

LINEAR MOTORS PS01-37SX120F-HP-SSC



- ✓ 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

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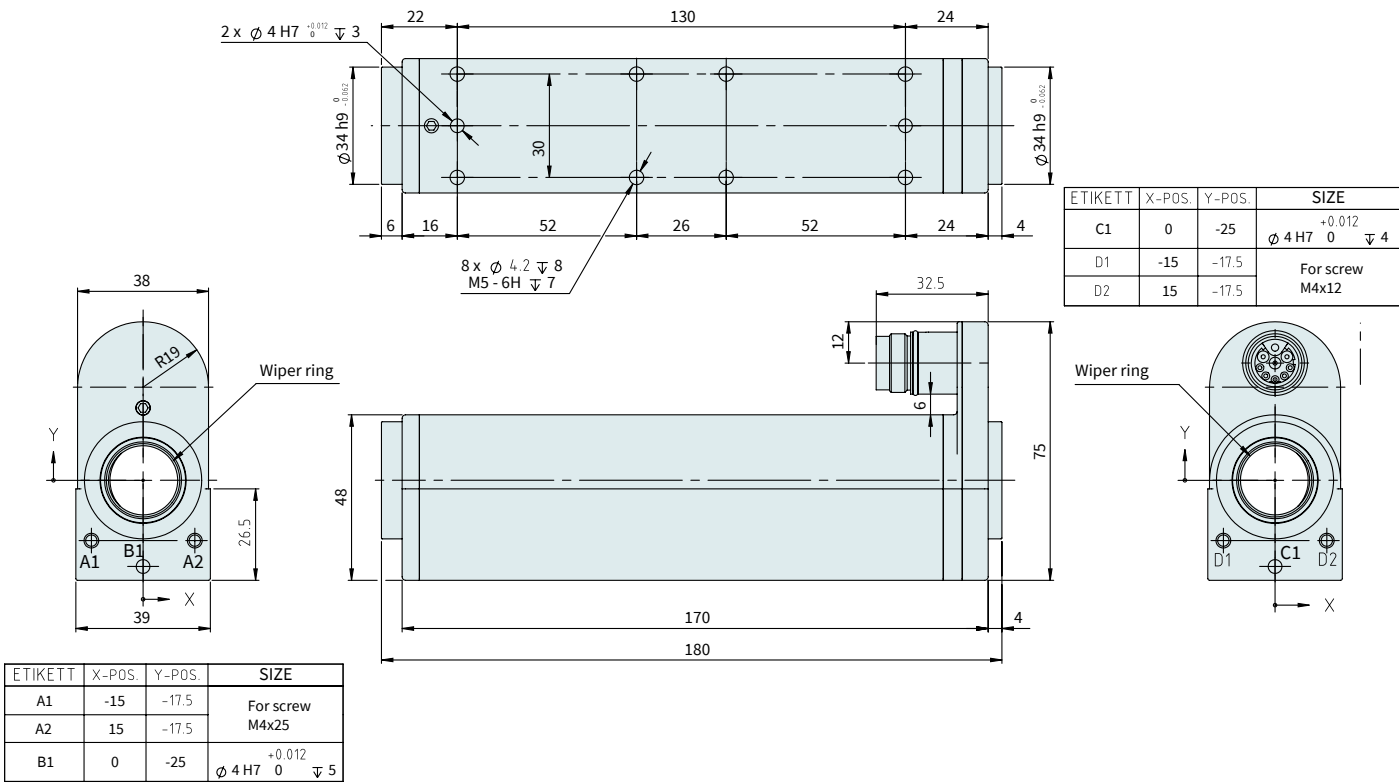


MOTOR FAMILY PS01-37SX120F-HP-SSC

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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		≤ 67	
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 / Fan / Fluid]	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 / Fan / Fluid]	*K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Stator Diameter	mm	(in)	39	(1.5)
Stator Length [Connector type / Cable type]	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			IP 66/67	

STATOR

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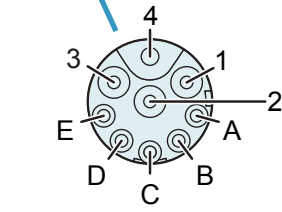
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R*	Stainless steel stator performance moving stator	0150-4096

* Bearings with larger inner diameter

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
Sinus	C	yellow
Cosinus	D	green
Temp.	E	black
Shield	Case	outer Shield

