

LINEAR MOTORS PS01-37SX120F-HP-SSCP



- ✓ Stainless steel housing EN 1.4404 / AISI / SAE 316L
- ✓ Compact design
- ✓ Welded connections
- ✓ Welded connector
- ✓ Hygienic design
- ✓ Integrated mounting flange

LINEAR MOTORS PS01-37SX120F-HP-SSCP

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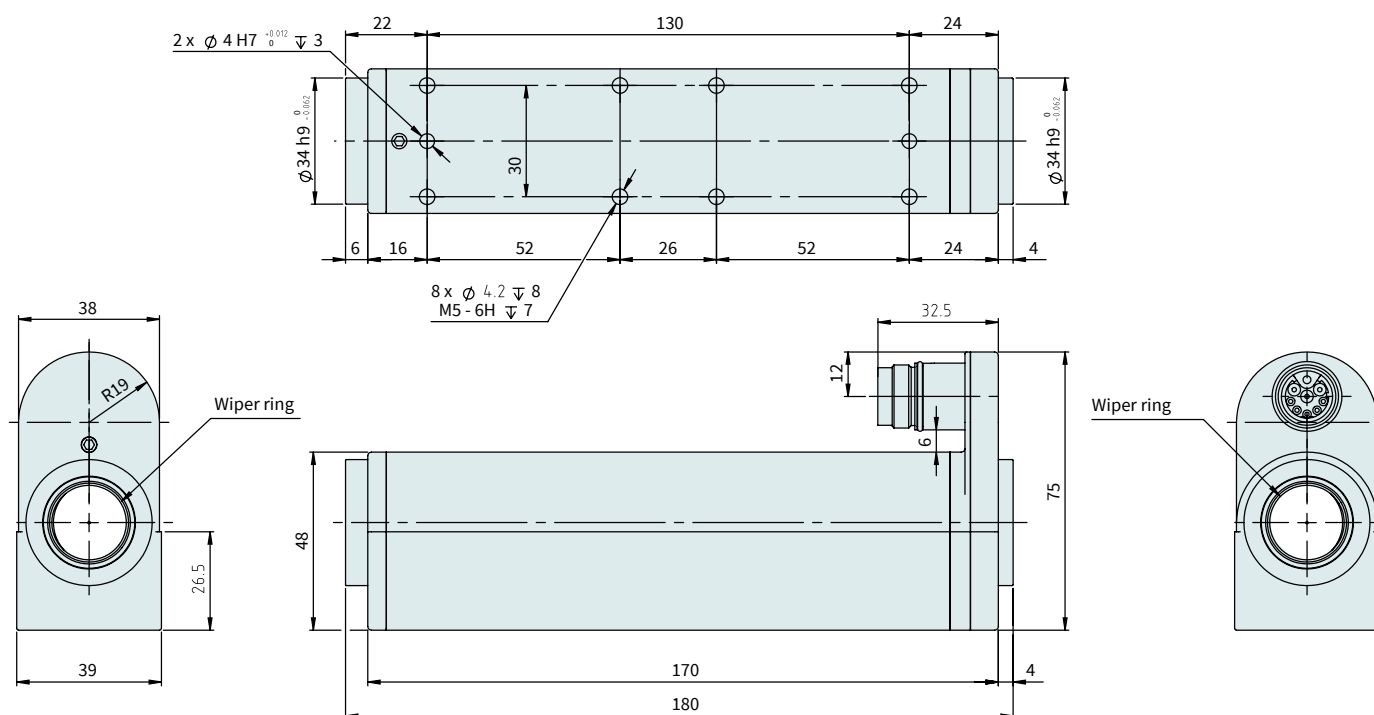
MOTOR FAMILY PS01-37SX120F-HP-SSCP

Technical Data				
Stroke				
Maximum Stroke	mm	(in)	≤ 1395	(≤ 54.92)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Position Resolution	mm	(in)	0.005	(0.0002)
Repeatability	mm	(in)	±0.05	(±0.002)
Position Resolution with ES	mm	(in)	0.001	(0.00004)
Repeatability with ES	mm	(in)	±0.01	(±0.0004)
Linearity with ES	mm	(in)	±0.01	(±0.0004)
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Terminal Resistance 25 °C / 120 °C	Ohm		2.4 / 3.5	
Terminal Inductivity	mH		1.6	
Magnetic Period	mm	(in)	40	(1.57)
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Stator Diameter	mm	(in)	39	(1.5)
Stator Length	mm	(in)	180	(7.1)
Stator Mass	g	(lb)	1300	(2.87)
Slider Diameter	mm	(in)	20	(0.79)
Slider Length	mm	(in)	240 - 1600	(9.4 - 63)
Slider Mass	g	(lb)	490 - 3620	(1.08 - 7.96)
IP Code [Connector type stator/ Cable type stator]			IP 69S / IP 67	

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.

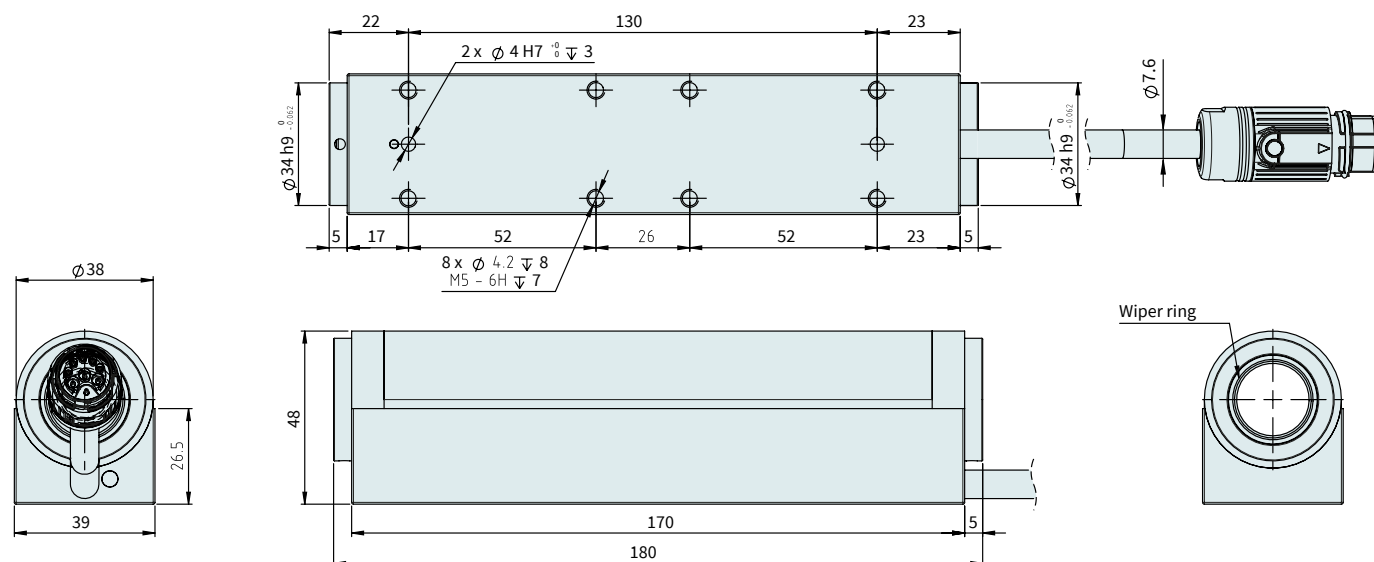
STATOR



Material: Housing (Stainless Steel 1.4404 / AISI 316L), Bearing (PPS, PEEK), Wiper (NBR FDA)

Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R*	Stainless Steel Stator Performance moving stator	Q150-4096

* Bearings with larger inner diameter



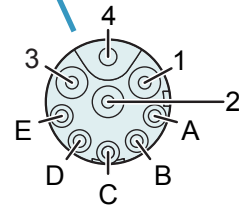
Material: Housing (Stainless Steel 1.4404 / AISI 316L), Bearing (PPS, PEEK), Wiper (NBR FDA), Cable Sheath (PUR)

Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	Q150-4342

CONNECTOR

Motor Connector Wiring	R-Connector	Wire color motor cable
Ph 1+	1	red
Ph 1-	2	pink
Ph 2+	3	blue
Ph 2-	4	grey
+5VDC	A	white
GND	B	inner Shield
Sine	C	yellow
Cosine	D	green
Temp.	E	black
Shield	Case	outer Shield

R-Connector



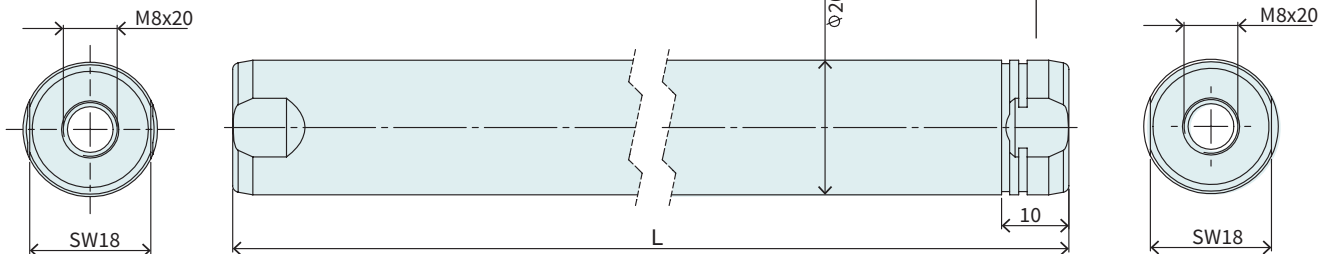
View: Motor Connector, plug side

SLIDER

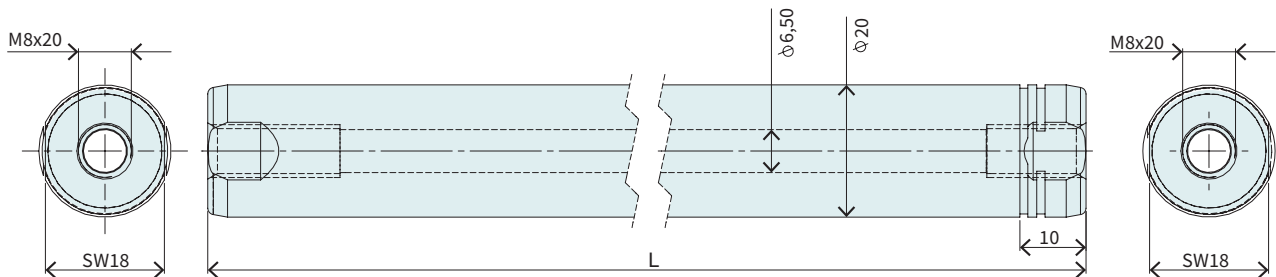
For normal applications in both dry and wet environments the standard sliders of the PL01 series are sufficient. Their slider tube is made of an austenitic, acid-resistant 18/10 chrome-nickel steel, material no. 1.4301 (AISI 304). The heavy duty sliders PL02 are additionally coated with tungsten carbide (WC/C), have better emergency running properties and are superior

to standard sliders in terms of service life in abrasive environments. Sliders of the HCR series ("high corrosion resistant") are made of stainless steel 1.4404 - chrome-nickel-molybdenum (AISI 316L). Their use is particularly recommended in environments with a high chloride content at temperatures above 60°C.

Slider HP / Heavy Duty HP / HCR



Hollow slider HP



Slider High Performance

Item	Description	Max. Stroke [mm]	Item-No.
PL01-20x240/180-HP	Slider 'High Performance'	35	0150-1505
PL01-20x300/240-HP	Slider 'High Performance'	95	0150-1506
PL01-20x360/300-HP	Slider 'High Performance'	155	0150-1507
PL01-20x400/340-HP	Slider 'High Performance'	195	0150-1508
PL01-20x500/440-HP	Slider 'High Performance'	295	0150-1509
PL01-20x600/540-HP	Slider 'High Performance'	395	0150-1510
PL01-20x700/640-HP	Slider 'High Performance'	495	0150-1511
PL01-20x800/740-HP	Slider 'High Performance'	595	0150-1512
PL01-20x900/840-HP	Slider 'High Performance'	695	0150-1513
PL01-20x1000/940-HP	Slider 'High Performance'	795	0150-1514
PL01-20x1200/1140-HP	Slider 'High Performance'	995	0150-1515
PL01-20x1400/1340-HP	Slider 'High Performance'	1195	0150-1516
PL01-20x1600/1540-HP	Slider 'High Performance'	1395	0150-1517

Slider Heavy Duty High Performance

Item	Description	Max. Stroke [mm]	Item-No.
PL02-20x240/180-HP	Slider 'heavy duty' 'High Performance'	35	0150-2162
PL02-20x300/240-HP	Slider 'heavy duty' 'High Performance'	95	0150-2163
PL02-20x360/300-HP	Slider 'heavy duty' 'High Performance'	155	0150-2164
PL02-20x400/340-HP	Slider 'heavy duty' 'High Performance'	195	0150-2165
PL02-20x500/440-HP	Slider 'heavy duty' 'High Performance'	295	0150-2166
PL02-20x600/540-HP	Slider 'heavy duty' 'High Performance'	395	0150-2167
PL02-20x700/640-HP	Slider 'heavy duty' 'High Performance'	495	0150-2168
PL02-20x800/740-HP	Slider 'heavy duty' 'High Performance'	595	0150-2169
PL02-20x900/840-HP	Slider 'heavy duty' 'High Performance'	695	0150-2170

Slider High Performance HCR

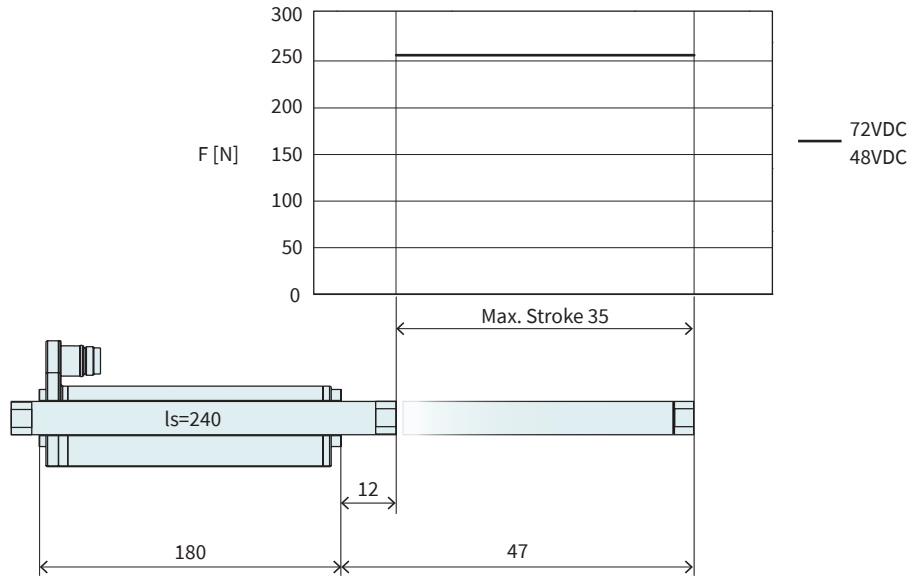
Item	Description	Max. Stroke [mm]	Item-No.
PL01-20x240/180-HP-W01	Slider 'High Performance' HCR	35	0150-4258
PL01-20x300/240-HP-W01	Slider 'High Performance' HCR	95	0150-4274
PL01-20x360/300-HP-W01	Slider 'High Performance' HCR	155	0150-4275
PL01-20x400/340-HP-W01	Slider 'High Performance' HCR	195	0150-4276
PL01-20x500/440-HP-W01	Slider 'High Performance' HCR	295	0150-4277
PL01-20x600/540-HP-W01	Slider 'High Performance' HCR	395	0150-4278
PL01-20x700/640-HP-W01	Slider 'High Performance' HCR	495	0150-4279
PL01-20x800/740-HP-W01	Slider 'High Performance' HCR	595	0150-4280
PL01-20x900/840-HP-W01	Slider 'High Performance' HCR	695	0150-4281
PL01-20x1000/940-HP-W01	Slider 'High Performance' HCR	795	0150-4282
PL01-20x1200/1140-HP-W01	Slider 'High Performance' HCR	995	0150-4283
PL01-20x1400/1340-HP-W01	Slider 'High Performance' HCR	1195	0150-4284
PL01-20x1600/1540-HP-W01	Slider 'High Performance' HCR	1395	0150-4285

