12x290/240	0150-1321
	Hollow Slider hole diameter 4.2mm	PL01-12x290/240-L	0150-1363

Motor connector Wiring

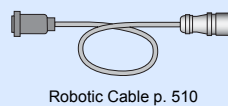
Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+



Standard Cable p. 510



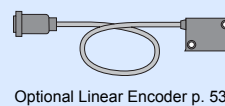
High Flex Cable p. 510



Robotic Cable p. 510

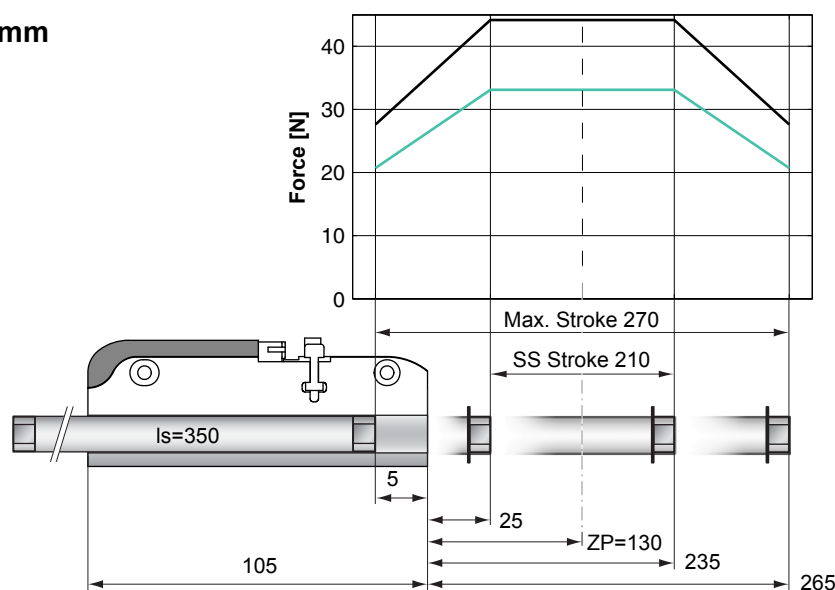


Servo Drive:
E100, E1001, E1100, B1100 p. 317



Optional Linear Encoder p. 530

Max. Stroke: 270mm
Peak Force: 44N



Standard Winding:

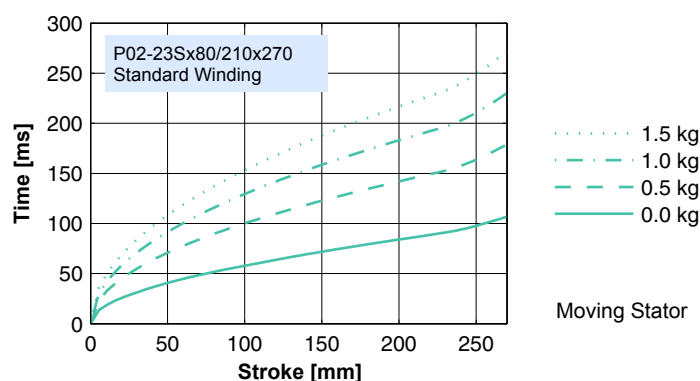
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

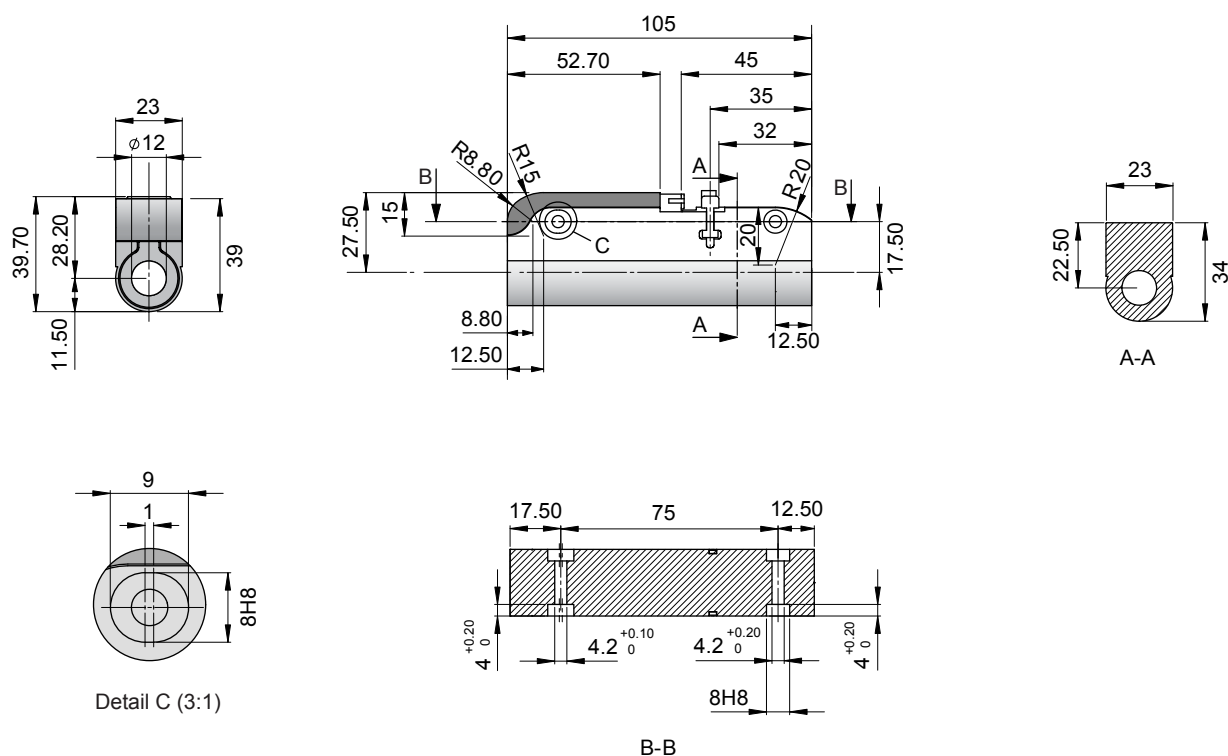
Dimensions in mm

Motor Specification

		P02-23Sx80/210x270
Extended Stroke ES	mm (in)	270 (10.63)
Standard Stroke SS	mm (in)	210 (8.27)
Peak Force E1100 / E1001	N (lbf)	44 (9.9)
Peak Force E100	N (lbf)	33 (7.4)
Cont. Force	N (lbf)	9 (2.0)
Cont. Force Fan cooling	N (lbf)	16 (3.7)
Border Force	%	63
Force Constant	N/A (lbf/A)	11.0 (2.48)
Max. Current @ 72VDC	A	4.0
Max. Current @ 48VDC	A	3.8
Max. Velocity @ 72VDC	m/s (in/s)	6.0 (236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0 (157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5
Phase Inductance	mH	1.4
Thermal Resistance	°K/W	7.0
Thermal Time Const.	sec	900
Stator Diameter	mm (in)	23 (0.91)
Stator Length	mm (in)	105 (4.13)
Stator Mass	g (lb)	245 (0.54)
Slider Diameter	mm (in)	12 (0.47)
Slider Length	mm (in)	350 (13.78)
Slider Mass	g (lb)	271 (0.60)
Position Repeatability	mm (in)	±0.05 (±0.0020)
Linearity	%	±0.25
Repeatability with EPS	mm (in)	±0.01 (±0.0004)
Linearity with EPS	mm (in)	±0.01 (±0.0004)

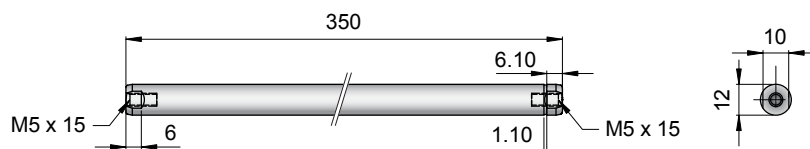
Position-Time Diagram





Linear Motor		Stator			Slider	
Type	Art.No	Type	Art. No.		Type	Art No.
P02-23Sx80/210x270	-->	PS02-23Sx80-F	0150-1272	&	PL01-12x350/300	0150-1322

Slider



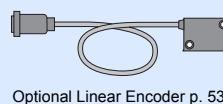
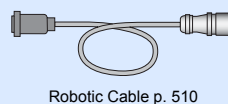
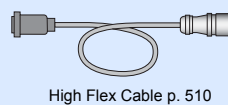
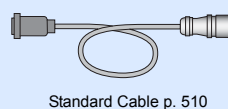
Standard Type	Slider Standard		PL01-12x350/300	0150-1322
Special Sliders	Heavy Duty Slider	with WC/C-Coating	PL02-12x350/300	0150-1323
	Hollow Slider	hole diameter 4.2mm	PL01-12x350/300-L	0150-1479

Connectors

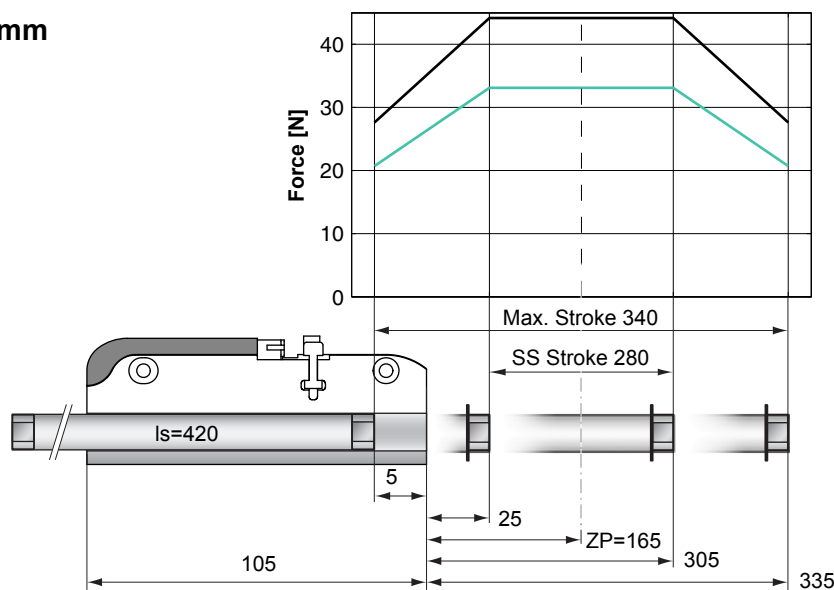
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

Accessoires



Max. Stroke: 340mm
Peak Force: 44N



Standard Winding:

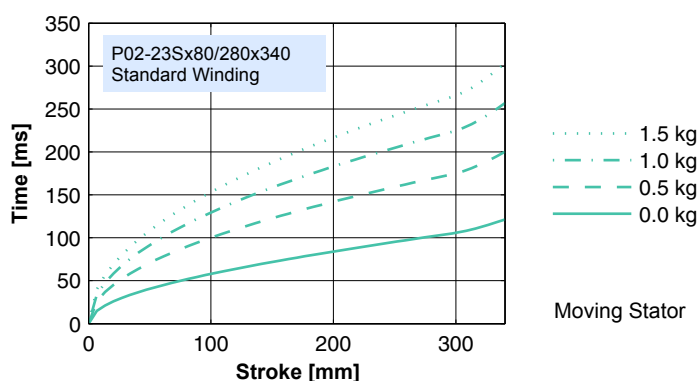
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

Dimensions in mm

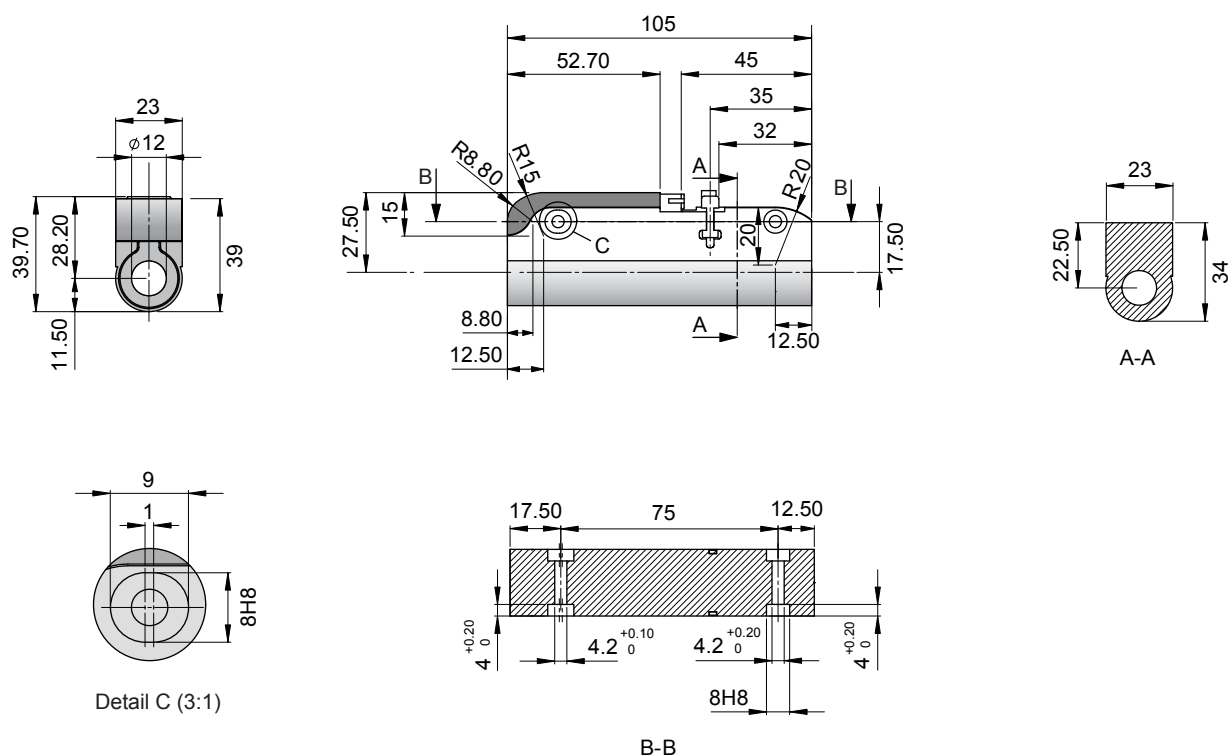
Motor Specification

		P02-23Sx80/280x340	
Extended Stroke ES	mm (in)	340	(13.39)
Standard Stroke SS	mm (in)	280	(11.02)
Peak Force E1100 / E1001	N (lbf)	44	(9.9)
Peak Force E100	N (lbf)	33	(7.4)
Cont. Force	N (lbf)	9	(2.0)
Cont. Force Fan cooling	N (lbf)	16	(3.7)
Border Force	%	63	
Force Constant	N/A (lbf/A)	11.0	(2.48)
Max. Current @ 72VDC	A	4.0	
Max. Current @ 48VDC	A	3.8	
Max. Velocity @ 72VDC	m/s (in/s)	6.0	(236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0	(157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5	
Phase Inductance	mH	1.4	
Thermal Resistance	°K/W	7.0	
Thermal Time Const.	sec	900	
Stator Diameter	mm (in)	23	(0.91)
Stator Length	mm (in)	105	(4.13)
Stator Mass	g (lb)	245	(0.54)
Slider Diameter	mm (in)	12	(0.47)
Slider Length	mm (in)	420	(16.54)
Slider Mass	g (lb)	330	(0.73)
Position Repeatability	mm (in)	±0.05	(±0.0020)
Linearity	%	±0.25	
Repeatability with EPS	mm (in)	±0.01	(±0.0004)
Linearity with EPS	mm (in)	±0.01	(±0.0004)

Position-Time Diagram

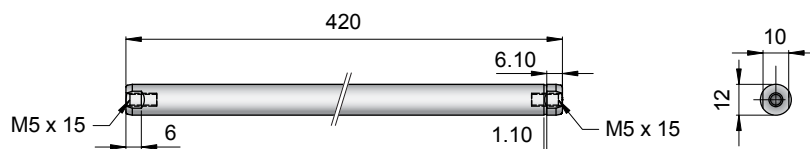


Moving Stator



Linear Motor		Stator			Slider	
Type	Art.No	Type	Art. No.		Type	Art. No.
P02-23Sx80/280x340	-->	PS02-23Sx80-F	0150-1272	&	PL01-12x420/370	0150-1324

Slider



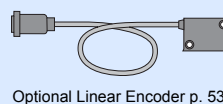
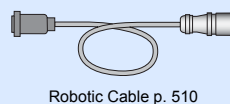
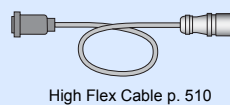
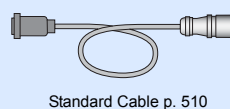
Standard Type	Slider Standard		PL01-12x420/370	0150-1324
Special Sliders	Heavy Duty Slider	with WC/C-Coating	PL02-12x420/370	0150-1325
	Hollow Slider	hole diameter 4.2mm	PL01-12x420/370-L	0150-1394

Connectors

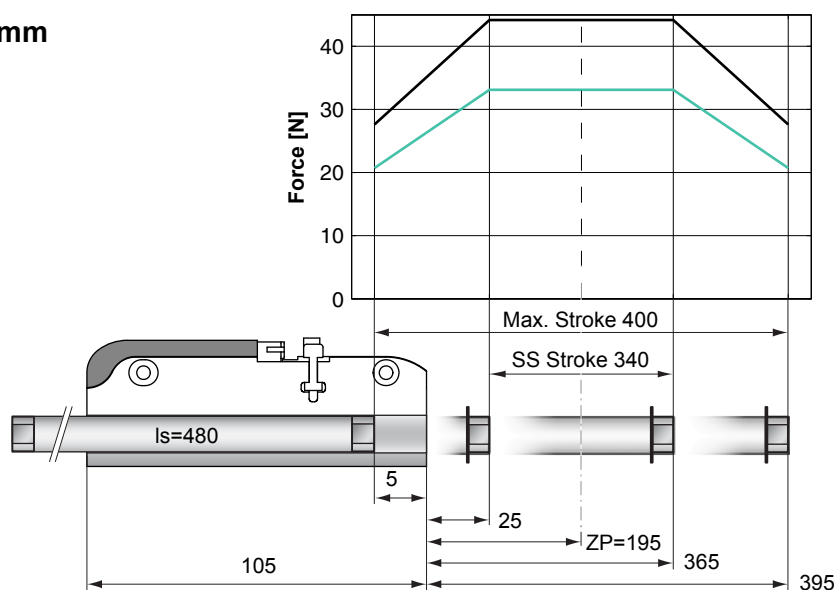
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

Accessoires



Max. Stroke: 400mm
Peak Force: 44N



Standard Winding:

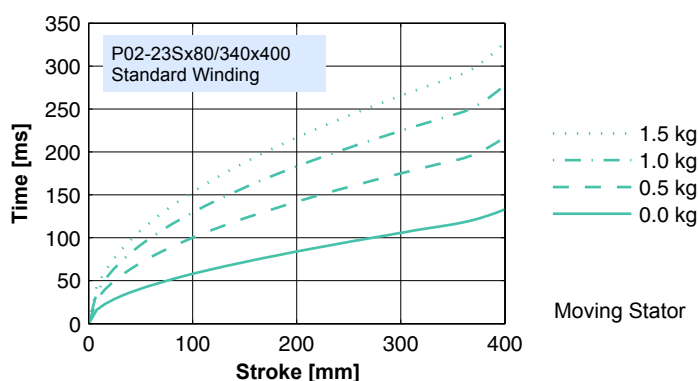
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

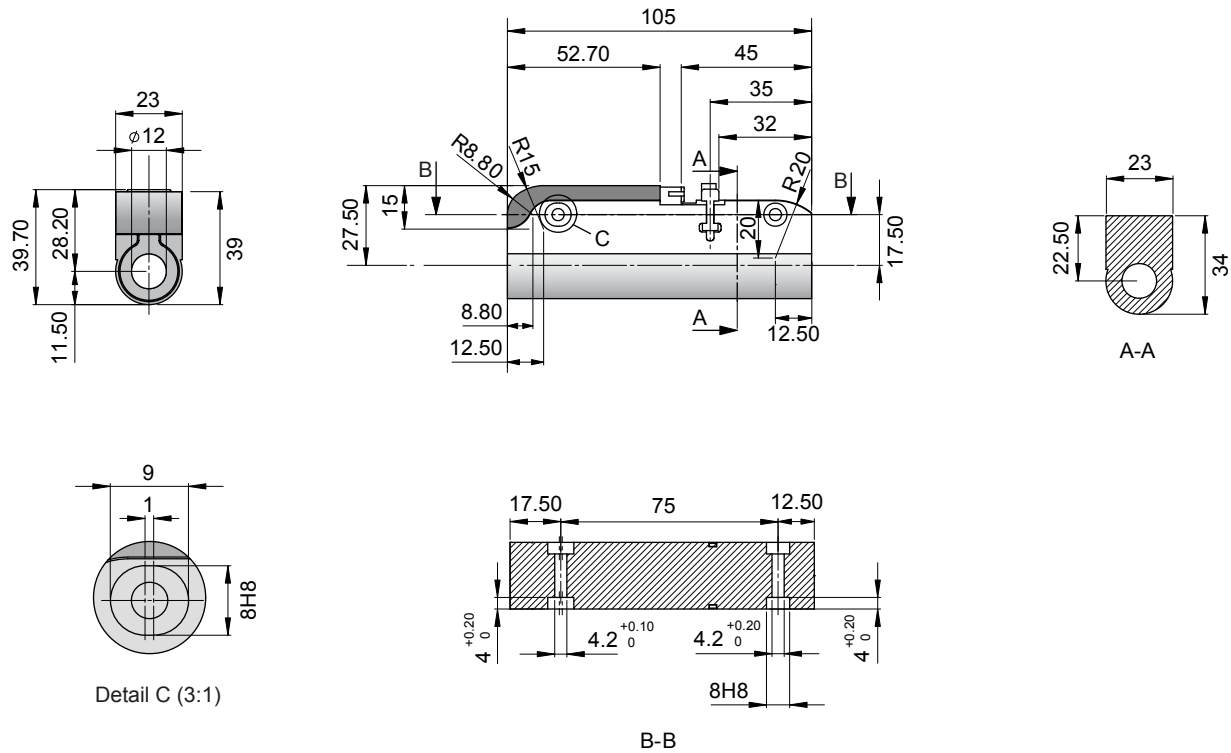
Dimensions in mm

Motor Specification

		P02-23Sx80/340x400	
Extended Stroke ES	mm (in)	400	(15.75)
Standard Stroke SS	mm (in)	340	(13.39)
Peak Force E1100 / E1001	N (lbf)	44	(9.9)
Peak Force E100	N (lbf)	33	(7.4)
Cont. Force	N (lbf)	9	(2.0)
Cont. Force Fan cooling	N (lbf)	16	(3.7)
Border Force	%	63	
Force Constant	N/A (lbf/A)	11.0	(2.48)
Max. Current @ 72VDC	A	4.0	
Max. Current @ 48VDC	A	3.8	
Max. Velocity @ 72VDC	m/s (in/s)	6.0	(236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0	(157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5	
Phase Inductance	mH	1.4	
Thermal Resistance	°K/W	7.0	
Thermal Time Const.	sec	900	
Stator Diameter	mm (in)	23	(0.91)
Stator Length	mm (in)	105	(4.13)
Stator Mass	g (lb)	245	(0.54)
Slider Diameter	mm (in)	12	(0.47)
Slider Length	mm (in)	480	(18.90)
Slider Mass	g (lb)	380	(0.84)
Position Repeatability	mm (in)	±0.05	(±0.0020)
Linearity	%	±0.25	
Repeatability with EPS	mm (in)	±0.01	(±0.0004)
Linearity with EPS	mm (in)	±0.01	(±0.0004)

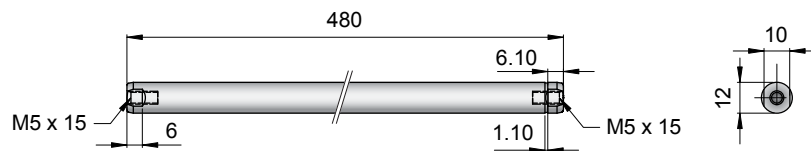
Position-Time Diagram





Linear Motor		Stator		Slider	
Type	Art.No	Type	Art. No.	Type	Art No.
P02-23Sx80/340x400	-->	PS02-23Sx80-F	0150-1272	& PL01-12x480/430	0150-1372

Slider



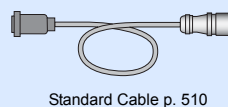
Standard Type	Slider Standard	PL01-12x480/430	0150-1372
Special Sliders	Heavy Duty Slider with WC/C-Coating	PL02-12x480/430	0150-1373
	Hollow Slider hole diameter 4.2mm	PL01-12x480/430-L	on request

Connectors

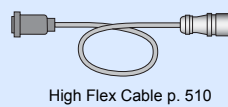
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