R-Connector



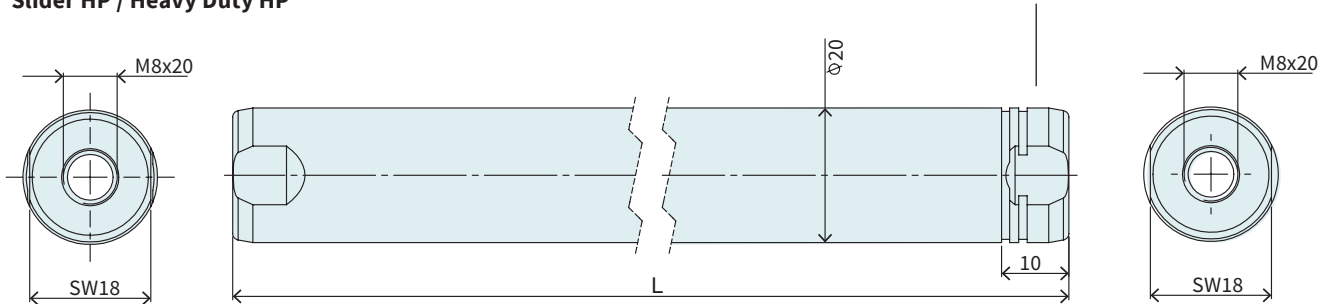
View: Motor Connector, plug side

SLIDER

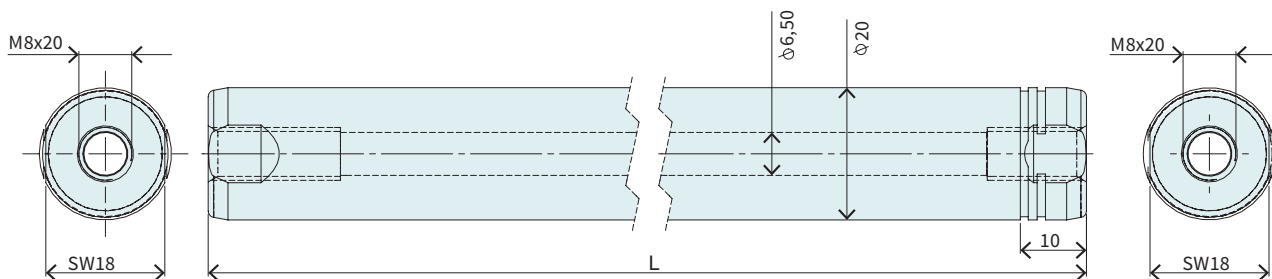
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Slider HP / Heavy Duty HP

Number of grooves determines the slider type
(see chapter 2 / slider) and marks the front end.



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

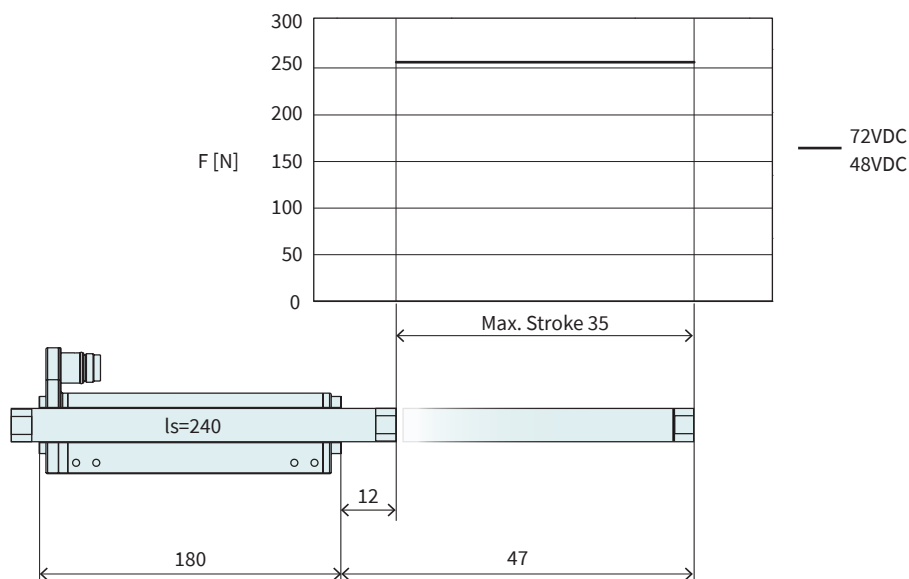
Slider Heavy Duty High Performance			
Item	Description	Max. Stroke [mm]	Item-No.
PL02-20x240/180-HP	Slider 'heavy duty' 'High Performance'	35	0150-2162
PL02-20x300/240-HP	Slider 'heavy duty' 'High Performance'	95	0150-2163
PL02-20x360/300-HP	Slider 'heavy duty' 'High Performance'	155	0150-2164
PL02-20x400/340-HP	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

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-SSC

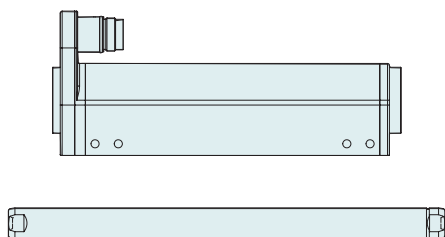
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Max. Stroke: 35 mm
Peak Force: 255 N



Dimensions in mm

Technical Data PS01-37Sx120F/36-HP-SSC				
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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		67	
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 / Fan / Fluid]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	*K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	240	(9.4)
Slider Mass	g	(lb)	490	(1.08)



