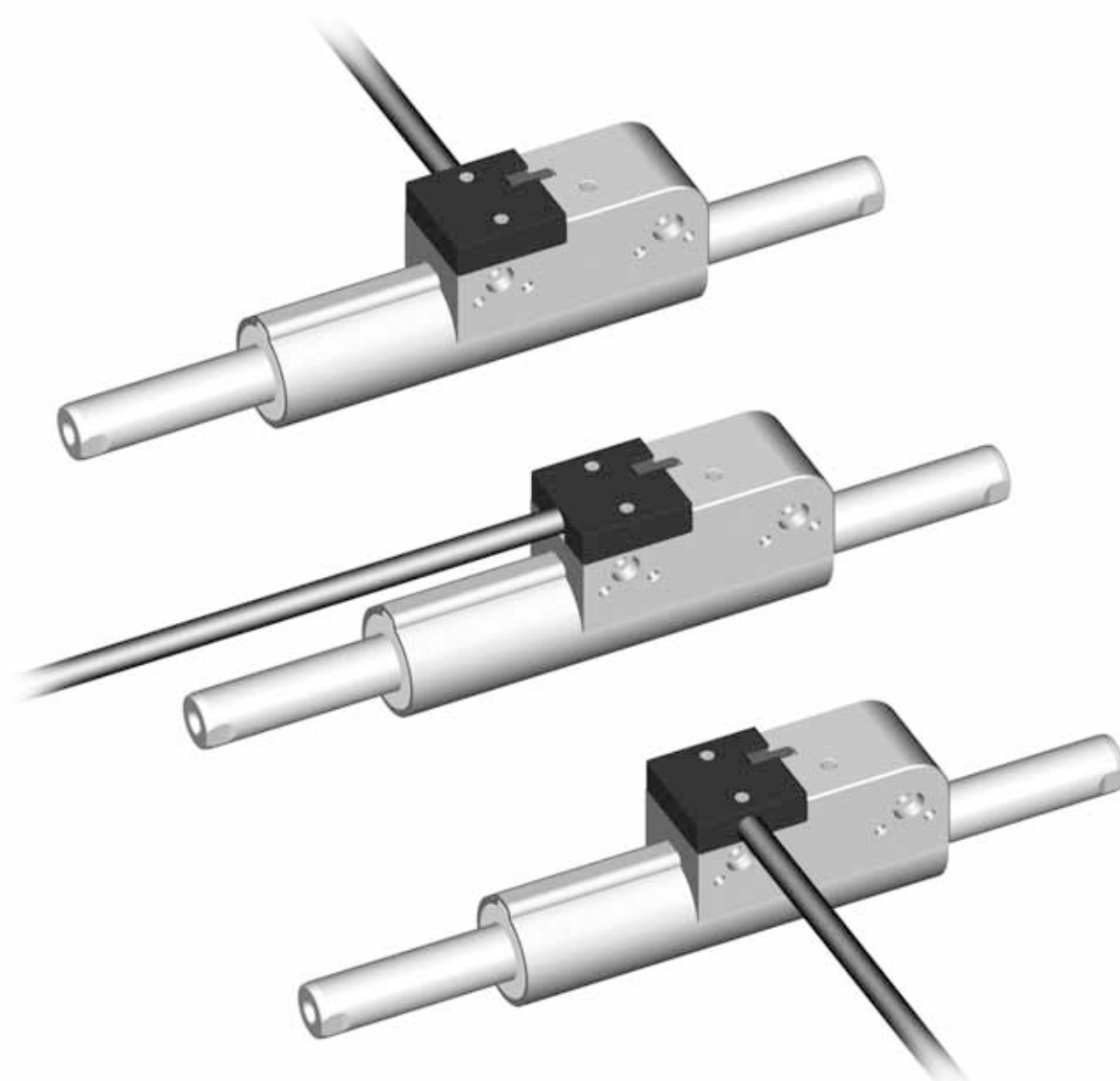




Series P01-37Sx120F-HP 260

P01-37Sx120F/40x120-HP 263

P01-37Sx120F/100x180-HP 264

P01-37Sx120F/160x240-HP 265

P01-37Sx120F/200x280-HP 266

P01-37Sx120F/300x380-HP 267

P01-37Sx120F/400x480-HP 268

P01-37Sx120F/500x580-HP 269

P01-37Sx120F/600x680-HP 270

P01-37Sx120F/700x780-HP 271

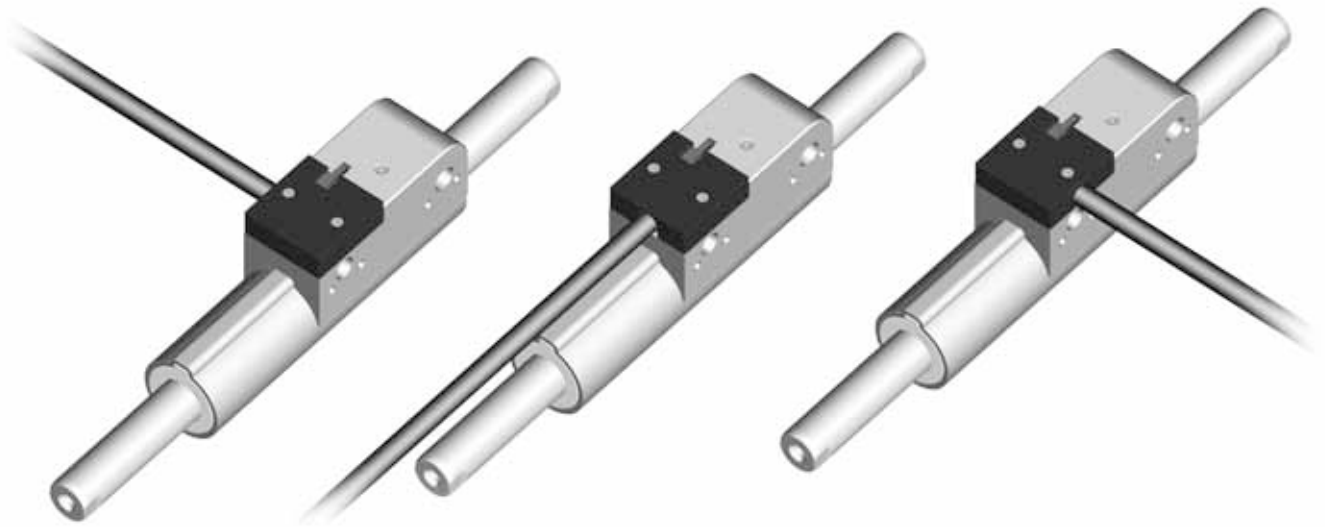
P01-37Sx120F/800x880-HP 272

P01-37Sx120F/1000x1080-HP 273

P01-37Sx120F/1200x1280-HP 274

P01-37Sx120F/1400x1480-HP 275

Motor Cable 276



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	4
Phase Resist. 25 °C	Ohm	2.3