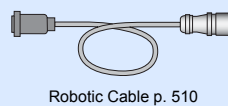
Accessoires



Standard Cable p. 510



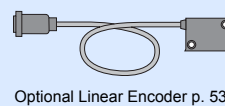
High Flex Cable p. 510



Robotic Cable p. 510

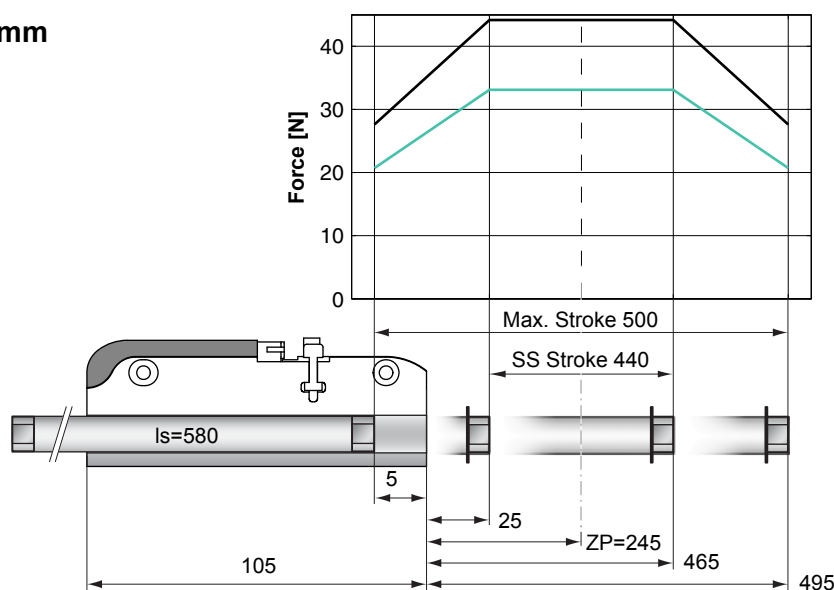


Servo Drive:
E100, E1001, E1100, B1100 p. 317



Optional Linear Encoder p. 530

Max. Stroke: 500mm
Peak Force: 44N



Standard Winding:

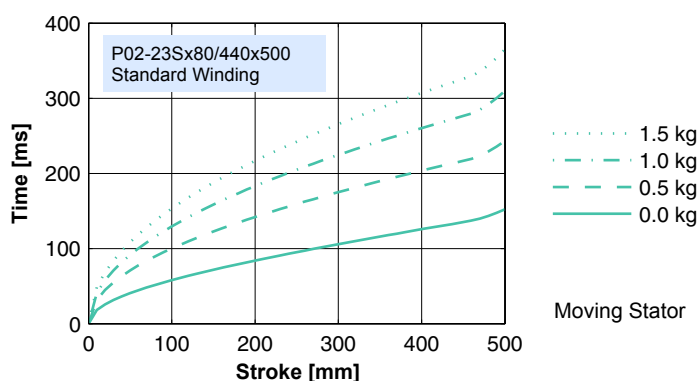
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

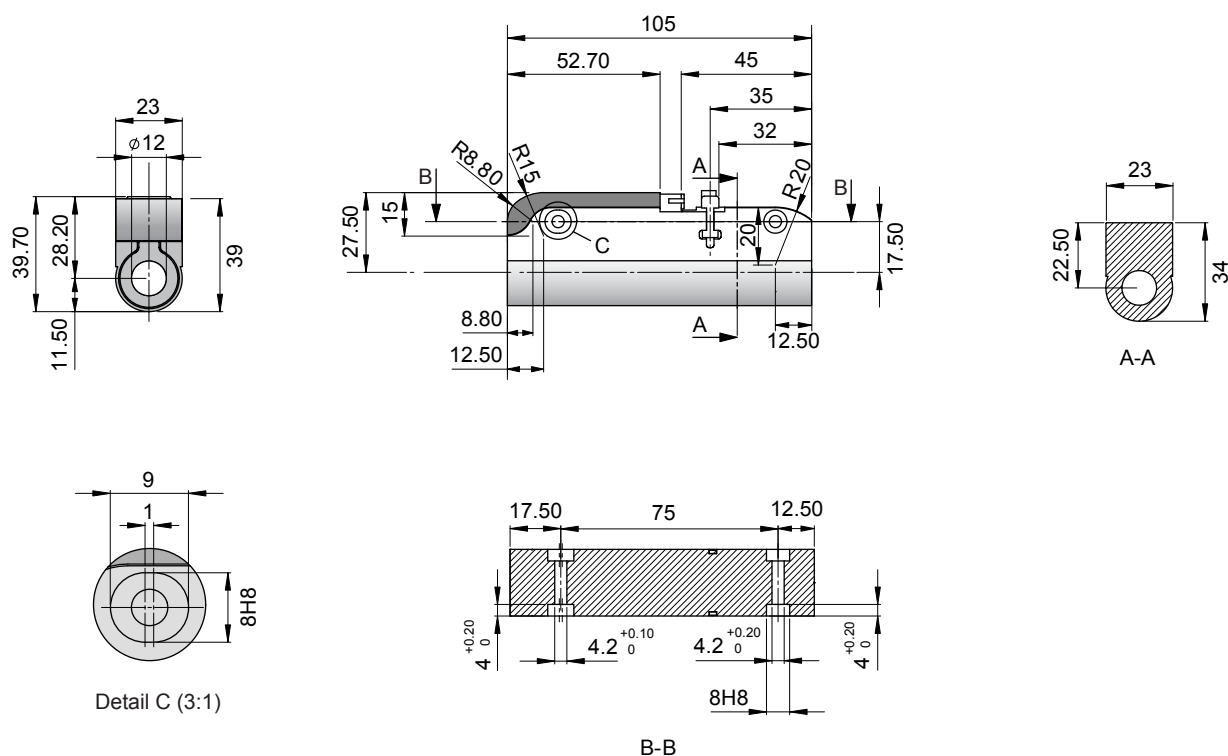
Dimensions in mm

Motor Specification

		P02-23Sx80/440x500	
Extended Stroke ES	mm (in)	500	(19.69)
Standard Stroke SS	mm (in)	440	(17.32)
Peak Force E1100 / E1001	N (lbf)	44	(9.9)
Peak Force E100	N (lbf)	33	(7.4)
Cont. Force	N (lbf)	9	(2.0)
Cont. Force Fan cooling	N (lbf)	16	(3.7)
Border Force	%	63	
Force Constant	N/A (lbf/A)	11.0	(2.48)
Max. Current @ 72VDC	A	4.0	
Max. Current @ 48VDC	A	3.8	
Max. Velocity @ 72VDC	m/s (in/s)	6.0	(236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0	(157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5	
Phase Inductance	mH	1.4	
Thermal Resistance	°K/W	7.0	
Thermal Time Const.	sec	900	
Stator Diameter	mm (in)	23	(0.91)
Stator Length	mm (in)	105	(4.13)
Stator Mass	g (lb)	245	(0.54)
Slider Diameter	mm (in)	12	(0.47)
Slider Length	mm (in)	580	(22.83)
Slider Mass	g (lb)	465	(1.03)
Position Repeatability	mm (in)	±0.05	(±0.0020)
Linearity	%	±0.20	
Repeatability with EPS	mm (in)	±0.01	(±0.0004)
Linearity with EPS	mm (in)	±0.01	(±0.0004)

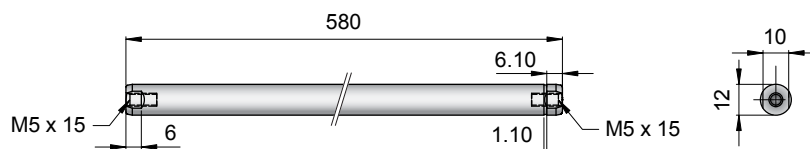
Position-Time Diagram





Linear Motor		Stator			Slider	
Type	Art.No	Type	Art. No.		Type	Art. No.
P02-23Sx80/440x500	-->	PS02-23Sx80-F	0150-1272	&	PL01-12x580/530	0150-1355

Slider



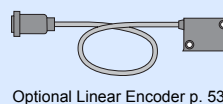
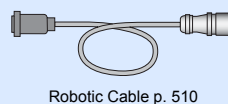
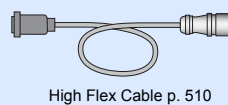
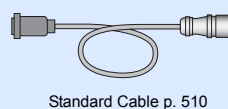
Standard Type	Slider Standard		PL01-12x580/530	0150-1355
Special Sliders	Heavy Duty Slider	with WC/C-Coating	PL02-12x580/530	0150-1356
	Hollow Slider	hole diameter 4.2mm	PL01-12x580/530-L	0150-1391

Connectors

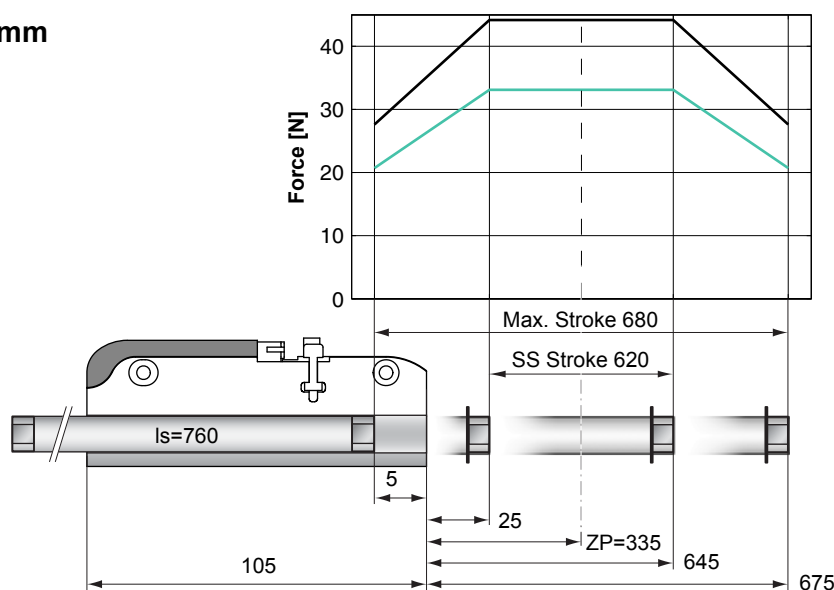
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

Accessoires



Max. Stroke: 680mm
Peak Force: 44N



Standard Winding:

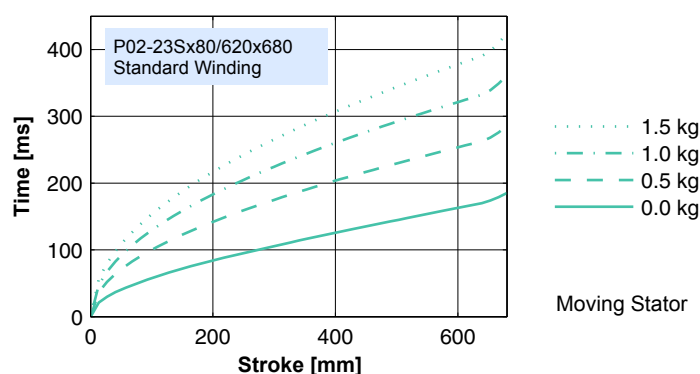
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

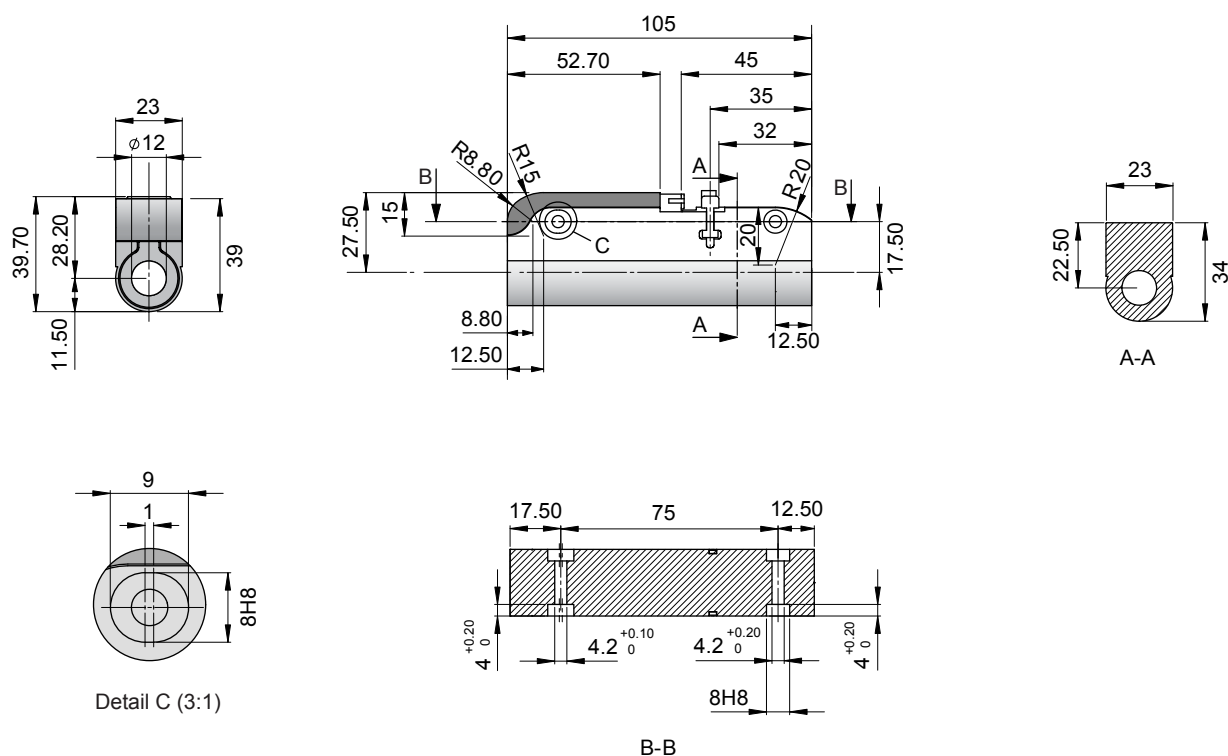
Dimensions in mm

Motor Specification

		P02-23Sx80/620x680	
Extended Stroke ES	mm (in)	680	(26.77)
Standard Stroke SS	mm (in)	620	(24.41)
Peak Force E1100 / E1001	N (lbf)	44	(9.9)
Peak Force E100	N (lbf)	33	(7.4)
Cont. Force	N (lbf)	9	(2.0)
Cont. Force Fan cooling	N (lbf)	16	(3.7)
Border Force	%	63	
Force Constant	N/A (lbf/A)	11.0	(2.48)
Max. Current @ 72VDC	A	4.0	
Max. Current @ 48VDC	A	3.8	
Max. Velocity @ 72VDC	m/s (in/s)	6.0	(236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0	(157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5	
Phase Inductance	mH	1.4	
Thermal Resistance	°K/W	7.0	
Thermal Time Const.	sec	900	
Stator Diameter	mm (in)	23	(0.91)
Stator Length	mm (in)	105	(4.13)
Stator Mass	g (lb)	245	(0.54)
Slider Diameter	mm (in)	12	(0.47)
Slider Length	mm (in)	760	(29.92)
Slider Mass	g (lb)	615	(1.36)
Position Repeatability	mm (in)	±0.05	(±0.0020)
Linearity	%	±0.20	
Repeatability with EPS	mm (in)	±0.01	(±0.0004)
Linearity with EPS	mm (in)	±0.01	(±0.0004)

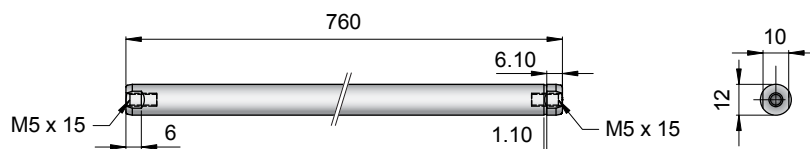
Position-Time Diagram





Linear Motor		Stator			Slider	
Type	Art.No	Type	Art. No.		Type	Art No.
P02-23Sx80/620x680	-->	PS02-23Sx80-F	0150-1272	&	PL01-12x760/710	0150-1366

Slider



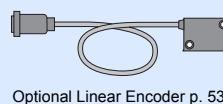
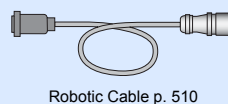
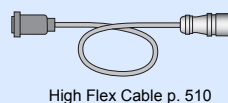
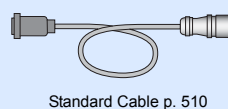
Standard Type	Slider Standard		PL01-12x760/710	0150-1366
Special Sliders	Heavy Duty Slider	with WC/C-Coating	PL02-12x760/710	on request
	Hollow Slider	hole diameter 4.2mm	PL01-12x760/710-L	0150-1392

Connectors

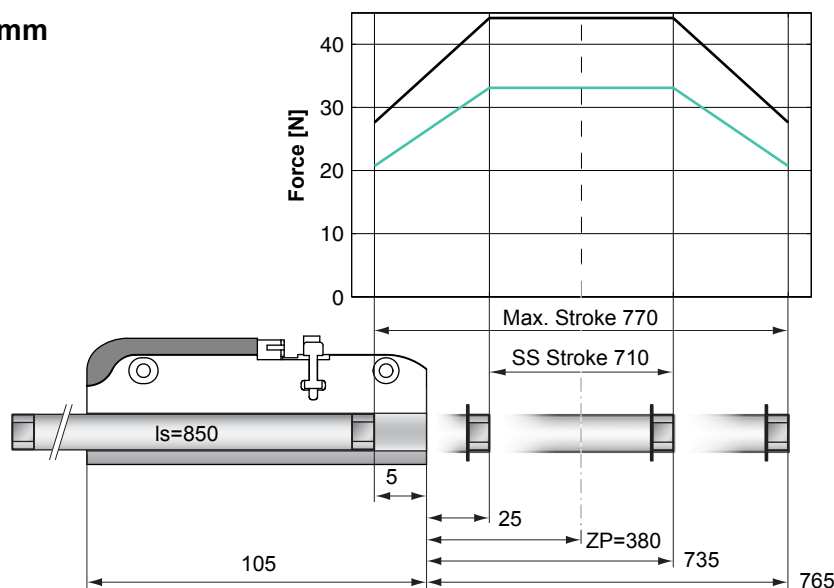
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

Accessoires



Max. Stroke: 770mm
Peak Force: 44N



Standard Winding:

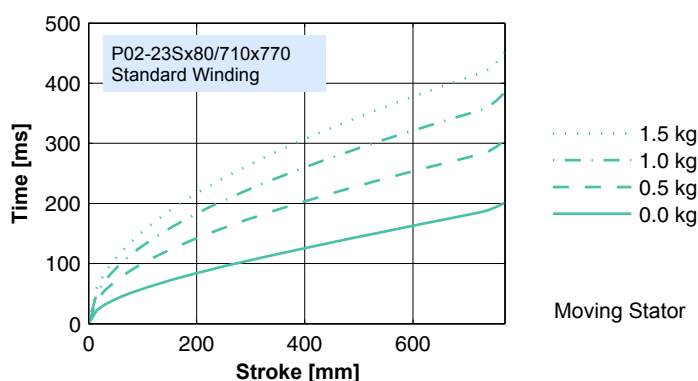
— E1100, 72VDC &
 E1001, 72VDC
 — E100, 48VDC

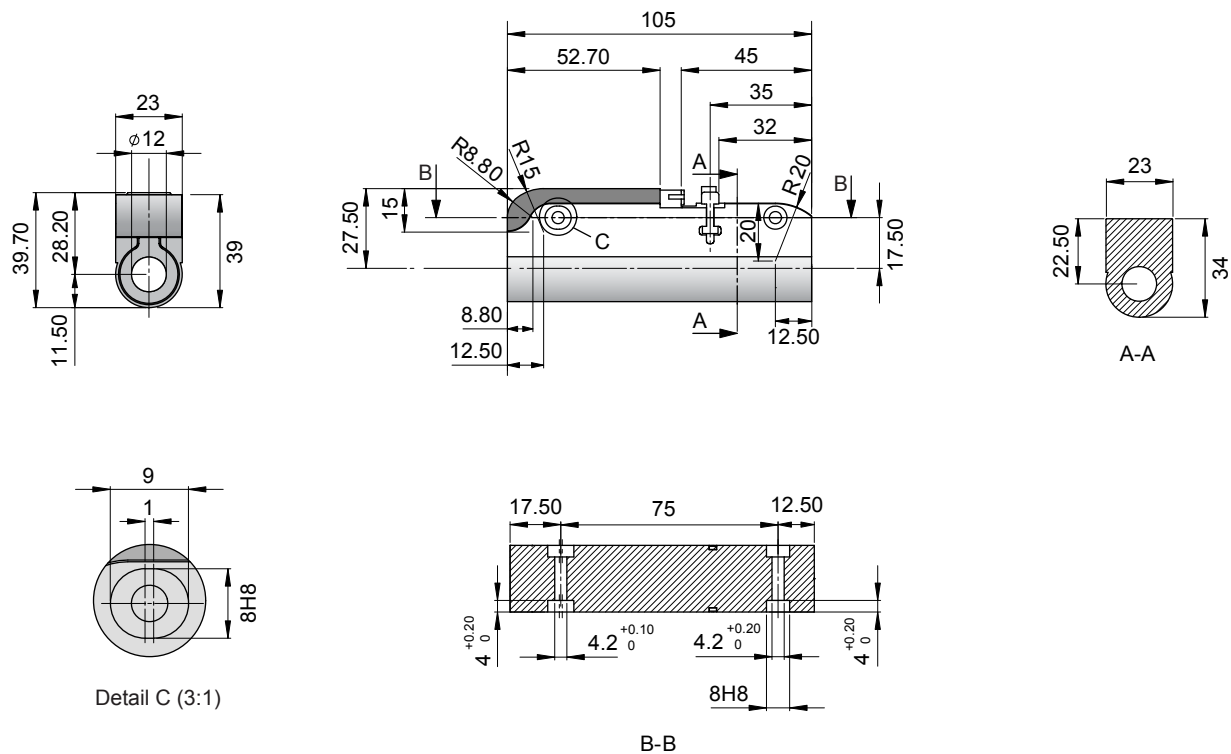
Dimensions in mm

Motor Specification

		P02-23Sx80/710x770	
Extended Stroke ES	mm (in)	770	(30.31)
Standard Stroke SS	mm (in)	710	(27.95)
Peak Force E1100 / E1001	N (lbf)	44	(9.9)
Peak Force E100	N (lbf)	33	(7.4)
Cont. Force	N (lbf)	9	(2.0)
Cont. Force Fan cooling	N (lbf)	16	(3.7)
Border Force	%	63	
Force Constant	N/A (lbf/A)	11.0	(2.48)
Max. Current @ 72VDC	A	4.0	
Max. Current @ 48VDC	A	3.8	
Max. Velocity @ 72VDC	m/s (in/s)	6.0	(236)
Max. Velocity @ 48VDC	m/s (in/s)	4.0	(157)
Phase Resist. 25/80 °C	Ohm	10.3/12.5	
Phase Inductance	mH	1.4	
Thermal Resistance	°K/W	7.0	
Thermal Time Const.	sec	900	
Stator Diameter	mm (in)	23	(0.91)
Stator Length	mm (in)	105	(4.13)
Stator Mass	g (lb)	245	(0.54)
Slider Diameter	mm (in)	12	(0.47)
Slider Length	mm (in)	850	(33.46)
Slider Mass	g (lb)	690	(1.52)
Position Repeatability	mm (in)	±0.05	(±0.0020)
Linearity	%	±0.20	
Repeatability with EPS	mm (in)	±0.01	(±0.0004)
Linearity with EPS	mm (in)	±0.01	(±0.0004)

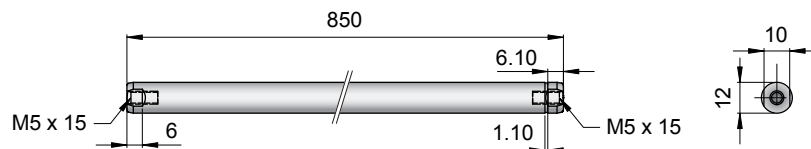
Position-Time Diagram





Linear Motor		Stator		Slider	
Type	Art.No	Type	Art. No.	Type	Art No.
P02-23Sx80/710x770	-->	PS02-23Sx80-F	0150-1272	& PL01-12x850/800	0150-1365

Slider



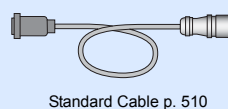
Standard Type	Slider Standard	PL01-12x850/800	0150-1365
Special Sliders	Heavy Duty Slider with WC/C-Coating	PL02-12x850/800	on request
	Hollow Slider hole diameter 4.2mm	PL01-12x850/800-L	on request

Connectors

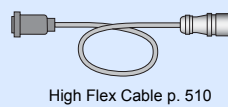
Motor connector Wiring

Pin 1	Phase 2-
Pin 2	Phase 2-
Pin 3	Phase 1-
Pin 4	Phase 1-
Pin 5	+5V
Pin 6	Temp
Pin 7	GND
Pin 8	Cosine
Pin 9	Sine
Pin 10	Phase 2+
Pin 11	Phase 2+
Pin 12	Phase 1+
Pin 13	Phase 1+