Hollow slider High Performance

Item	Description	Max. Stroke [mm]	Item-No.
PL01-20x240/180-HP-L	Slider 'High Performance' L'	35	0150-2540
PL01-20x300/240-HP-L	Slider 'High Performance' L'	95	0150-3696
PL01-20x360/300-HP-L	Slider 'High Performance' L'	155	0150-1537
PL01-20x400/340-HP-L	Slider 'High Performance' L'	195	0150-3697
PL01-20x500/440-HP-L	Slider 'High Performance' L'	295	0150-3698
PL01-20x600/540-HP-L	Slider 'High Performance' L'	395	0150-3699
PL01-20x700/640-HP-L	Slider 'High Performance' L'	495	0150-3700
PL01-20x800/740-HP-L	Slider 'High Performance' L'	595	0150-3701
PL01-20x900/840-HP-L	Slider 'High Performance' L'	695	0150-3702
PL01-20x1000/940-HP-L	Slider 'High Performance' L'	795	0150-3703
PL01-20x1200/1140-HP-L	Slider 'High Performance' L'	995	0150-2510
PL01-20x1400/1340-HP-L	Slider 'High Performance' L'	1195	on request
PL01-20x1600/1540-HP-L	Slider 'High Performance' L'	1395	on request

PS01-37SX120F/35-HP-SSCP

Max. Stroke: 35 mm
Peak Force: 255 N

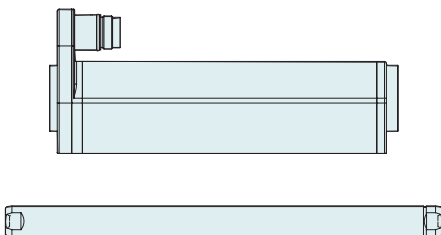


Dimensions in mm

Technical Data PS01-37Sx120F/36-HP-SSCP				
Stroke				
Maximum Stroke	mm	(in)	35	(1.38)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.5	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	240	(9.4)
Slider Mass	g	(lb)	490	(1.08)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.



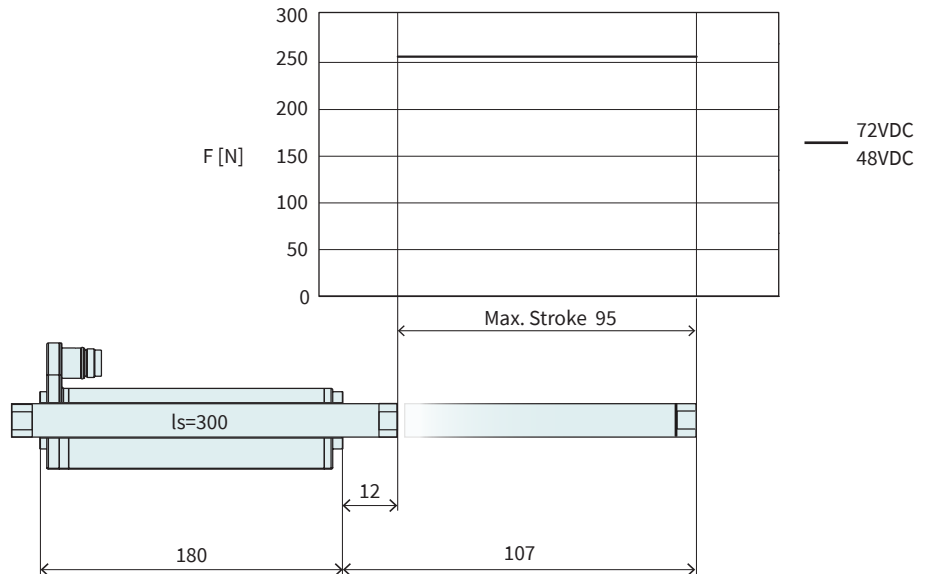
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	0150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	0150-4342

PL01-20x240/180-HP	Slider 'High Performance'	0150-1505
PL02-20x240/180-HP	Slider 'heavy duty' 'High Performance'	0150-2162
PL01-20x240/180-HP-W01	Slider 'High Performance' HCR	0150-4258
PL01-20x240/180-HP-L*	Slider 'High Performance' L'	0150-2540

* With this slider, the motor specifications above change.

PS01-37Sx120F/95-HP-SSCP

Max. Stroke: 95 mm
Peak Force: 255 N



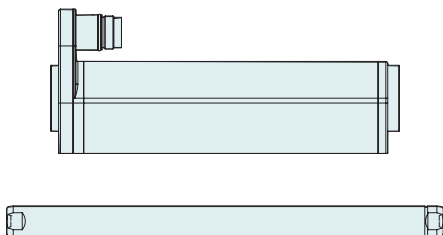
Dimensions in mm

Technical Data PS01-37Sx120F/95-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	95	(3.74)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.4	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	300	(12)
Slider Mass	g	(lb)	630	(1.39)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.

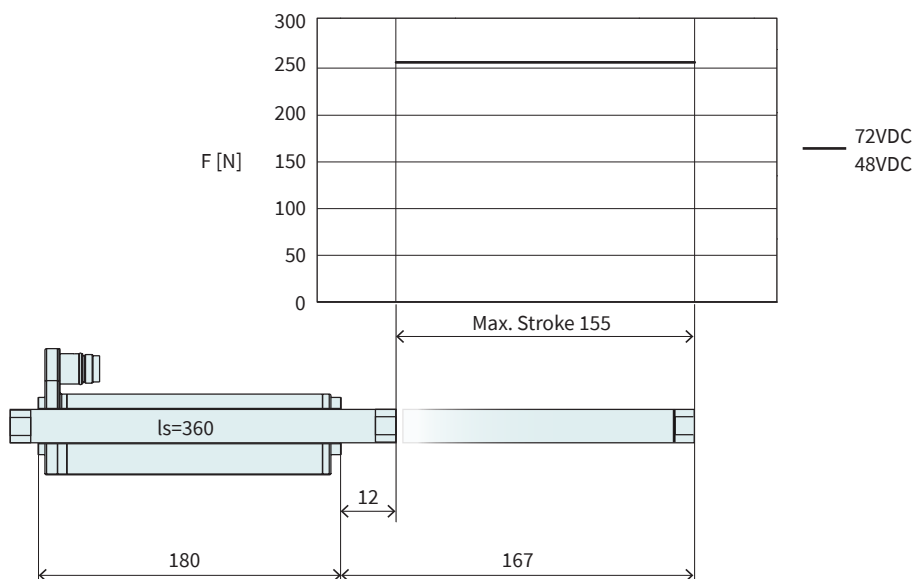


Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	Q150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	Q150-4342
PL01-20x300/240-HP	Slider 'High Performance'	Q150-1506
PL02-20x300/240-HP	Slider 'heavy duty' 'High Performance'	Q150-2163
PL01-20x300/240-HP-W01	Slider 'High Performance' HCR	Q150-4274
PL01-20x300/240-HP-L*	Slider 'High Performance L'	Q150-3696

* With this slider, the motor specifications above change.