Phase Resist. 80 °C	Ohm	3.2
Phase Inductance	mH	1.6
Thermal Resistance	°K/W	3.2
Thermal Time Const.	sec	4500
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



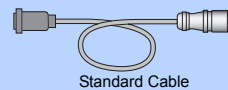
Servo Drive:
E1100



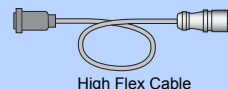
E1200



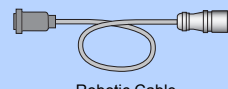
B1100-HC



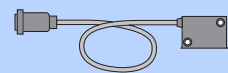
Standard Cable



High Flex Cable

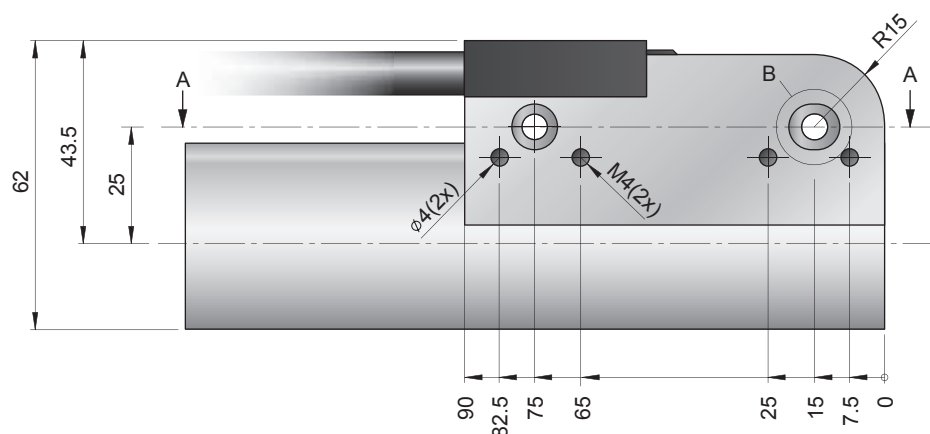
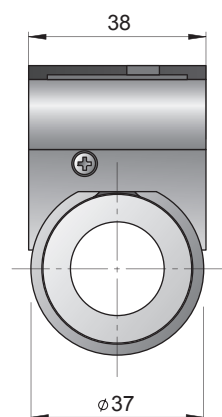


Robotic Cable

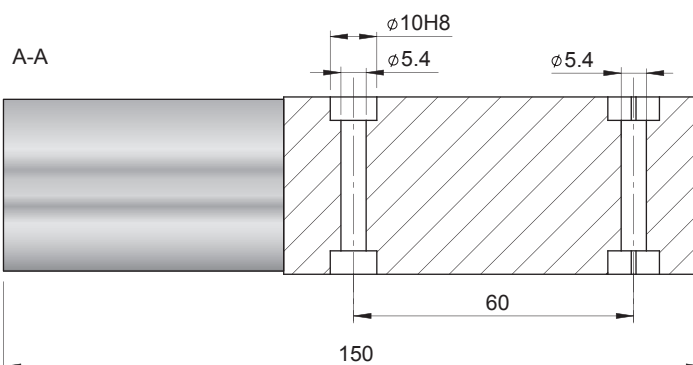
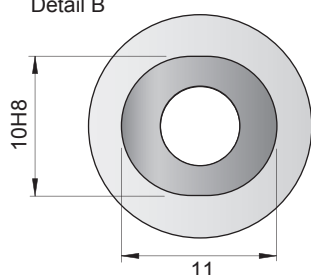