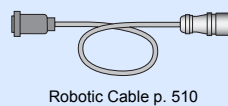
Accessoires



Standard Cable p. 510



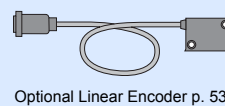
High Flex Cable p. 510



Robotic Cable p. 510



Servo Drive:
E100, E1001, E1100, B1100 p. 317



Optional Linear Encoder p. 530



Series P02-23Sx80F-HP 224

P02-23Sx80F/0x60-HP 227

P02-23Sx80F/20x80-HP 228

P02-23Sx80F/40x100-HP 229

P02-23Sx80F/70x130-HP 230

P02-23Sx80F/100x160-HP 231

P02-23Sx80F/140x200-HP 232

P02-23Sx80F/160x220-HP 233

P02-23Sx80F/220x280-HP 234

P02-23Sx80F/290x350-HP 235

P02-23Sx80F/350x410-HP 236

P02-23Sx80F/450x510-HP 237

P02-23Sx80F/630x690-HP 238

P02-23Sx80F/720x780-HP 239

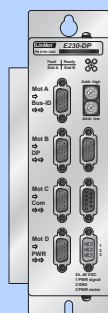
Motor Cable 240



Motor Specification

		P02-23Sx80F-HP/...
Maximum Stroke	mm (in)	780 (30.71)
Maximum Force	N (lbf)	67 (15.1)
Maximum Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Phase Resist. 25 °C	Ohm	4.2
Phase Resist. 80 °C	Ohm	5.2
Phase Inductance	mH	0.6
Thermal Resistance	°K/W	7.0
Thermal Time Const.	sec	900
Stator Diameter	mm (in)	23 (0.91)
Stator Length	mm (in)	105 (4.13)
Stator Mass	g (lb)	245 (0.54)
Slider Diameter	mm (in)	12 (0.47)
Position Resolution	mm (in)	0.01 (±0.0004)
Position Repeatability	mm (in)	±0.05 (±0.0020)
Position Resolution ES	mm (in)	0.001 (±0.00004)
Repeatability with EPS	mm (in)	±0.01 (±0.0004)

Accessories



Servo Drive:
E100



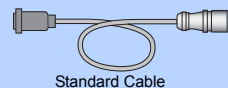
E1100



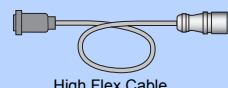
E1200



B1100



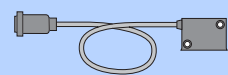
Standard Cable



High Flex Cable

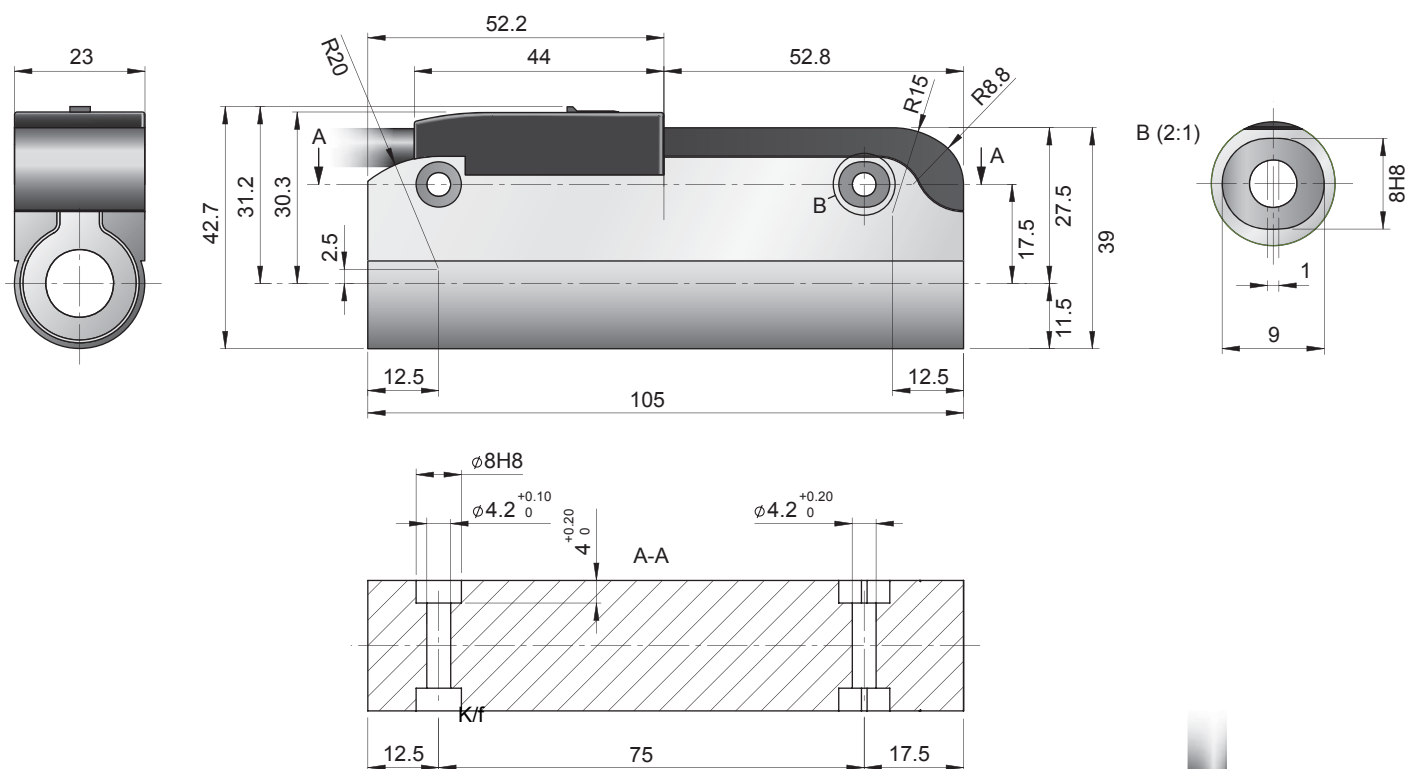


Robotic Cable

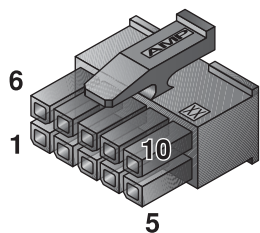
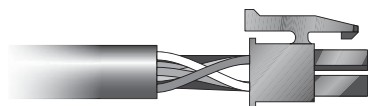


Optional Linear Encoder

Stator



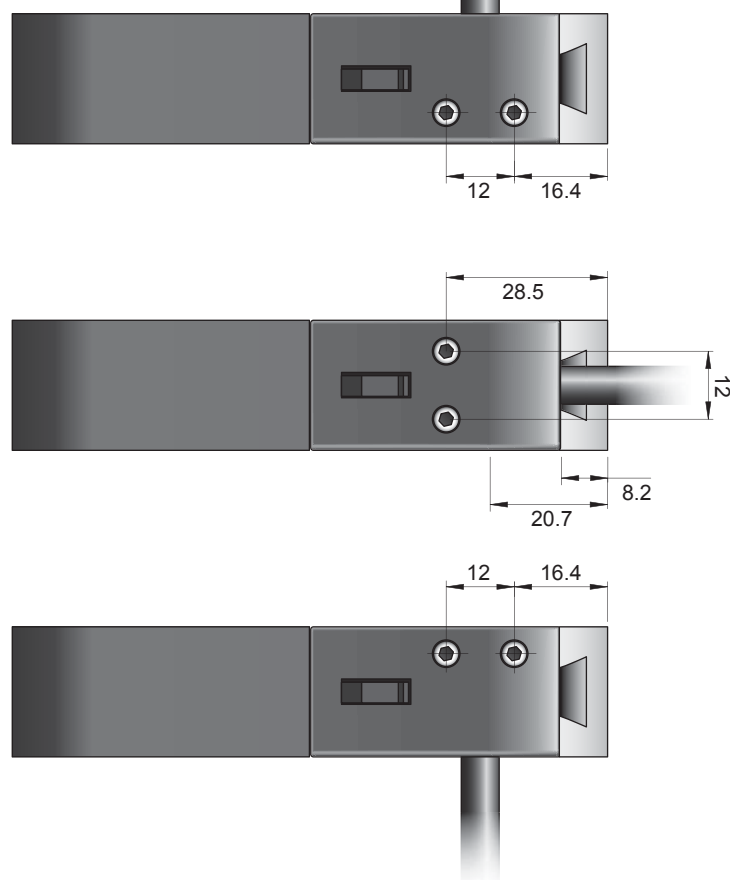
K-Connector



Motor Connector Wiring

Pin 1	red	Phase 1+
Pin 2	blue	Phase 2+
Pin 3	n.c.	
Pin 4	pink	Phase 1-
Pin 5	grey	Phase 2-
Pin 6	yellow	Sensor Sin
Pin 7	green	Sensor Cos
Pin 8	brown	Ground
Pin 9	white	+5V
Pin 10	black	Temp sensor
shield	case	Shield

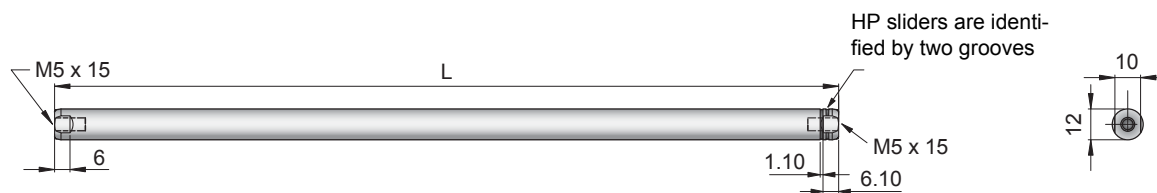
Stators are shipped with three covers for left/right/straight cable outlet



Ordering Information

Item	Description	Part Number
PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285

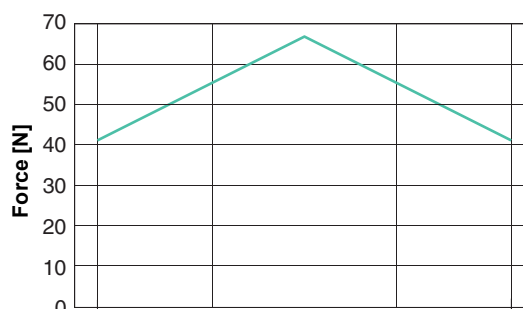
Sliders



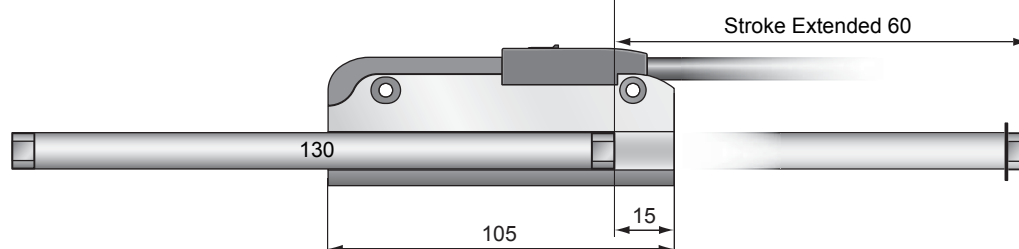
High Performance Slider		Length[mm]	Stroke[mm]	Part Number
PL01-12x130/90-HP	slider "High Performance"	130	0x60	0150-2209
PL01-12x150/110-HP	slider "High Performance"	150	20x80	0150-2281
PL01-12x170/130-HP	slider "High Performance"	170	40x100	0150-1529
PL01-12x200/160-HP	slider "High Performance"	200	70x130	0150-1518
PL01-12x230/190-HP	slider "High Performance"	230	100x160	0150-1519
PL01-12x270/230-HP	slider "High Performance"	270	140x200	0150-1520
PL01-12x290/250-HP	slider "High Performance"	290	160x220	0150-1521
PL01-12x350/310-HP	slider "High Performance"	350	220x280	0150-1522
PL01-12x420/380-HP	slider "High Performance"	420	290x350	0150-1523
PL01-12x480/440-HP	slider "High Performance"	480	350x410	0150-1524
PL01-12x580/540-HP	slider "High Performance"	580	450x510	0150-1525
PL01-12x760/720-HP	slider "High Performance"	760	630x690	0150-1526
PL01-12x850/810-HP	slider "High Performance"	850	720x780	0150-1527

Heavy Duty High Performance Slider				
PL02-12x130/90-HP	slider "heavy duty" "High Performance"	130	0x60	on request
PL02-12x150/110-HP	slider "heavy duty" "High Performance"	150	20x80	on request
PL02-12x170/130-HP	slider "heavy duty" "High Performance"	170	40x100	0150-1559
PL02-12x200/160-HP	slider "heavy duty" "High Performance"	200	70x130	0150-1532
PL02-12x230/190-HP	slider "heavy duty" "High Performance"	230	100x160	0150-1552
PL02-12x270/230-HP	slider "heavy duty" "High Performance"	270	140x200	0150-1533
PL02-12x290/250-HP	slider "heavy duty" "High Performance"	290	160x220	0150-1495
PL02-12x350/310-HP	slider "heavy duty" "High Performance"	350	220x280	0150-1555
PL02-12x420/380-HP	slider "heavy duty" "High Performance"	420	290x350	0150-1554
PL02-12x480/440-HP	slider "heavy duty" "High Performance"	480	350x410	on request
PL02-12x580/540-HP	slider "heavy duty" "High Performance"	580	450x510	on request
PL02-12x760/720-HP	slider "heavy duty" "High Performance"	760	630x690	on request
PL02-12x850/810-HP	slider "heavy duty" "High Performance"	850	720x780	on request

Max. Stroke: 60mm
Max. Force: 67N



— E1100, 72VDC

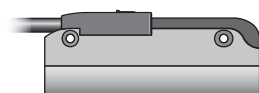


Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	- (-)
Extended Stroke ES	mm (in)	60 (2.36)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	130 (5.12)
Slider Mass	g (lb)	90 (0.20)

Ordering Information

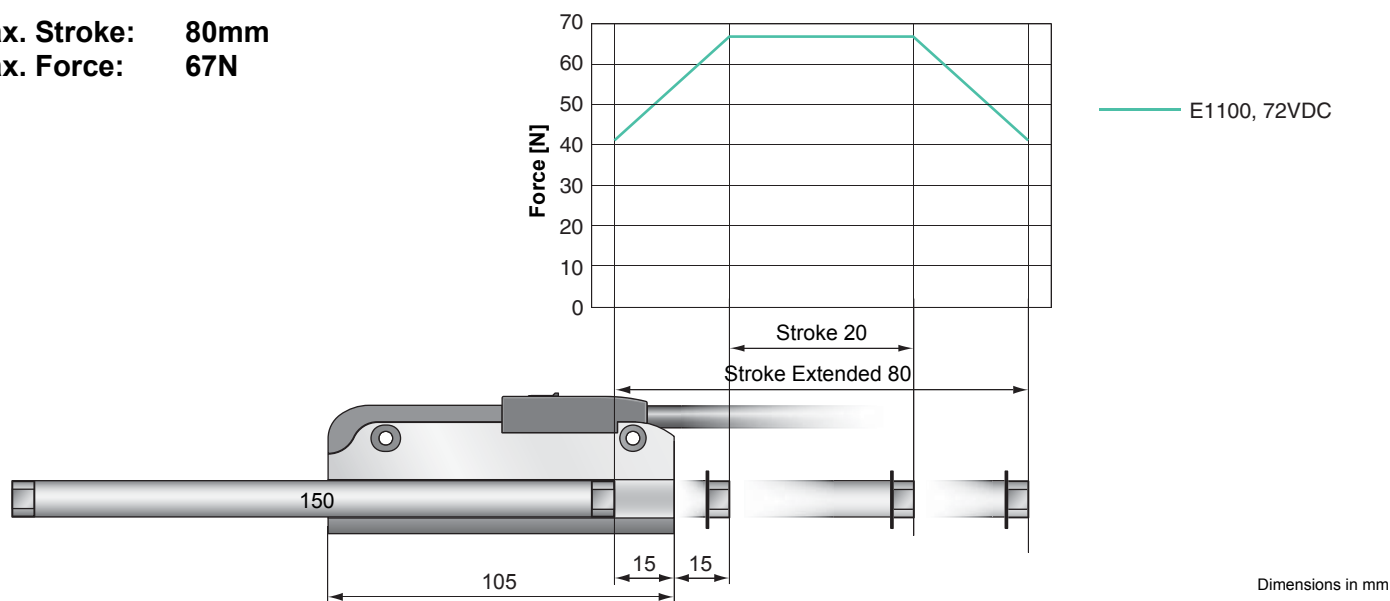


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x130/90-HP	High Performance Slider	0150-2209
PL02-12x130/90-HP	High Performance Slider, Heavy Duty	on request

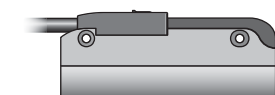
Max. Stroke: 80mm
Max. Force: 67N



Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	20 (0.79)
Extended Stroke ES	mm (in)	80 (3.15)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	150 (5.91)
Slider Mass	g (lb)	110 (4.33)

Ordering Information

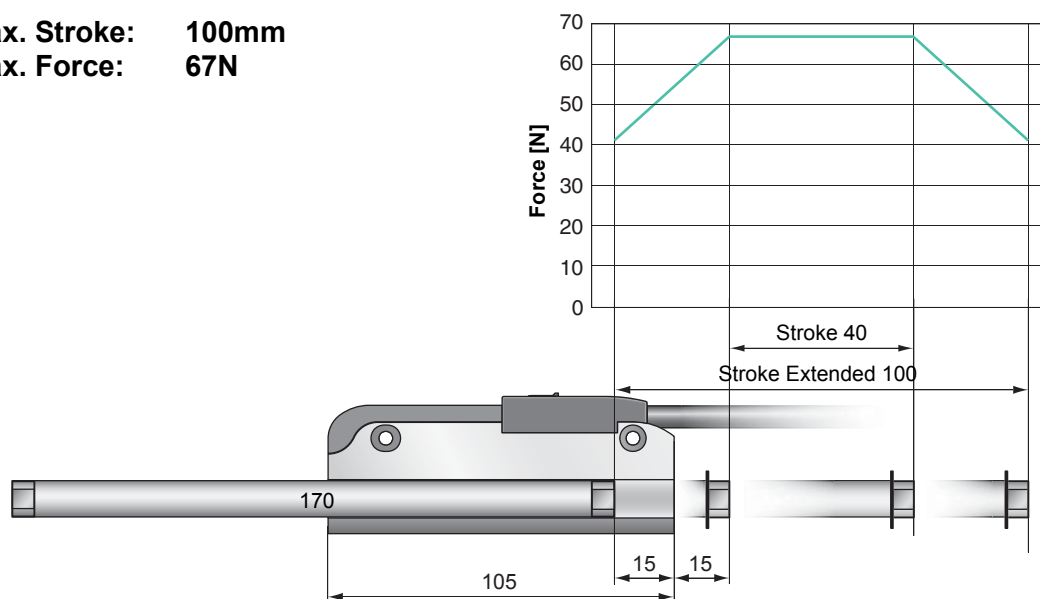


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x150/110-HP	High Performance Slider	0150-2281
PL02-12x150/110-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 100mm
Max. Force: 67N

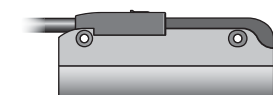


Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	40 (1.57)
Extended Stroke ES	mm (in)	100 (3.94)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	170 (6.69)
Slider Mass	g (lb)	125 (0.28)

Ordering Information

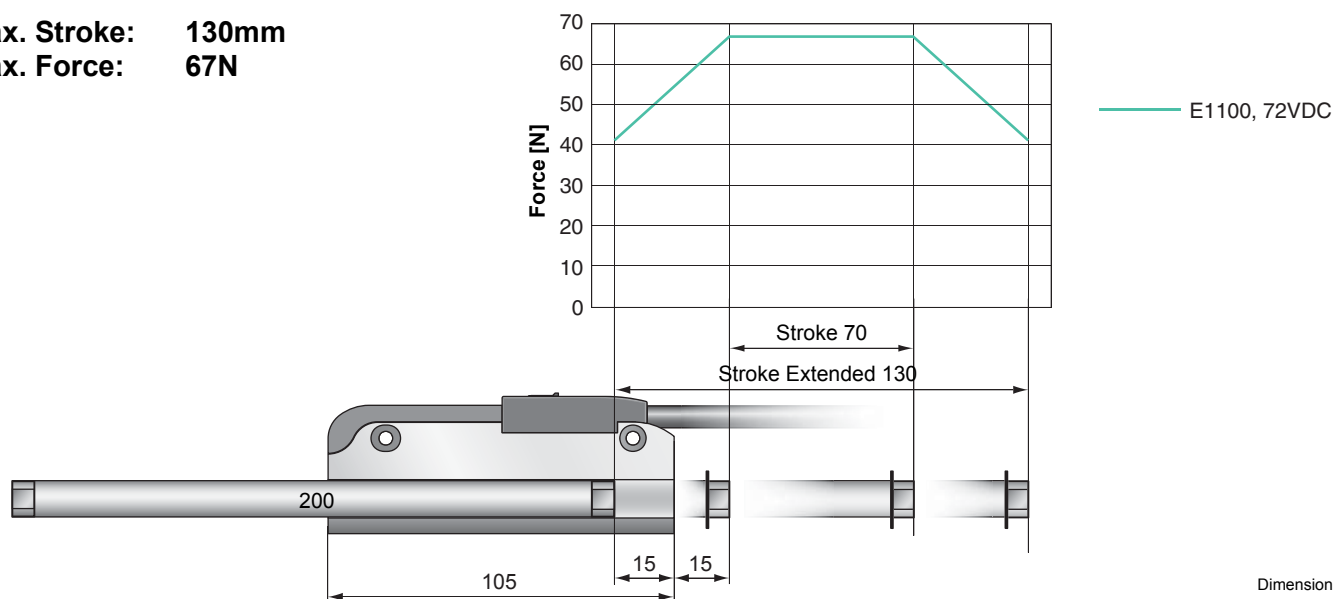


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x170/130-HP	High Performance Slider	0150-1529
PL02-12x170/130-HP	High Performance Slider, Heavy Duty	0150-1559

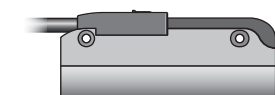
Max. Stroke: 130mm
Max. Force: 67N



Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	70 (2.76)
Extended Stroke ES	mm (in)	130 (5.12)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	200 (7.87)
Slider Mass	g (lb)	150 (0.33)

Ordering Information

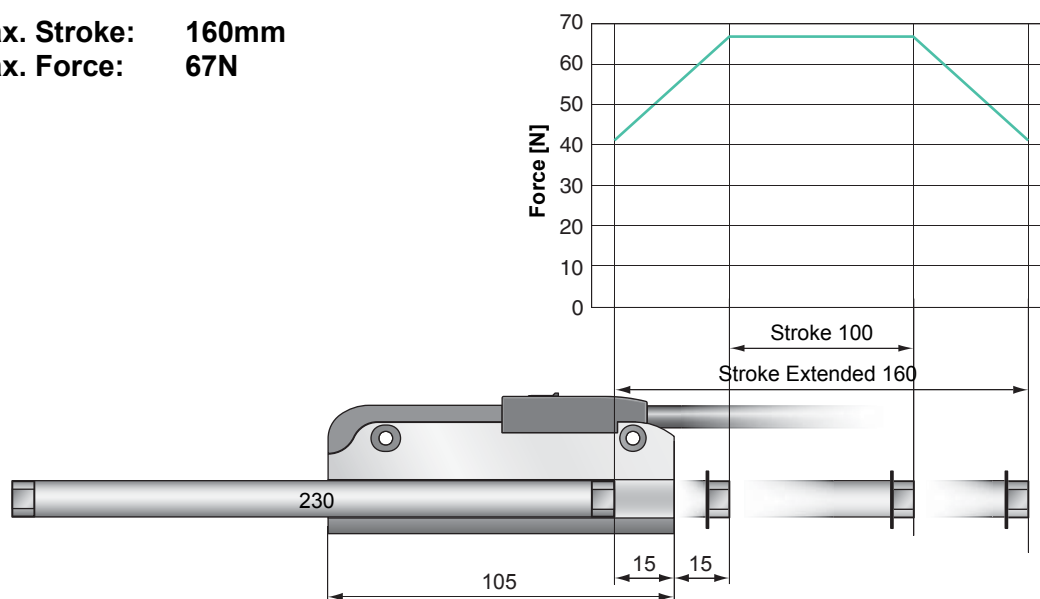


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x200/160-HP	High Performance Slider	0150-1518
PL02-12x200/160-HP	High Performance Slider, Heavy Duty	0150-1532

Max. Stroke: 160mm
Max. Force: 67N



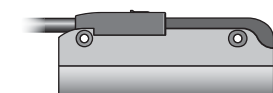
E1100, 72VDC

Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance
		High Performance Heavy Duty
Standard Stroke SS	mm (in)	100 (3.94)
Extended Stroke ES	mm (in)	160 (6.3)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	230 (9.06)
Slider Mass	g (lb)	175 (0.39)