PS01-37Sx120F/155-HP-SSCP

Max. Stroke: 155 mm
Peak Force: 255 N



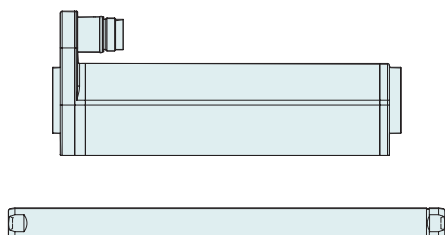
Dimensions in mm

Technical Data PS01-37Sx120F/155-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	155	(6.10)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	360	(14)
Slider Mass	g	(lb)	760	(1.67)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.



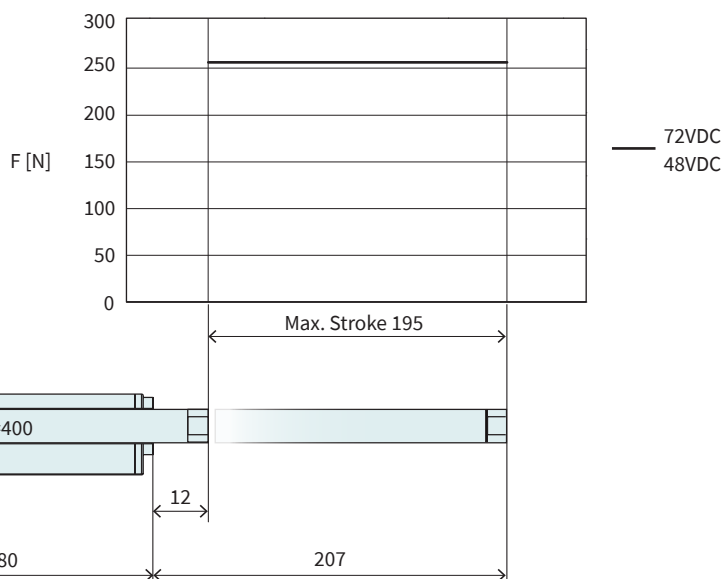
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	0150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	0150-4342

PL01-20x360/300-HP	Slider 'High Performance'	0150-1507
PL02-20x360/300-HP	Slider 'heavy duty' 'High Performance'	0150-2164
PL01-20x360/300-HP-W01	Slider 'High Performance' HCR	0150-4275
PL01-20x360/300-HP-L*	Slider 'High Performance L'	0150-1537

* With this slider, the motor specifications above change.

PS01-37Sx120F/195-HP-SSCP

Max. Stroke: 195 mm
Peak Force: 255 N



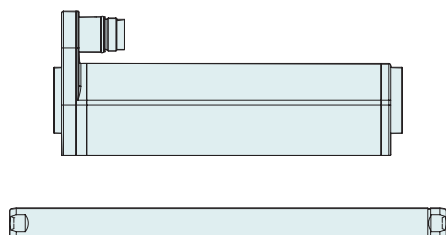
Dimensions in mm

Technical Data PS01-37Sx120F/195-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	195	(7.68)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	400	(16)
Slider Mass	g	(lb)	860	(1.9)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.



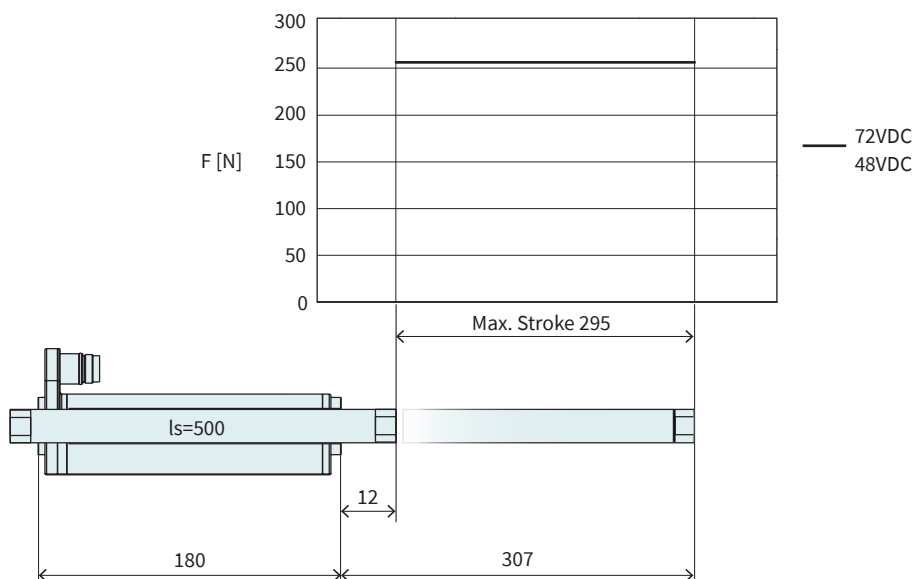
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	Q150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	Q150-4342
PL01-20x400/340-HP	Slider 'High Performance'	Q150-1508
PL02-20x400/340-HP	Slider 'heavy duty' 'High Performance'	Q150-2165
PL01-20x400/340-HP-W01	Slider 'High Performance' HCR	Q150-4276
PL01-20x400/340-HP-L*	Slider 'High Performance L'	Q150-3697

* With this slider, the motor specifications above change.

PS01-37Sx120F/295-HP-SSCP

3

Max. Stroke: 295 mm
Peak Force: 255 N



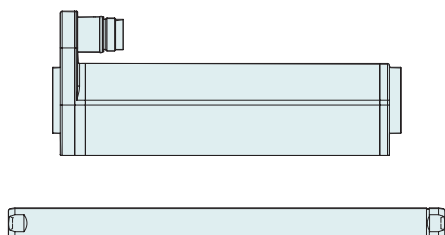
Dimensions in mm

Technical Data PS01-37Sx120F/295-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	295	(11.61)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	1090	(2.4)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.