Optional Linear Encoder

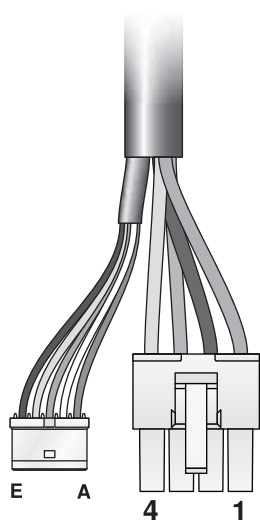
Stator



Detail B



N-Connector

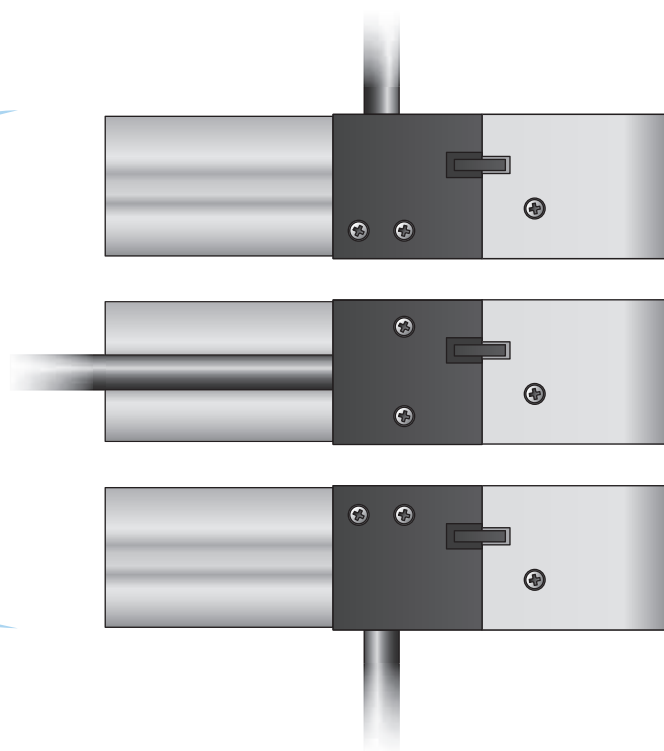


Motor Connector Wiring

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

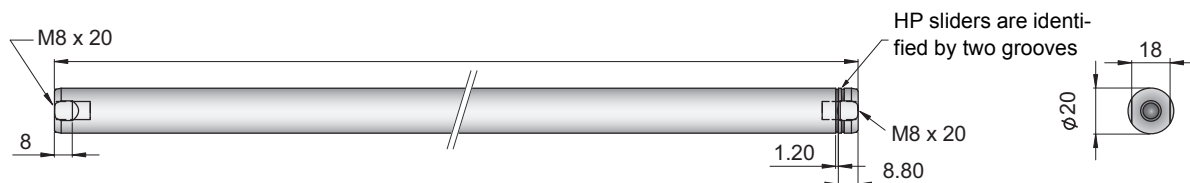
Stators are shipped with three covers for left/right/straight cable outlet



Ordering Information

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

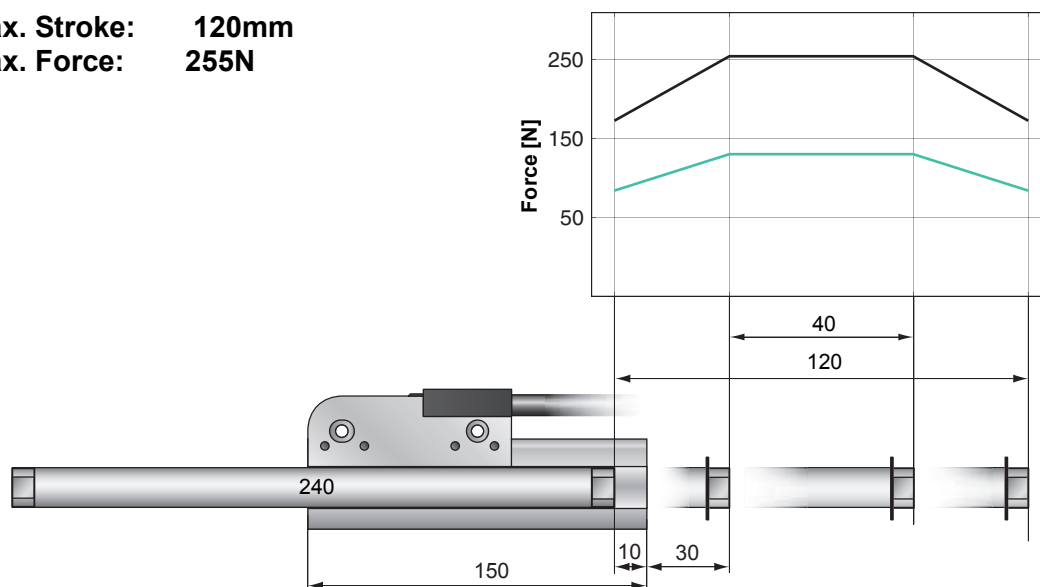
Sliders



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



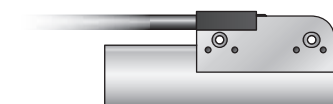
— E1100-HC, 72VDC
— E1100, 72VDC

Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	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