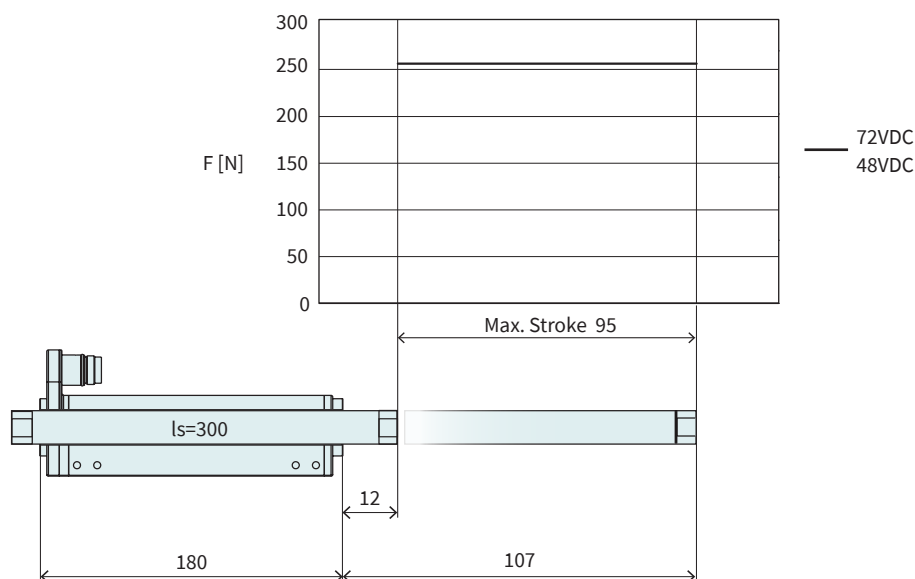
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	0150-4096

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

* With this slider, the motor specifications above change.

PS01-37Sx120F/95-HP-SSC

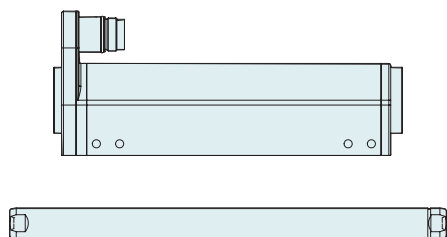
Max. Stroke: 95 mm
Peak Force: 255 N



Dimensions in mm

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

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 / Fan / Fluid]	N (lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%	67	
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 / Fan / Fluid]	A _{pk}	2.7 / 3.4 / 4.6	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 2700 / 800	
Mechanical Data			
Slider Length	mm (in)	300	(12)
Slider Mass	g (lb)	630	(1.39)



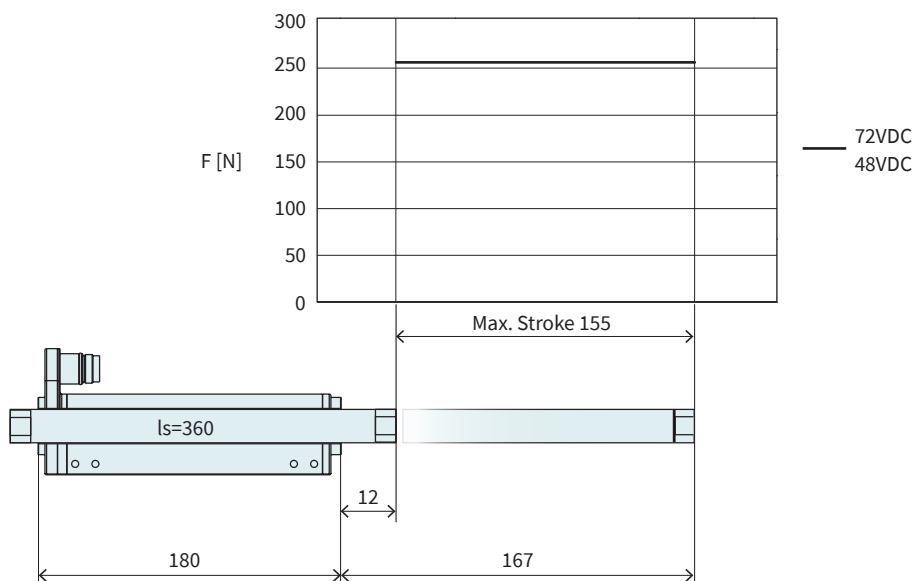
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	Q150-4096

PL01-20x300/240-HP	Slider 'High Performance'	Q150-1506
PL02-20x300/240-HP	Slider 'heavy duty' 'High Performance'	Q150-2163
PL01-20x300/240-HP-L*	Slider 'High Performance L'	Q150-3696

* With this slider, the motor specifications above change.