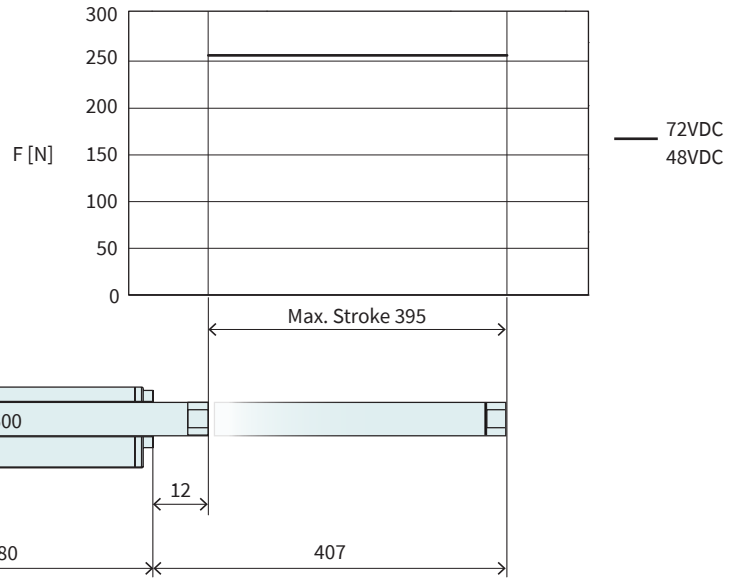


Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	0150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	0150-4342
PL01-20x500/440-HP	Slider 'High Performance'	0150-1509
PL02-20x500/440-HP	Slider 'heavy duty' 'High Performance'	0150-2166
PL01-20x500/440-HP-W01	Slider 'High Performance' HCR	0150-4277
PL01-20x500/440-HP-L*	Slider 'High Performance' L	0150-3698

* With this slider, the motor specifications above change.

PS01-37Sx120F/395-HP-SSCP

Max. Stroke: 395 mm
Peak Force: 255 N



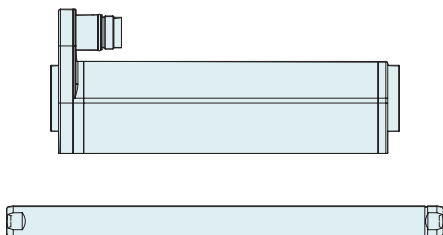
Dimensions in mm

Technical Data PS01-37Sx120F/395-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	395	(15.55)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	600	(24)
Slider Mass	g	(lb)	1330	(2.93)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.

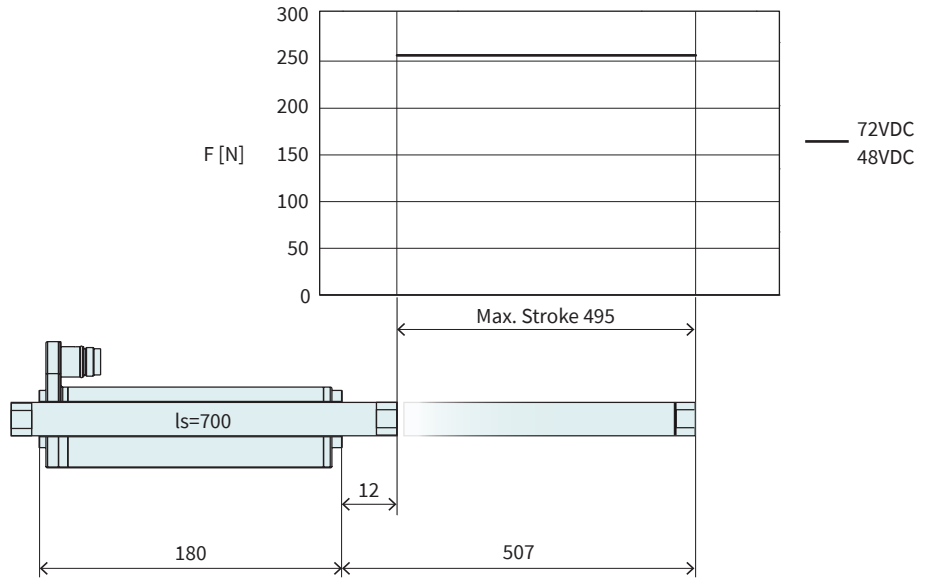


Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	Q150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	Q150-4342
PL01-20x600/540-HP	Slider 'High Performance'	Q150-1510
PL02-20x600/540-HP	Slider 'heavy duty' 'High Performance'	Q150-2167
PL01-20x600/540-HP-W01	Slider 'High Performance' HCR	Q150-4278
PL01-20x600/540-HP-L*	Slider 'High Performance L'	Q150-3699

* With this slider, the motor specifications above change.

PS01-37Sx120F/495-HP-SSCP

Max. Stroke: 495 mm
Peak Force: 255 N



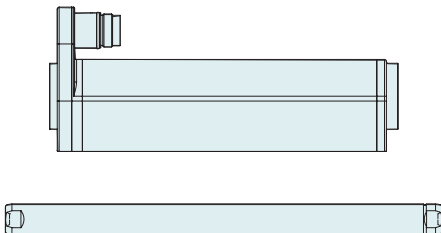
Dimensions in mm

Technical Data PS01-37Sx120F/495-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	495	(19.49)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	700	(28)
Slider Mass	g	(lb)	1560	(3.43)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.



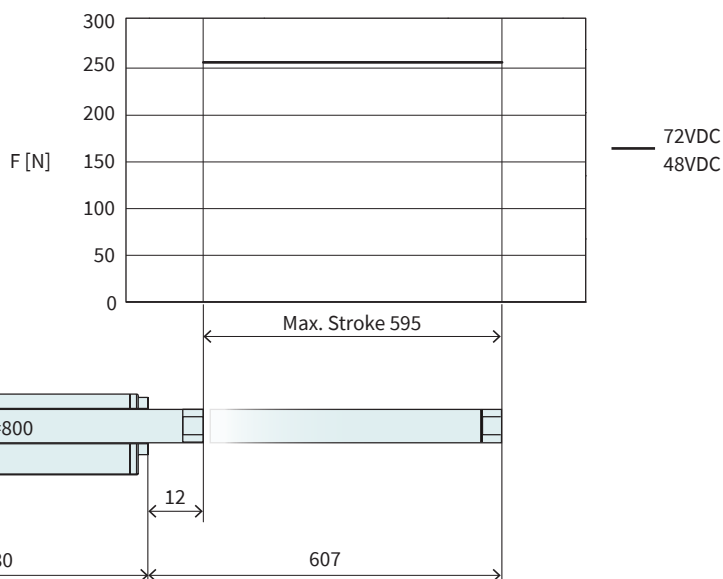
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	0150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	0150-4342

PL01-20x700/640-HP	Slider 'High Performance'	0150-1511
PL02-20x700/640-HP	Slider 'heavy duty' 'High Performance'	0150-2168
PL01-20x700/640-HP-W01	Slider 'High Performance' HCR	0150-4279
PL01-20x700/640-HP-L*	Slider 'High Performance' L'	0150-3700

* With this slider, the motor specifications above change.

PS01-37Sx120F/595-HP-SSCP

Max. Stroke: 595 mm
Peak Force: 255 N



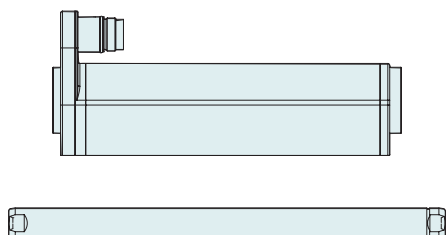
Dimensions in mm

Technical Data PS01-37Sx120F/595-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	595	(23.42)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	800	(31)
Slider Mass	g	(lb)	1790	(3.94)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.