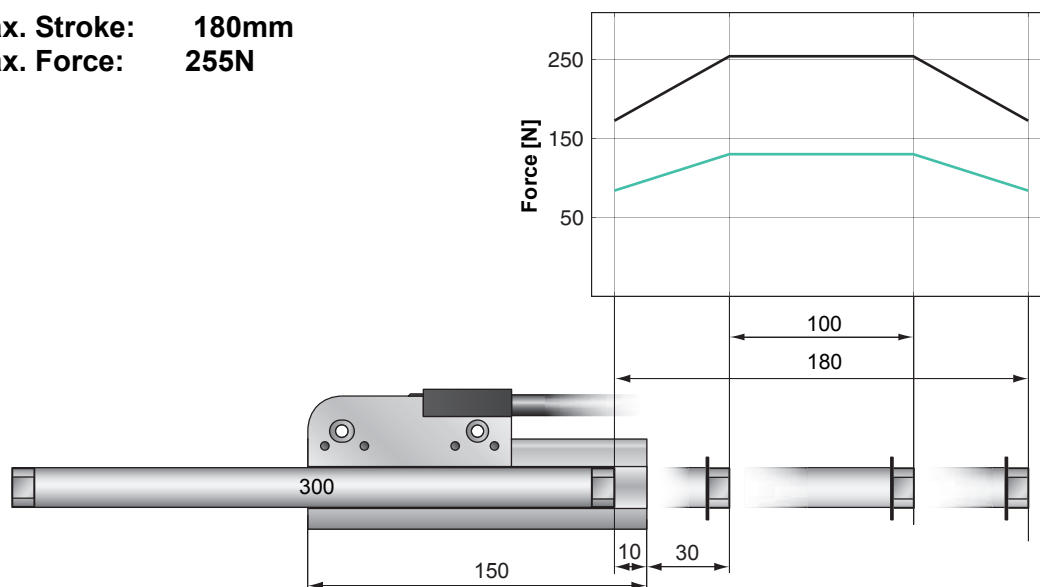


PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x240/180-HP	High Performance Slider	0150-1505
PL02-20x240/180-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 180mm
Max. Force: 255N

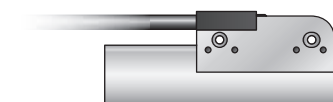


Dimensions in mm

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



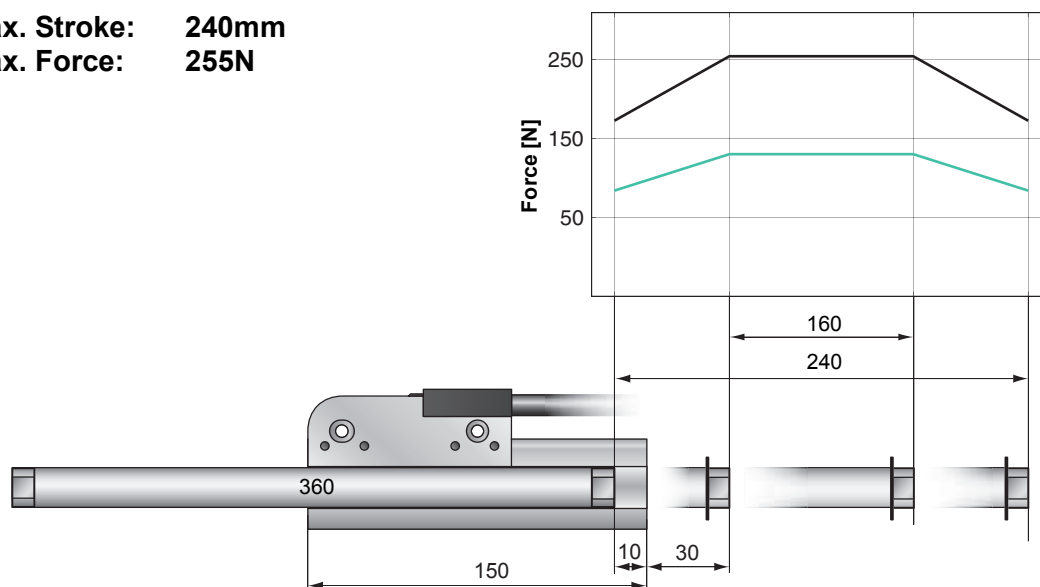
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x300/240-HP	High Performance Slider	0150-1506
PL02-20x300/240-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 240mm

Max. Force: 255N

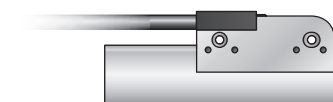


Dimensions in mm

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



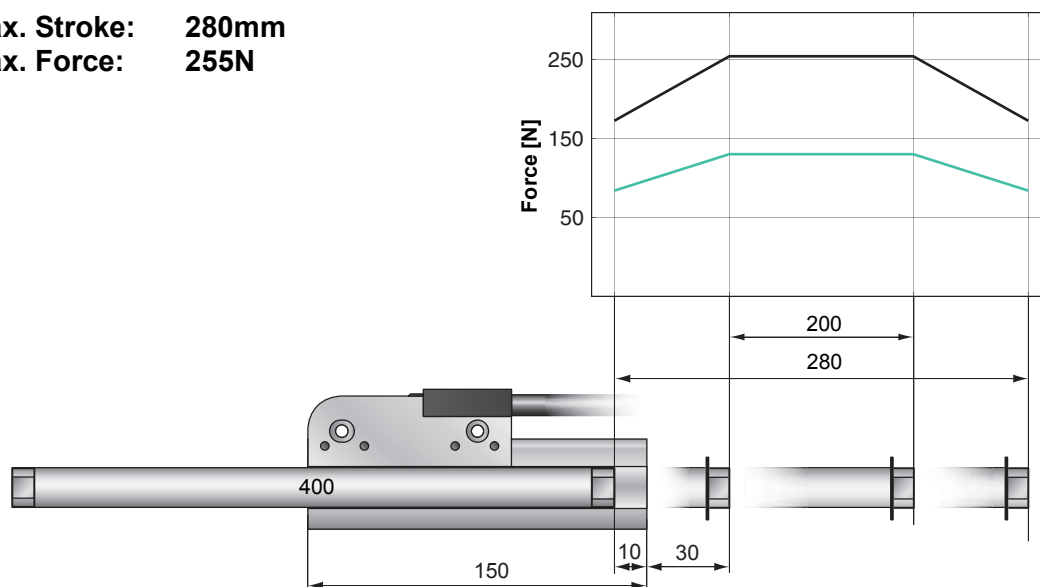
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x360/300-HP	High Performance Slider	0150-1507
PL02-20x360/300-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 280mm