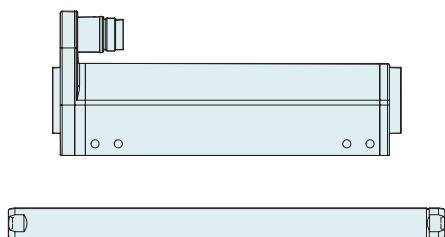
PS01-37Sx120F/155-HP-SSC

Max. Stroke: 155 mm
Peak Force: 255 N



Dimensions in mm

Technical Data PS01-37Sx120F/155-HP-SSC				
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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		67	
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 / Fan / Fluid]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	360	(14)
Slider Mass	g	(lb)	760	(1.67)



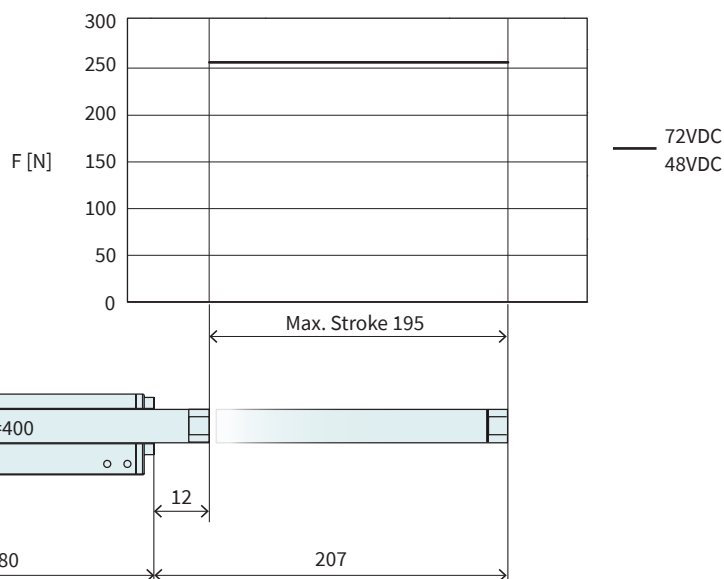
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	0150-4096

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

* With this slider, the motor specifications above change.

PS01-37Sx120F/195-HP-SSC

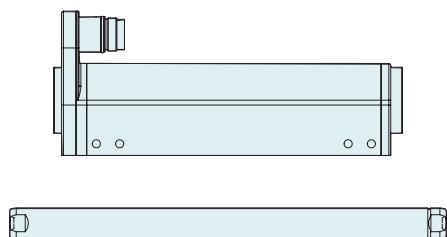
Max. Stroke: 195 mm
Peak Force: 255 N



Dimensions in mm

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

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 / Fan / Fluid]	N (lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%	67	
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 / Fan / Fluid]	A _{pk}	2.7 / 3.4 / 4.6	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 2700 / 800	
Mechanical Data			
Slider Length	mm (in)	400	(16)
Slider Mass	g (lb)	860	(1.9)



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

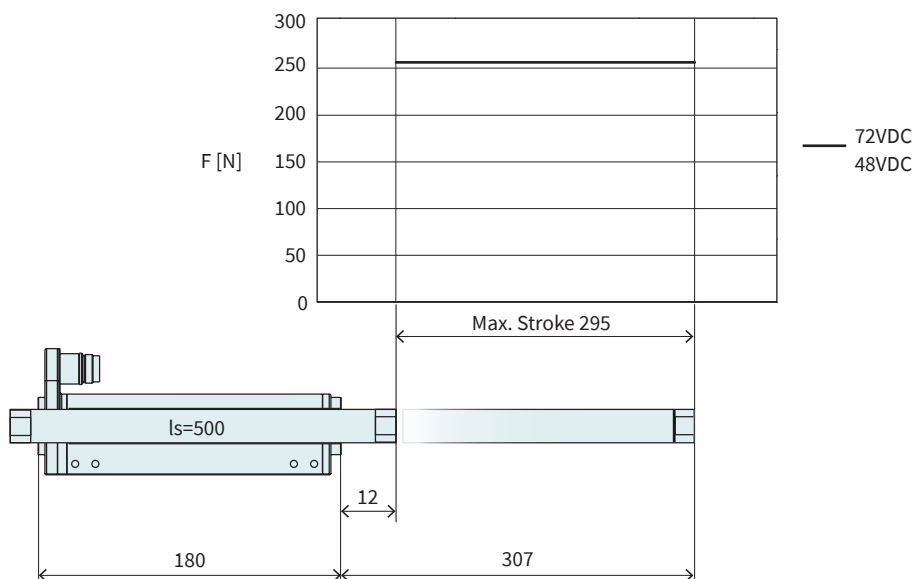
PL01-20x400/340-HP	Slider 'High Performance'	Q150-1508
PL02-20x400/340-HP	Slider 'heavy duty' 'High Performance'	Q150-2165
PL01-20x400/340-HP-L*	Slider 'High Performance L'	Q150-3697

* With this slider, the motor specifications above change.