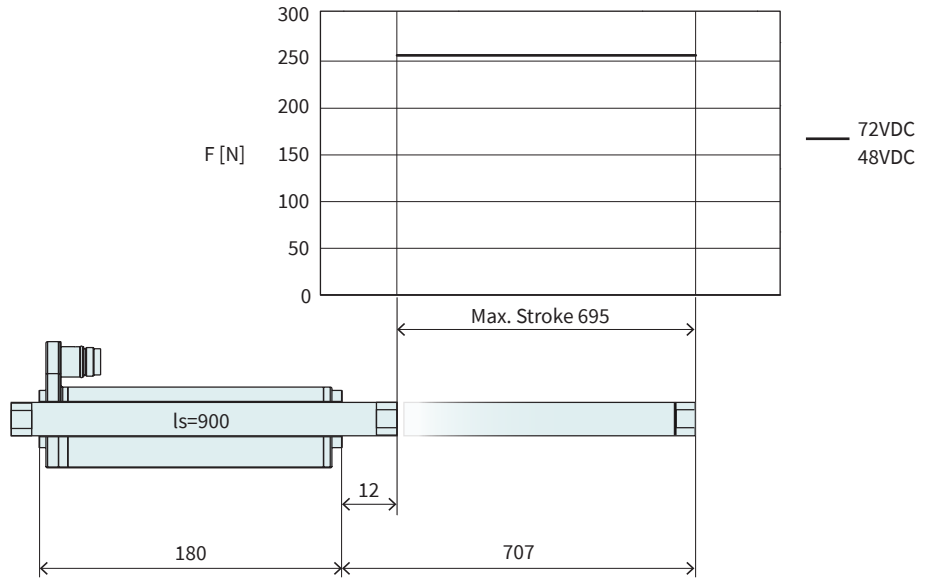
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	Q150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	Q150-4342
PL01-20x800/740-HP	Slider 'High Performance'	Q150-1512
PL02-20x800/740-HP	Slider 'heavy duty' 'High Performance'	Q150-2169
PL01-20x800/740-HP-W01	Slider 'High Performance' HCR	Q150-4280
PL01-20x800/740-HP-L*	Slider 'High Performance L'	Q150-3701

* With this slider, the motor specifications above change.

PS01-37Sx120F/695-HP-SSCP

3

Max. Stroke: 695 mm
Peak Force: 255 N

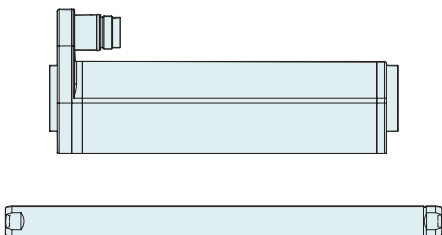


Dimensions in mm

Technical Data PS01-37Sx120F/695-HP-SSCP				
Stroke				
Maximum Stroke	mm	(in)	695	(27.36)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	900	(35)
Slider Mass	g	(lb)	2020	(4.44)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.



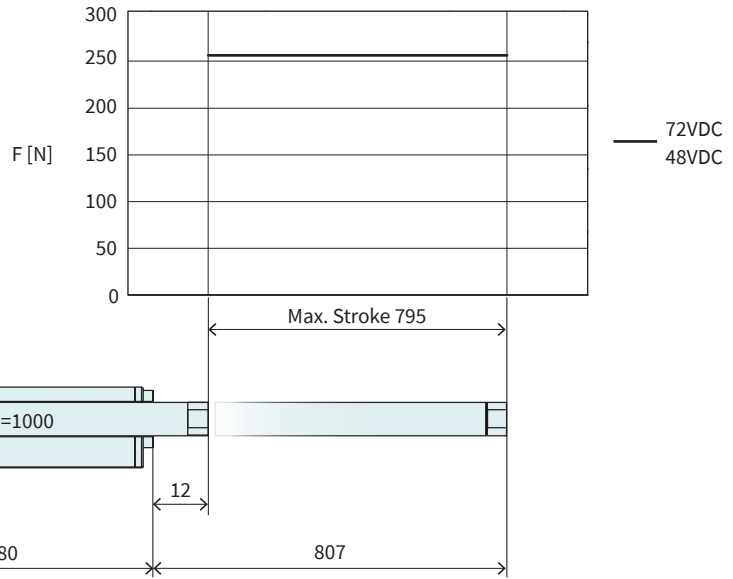
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	0150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	0150-4342

PL01-20x900/840-HP	Slider 'High Performance'	0150-1513
PL02-20x900/840-HP	Slider 'heavy duty' 'High Performance'	0150-2170
PL01-20x900/840-HP-W01	Slider 'High Performance' HCR	0150-4281
PL01-20x900/840-HP-L*	Slider 'High Performance' L	0150-3702

* With this slider, the motor specifications above change.

PS01-37Sx120F/795-HP-SSCP

Max. Stroke: 795 mm
Peak Force: 255 N

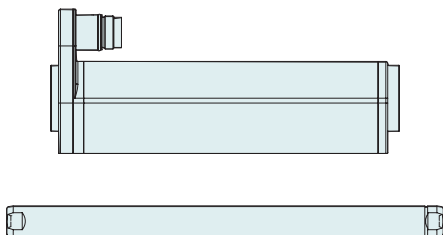


Technical Data PS01-37Sx120F/795-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	795	(31.30)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	*K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	1000	(39)
Slider Mass	g	(lb)	2230	(4.91)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.



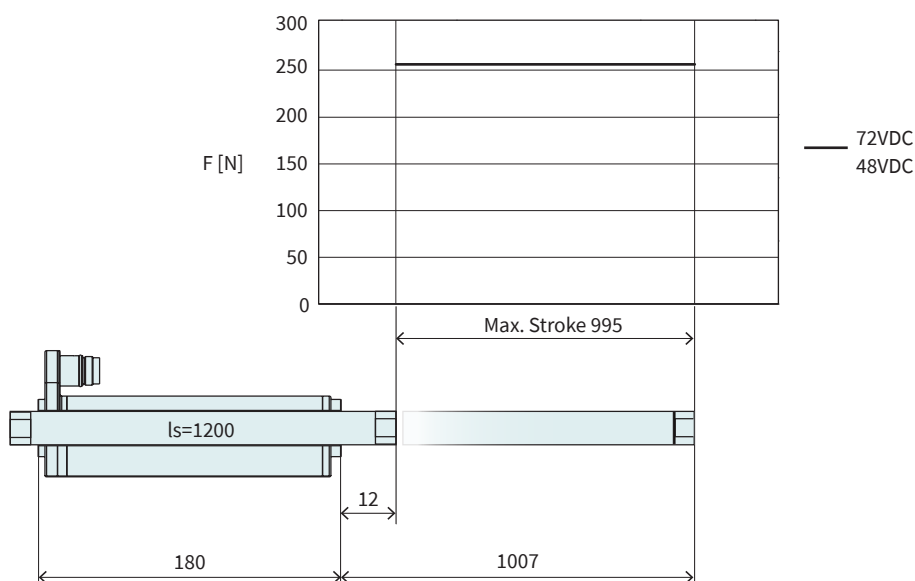
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	Q150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	Q150-4342

PL01-20x1000/940-HP	Slider 'High Performance'	Q150-1514
PL01-20x1000/940-HP-W01	Slider 'High Performance' HCR	Q150-4282
PL01-20x1000/940-HP-L*	Slider 'High Performance L'	Q150-3703

* With this slider, the motor specifications above change.

PS01-37Sx120F/995-HP-SSCP

Max. Stroke: 995 mm
Peak Force: 255 N



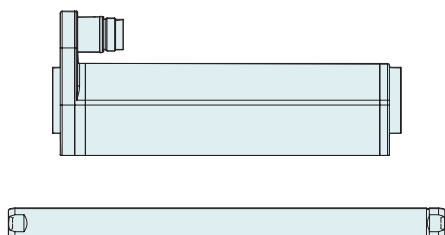
Dimensions in mm

Technical Data PS01-37Sx120F/995-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	995	(39.17)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	1200	(47)
Slider Mass	g	(lb)	2690	(5.92)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.