Max. Force: 255N

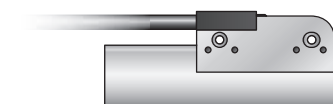


Dimensions in mm

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



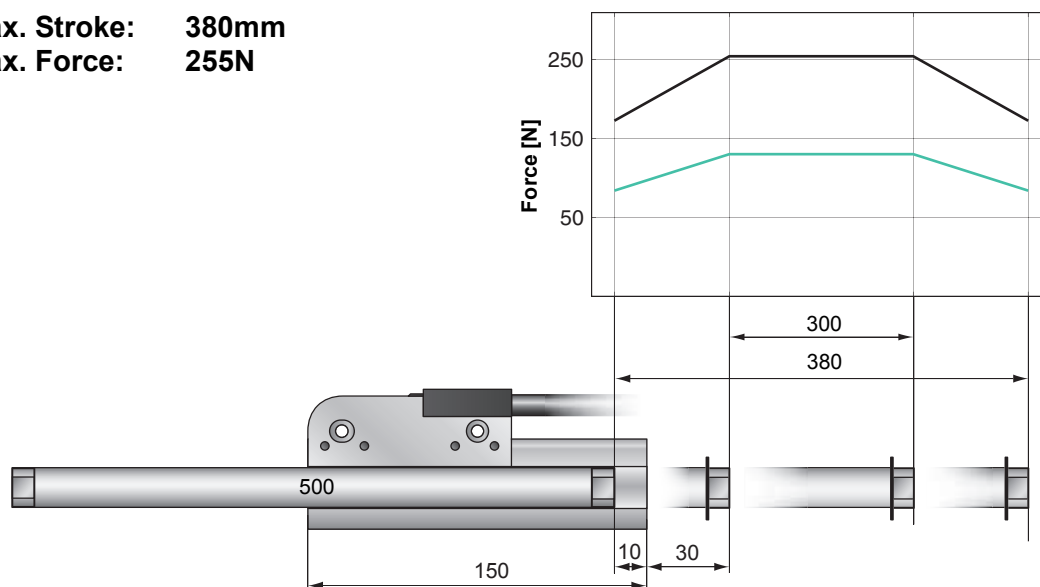
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x400/340-HP	High Performance Slider	0150-1508
PL02-20x400/340-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 380mm

Max. Force: 255N

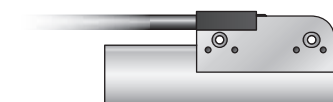


Dimensions in mm

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



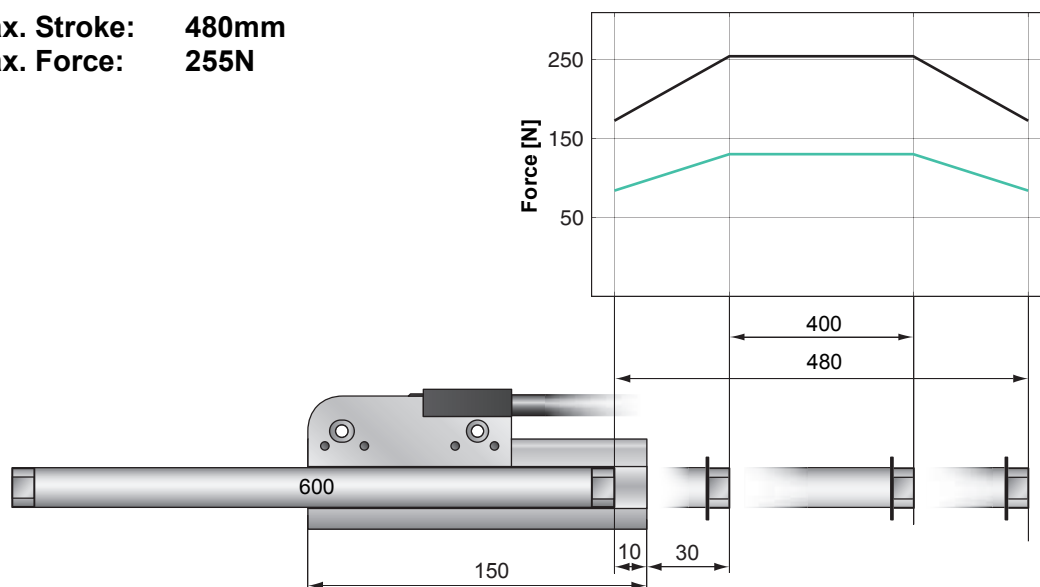
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x500/440-HP	High Performance Slider	0150-1509
PL02-20x500/440-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 480mm