Ordering Information

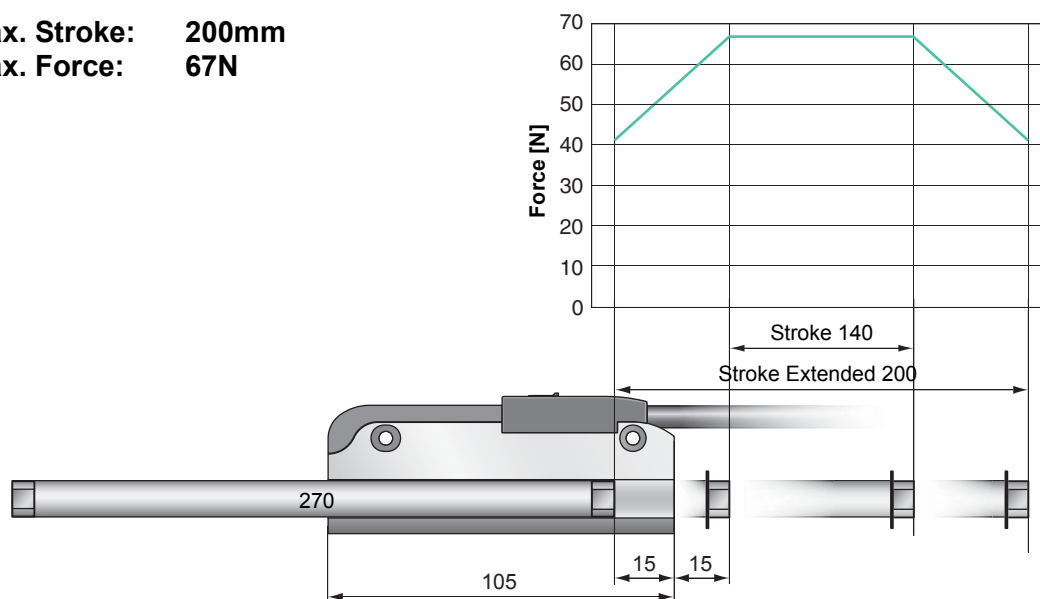


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x230/190-HP	High Performance Slider	0150-1519
PL02-12x230/190-HP	High Performance Slider, Heavy Duty	0150-1552

Max. Stroke: 200mm
Max. Force: 67N

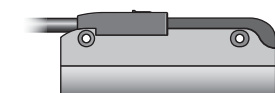


Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	140 (5.51)
Extended Stroke ES	mm (in)	200 (7.87)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	270 (16.63)
Slider Mass	g (lb)	210 (0.46)

Ordering Information

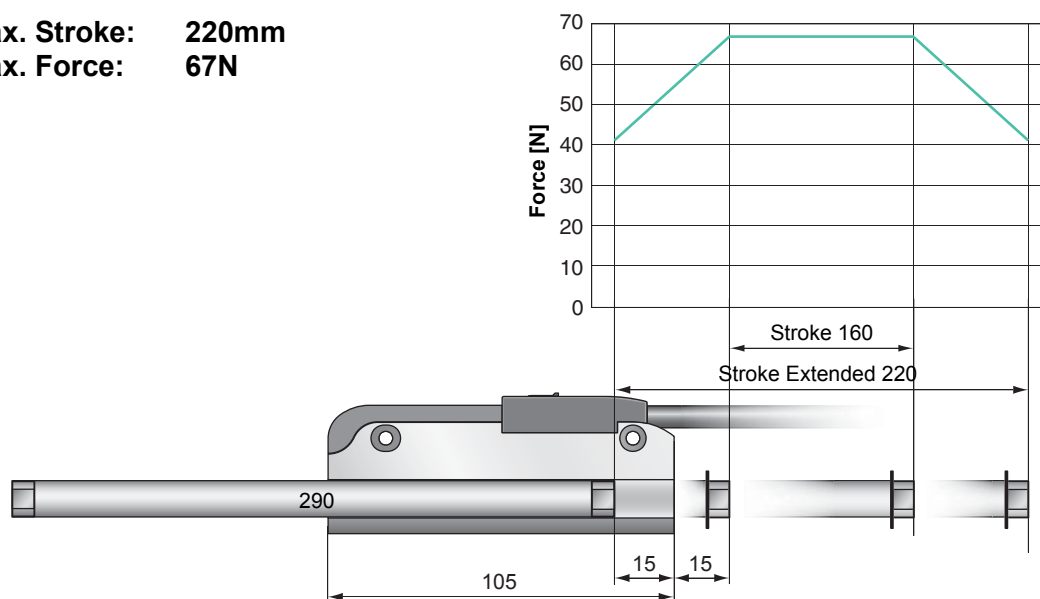


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x270/230-HP	High Performance Slider	0150-1520
PL02-12x270/230-HP	High Performance Slider, Heavy Duty	0150-1533

Max. Stroke: 220mm
Max. Force: 67N

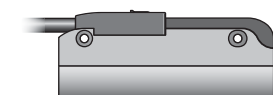


Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	160 (6.30)
Extended Stroke ES	mm (in)	220 (8.66)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	290 (11.42)
Slider Mass	g (lb)	230 (0.51)

Ordering Information

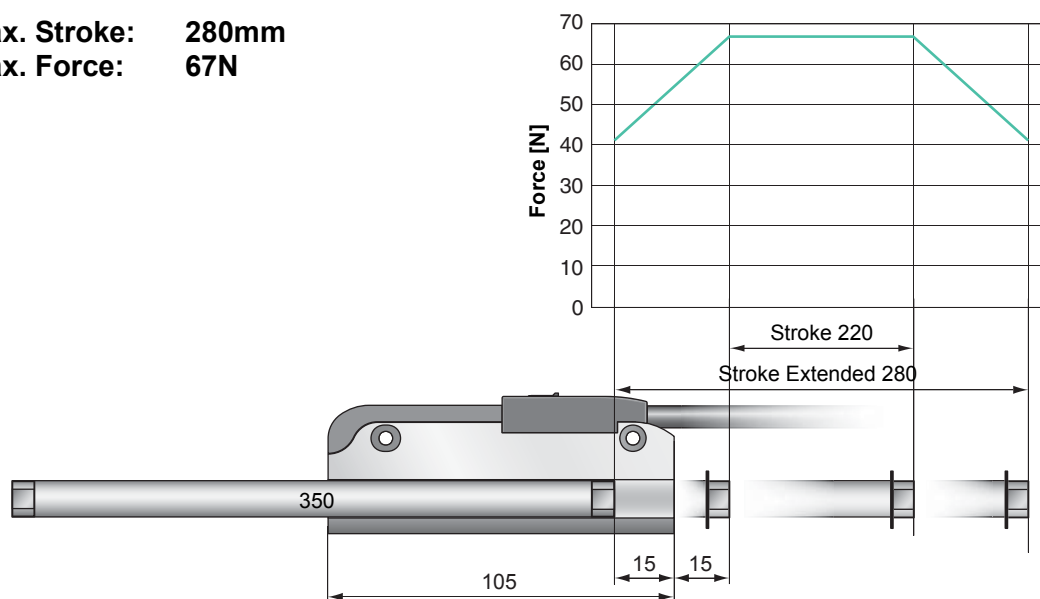


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x290/250-HP	High Performance Slider	0150-1521
PL02-12x290/250-HP	High Performance Slider, Heavy Duty	0150-1495

Max. Stroke: 280mm
Max. Force: 67N



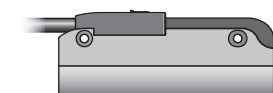
E1100, 72VDC

Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	220 (8.66)
Extended Stroke ES	mm (in)	280 (11.02)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	350 (13.78)
Slider Mass	g (lb)	280 (0.62)

Ordering Information

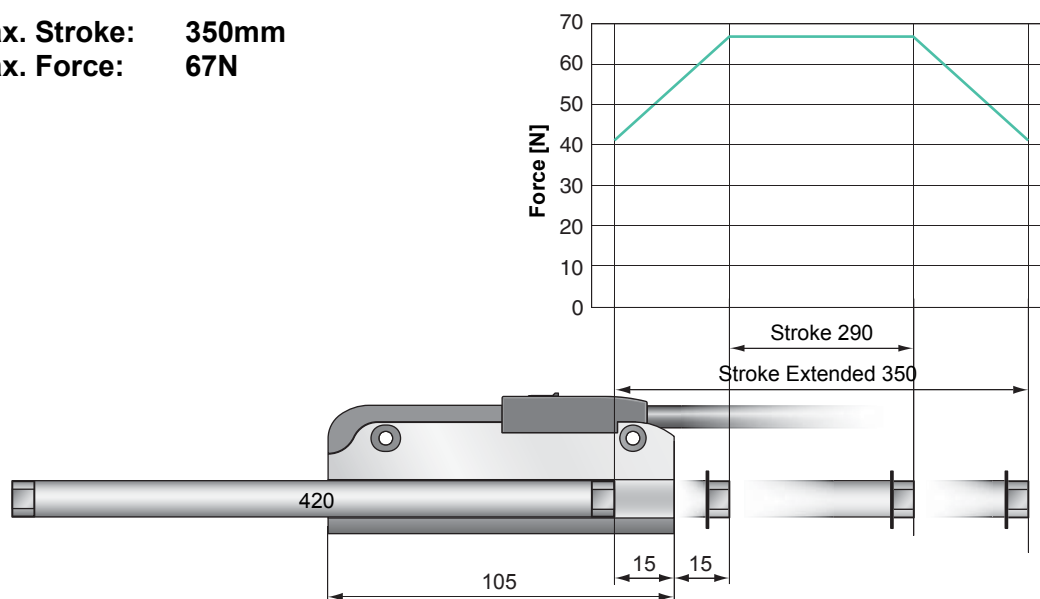


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x350/310-HP	High Performance Slider	0150-1522
PL02-12x350/310-HP	High Performance Slider, Heavy Duty	0150-1555

Max. Stroke: 350mm
Max. Force: 67N

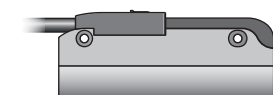


Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	290 (11.42)
Extended Stroke ES	mm (in)	350 (13.78)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	420 (16.53)
Slider Mass	g (lb)	340 (0.75)

Ordering Information

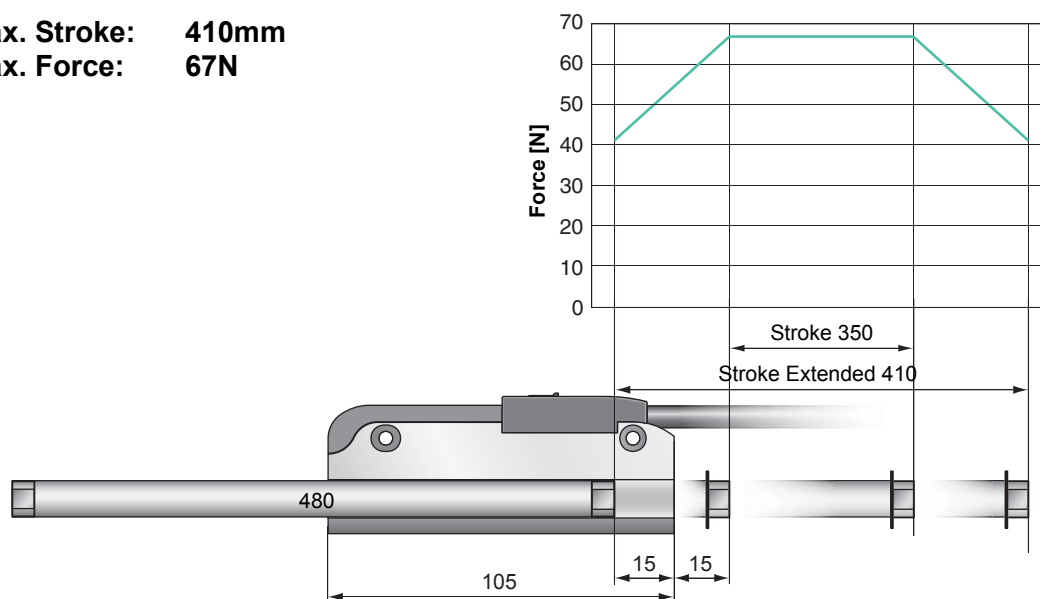


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x420/380-HP	High Performance Slider	0150-1523
PL02-12x420/38-HP	High Performance Slider, Heavy Duty	0150-1554

Max. Stroke: 410mm
Max. Force: 67N

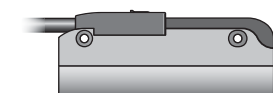


Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	350 (13.78)
Extended Stroke ES	mm (in)	410 (16.14)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	480 (18.90)
Slider Mass	g (lb)	390 (0.86)

Ordering Information

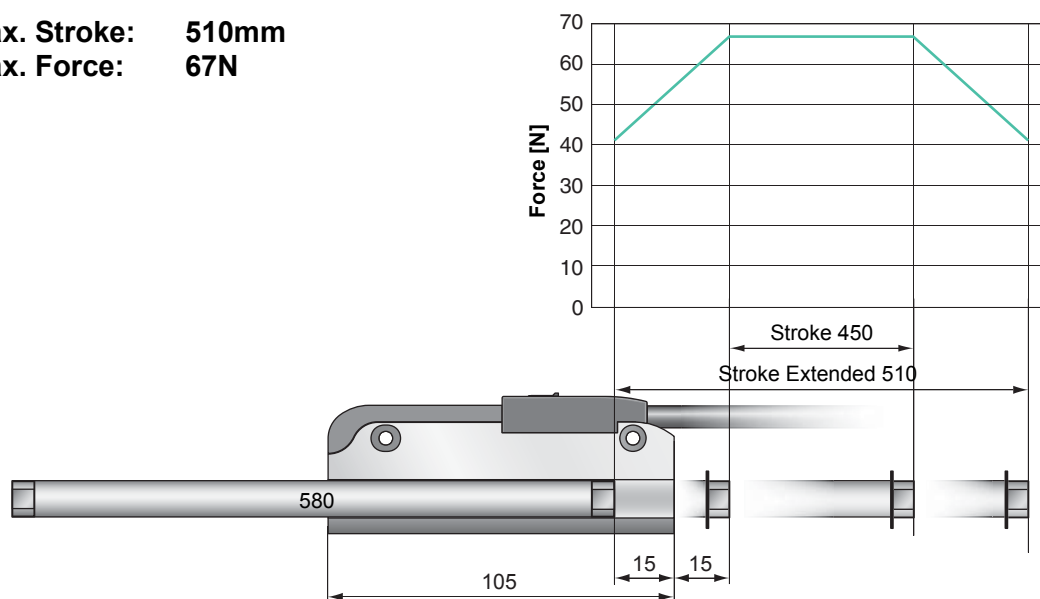


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x480/440-HP	High Performance Slider	0150-1524
PL02-12x480/440-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 510mm
Max. Force: 67N

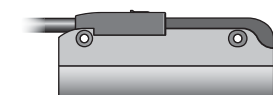


Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	450 (17.72)
Extended Stroke ES	mm (in)	510 (20.08)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	580 (22.83)
Slider Mass	g (lb)	475 (1.05)

Ordering Information

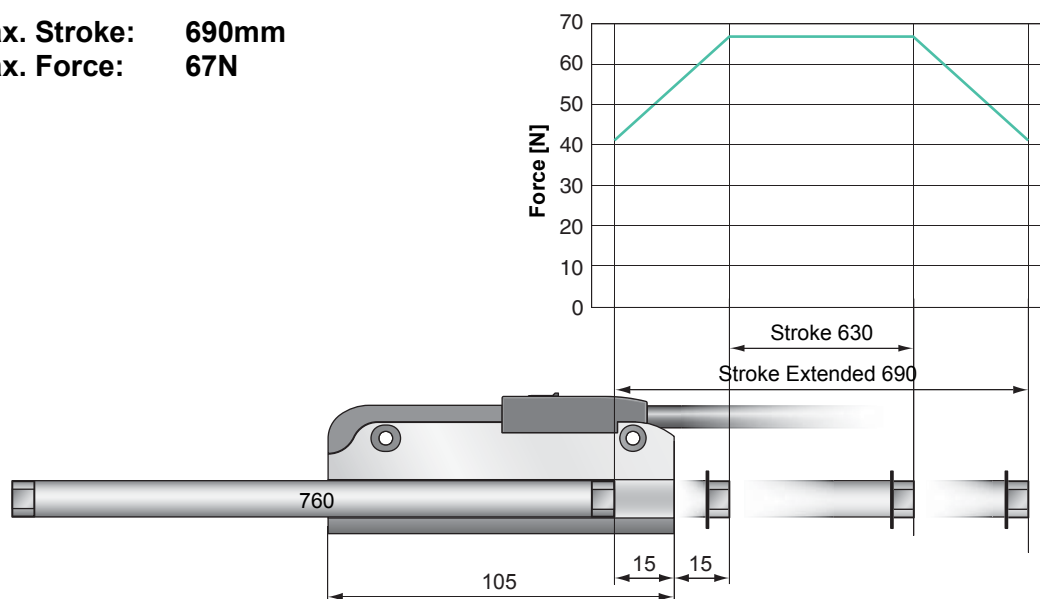


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x580/540-HP	High Performance Slider	0150-1525
PL02-12x580/540-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 690mm
Max. Force: 67N

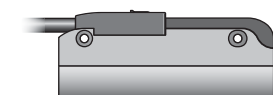


Dimensions in mm

Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	630 (24.80)
Extended Stroke ES	mm (in)	690 (27.17)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	760 (29.92)
Slider Mass	g (lb)	625 (1.38)

Ordering Information

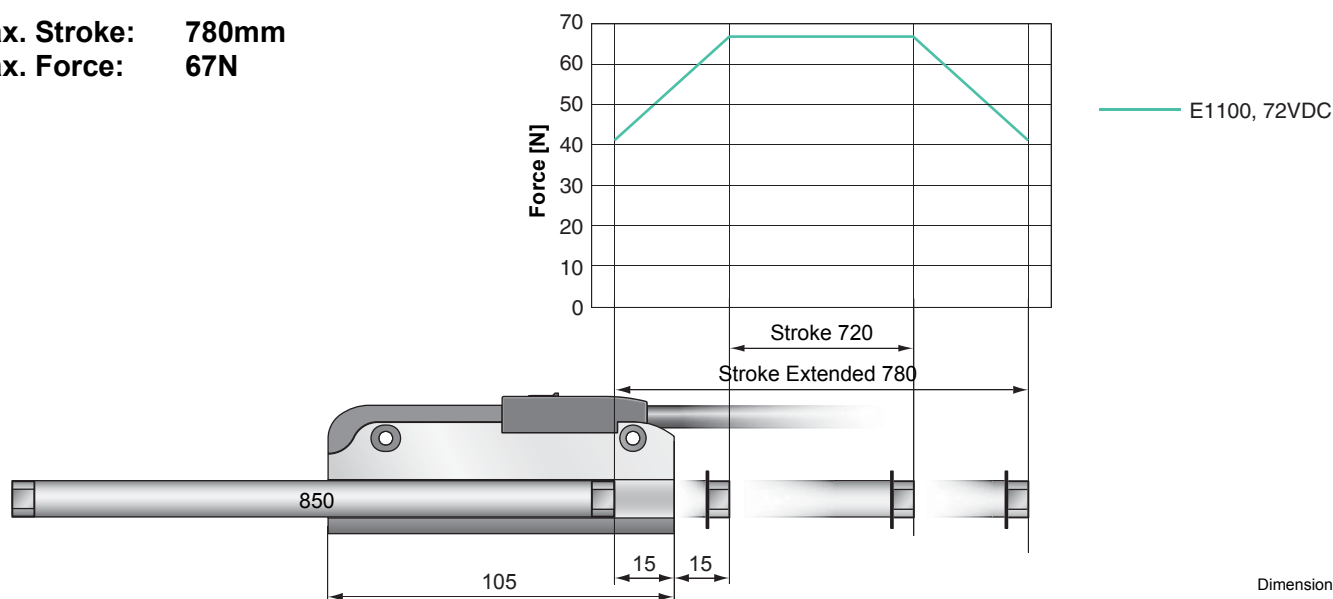


PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x760/720-HP	High Performance Slider	0150-1526
PL02-12x760/720-HP	High Performance Slider, Heavy Duty	on request

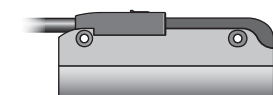
Max. Stroke: 780mm
Max. Force: 67N



Motor Specification

Stator Type		Standard Winding
Slider Type		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	720 (28.35)
Extended Stroke ES	mm (in)	780 (30.71)
Max. Force	N (lbf)	67 (15.1)
Cont. Force	N (lbf)	15 (3.5)
Cont. Force with fan	N (lbf)	25 (5.6)
Max. Velocity	m/s (in/s)	7.3 (287)
Max. Current	A	7.5
Cont. Current	A	1.5
Cont. Current with fan	A	2.2
Force Constant	N/A (lbf/A)	9 (2.0)
Border Force	%	63
Linearity	%	±0.1
Slider Length	mm (in)	850 (33.46)
Slider Mass	g (lb)	700 (1.54)

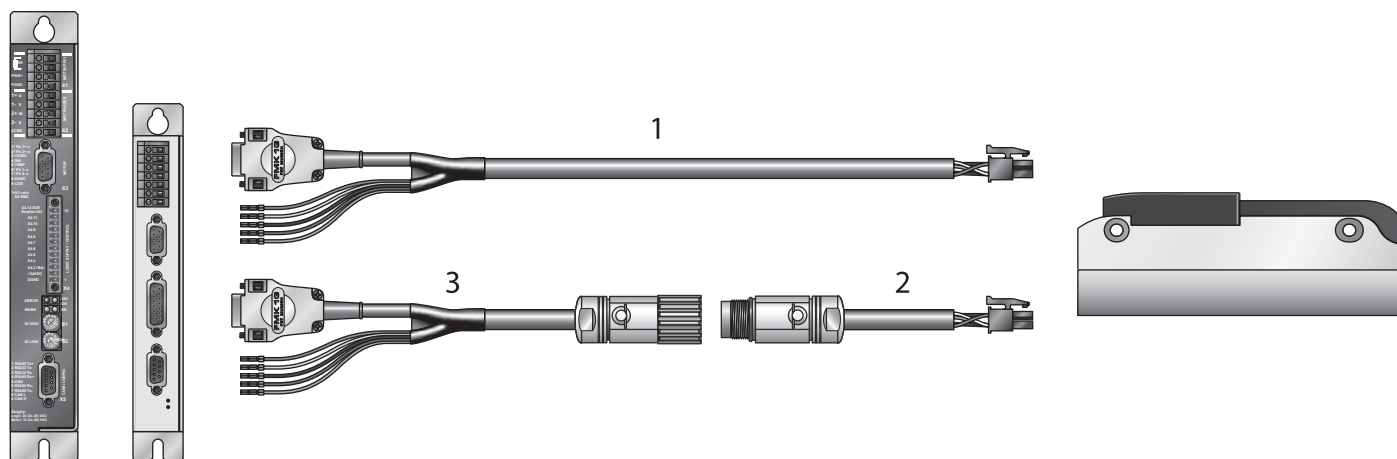
Ordering Information



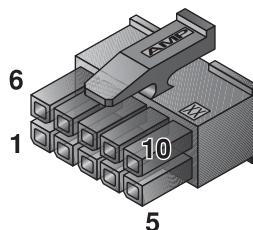
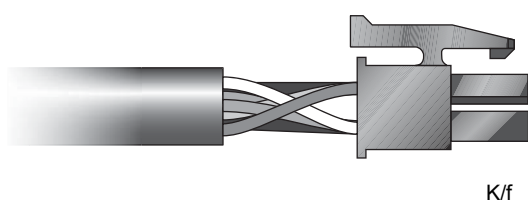
PS02-23Sx80F-HP-K	Stator HP with K-connector IP50	0150-1285
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PL01-12x850/810-HP	High Performance Slider	0150-1527
PL02-12x850/810-HP	High Performance Slider, Heavy Duty	on request



K-Connector



Motor Connector Wiring

Pin 1	red	Phase 1+
Pin 2	blue	Phase 2+
Pin 3		n.c.
Pin 4	pink	Phase 1-
Pin 5	grey	Phase 2-
Pin 6	yellow	Sensor Sin
Pin 7	green	Sensor Cos
Pin 8	brown	Ground
Pin 9	white	+5V
Pin 10	black	Temp sensor
shield	case	Shield

Ordering Information

1. High Flex Motor Cable directly to the Controller (length up to 6m)

Item	Description	Part Number
KS03-W/K-2	High Flex cable W-Fe/K, 2m	0150-2187
KS03-W/K-4	High Flex cable W-Fe/K, 4m	0150-2369
KS03-W/K-6	High Flex cable W-Fe/K, 6m	0150-2370
KS03-W/K-	High Flex cable W-Fe/K, custom length	0150-3357

2. High Flex Motor Cable with R Connector (length up to 6m)

KS03-R/K-1	High Flex cable R/K, 1m	0150-2185
KS03-R/K-2	High Flex cable R/K, 2m	0150-2186
KS03-R/K-	High Flex cable R/K, custom length	0150-3353

3. Motor Extension Cables (length up to 50m)

Standard cable		
K05-W/R-2	Standard cable W/R, 2m	0150-2119
K05-W/R-4	Standard cable W/R, 4m	0150-2120
K05-W/R-6	Standard cable W/R, 6m	0150-2121
K05-W/R-8	Standard cable W/R, 8m	0150-2122
K05-W/R-10	Standard cable W/R, 10m	0150-2132
K05-W/R-	Standard cable W/R, custom length	0150-3262

High Flex cable chain cable

KS05-W/R-4	High Flex cable W/R, 4m	0150-2106
KS05-W/R-6	High Flex cable W/R, 6m	0150-2131
KS05-W/R-8	High Flex cable W/R, 8m	0150-2107
KS05-W/R-	High Flex cable W/R, custom length	0150-3256