PS01-37Sx120F/295-HP-SSC

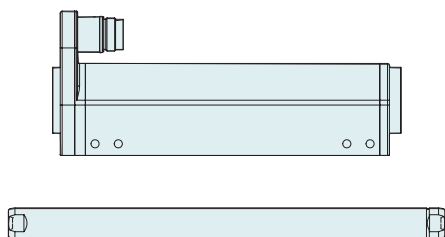
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Max. Stroke: 295 mm
Peak Force: 255 N



Dimensions in mm

Technical Data PS01-37Sx120F/295-HP-SSC				
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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		67	
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 / Fan / Fluid]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	*K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	1090	(2.4)



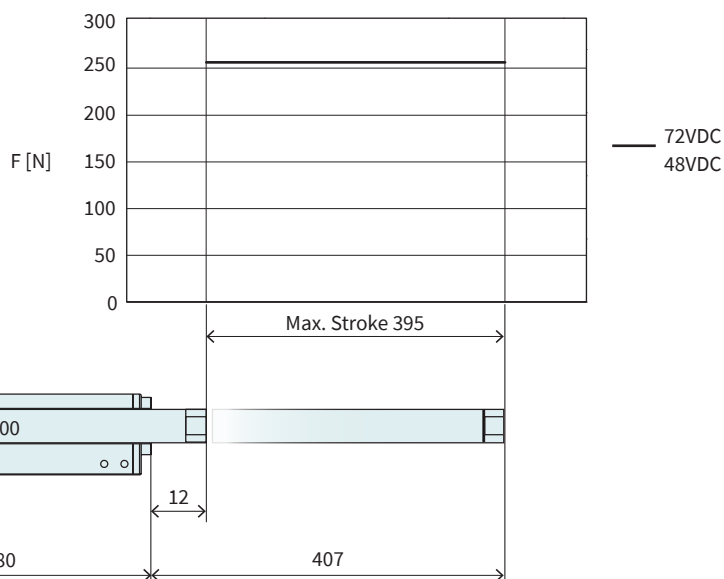
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	0150-4096

PL01-20x500/440-HP	Slider 'High Performance'	0150-1509
PL02-20x500/440-HP	Slider 'heavy duty' 'High Performance'	0150-2166
PL01-20x500/440-HP-L*	Slider 'High Performance L'	0150-3698

* With this slider, the motor specifications above change.

PS01-37Sx120F/395-HP-SSC

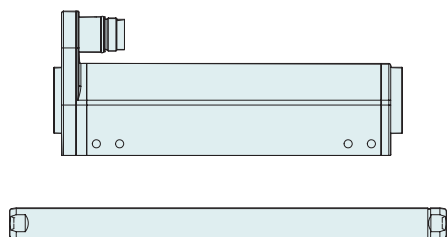
Max. Stroke: 395 mm
Peak Force: 255 N



Dimensions in mm

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

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 / Fan / Fluid]	N (lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%	67	
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 / Fan / Fluid]	A _{pk}	2.7 / 3.4 / 4.6	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 2700 / 800	
Mechanical Data			
Slider Length	mm (in)	600	(24)
Slider Mass	g (lb)	1330	(2.93)



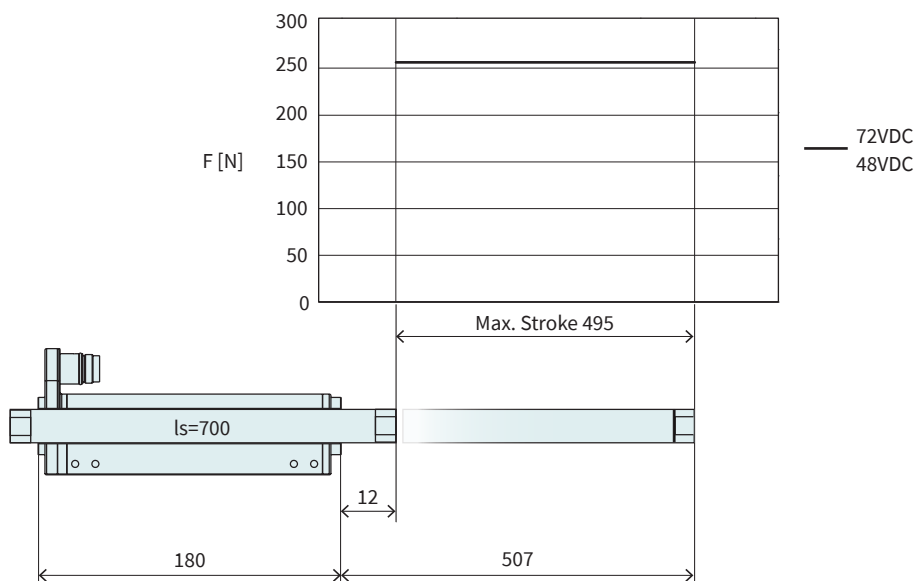
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	Q150-4096

PL01-20x600/540-HP	Slider 'High Performance'	Q150-1510
PL02-20x600/540-HP	Slider 'heavy duty' 'High Performance'	Q150-2167
PL01-20x600/540-HP-L*	Slider 'High Performance L'	Q150-3699

* With this slider, the motor specifications above change.