Max. Force: 255N

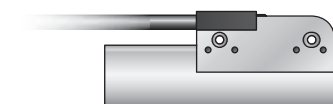


Dimensions in mm

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



PL01-20x600/540-HP

High Performance Slider

0150-1510

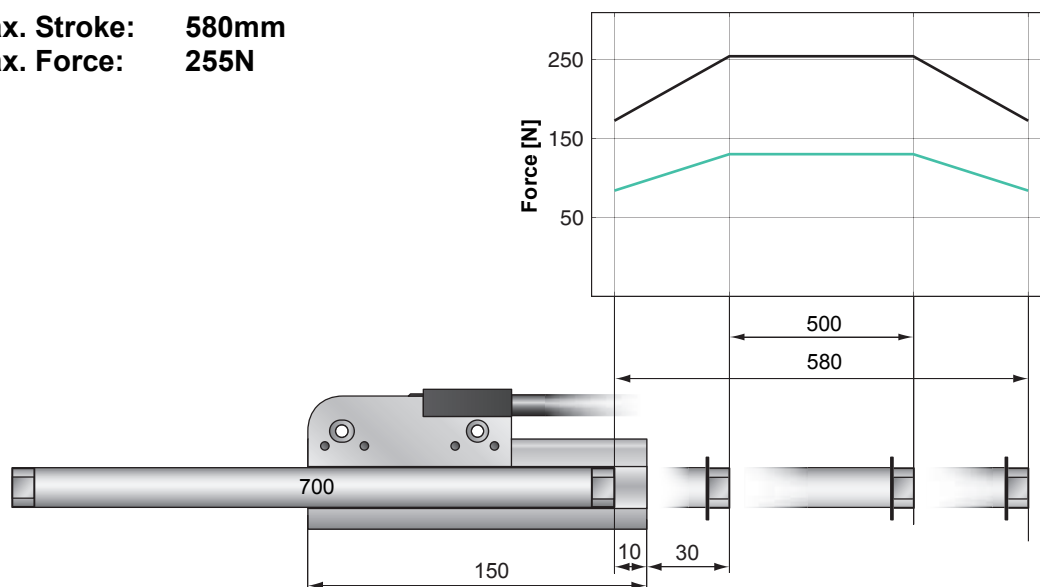
PL02-20x600/540-HP

High Performance Slider, Heavy Duty

on request

Max. Stroke: 580mm

Max. Force: 255N



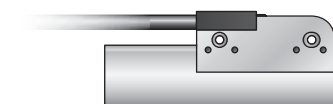
— E1100-HC, 72VDC
— E1100, 72VDC

Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	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



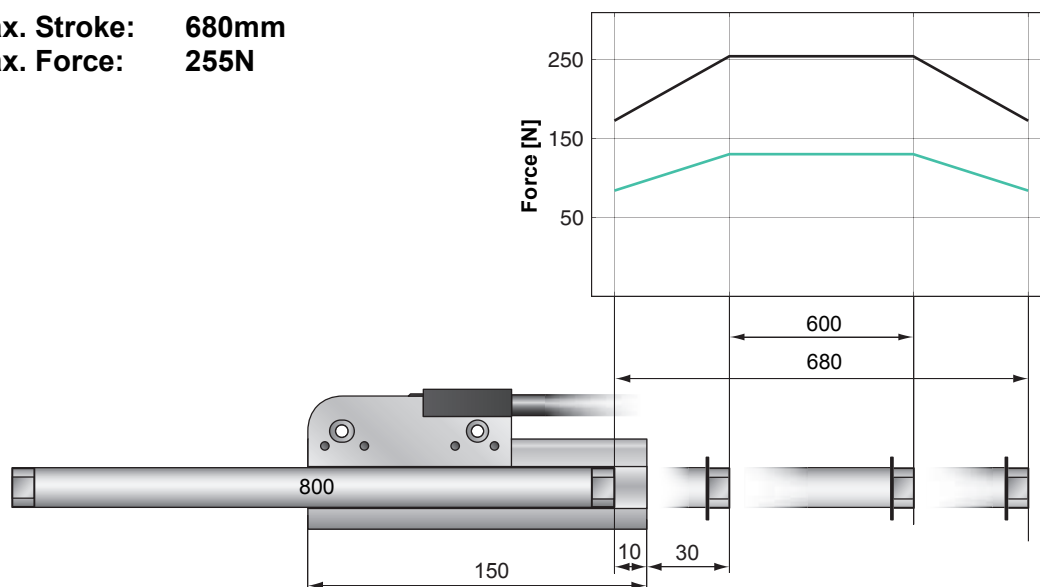
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x700/640-HP	High Performance Slider	0150-1511
PL02-20x700/640-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 680mm

Max. Force: 255N



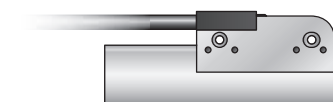
— E1100-HC, 72VDC
— E1100, 72VDC

Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	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



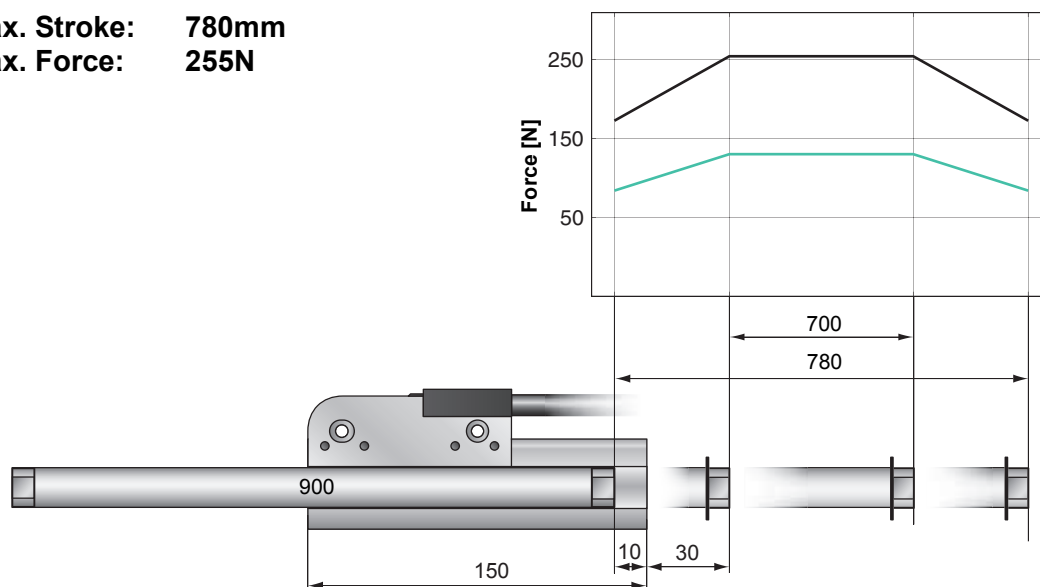
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x800/740-HP	High Performance Slider	0150-1512
PL02-20x800/740-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 780mm