Connectors & Cable

KS03--09	High Flex cable per m	0150-2182
KR05-W/R-	Robot cable W/R, per m	0150-3336
MC01-K/f	K/f connector	0150-3345
MC01-K/f-as	K/f connector, assembled	0150-3346



Series P01-37Sx60-HP 242

P01-37Sx60/20x40-HP 245

P01-37Sx60/60x80-HP 246

P01-37Sx60/100x120-HP 247

P01-37Sx60/160x180-HP 248

P01-37Sx60/220x240-HP 249

P01-37Sx60/260x280-HP 250

P01-37Sx60/360x380-HP 251

P01-37Sx60/460x480-HP 252

P01-37Sx60/560x580-HP 253

P01-37Sx60/660x680-HP 254

P01-37Sx60/760x780-HP 255

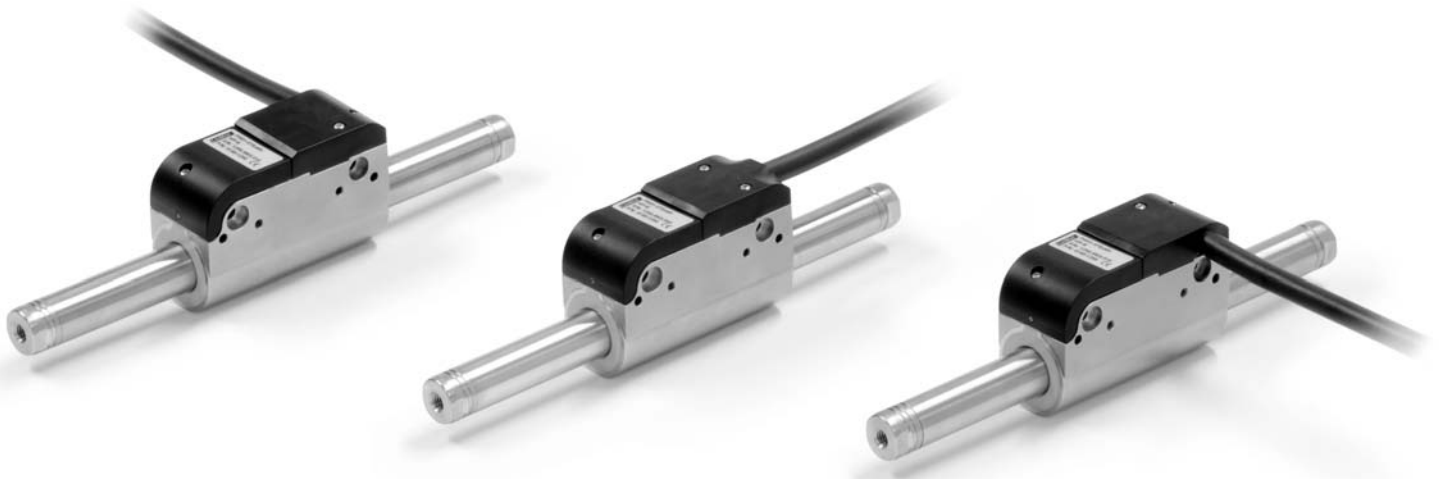
P01-37Sx60/860x880-HP 256

P01-37Sx60/1060x1080-HP 257

P01-37Sx60/1260x1280-HP 258

P01-37Sx60/1460x1480-HP 259

Motor Cable 260



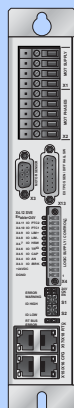
Motor Specification

		P01-37Sx60-HP/...
Maximum Stroke	mm (in)	1480 (58.27)
Maximum Force	N (lbf)	128 (28.8)
Maximum Velocity	m/s (in/s)	5 (196)
Max. Current	A	9.5
Cont. Current	A	1.25
Phase Resist. 25 °C	Ohm	3.1
Phase Resist. 110 °C	Ohm	4.1
Phase Inductance	mH	1.6
Thermal Resistance	°K/W	2.2
Thermal Time Const.	sec	1800
Stator Diameter	mm (in)	37 (1.46) / 38 (1.50)
Stator Length	mm (in)	90 (3.54)
Stator Mass	g (lb)	513 (1.13)
Slider Diameter	mm (in)	20 (0.79)
Position Resolution	mm (in)	0,01
Position Repeatability	mm (in)	±0.05 (±0.0020)
Position Resolution ES	mm (in)	0,001
Repeatability with EPS	mm (in)	±0.01 (±0.0004)

Accessories



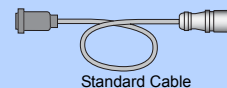
Servo Drive:
E1100



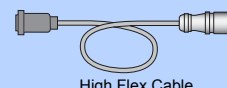
E1200



B1100-HC



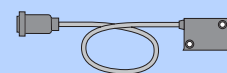
Standard Cable



High Flex Cable

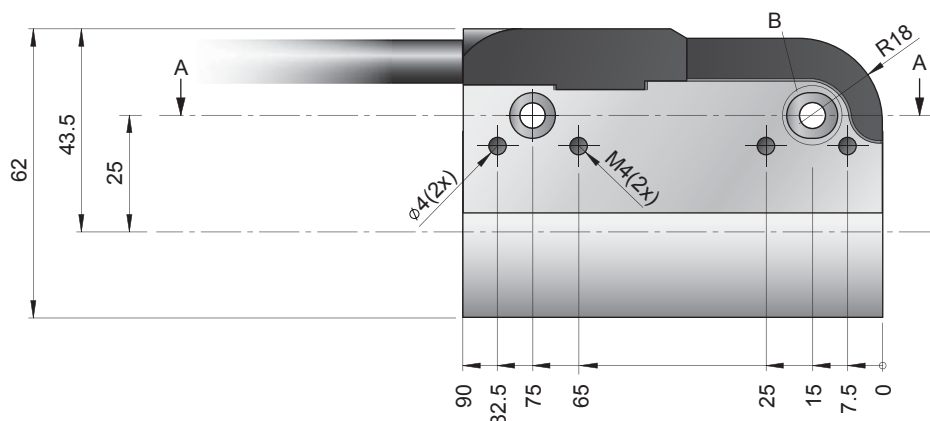
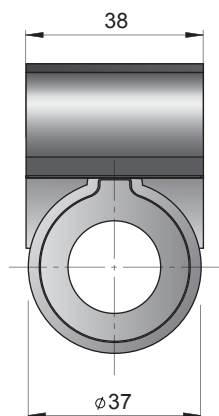


Robotic Cable

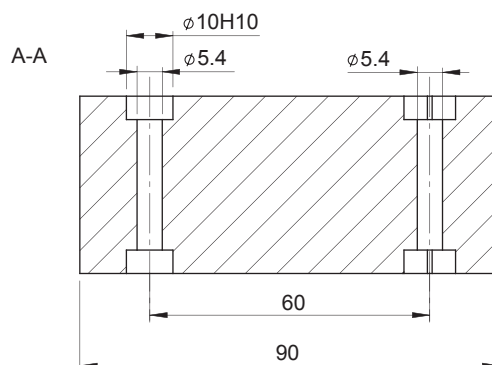
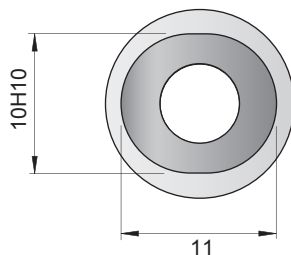


Optional Linear Encoder

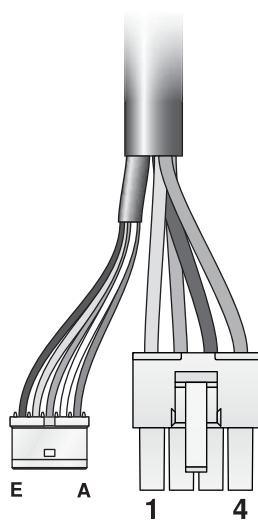
Stator



Detail B



N-Connector

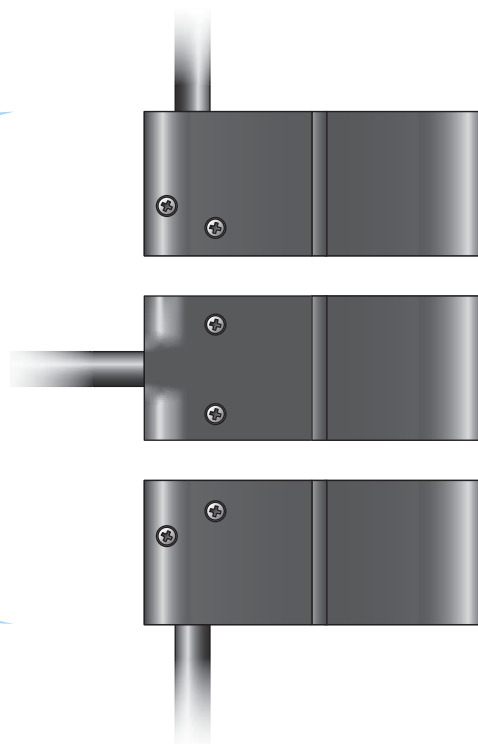


Motor Connector Wiring

Pin 4	red	Phase 1+
Pin 3	pink	Phase 1-
Pin 2	blue	Phase 2+
Pin 1	grey	Phase 2-

Pin A	white	+5V
Pin B	inner Shield	Ground
Pin C	yellow	Sensor Sin
Pin D	green	Sensor Cos
Pin E	black	Temp sensor
case	outer Shield	shield

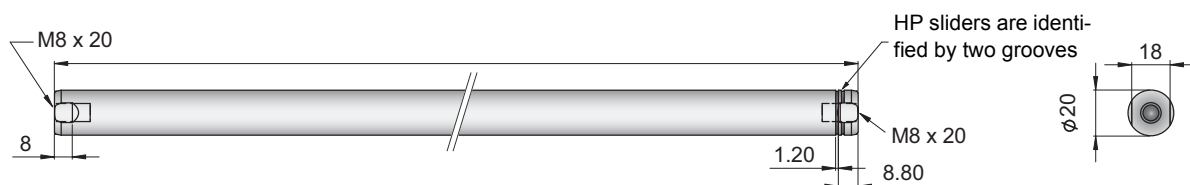
Stators are shipped with three covers for left/right/straight cable outlet



Ordering Information

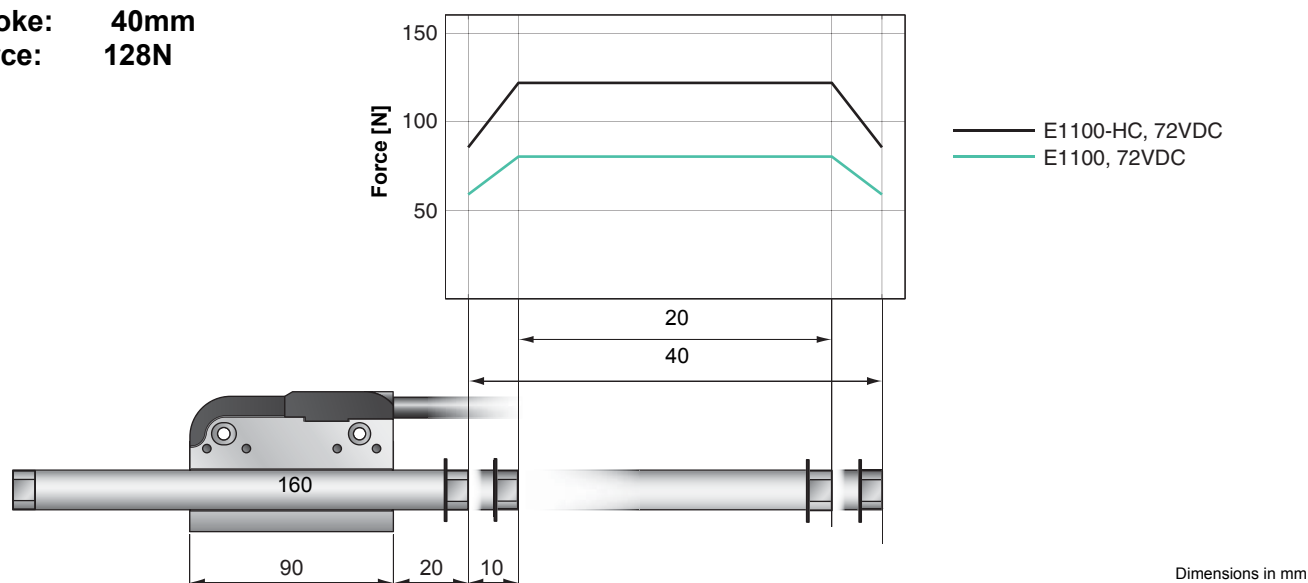
Item	Description	Part Number
PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295

Sliders



High Performance Slider		Length[mm]	Stroke[mm]	Part Number
PL01-20x240/180-HP	slider "High Performance"	240	100x120	0150-1505
PL01-20x300/240-HP	slider "High Performance"	300	160x180	0150-1506
PL01-20x360/300-HP	slider "High Performance"	360	220x240	0150-1507
PL01-20x400/340-HP	slider "High Performance"	400	260x280	0150-1508
PL01-20x500/440-HP	slider "High Performance"	500	360x380	0150-1509
PL01-20x600/540-HP	slider "High Performance"	600	460x480	0150-1510
PL01-20x700/640-HP	slider "High Performance"	700	560x580	0150-1511
PL01-20x800/740-HP	slider "High Performance"	800	660x680	0150-1512
PL01-20x900/840-HP	slider "High Performance"	900	760x780	0150-1513
PL01-20x1000/940-HP	slider "High Performance"	1000	860x880	0150-1514
PL01-20x1200/1140-HP	slider "High Performance"	1200	1060x1080	0150-1515
PL01-20x1400/1340-HP	slider "High Performance"	1400	1260x1280	0150-1516
PL01-20x1600/1540-HP	slider "High Performance"	1600	1460x1480	0150-1517

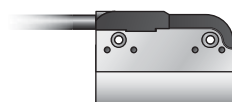
Max. Stroke: 40mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	20 (0.79)
Extended Stroke ES	mm (in)	40 (1.57)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	160 (6.30)
Slider Mass	g (lb)	310 (0.68)

Ordering Information

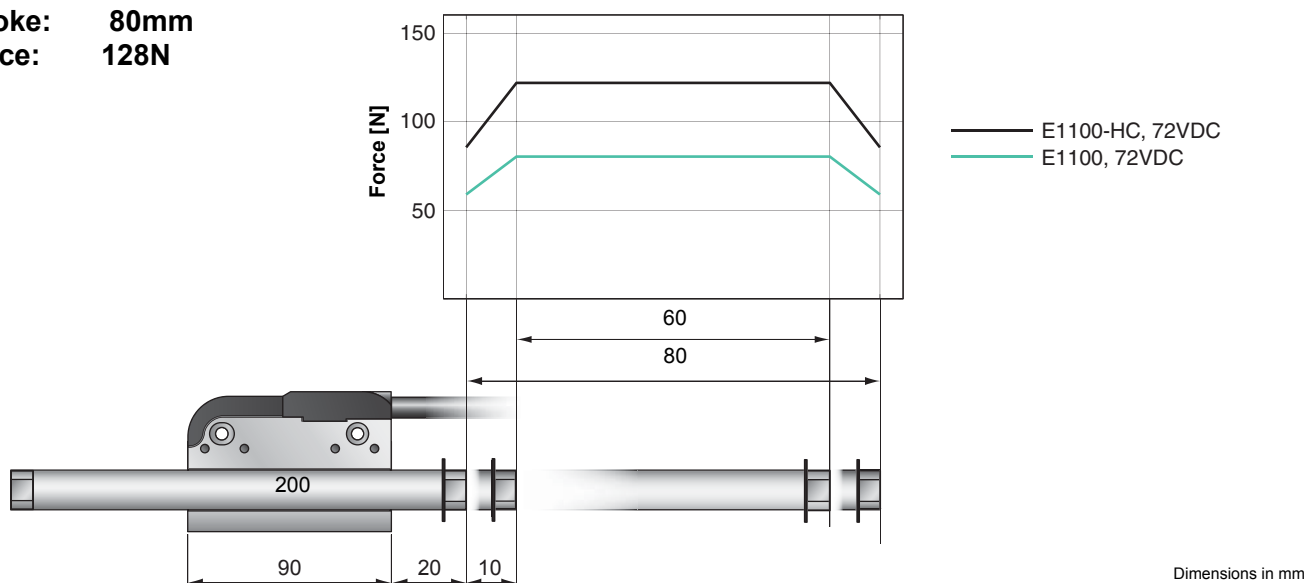


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x160/100-HP	High Performance Slider	0150-2513
PL02-20x160/100-HP	High Performance Slider, Heavy Duty	on request

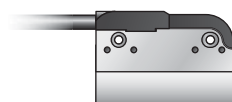
Max. Stroke: 80mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	60 (2.36)
Extended Stroke ES	mm (in)	80 (3.15)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	200 (7.87)
Slider Mass	g (lb)	400 (0.88)

Ordering Information

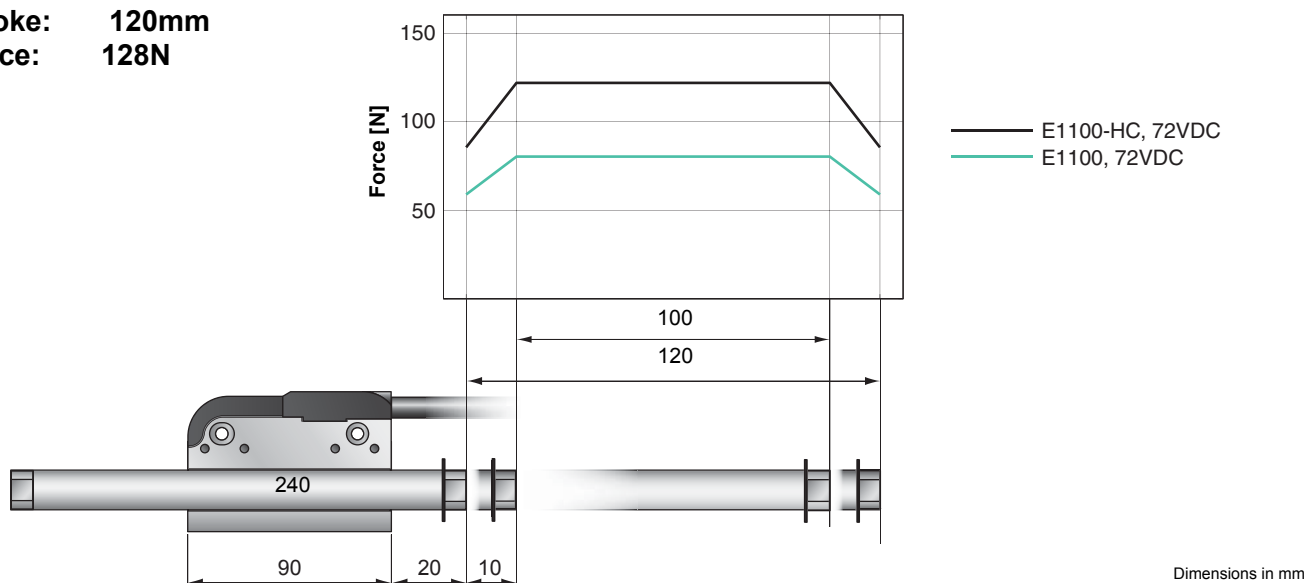


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x200/140-HP	High Performance Slider	0150-2512
PL02-20x200/140-HP	High Performance Slider, Heavy Duty	on request

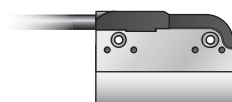
Max. Stroke: 120mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	100 (3.94)
Extended Stroke ES	mm (in)	120 (4.72)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	240 (9.45)
Slider Mass	g (lb)	530 (1.17)

Ordering Information

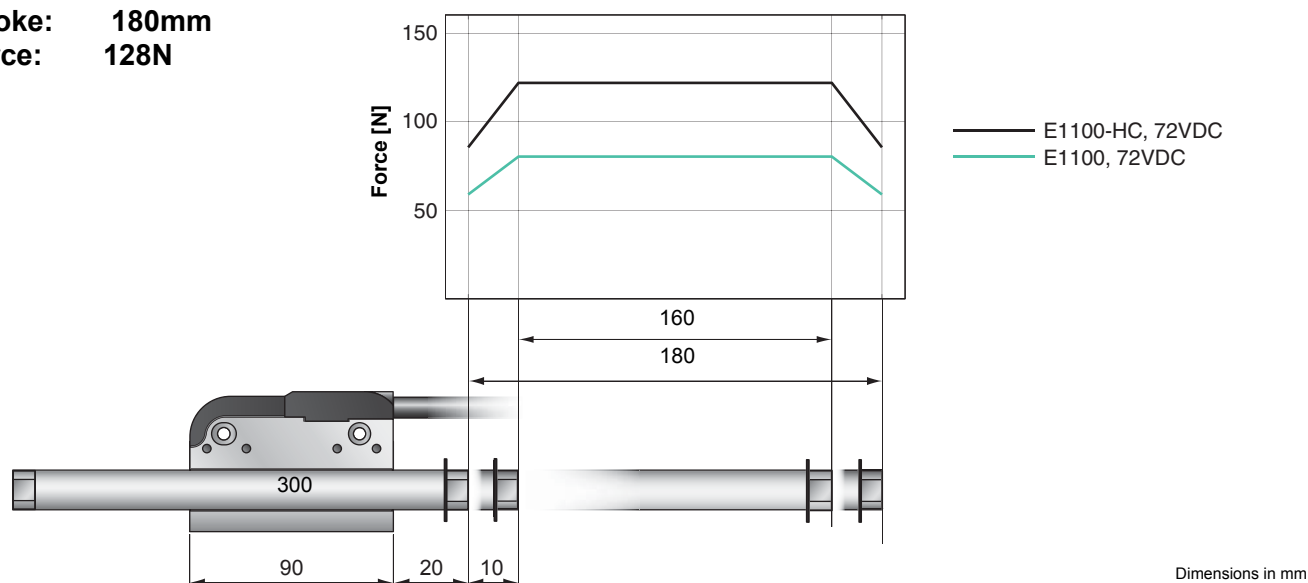


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x240/180-HP	High Performance Slider	0150-1505
PL02-20x240/180-HP	High Performance Slider, Heavy Duty	on request

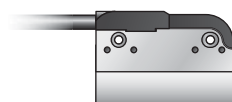
Max. Stroke: 180mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	160 (6.30)
Extended Stroke ES	mm (in)	180 (7.09)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	300 (11.81)
Slider Mass	g (lb)	650 (1.43)

Ordering Information

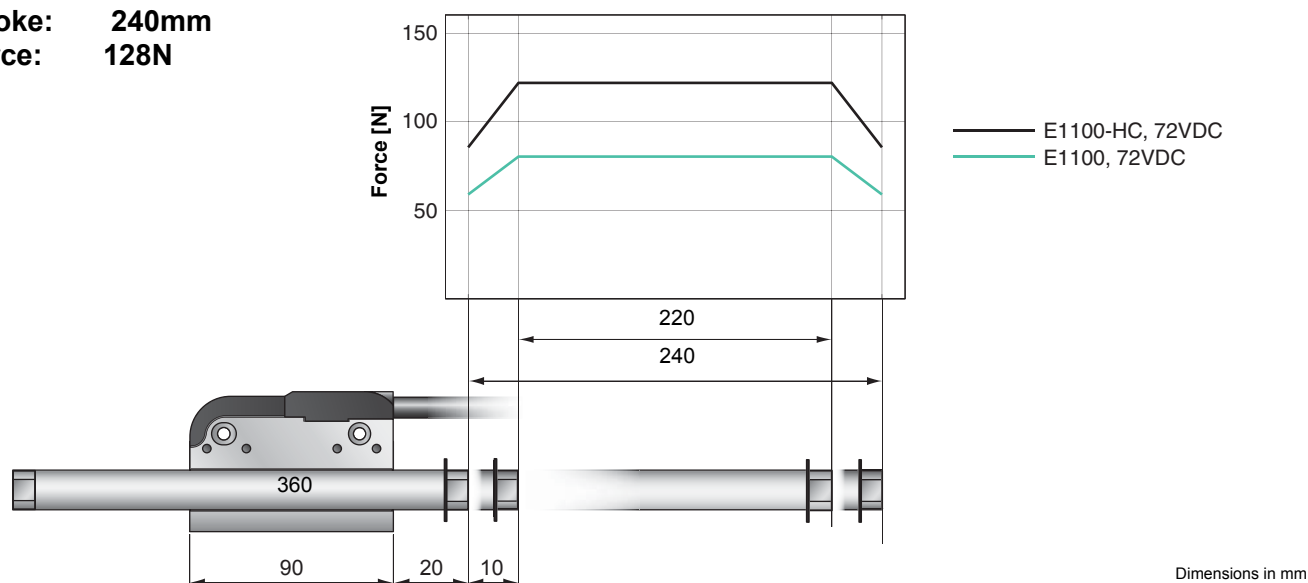


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x300/240-HP	High Performance Slider	0150-1506
PL02-20x300/240-HP	High Performance Slider, Heavy Duty	on request