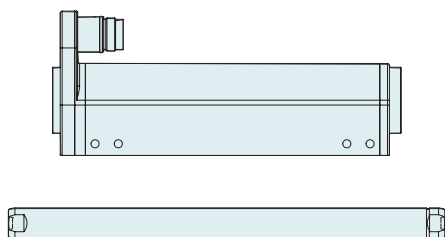
PS01-37Sx120F/495-HP-SSC

Max. Stroke: 495 mm
Peak Force: 255 N



Dimensions in mm

Technical Data PS01-37Sx120F/495-HP-SSC				
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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		67	
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 / Fan / Fluid]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	*K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	700	(28)
Slider Mass	g	(lb)	1560	(3.43)



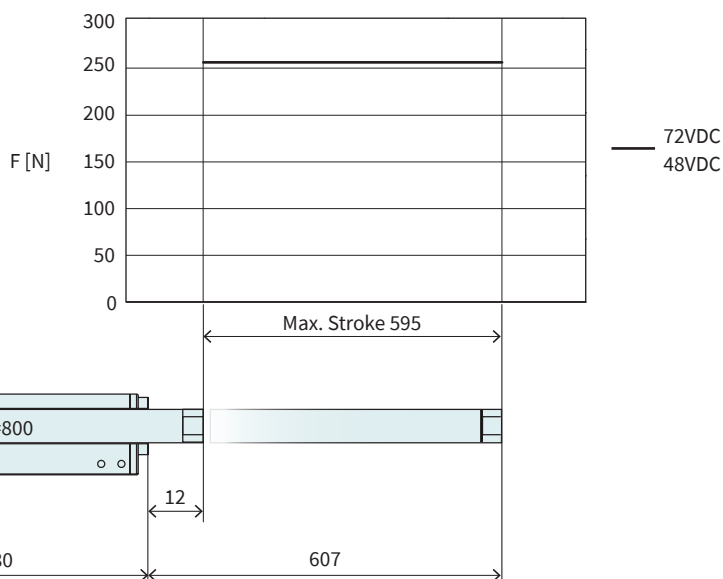
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	0150-4096

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

* With this slider, the motor specifications above change.

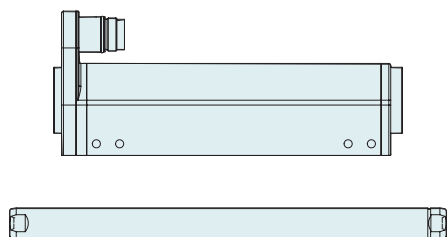
PS01-37Sx120F/595-HP-SSC

Max. Stroke: 595 mm
Peak Force: 255 N



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

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 / Fan / Fluid]	N (lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%	67	
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 / Fan / Fluid]	A _{pk}	2.7 / 3.4 / 4.6	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 2700 / 800	
Mechanical Data			
Slider Length	mm (in)	800	(31)
Slider Mass	g (lb)	1790	(3.94)



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

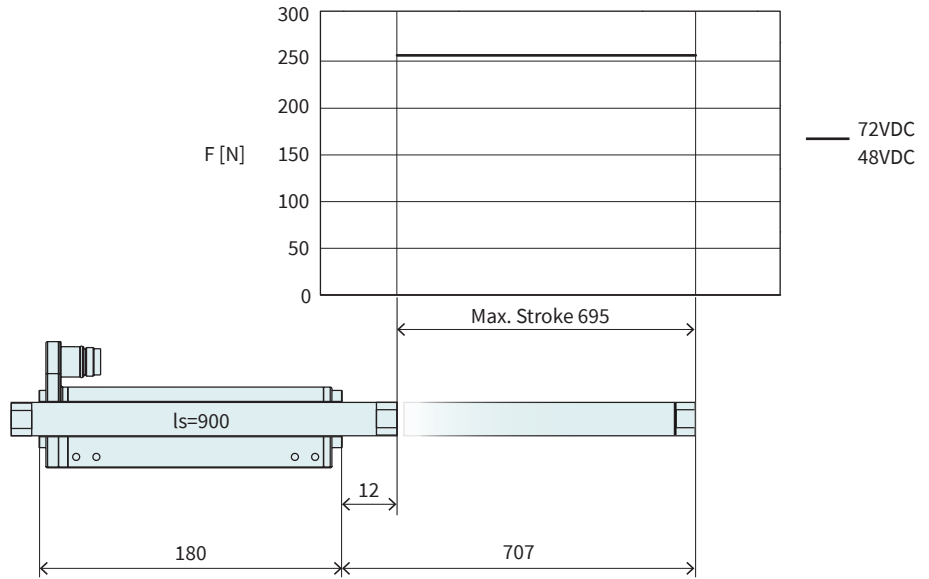
PL01-20x800/740-HP	Slider 'High Performance'	Q150-1512
PL02-20x800/740-HP	Slider 'heavy duty' 'High Performance'	Q150-2169
PL01-20x800/740-HP-L*	Slider 'High Performance L'	Q150-3701

* With this slider, the motor specifications above change.