Max. Force: 255N

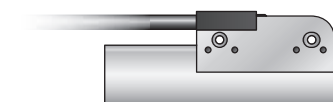


Dimensions in mm

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



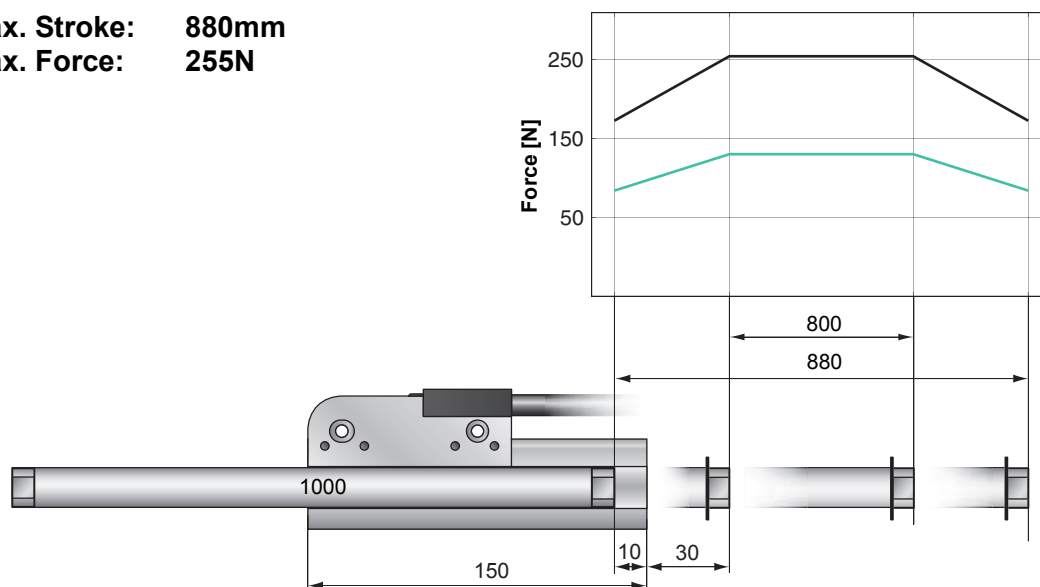
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x900/840-HP	High Performance Slider	0150-1513
PL01-20x900/840-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 880mm

Max. Force: 255N

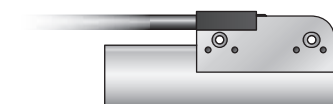


Dimensions in mm

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



PL01-20x1000/940-HP

High Performance Slider

0150-1514

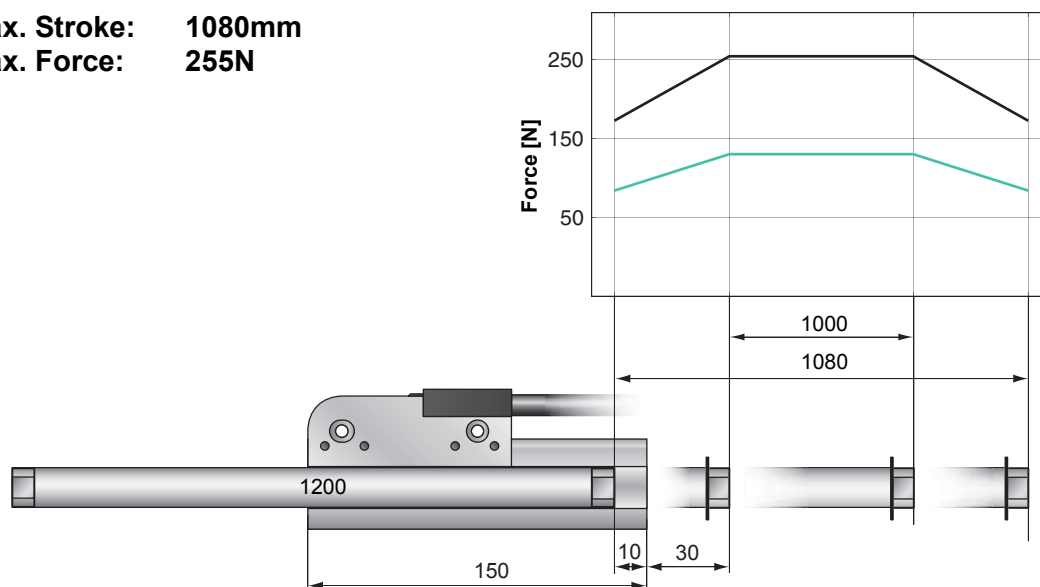
PL02-20x1000/940-HP

High Performance Slider, Heavy Duty

on request

Max. Stroke: 1080mm

Max. Force: 255N



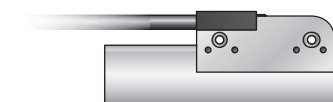
— E1100-HC, 72VDC
— E1100, 72VDC

Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	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