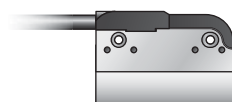
Max. Stroke: 240mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	220 (8.66)
Extended Stroke ES	mm (in)	240 (9.45)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	360 (14.17)
Slider Mass	g (lb)	800 (1.76)

Ordering Information

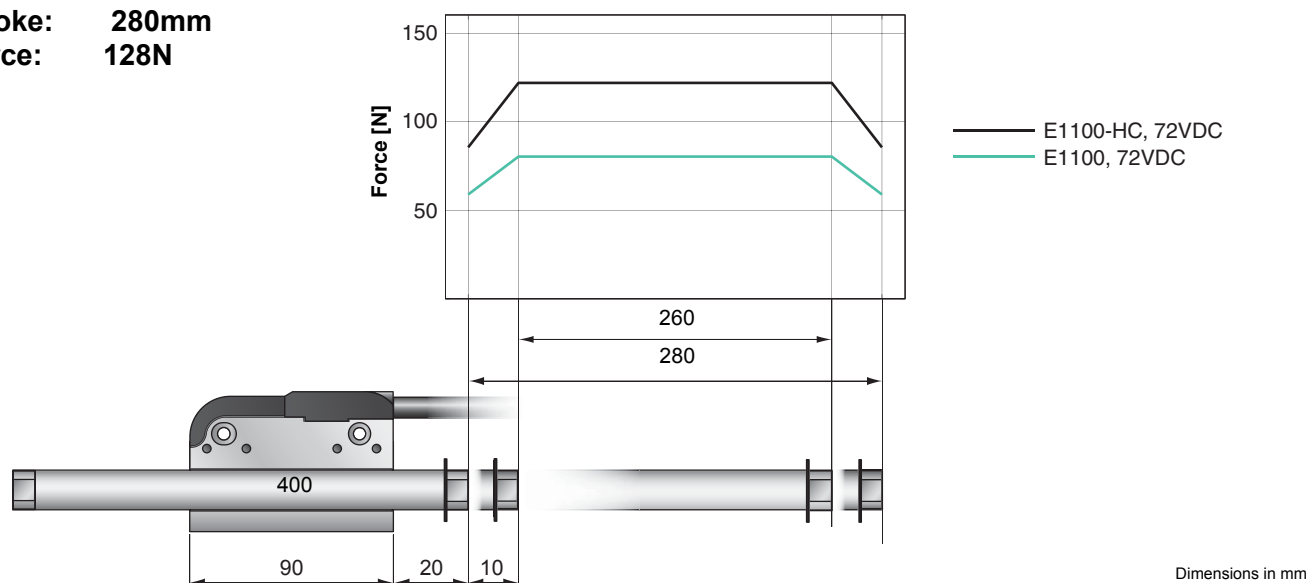


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x360/300-HP	High Performance Slider	0150-1507
PL02-20x360/300-HP	High Performance Slider, Heavy Duty	on request

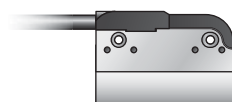
Max. Stroke: 280mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	260 (10.24)
Extended Stroke ES	mm (in)	280 (11.02)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	400 (15.75)
Slider Mass	g (lb)	880 (1.94)

Ordering Information

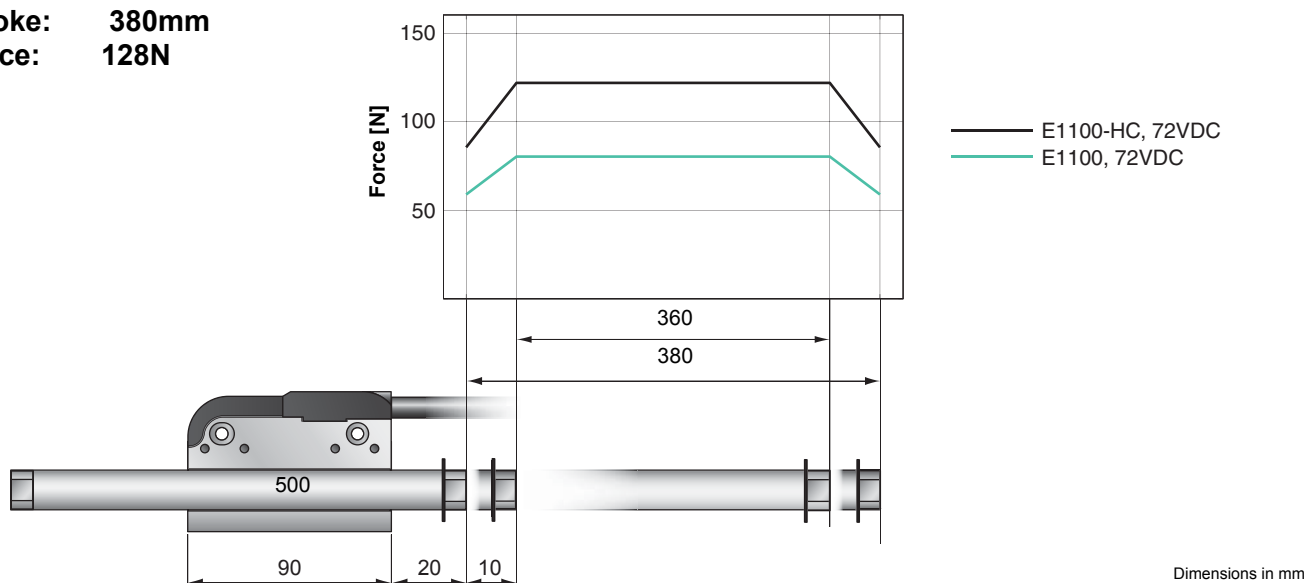


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x400/340-HP	High Performance Slider	0150-1508
PL02-20x400/340-HP	High Performance Slider, Heavy Duty	on request

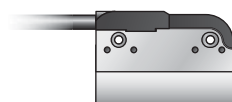
Max. Stroke: 380mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	360 (14.17)
Extended Stroke ES	mm (in)	380 (14.96)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	500 (19.69)
Slider Mass	g (lb)	1110 (2.45)

Ordering Information

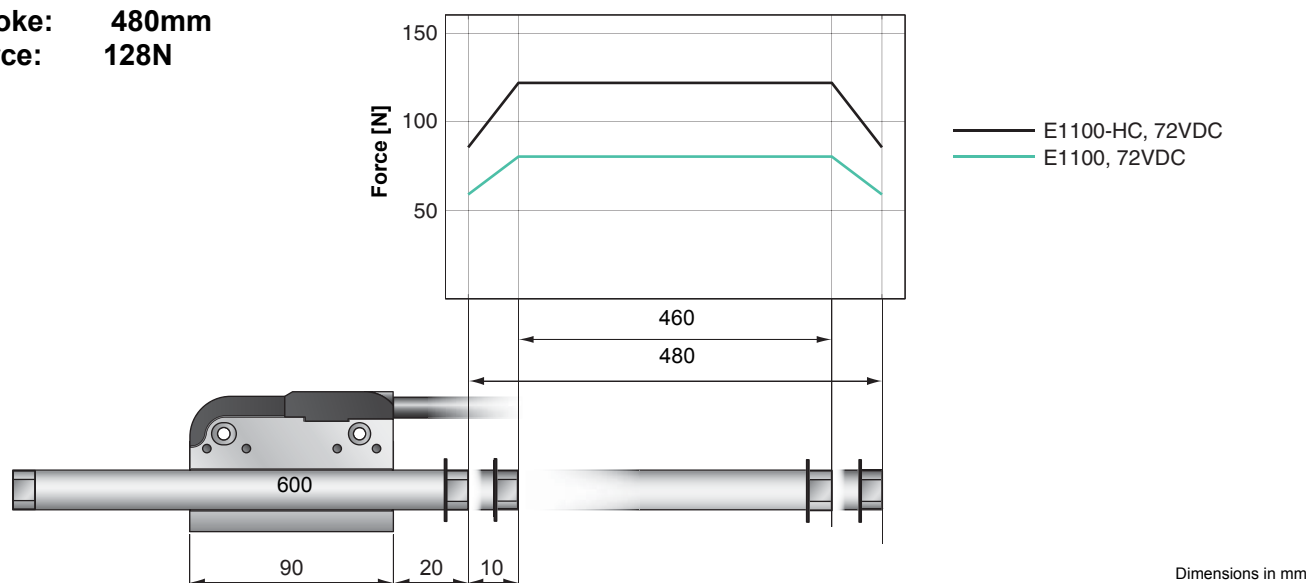


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x500/440-HP	High Performance Slider	0150-1509
PL02-20x500/440-HP	High Performance Slider, Heavy Duty	on request

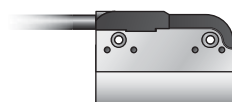
Max. Stroke: 480mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	460 (18.11)
Extended Stroke ES	mm (in)	480 (18.90)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	600 (23.62)
Slider Mass	g (lb)	1350 (2.98)

Ordering Information

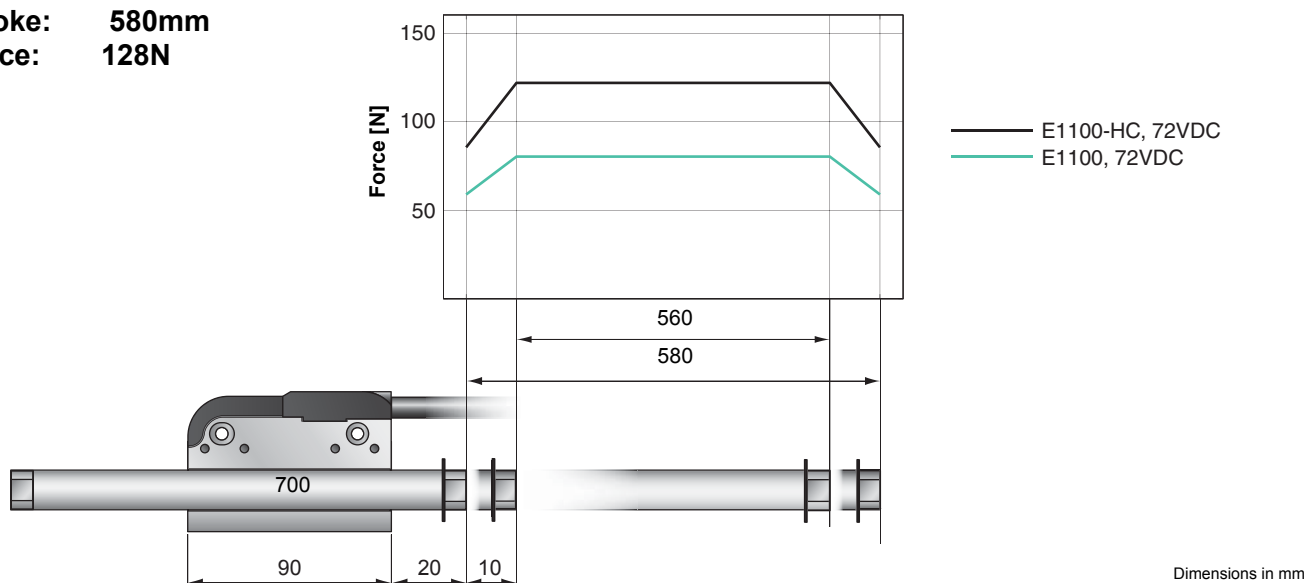


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x600/540-HP	High Performance Slider	0150-1510
PL02-20x600/540-HP	High Performance Slider, Heavy Duty	on request

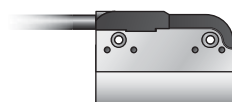
Max. Stroke: 580mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	560 (22.05)
Extended Stroke ES	mm (in)	580 (22.83)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	700 (27.56)
Slider Mass	g (lb)	1580 (3.48)

Ordering Information

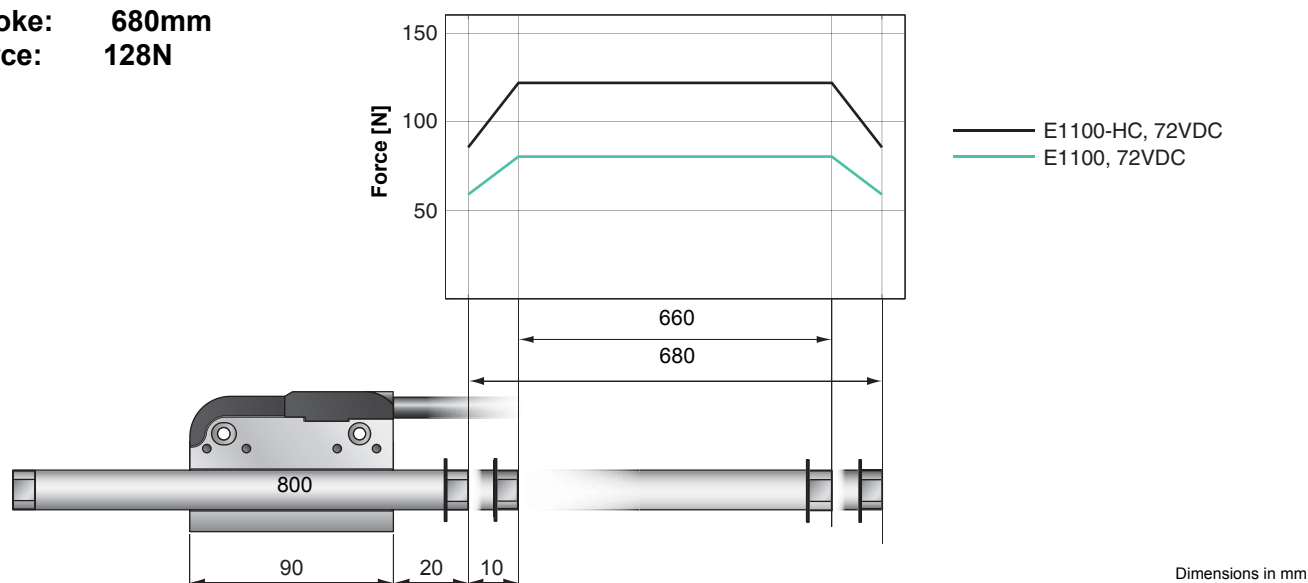


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x700/640-HP	High Performance Slider	0150-1511
PL02-20x700/640-HP	High Performance Slider, Heavy Duty	on request

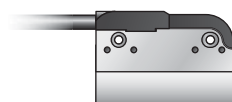
Max. Stroke: 680mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	660 (25.98)
Extended Stroke ES	mm (in)	680 (26.77)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	800 (31.50)
Slider Mass	g (lb)	1810 (3.99)

Ordering Information

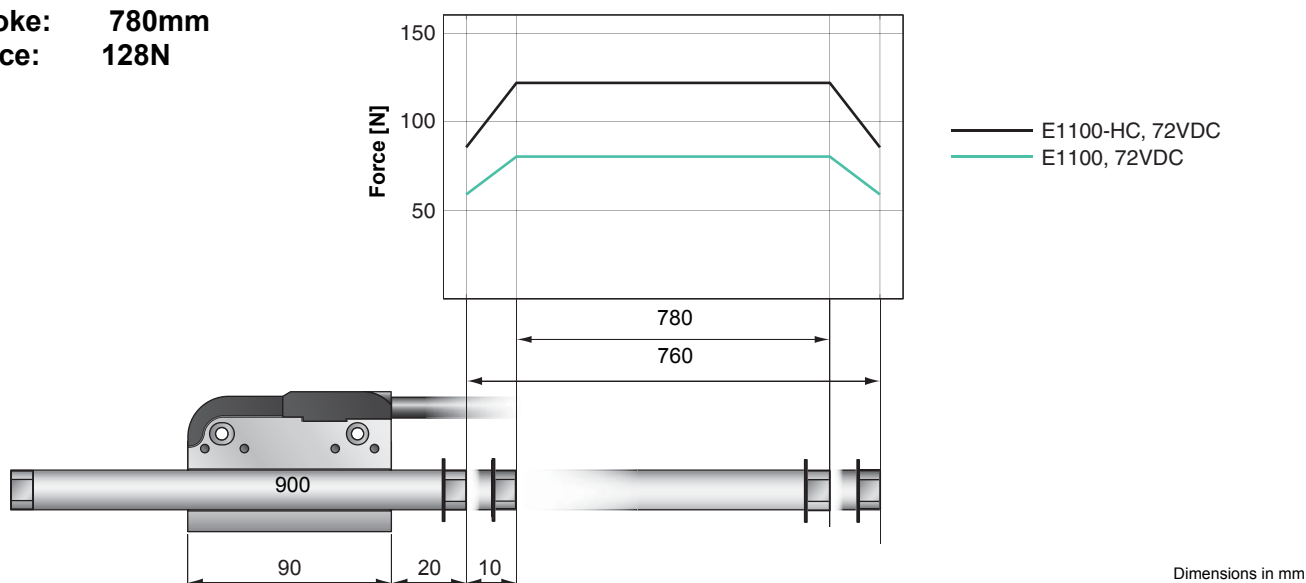


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x800/740-HP	High Performance Slider	0150-1512
PL02-20x800/740-HP	High Performance Slider, Heavy Duty	on request

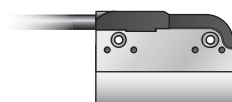
Max. Stroke: 780mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	760 (29.92)
Extended Stroke ES	mm (in)	780 (30.71)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	900 (35.43)
Slider Mass	g (lb)	2040 (4.50)

Ordering Information

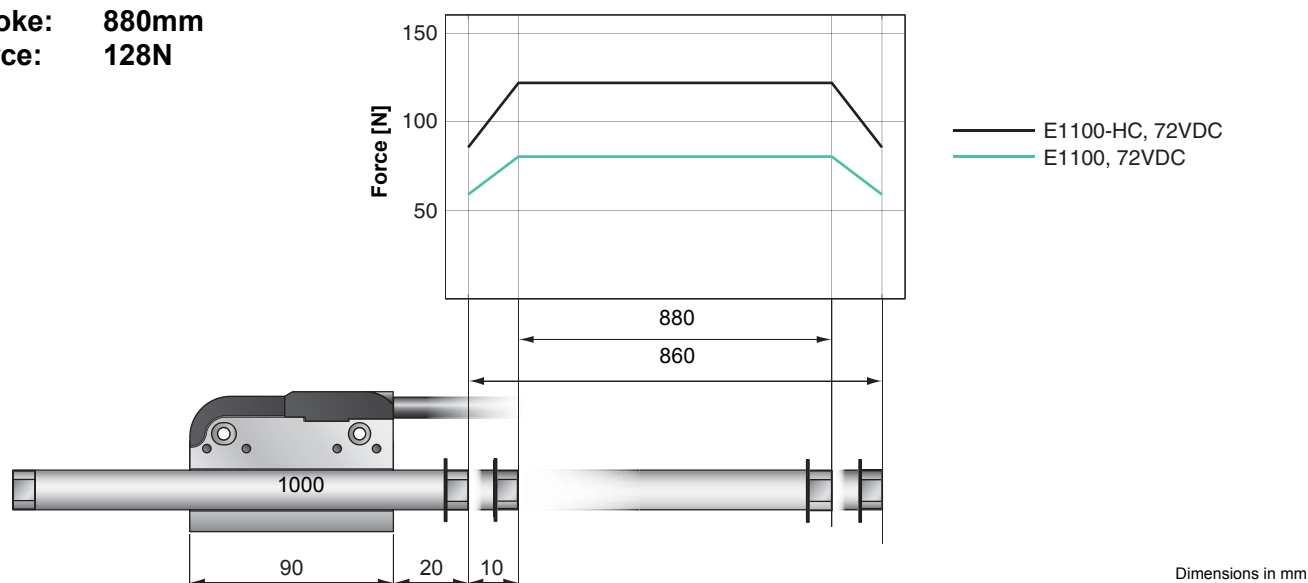


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x900/840-HP	High Performance Slider	0150-1513
PL02-20x900/840-HP	High Performance Slider, Heavy Duty	on request

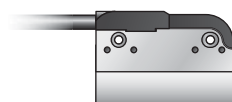
Max. Stroke: 880mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	860 (33.86)
Extended Stroke ES	mm (in)	880 (34.65)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	1000 (39.37)
Slider Mass	g (lb)	2270 (5.00)

Ordering Information

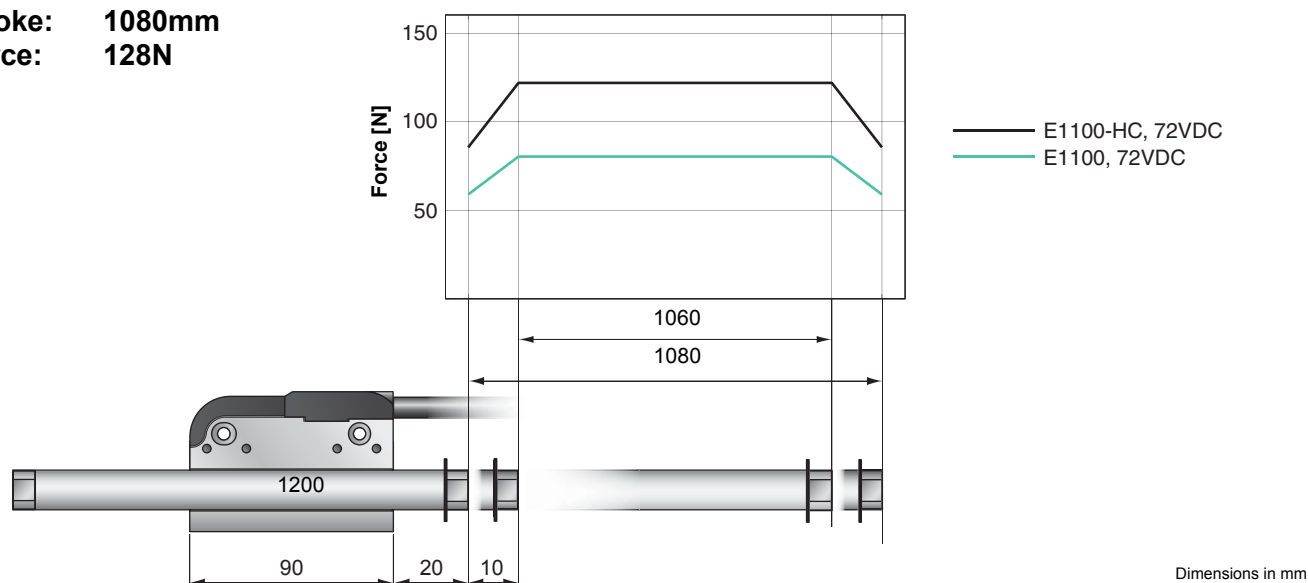


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x1000/940-HP	High Performance Slider	0150-1514
PL02-20x1000/940-HP	High Performance Slider, Heavy Duty	on request

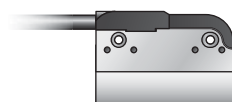
Max. Stroke: 1080mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	1060 (41.73)
Extended Stroke ES	mm (in)	1080 (42.52)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	1200 (47.24)
Slider Mass	g (lb)	2740 (6.04)

Ordering Information

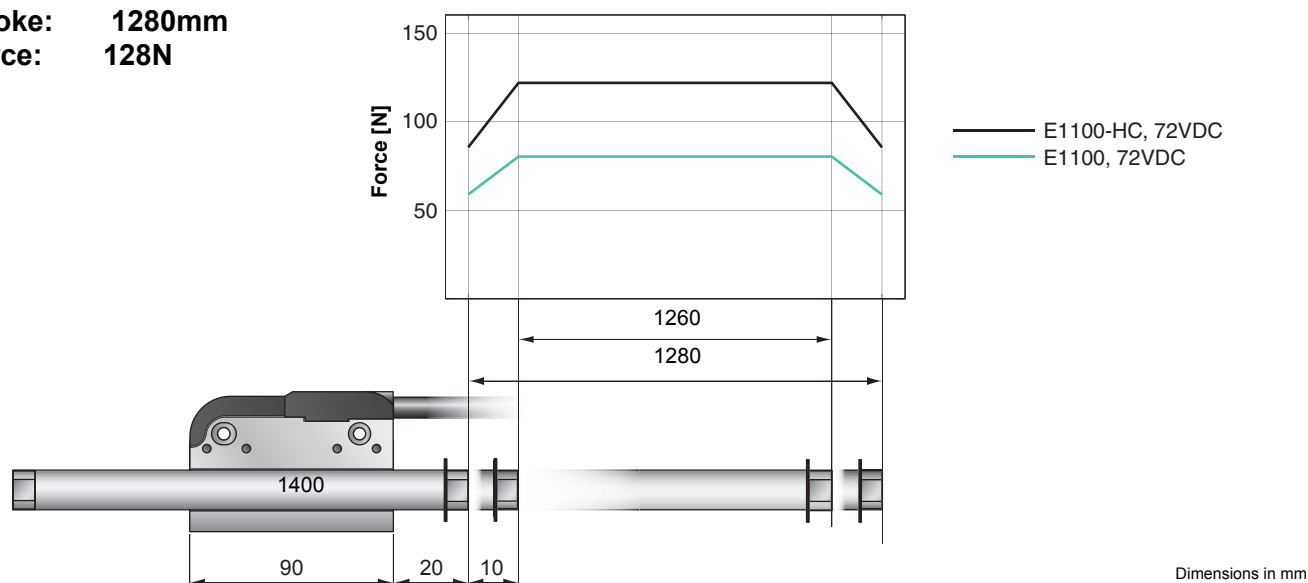


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x1200/1140-HP	High Performance Slider	0150-1515
PL02-20x1200/1140-HP	High Performance Slider, Heavy Duty	on request