PS01-37Sx120F/695-HP-SSC

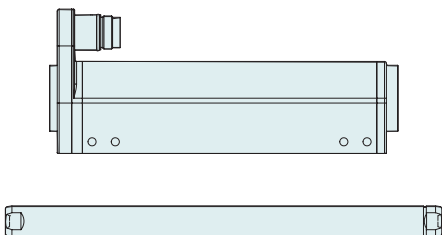
3

Max. Stroke: 695 mm
Peak Force: 255 N



Dimensions in mm

Technical Data PS01-37Sx120F/695-HP-SSC				
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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		67	
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 / Fan / Fluid]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	900	(35)
Slider Mass	g	(lb)	2020	(4.44)



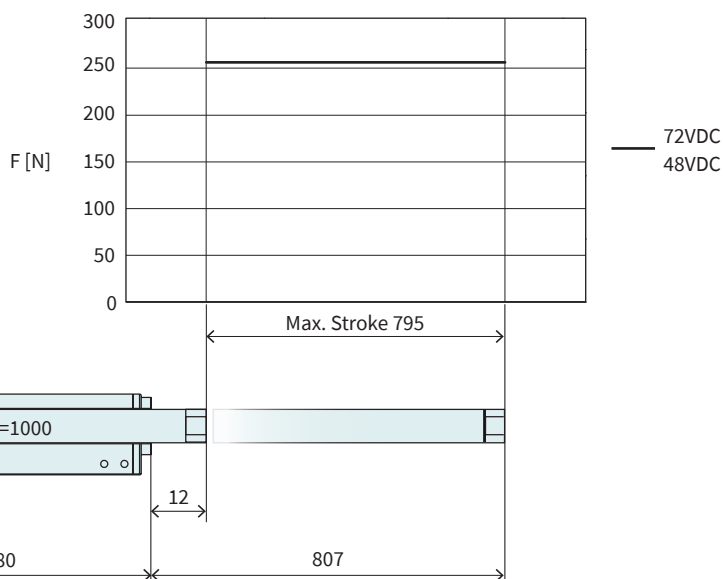
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	0150-4096

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

* With this slider, the motor specifications above change.

PS01-37Sx120F/795-HP-SSC-SSC

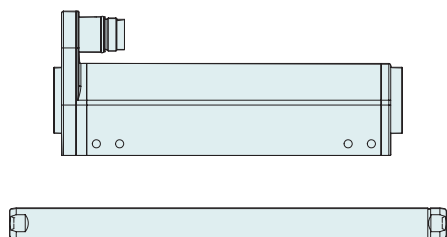
Max. Stroke: 795 mm
Peak Force: 255 N



Dimensions in mm

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

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 / Fan / Fluid]	N (lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%	67	
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 / Fan / Fluid]	A _{pk}	2.7 / 3.4 / 4.6	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 2700 / 800	
Mechanical Data			
Slider Length	mm (in)	1000	(39)
Slider Mass	g (lb)	2230	(4.91)



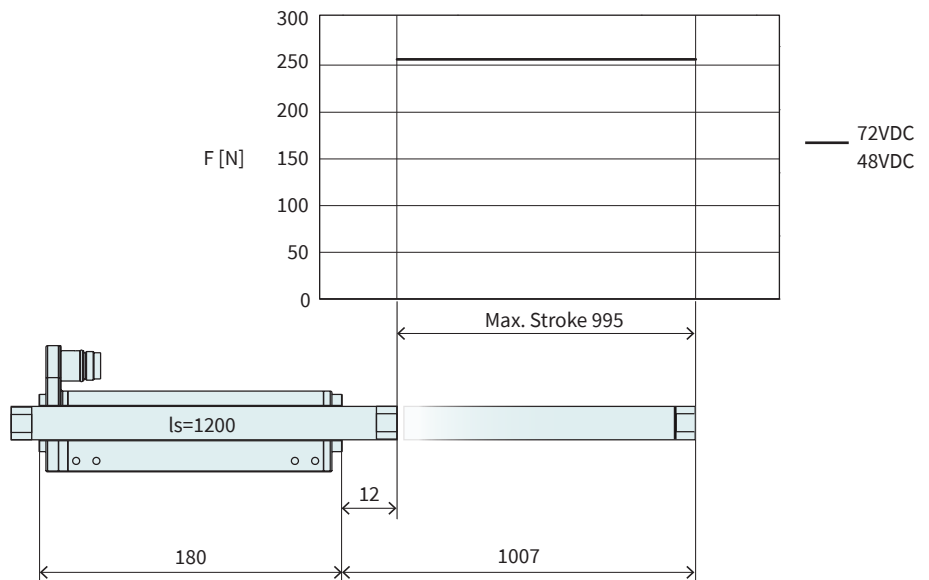
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	Q150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	Q150-4096

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

* With this slider, the motor specifications above change.