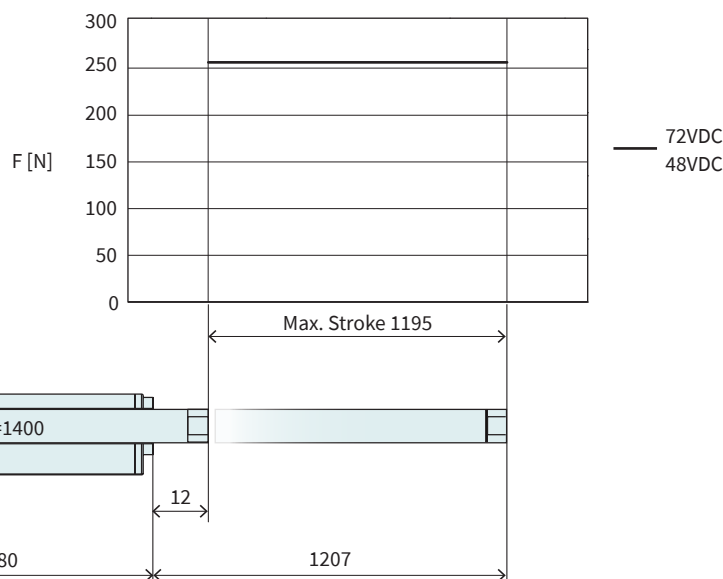


Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	0150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	0150-4342
PL01-20x1200/1140-HP	Slider 'High Performance'	0150-1515
PL01-20x1200/1140-HP-W01	Slider 'High Performance' HCR	0150-4283
PL01-20x1200/1140-HP-L*	Slider 'High Performance' L	0150-2510

* With this slider, the motor specifications above change.

PS01-37Sx120F/1195-HP-SSCP

Max. Stroke: 1195 mm
Peak Force: 255 N



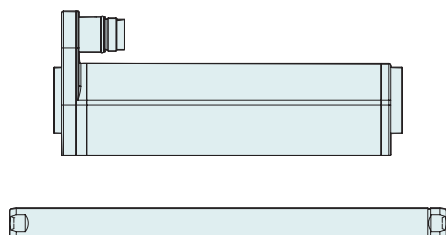
Dimensions in mm

Technical Data PS01-37Sx120F/1195-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	1195	(47.05)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	1400	(55)
Slider Mass	g	(lb)	3160	(6.95)

1) Motor is mounted on a stainless steel surface of 0.03 m².

2) Motor is mounted on a 20°C cold plate.

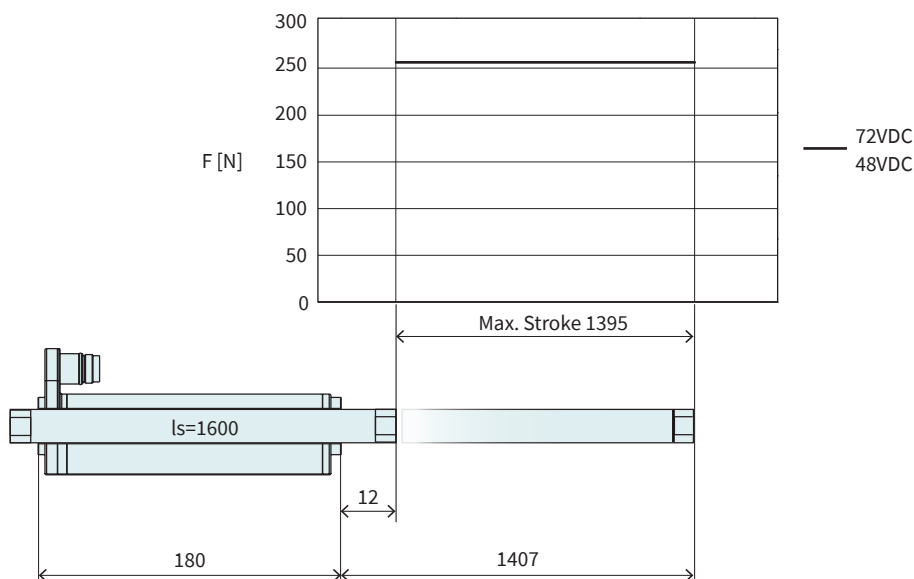


Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	Q150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	Q150-4342
PL01-20x1400/1340-HP	Slider 'High Performance'	Q150-1516
PL01-20x1400/1340-HP-W01	Slider 'High Performance' HCR	Q150-4284
PL01-20x1400/1340-HP-L*	Slider 'High Performance L'	on request

* With this slider, the motor specifications above change.

PS01-37Sx120F/1395-HP-SSCP

Max. Stroke: 1395 mm
Peak Force: 255 N



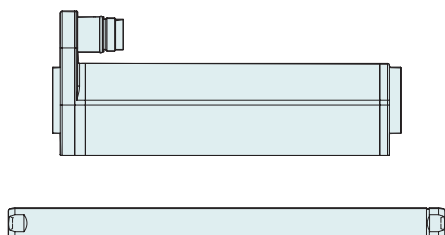
Dimensions in mm

Technical Data PS01-37Sx120F/1395-HP-SSCP

Stroke				
Maximum Stroke	mm	(in)	1395	(54.92)
Force				
Max. Force @ 48VDC	N	(lbf)	255	(57.3)
Max. Force @ 72VDC	N	(lbf)	255	(57.3)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	17	(3.82)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		14.9	
Max. Current @ 72VDC	A _{pk}		14.9	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	1600	(63)
Slider Mass	g	(lb)	3620	(7.96)

1) Motor is mounted on a stainless steel surface of 0.03 m².