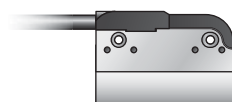
Max. Stroke: 1280mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	1260 (49-61)
Extended Stroke ES	mm (in)	1280 (50.39)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	1400 (55.12)
Slider Mass	g (lb)	3170 (6.99)

Ordering Information

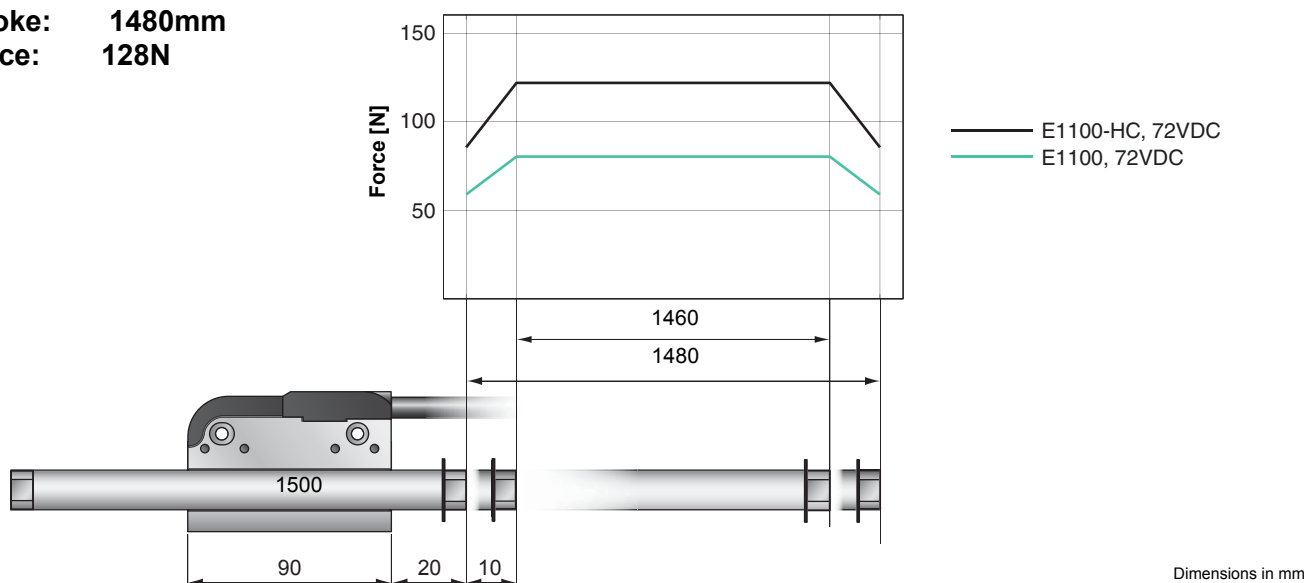


PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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PL01-20x1400/1340-HP	High Performance Slider	0150-1516
PL02-20x1400/1340-HP	High Performance Slider, Heavy Duty	on request

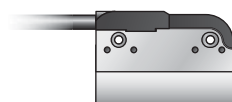
Max. Stroke: 1480mm
Max. Force: 128N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	1460 (57.48)
Extended Stroke ES	mm (in)	1480 (58.27)
Max. Force	N (lbf)	128 (28.8)
Cont. Force	N (lbf)	16.7 (3.75)
Cont. Force with fan	N (lbf)	30 (6.74)
Max. Velocity	m/s (in/s)	5.0
Max. Current	A	9.5
Cont. Current	A	1.25
Cont. Current with fan	A	2.25
Force Constant	N/A (lbf/A)	13.4 (3.01)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	1600 (62.99)
Slider Mass	g (lb)	3640 (8.02)

Ordering Information



PS01-37Sx60-HP-N	Stator HP with N-connector IP50	0150-1295
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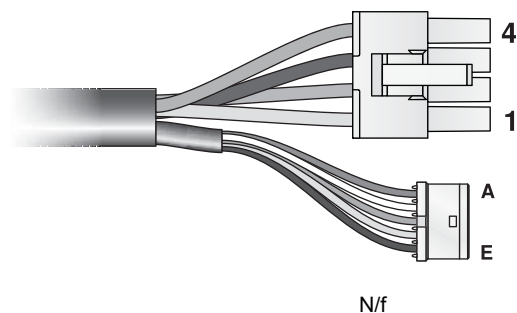


PL01-20x1600/1540-HP	High Performance Slider	0150-1517
PL02-20x1600/1540-HP	High Performance Slider, Heavy Duty	on request

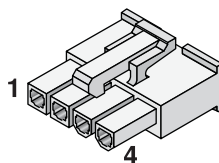


N-Connector

Motor Connector Wiring

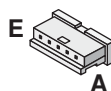


Power Connector



Pin 4	red	Phase 1+
Pin 3	pink	Phase 1-
Pin 2	blue	Phase 2+
Pin 1	grey	Phase 2-

Signal Connector



Pin A	white	+5V
Pin B	inner Shield	Ground
Pin C	yellow	Sensor Sin
Pin D	green	Sensor Cos
Pin E	black	Temp sensor
case	outerShield	shield

Ordering Information

High Flex Motor Cable directly to the Drive

Item	Description	Part Number
KS05-W/N-2	High Flex cable W/N, 2m	0150-2296
KS05-W/N-4	High Flex cable W/N, 4m	0150-2297
KS05-W/N-6	High Flex cable W/N, 6m	0150-2298
KS05-W/N-8	High Flex cable W/N, 8m	0150-2299
KS05-W/N-	High Flex cable W/N. Custom Length	0150-3412

Connectors & Cable

KS05-04/05	High Flex cable per m	0150-1938
KR05-W/R-	Robot cable W/R, per m	0150-3406
MC01-N/f	N/f connector	0150-3407
MC01-N/f-as	N/f connector, assembled	0150-3408



Series P01-37Sx120F-HP 262

P01-37Sx120F/40x120-HP 265

P01-37Sx120F/100x180-HP 266

P01-37Sx120F/160x240-HP 267

P01-37Sx120F/200x280-HP 268

P01-37Sx120F/300x380-HP 269

P01-37Sx120F/400x480-HP 270

P01-37Sx120F/500x580-HP 271

P01-37Sx120F/600x680-HP 272

P01-37Sx120F/700x780-HP 273

P01-37Sx120F/800x880-HP 274

P01-37Sx120F/1000x1080-HP 275

P01-37Sx120F/1200x1280-HP 276

P01-37Sx120F/1400x1480-HP 277

Motor Cable 278



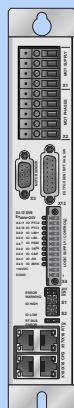
Motor Specification

		P01-37Sx120F-HP/...
Maximum Stroke	mm (in)	1480 (58.27)
Maximum Force	N (lbf)	255 (57.3)
Maximum Velocity	m/s (in/s)	3.2 (126)
Max. Current	A	15
Cont. Current	A	2.35
Phase Resist. 25 °C	Ohm	2.4
Phase Resist. 110 °C	Ohm	3.1
Phase Inductance	mH	1.6
Thermal Resistance	°K/W	3.2
Thermal Time Const.	sec	1800
Stator Diameter	mm (in)	37 (1.46) / 38 (1.50)
Stator Length	mm (in)	150 (5.91)
Stator Mass	g (lb)	792
Slider Diameter	mm (in)	20 (0.79)
Position Resolution	mm (in)	0.01
Position Repeatability	mm (in)	±0.05 (±0.0020)
Position Resolution ES	mm (in)	0.001
Repeatability with EPS	mm (in)	±0.01 (±0.0004)

Accessories



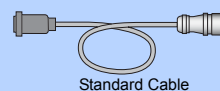
Servo Drive:
E1100



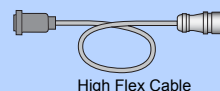
E1200



B1100-HC



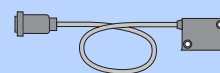
Standard Cable



High Flex Cable

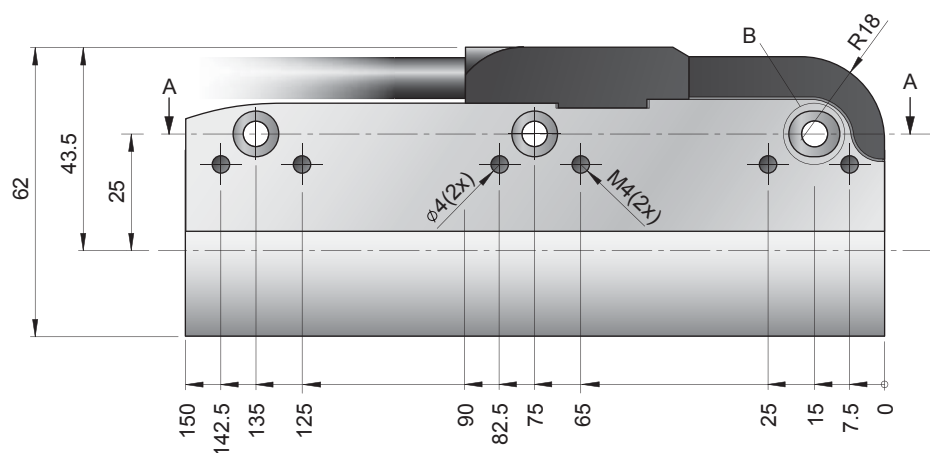
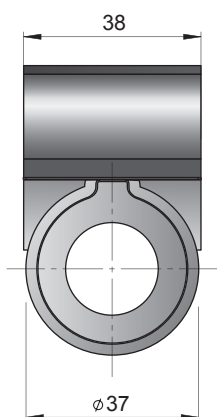


Robotic Cable

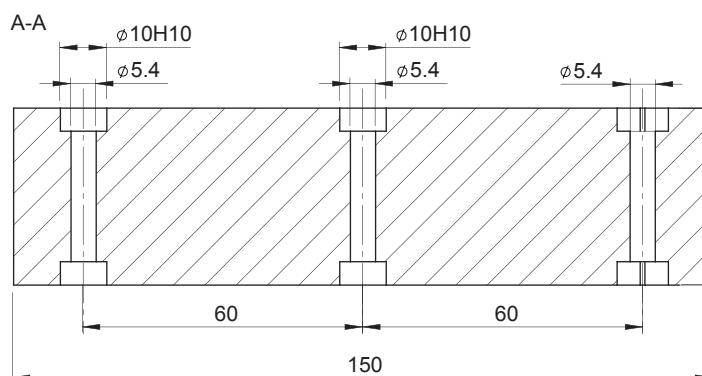
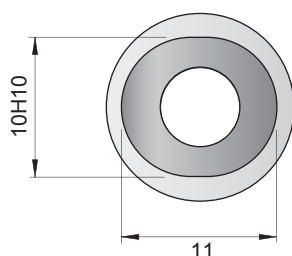


Optional Linear Encoder

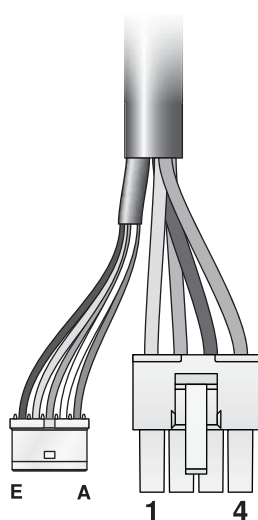
Stator



Detail B



N-Connector



Motor Connector Wiring

Pin 4	red	Phase 1+
Pin 3	pink	Phase 1-
Pin 2	blue	Phase 2+
Pin 1	grey	Phase 2-

Pin A	white	+5V
Pin B	inner Shield	GND
Pin C	yellow	Sensor Sin
Pin D	green	Sensor Cos
Pin E	black	Temp sensor
case	outer Shield	shield

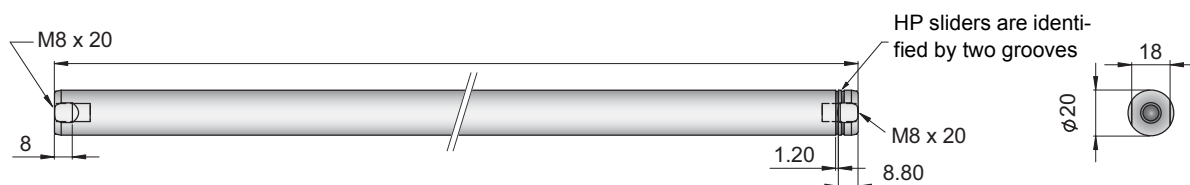
Stators are shipped with three covers for left/right/straight cable outlet



Ordering Information

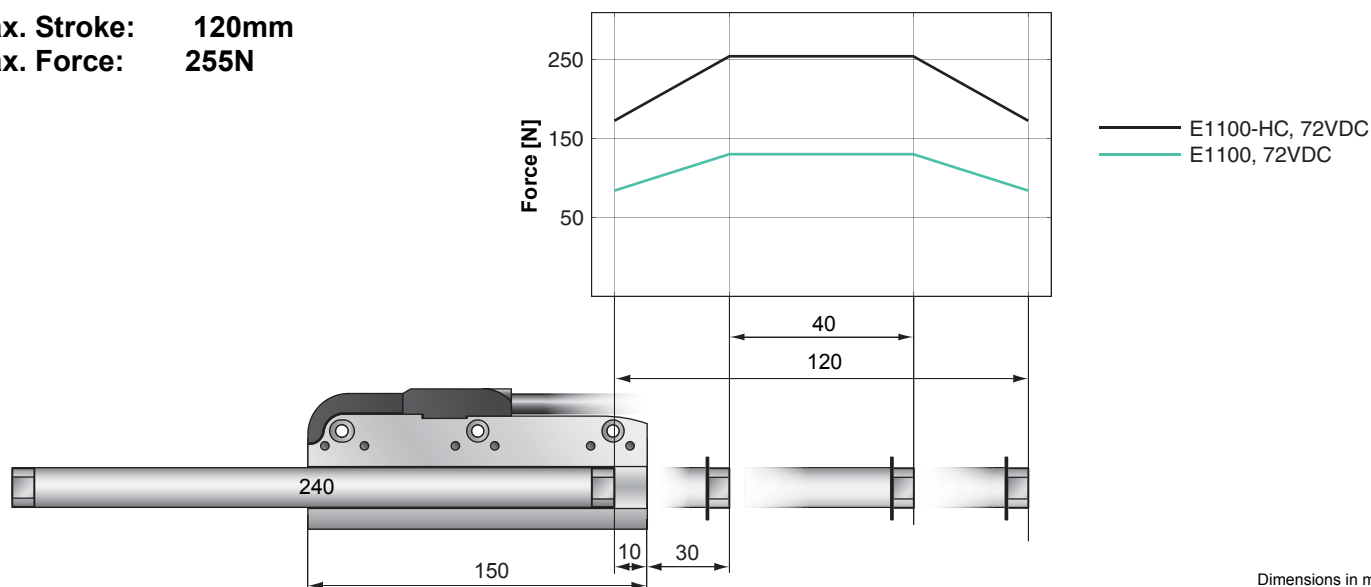
Item	Description	Part Number
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296

Sliders



High Performance Slider		Length [mm]	Stroke [mm]	Part Number
PL01-20x240/180-HP	slider "High Performance"	240	40x120	0150-1505
PL01-20x300/240-HP	slider "High Performance"	300	100x180	0150-1506
PL01-20x360/300-HP	slider "High Performance"	360	160x240	0150-1507
PL01-20x400/340-HP	slider "High Performance"	400	200x280	0150-1508
PL01-20x500/440-HP	slider "High Performance"	500	300x380	0150-1509
PL01-20x600/540-HP	slider "High Performance"	600	400x480	0150-1510
PL01-20x700/640-HP	slider "High Performance"	700	500x580	0150-1511
PL01-20x800/740-HP	slider "High Performance"	800	600x680	0150-1512
PL01-20x900/840-HP	slider "High Performance"	900	700x780	0150-1513
PL01-20x1000/940-HP	slider "High Performance"	1000	800x880	0150-1514
PL01-20x1200/1140-HP	slider "High Performance"	1200	1000x1080	0150-1515
PL01-20x1400/1340-HP	slider "High Performance"	1400	1200x1280	0150-1516
PL01-20x1600/1540-HP	slider "High Performance"	1600	1400x1480	0150-1517

Max. Stroke: 120mm
Max. Force: 255N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	40 (1.57)
Extended Stroke ES	mm (in)	120 (4.72)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	240 (8.45)
Slider Mass	g (lb)	510 (1.12)

Ordering Information



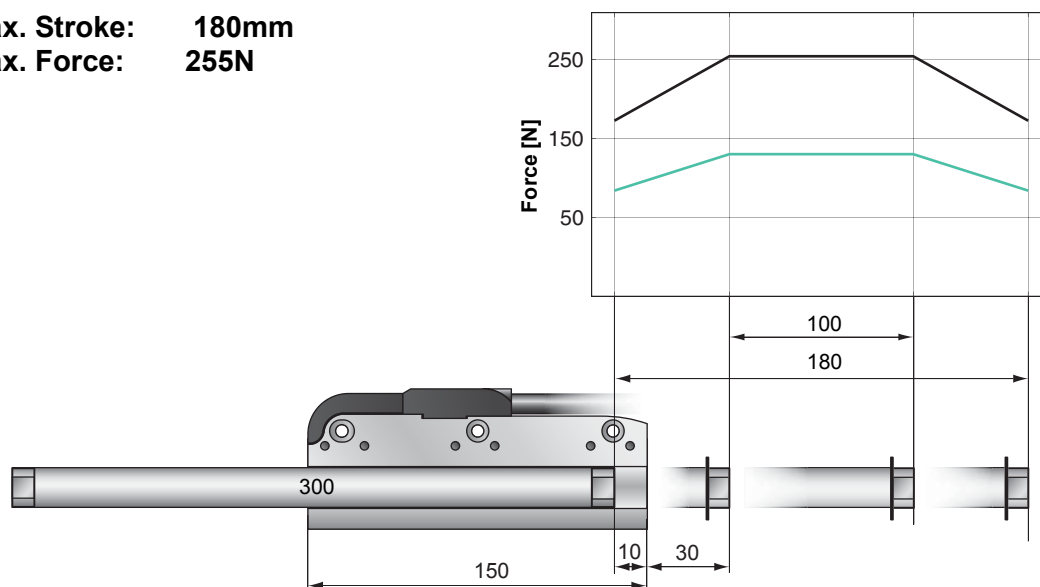
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x240/180-HP	High Performance Slider	0150-1505
PL02-20x240/180-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 180mm

Max. Force: 255N



— E1100-HC, 72VDC
— E1100, 72VDC

Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	100 (3.94)
Extended Stroke ES	mm (in)	180 (7.09)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	300 (11.81)
Slider Mass	g (lb)	650 (1.43)

Ordering Information

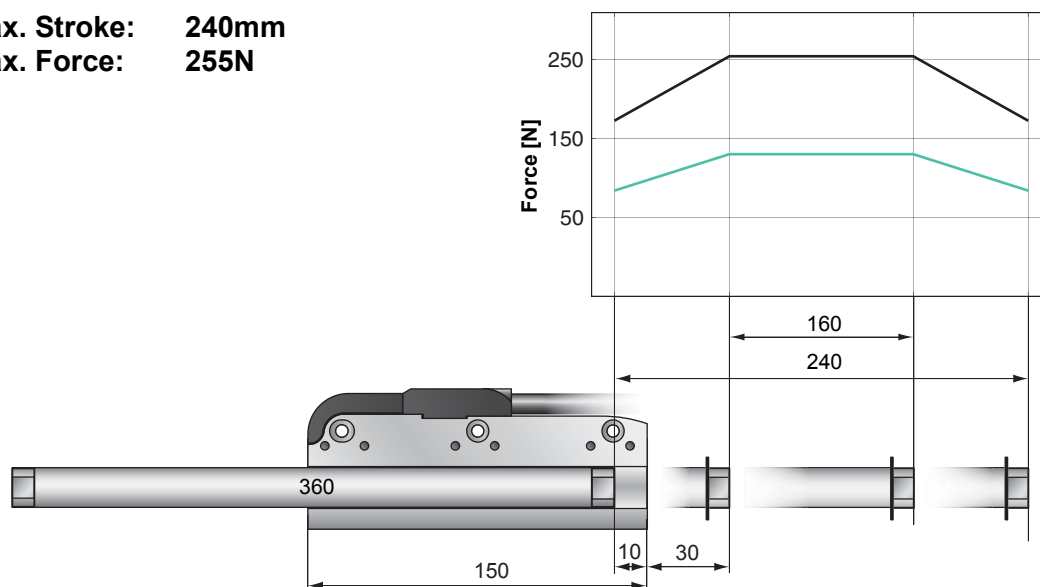


PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x300/240-HP	High Performance Slider	0150-1506
PL02-20x300/240-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 240mm
Max. Force: 255N



Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	160 (6.30)
Extended Stroke ES	mm (in)	240 (9.45)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	360 (14.17)
Slider Mass	g (lb)	800 (1.76)

Ordering Information



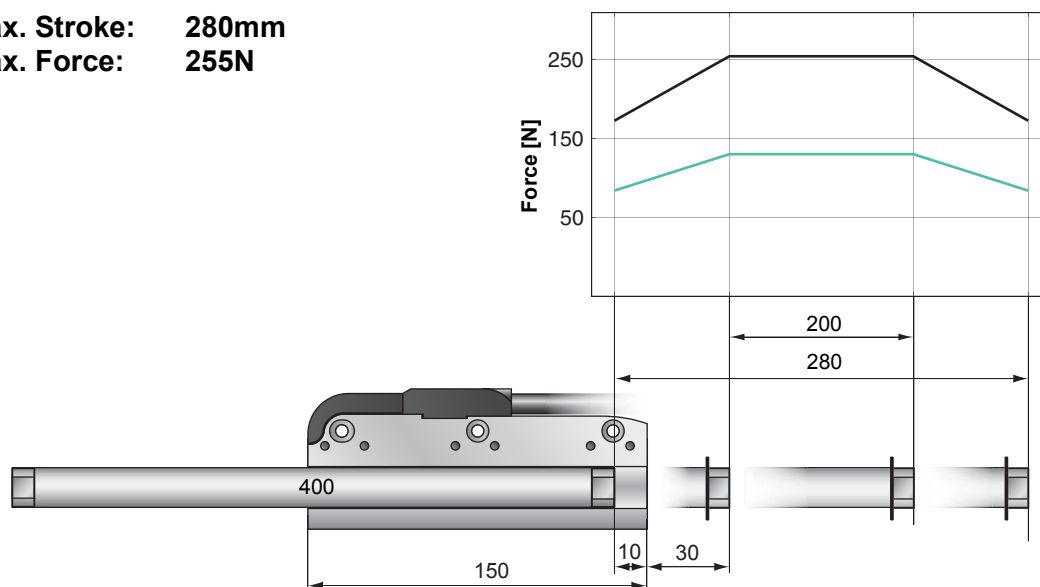
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x360/300-HP	High Performance Slider	0150-1507
PL02-20x360/300-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 280mm

Max. Force: 255N



Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	200 (7.87)
Extended Stroke ES	mm (in)	280 (11.02)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	400 (15.75)
Slider Mass	g (lb)	880 (1.94)

Ordering Information



PS01-37Sx120F-HP-N

Stator HP with N-connector IP50

0150-1296



PL01-20x400/340-HP

High Performance Slider

0150-1508

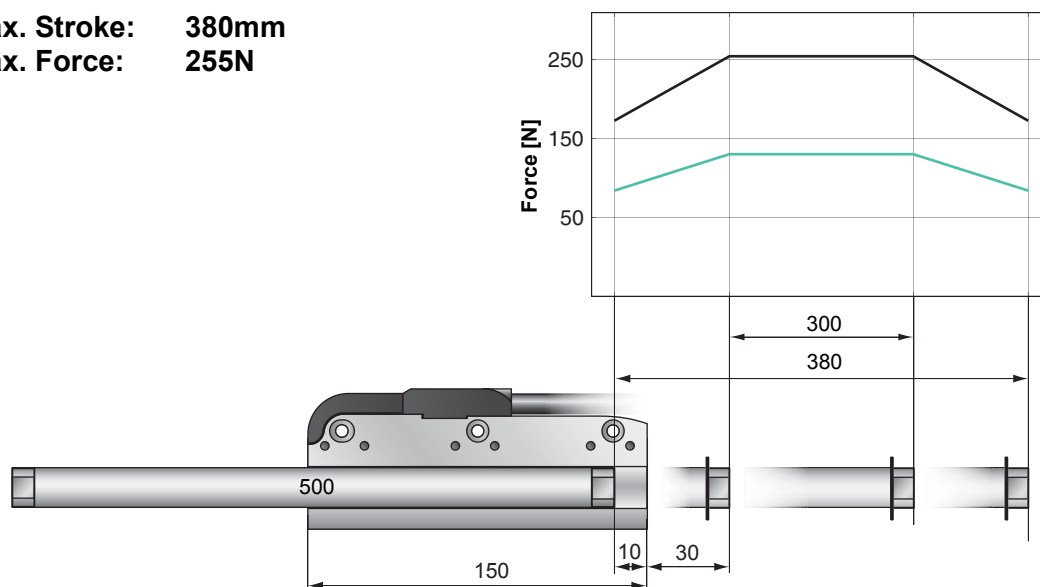
PL02-20x400/340-HP

High Performance Slider, Heavy Duty

on request

Max. Stroke: 380mm

Max. Force: 255N



Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	300 (11.81)
Extended Stroke ES	mm (in)	380 (14.96)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	500 (19.69)
Slider Mass	g (lb)	1110 (2.45)