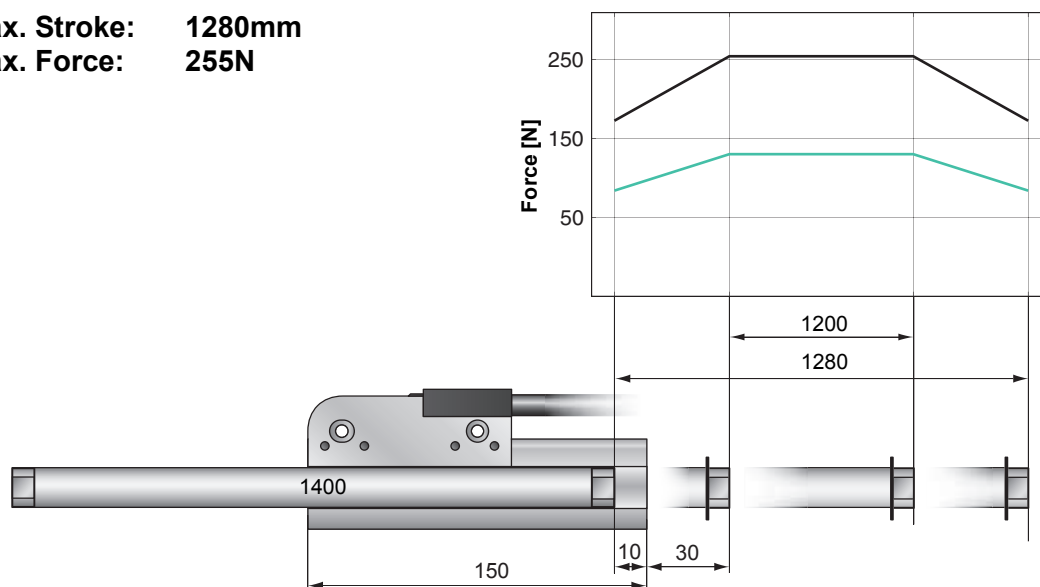
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x1200/1140-HP	High Performance Slider	0150-1515
PL02-20x1200/1140-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 1280mm

Max. Force: 255N



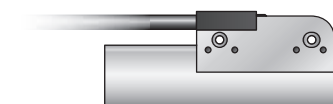
— E1100-HC, 72VDC
— E1100, 72VDC

Dimensions in mm

Motor Specification

Stator		Standard Winding
Slider		High Performance High Performance Heavy Duty
Standard Stroke SS	mm (in)	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



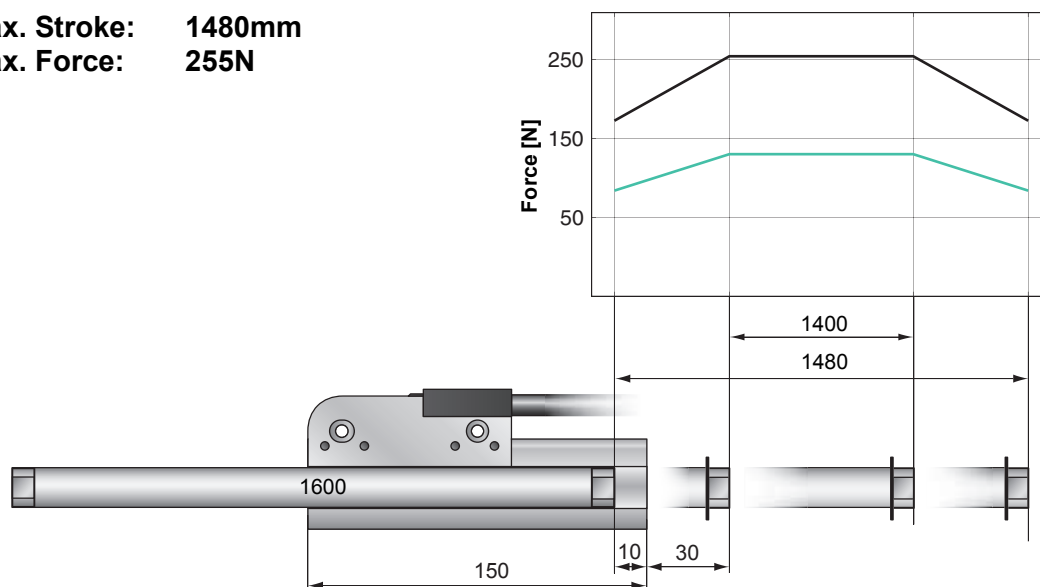
PS01-37Sx120F-HP-N	Stator HP with N-connector IP50	0150-1296
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PL01-20x1400/1340-HP	High Performance Slider	0150-1516
PL02-20x1400/1340-HP	High Performance Slider, Heavy Duty	on request

Max. Stroke: 1480mm

Max. Force: 255N

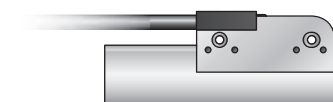


Dimensions in mm

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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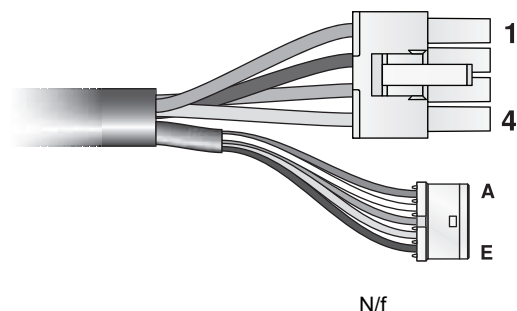


PL01-20x1600/1540-HP	High Performance Slider	0150-1517
PL02-20x1600/1540-HP	High Performance Slider, Heavy Duty	on request

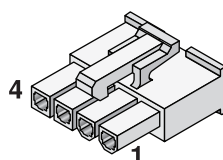


N-Connector

Motor Connector Wiring

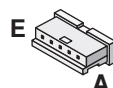


Power Connector



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