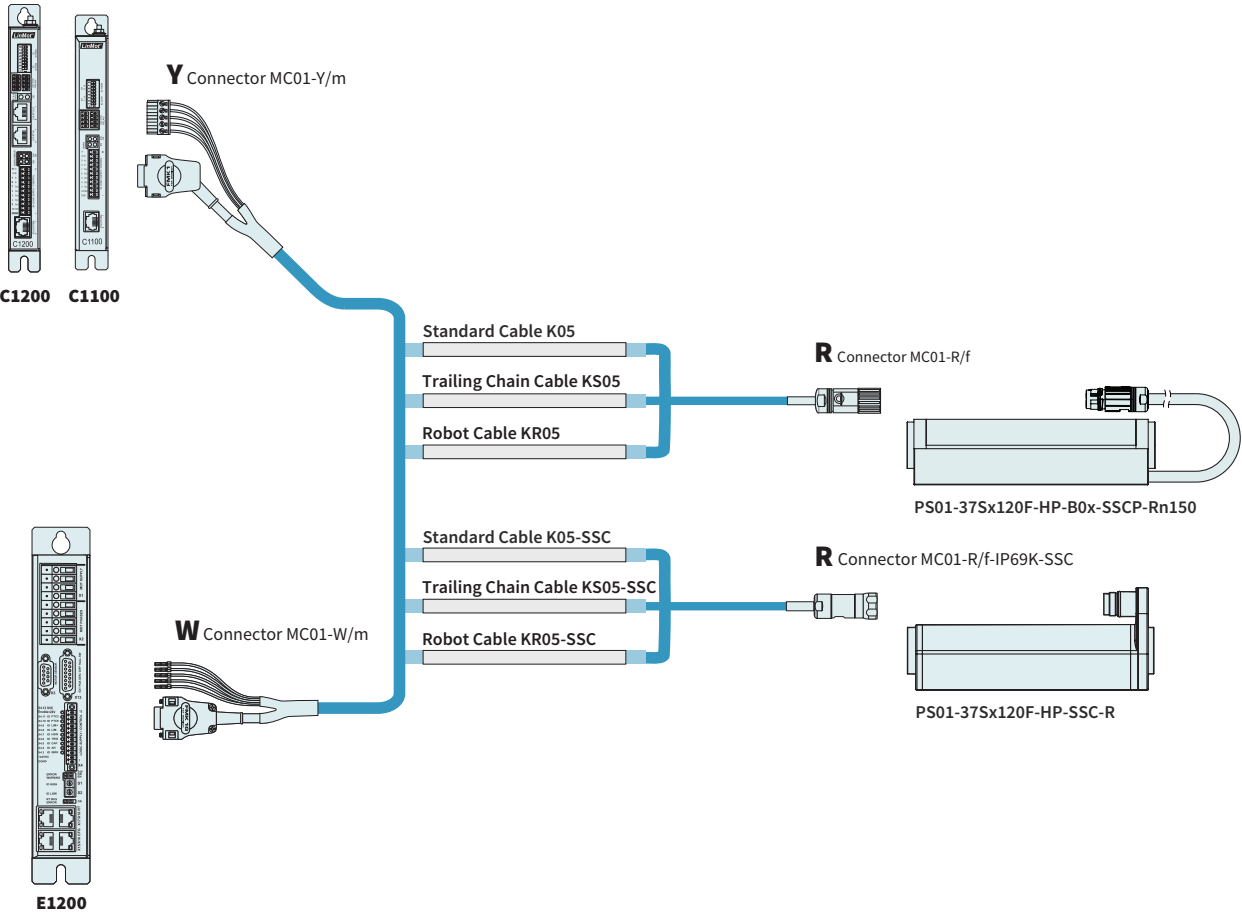
2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless Steel Stator Performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless Steel Stator Performance moving stator	0150-4096
PS01-37Sx120F-HP-B02-SSCP-Rn150	Stainless Steel Stator Performance standard cable	0150-4342
PL01-20x1600/1540-HP	Slider 'High Performance'	0150-1517
PL01-20x1600/1540-HP-W01	Slider 'High Performance' HCR	0150-4285
PL01-20x1600/1540-HP-L*	Slider 'High Performance' L	on request

* With this slider, the motor specifications above change.

Motor Cable



Note: Linear Motor does not run on servo drive series E100 and E1000 as well as on the series B1100 and E1100.

ORDERING INFORMATION

STANDARD CABLE		
Item	Description	Item-No.
K05-W/R-2	Motor Cable W/R, 2 m	0150-2119
K05-W/R-4	Motor Cable W/R, 4 m	0150-2120
K05-W/R-6	Motor Cable W/R, 6 m	0150-2121
K05-W/R-8	Motor Cable W/R, 8 m	0150-2122
K05-W/R-	Motor Cable W/R, Custom length	0150-3262
K05-Y/R-2	Motor Cable Y/R, 2 m	0150-2421
K05-Y/R-4	Motor Cable Y/R, 4 m	0150-2422
K05-Y/R-6	Motor Cable Y/R, 6 m	0150-2423
K05-Y/R-8	Motor Cable Y/R, 8 m	0150-2424
K05-Y-Fe/R-	Motor Cable Y/R, Custom length	0150-3501
K05-W/R-SSC-	Trailing Chain Cable W/R-SSC, Custom length	0150-3586
K05-Y-Fe/R-SSC-	Trailing Chain Cable Y-Fe/R-SSC, Custom length	0150-3715

TRAILING CHAIN CABLE

Item	Description	Item-No.
KS05-W/R-4	Trailing Chain Cable W/R, 4 m	0150-2106
KS05-W/R-6	Trailing Chain Cable W/R, 6 m	0150-2131
KS05-W/R-8	Trailing Chain Cable W/R, 8 m	0150-2107
KS05-W/R-	Trailing Chain Cable W/R, Custom length	0150-3256
KS05-Y/R-2	Trailing Chain Cable Y/R, 2 m	0150-4165
KS05-Y/R-4	Trailing Chain Cable Y/R, 4 m	0150-2433
KS05-Y/R-6	Trailing Chain Cable Y/R, 6 m	0150-2434
KS05-Y/R-8	Trailing Chain Cable Y/R, 8 m	0150-2435
KS05-Y-Fe/R-	Trailing Chain Cable Y-Fe/R, Custom length	0150-3507
KS05-W/R-SSC-2	Trailing Chain Cable W/R-SSC, 2 m	0150-2683
KS05-W/R-SSC-4	Trailing Chain Cable W/R-SSC, 4 m	0150-2684
KS05-W/R-SSC-6	Trailing Chain Cable W/R-SSC, 6 m	0150-2685
KS05-W/R-SSC-8	Trailing Chain Cable W/R-SSC, 8 m	0150-2686
KS05-W/R-SSC-	Trailing Chain Cable W/R-SSC, Custom length	0150-3583
KS05-Y/R-SSC-2	Trailing Chain Cable Y/R-SSC, 2 m	0150-2687
KS05-Y/R-SSC-4	Trailing Chain Cable Y/R-SSC, 4 m	0150-2688
KS05-Y/R-SSC-6	Trailing Chain Cable Y/R-SSC, 6 m	0150-2689
KS05-Y/R-SSC-8	Trailing Chain Cable Y/R-SSC, 8 m	0150-2690
KS05-Y-Fe/R-SSC-	Trailing Chain Cable Y-Fe/R-SSC, Custom length	0150-3646

ROBOT CABLE

Item	Description	Item-No.
KR05-W/R-	Robot Cable KR05-W/R, Custom length	0150-3336
KR05-Y-Fe/R-	Robot Cable KR05-Y-Fe/R, Custom length	0150-3512
KR05-W/R-SSC-	Robot Cable KR05-W/R-SSC-, Custom length	0150-3587
KR05-Y-Fe/R-SSC-	Robot Cable KR05-Y-Fe/R-SSC-, Custom length	0150-4364

CONNECTOR & CABLE (INDIVIDUAL)

Item	Description	Item-No.
MC01-W/m	Motor Connector W/m	0150-3140
MC01-Y-Fe/m	Motor Connector Y-Fe/m	0150-3289
MC01-R/f	Motor Connector R/f	0150-3129
MC01-R/f-IP69K-SSC	Motor Connector R/f, IP69k, SSC	0150-3347
K05-04/05	Motor Cable per m	0150-1920
KS05-04/05	Trailing Chain Cable per m	0150-1938
KR05-04/05	Robot Cable per m	0150-1846

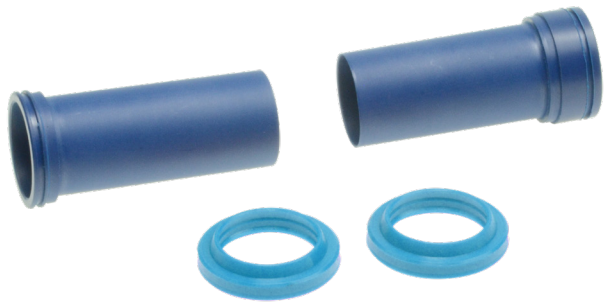
SLIDER MOUNTING



Item	Description	Item-No.
PLF01-20-SS	Fixed Bearing Set for 19/20 mm sliders, stainless steel	0150-3296
PLL01-20	Floating Bearing for 20 mm sliders, stainless steel	0150-3084

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KITS



Item	Description	Item-No.
PBS01-37S-B02-SSCP	Bearing Kit for PS01-37Sx...-B02-SSCP	0150-4189
PBS01-37S-B03-SSCP	Bearing Kit for PS01-37Sx...-B03-SSCP	0150-4192

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".