Ordering Information



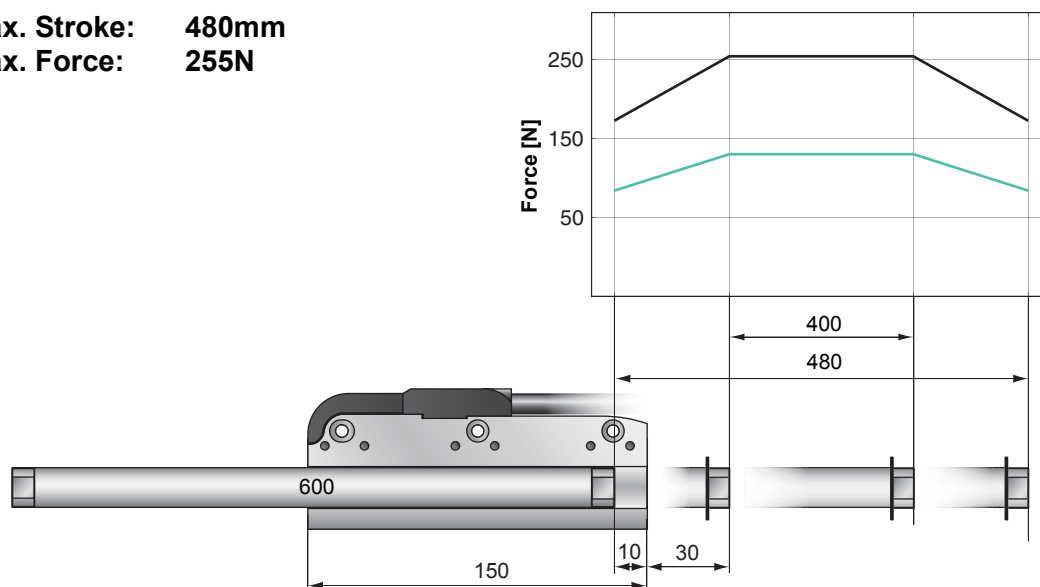
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x500/440-HP	High Performance Slider	0150-1509
PL02-20x500/440-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 480mm

Max. Force: 255N



Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	400 (15.75)
Extended Stroke ES	mm (in)	480 (18.90)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	600 (23.62)
Slider Mass	g (lb)	1350 (2.98)

Ordering Information

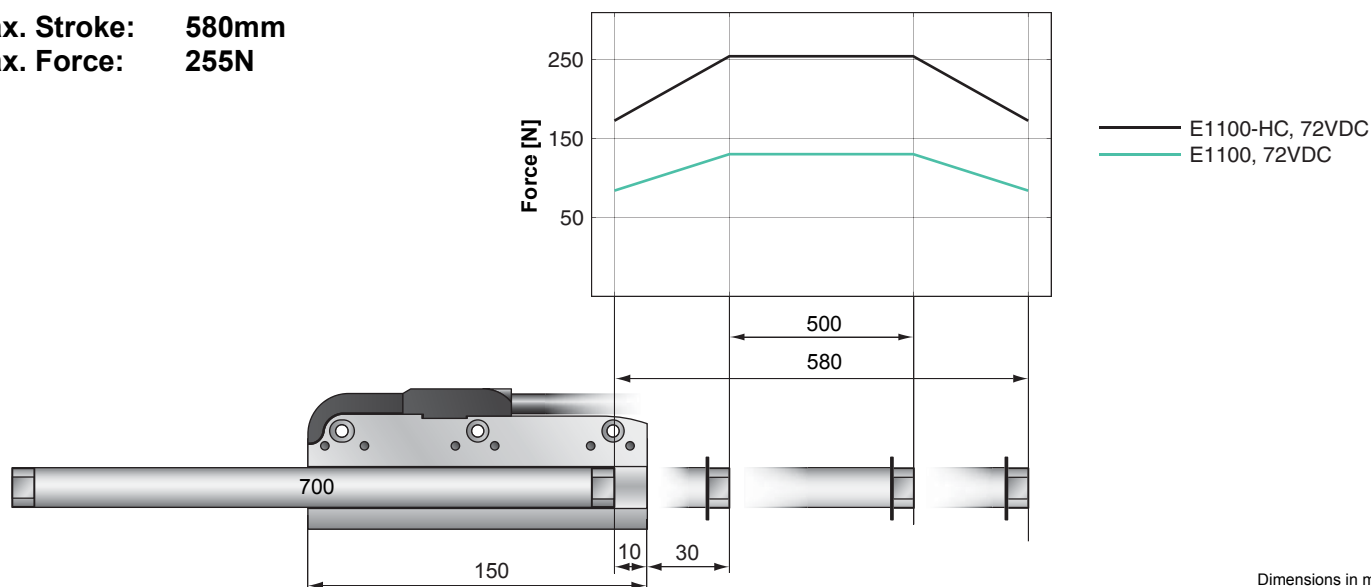


PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x600/540-HP	High Performance Slider	0150-1510
PL02-20x600/540-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 580mm
Max. Force: 255N



Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	500 (19.69)
Extended Stroke ES	mm (in)	580 (22.83)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	700 (27.56)
Slider Mass	g (lb)	1580 (3.48)

Ordering Information

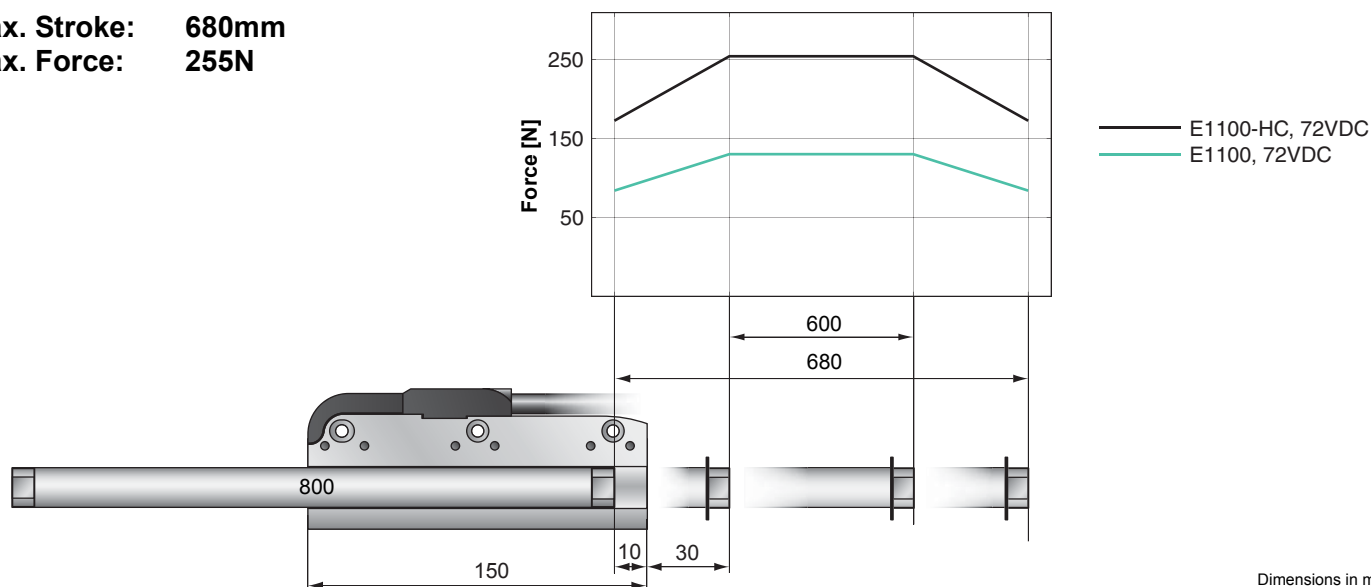


PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x700/640-HP	High Performance Slider	0150-1511
PL02-20x700/640-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 680mm
Max. Force: 255N



Motor Specification

Stator		Standard Winding
Slider		High Performance
		High Performance Heavy Duty
Standard Stroke SS	mm (in)	600 (23.62)
Extended Stroke ES	mm (in)	680 (26.77)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	800 (31.50)
Slider Mass	g (lb)	1810 (3.99)

Ordering Information

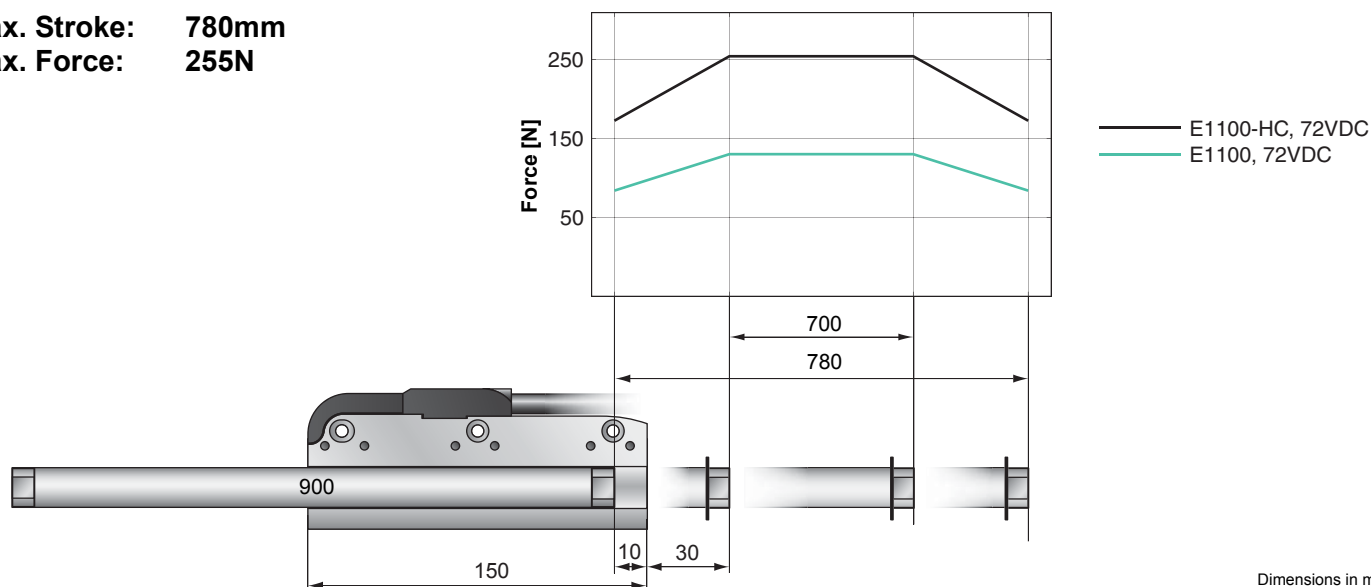


PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x800/740-HP	High Performance Slider	0150-1512
PL02-20x800/740-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 780mm
Max. Force: 255N



Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	700 (27.56)
Extended Stroke ES	mm (in)	780 (30.71)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	900 (35.43)
Slider Mass	g (lb)	2040 (4.50)

Ordering Information



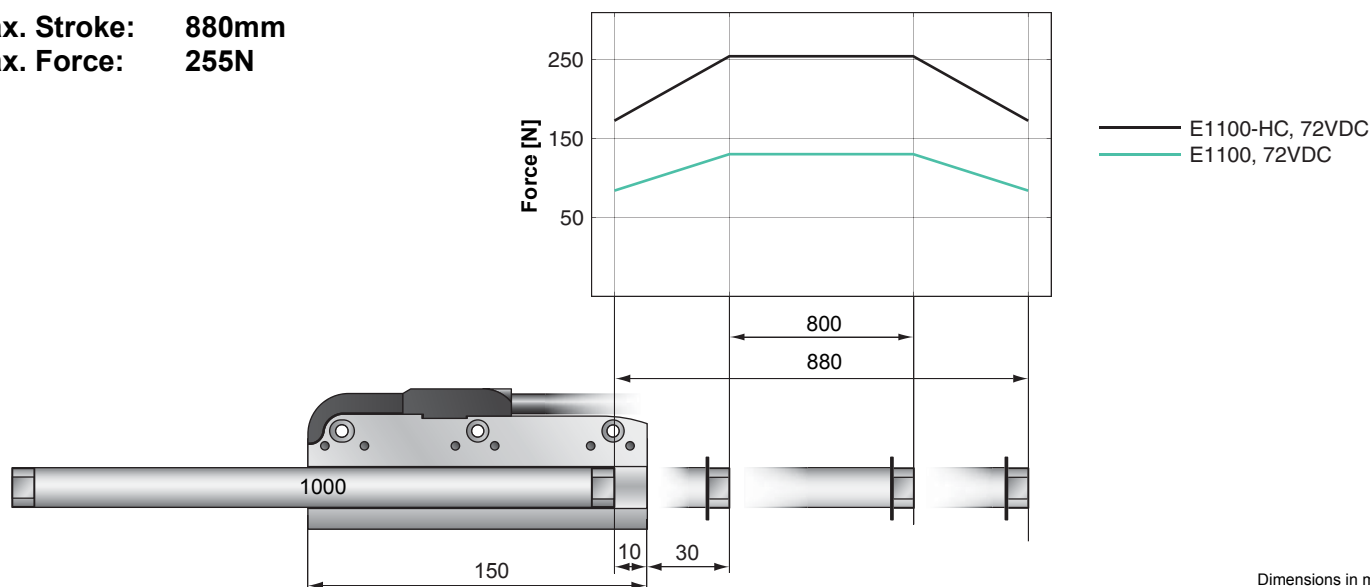
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x900/840-HP	High Performance Slider	0150-1513
PL01-20x900/840-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 880mm

Max. Force: 255N



Motor Specification

Stator		Standard Winding
Slider		High Performance
		High Performance Heavy Duty
Standard Stroke SS	mm (in)	800 (31.50)
Extended Stroke ES	mm (in)	880 (34.65)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	1000 (39.37)
Slider Mass	g (lb)	2270 (5.00)

Ordering Information

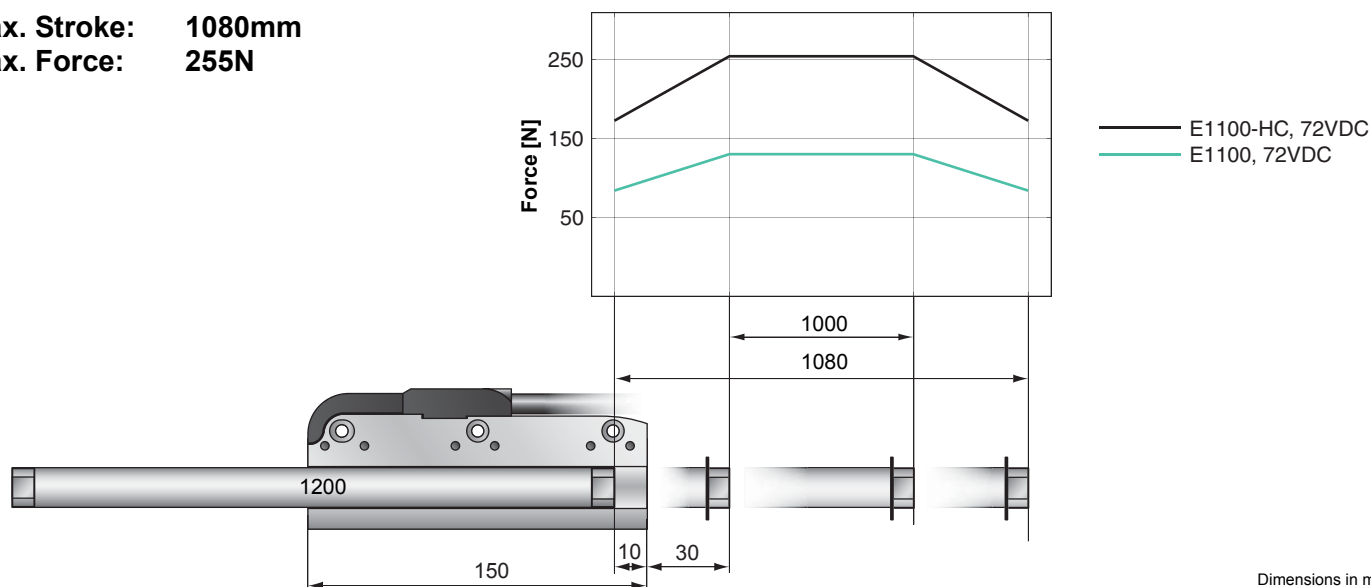


PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x1000/940-HP	High Performance Slider	0150-1514
PL02-20x1000/940-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 1080mm
Max. Force: 255N



Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	1000 (39.37)
Extended Stroke ES	mm (in)	1080 (42.52)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	1200 (47.24)
Slider Mass	g (lb)	2740 (6.04)

Ordering Information

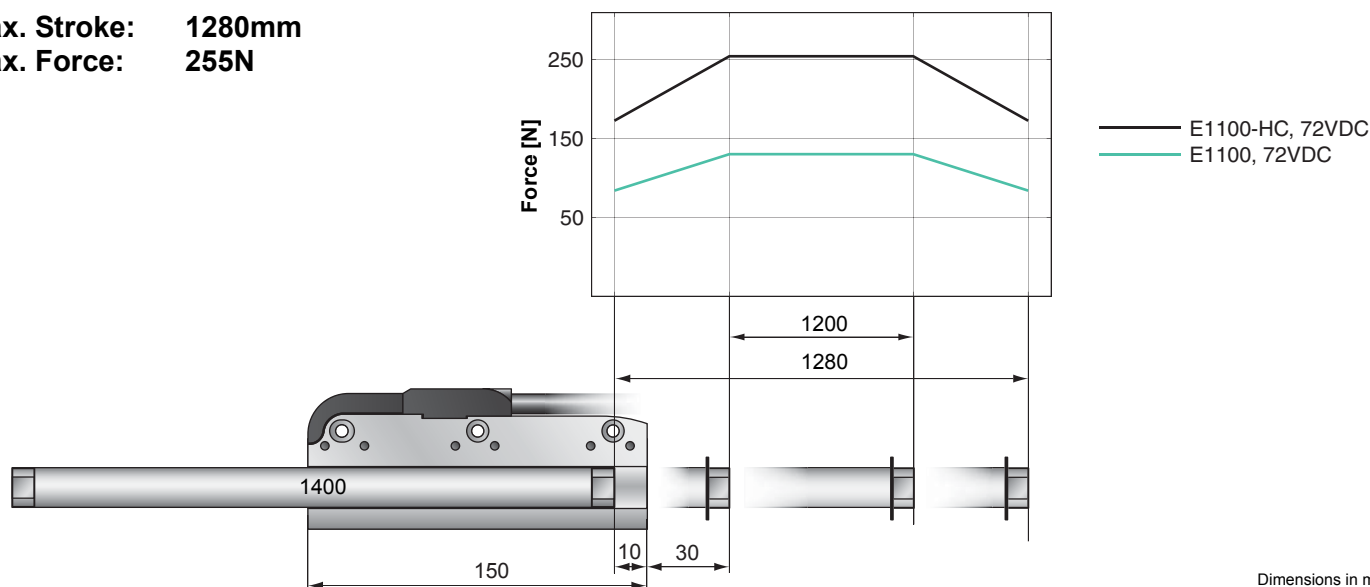


PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x1200/1140-HP	High Performance Slider	0150-1515
PL02-20x1200/1140-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 1280mm
Max. Force: 255N



Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance
		High Performance Heavy Duty
Standard Stroke SS	mm (in)	1200 (47.24)
Extended Stroke ES	mm (in)	1280 (50.39)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	1400 (55.12)
Slider Mass	g (lb)	3170 (6.99)

Ordering Information

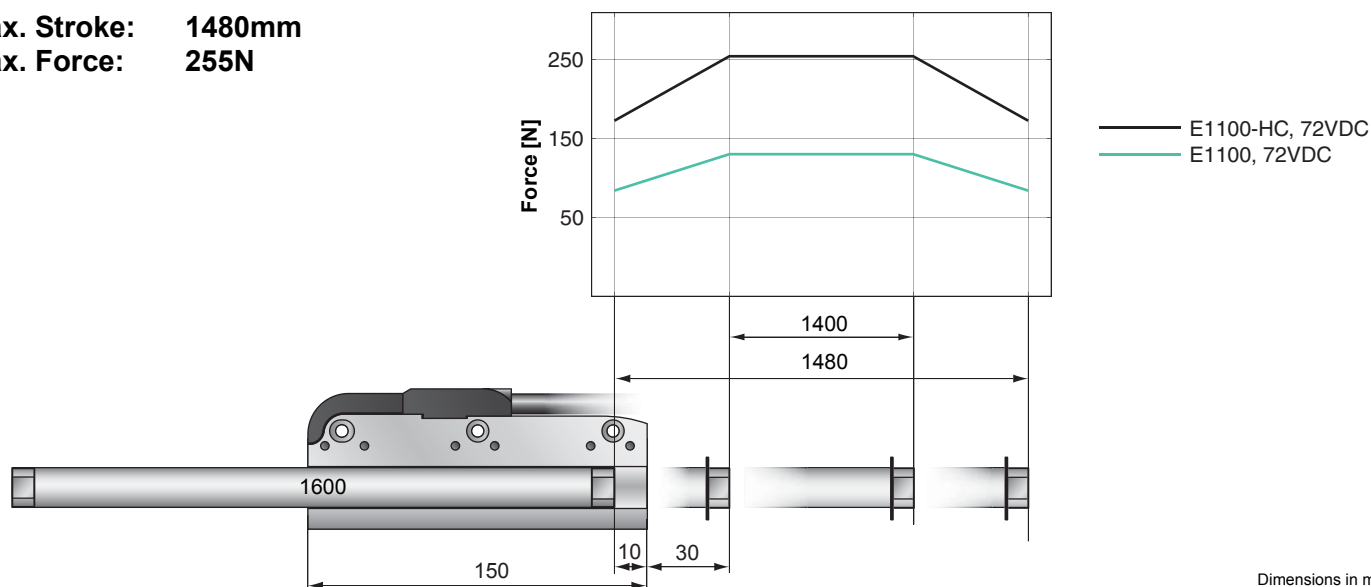


PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x1400/1340-HP	High Performance Slider	0150-1516
PL02-20x1400/1340-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 1480mm
Max. Force: 255N



Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	1400 (55.12)
Extended Stroke ES	mm (in)	1480 (58.27)
Max. Force	N (lbf)	255 (57.3)
Cont. Force	N (lbf)	35 (7.87)
Cont. Force with fan	N (lbf)	65 (14.6)
Max. Velocity	m/s (in/s)	3.9 (154)
Max. Current	A _{pk}	15
Cont. Current	A _{pk}	2.35
Cont. Current with fan	A _{pk}	4.10
Force Constant	N/A (lbf/A)	17 (3.83)
Border Force	%	67
Linearity	%	±0.1
Slider Length	mm (in)	1600 (62.99)
Slider Mass	g (lb)	3640 (8.02)

Ordering Information



PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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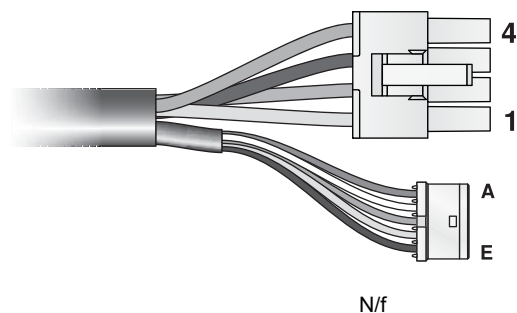


PL01-20x1600/1540-HP	High Performance Slider	0150-1517
PL02-20x1600/1540-HP	High Performance Slider, Heavy Duty	on request

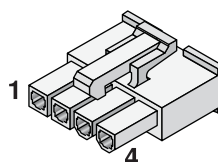


N-Connector

Motor Connector Wiring

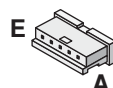


Power Connector



Pin 4	red	Phase 1+
Pin 3	pink	Phase 1-
Pin 2	blue	Phase 2+
Pin 1	grey	Phase 2-

Signal Connector



Pin A	white	+5V
Pin B	inner Shield	Ground
Pin C	yellow	Sensor Sin
Pin D	green	Sensor Cos
Pin E	black	Temp sensor
case	outerShield	shield

Ordering Information

High Flex Motor Cable directly to the Drive

Item	Description	Part Number
KS05-W/N-2	High Flex cable W/N, 2m	0150-2296
KS05-W/N-4	High Flex cable W/N, 4m	0150-2297
KS05-W/N-6	High Flex cable W/N, 6m	0150-2298
KS05-W/N-8	High Flex cable W/N, 8m	0150-2299
KS05-W/N-	High Flex cable W/N, Custom Length	0150-3412

Connectors & Cable

KS05-04/05	High Flex cable per m	0150-1938
KR05-W/R-	Robot cable W/R, per m	0150-3406
MC01-N/f	N/f connector	0150-3407
MC01-N/f-as	N/f connector, assembled	0150-3408