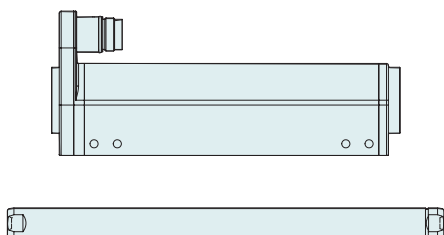
PS01-37Sx120F/995-HP-SSC-SSC

Max. Stroke: 995 mm
Peak Force: 255 N



Dimensions in mm

Technical Data PS01-37Sx120F/995-HP-SSC				
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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		67	
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 / Fan / Fluid]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	1200	(47)
Slider Mass	g	(lb)	2690	(5.92)



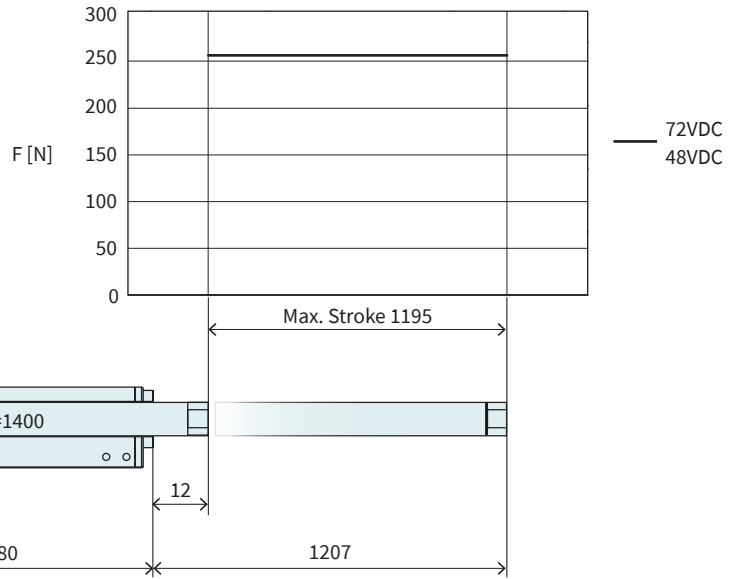
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	0150-4096

PL01-20x1200/1140-HP	Slider 'High Performance'	0150-1515
PL01-20x1200/1140-HP-L*	Slider 'High Performance L'	0150-2510

* With this slider, the motor specifications above change.

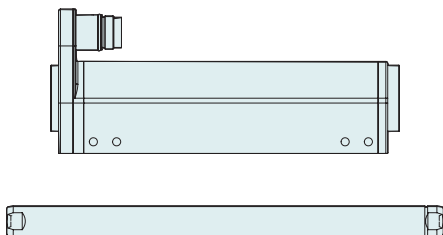
PS01-37Sx120F/1195-HP-SSC

Max. Stroke: 1195 mm
Peak Force: 255 N



Dimensions in mm

Technical Data PS01-37Sx120F/1195-HP-SSC				
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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		67	
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 / Fan / Fluid]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	1400	(55)
Slider Mass	g	(lb)	3160	(6.95)



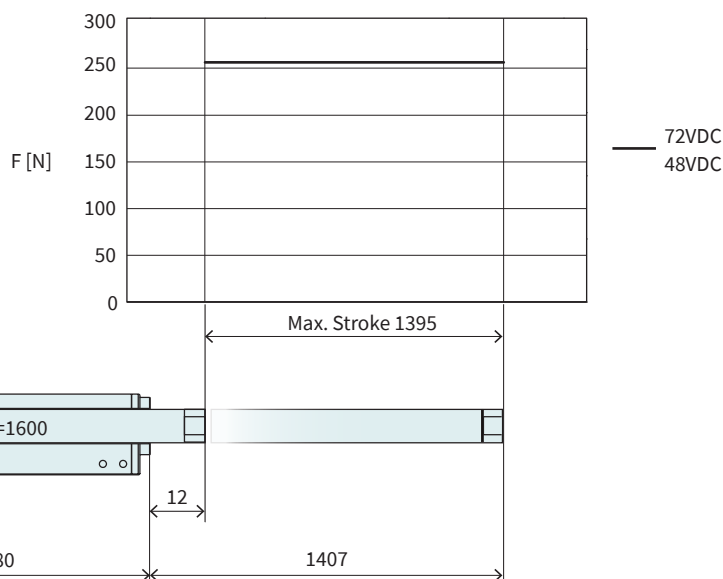
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	0150-4096

PL01-20x1400/1340-HP	Slider 'High Performance'	0150-1516
PL01-20x1400/1340-HP-L*	Slider 'High Performance L'	on request

* With this slider, the motor specifications above change.

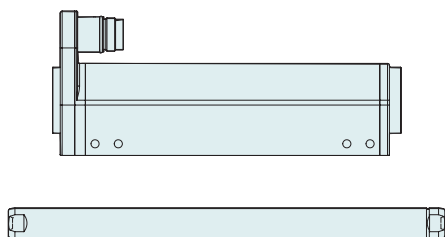
PS01-37Sx120F/1395-HP-SSC

Max. Stroke: 1395 mm
Peak Force: 255 N



Dimensions in mm

Technical Data PS01-37Sx120F/1395-HP-SSC				
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 / Fan / Fluid]	N	(lbf)	46 / 58 / 78	(10.2 / 12.9 / 17.4)
Max. Border Force relative	%		67	
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 / Fan / Fluid]	A _{pk}		2.7 / 3.4 / 4.6	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		3 / 2 / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 2700 / 800	
Mechanical Data				
Slider Length	mm	(in)	1600	(63)
Slider Mass	g	(lb)	3620	(7.96)



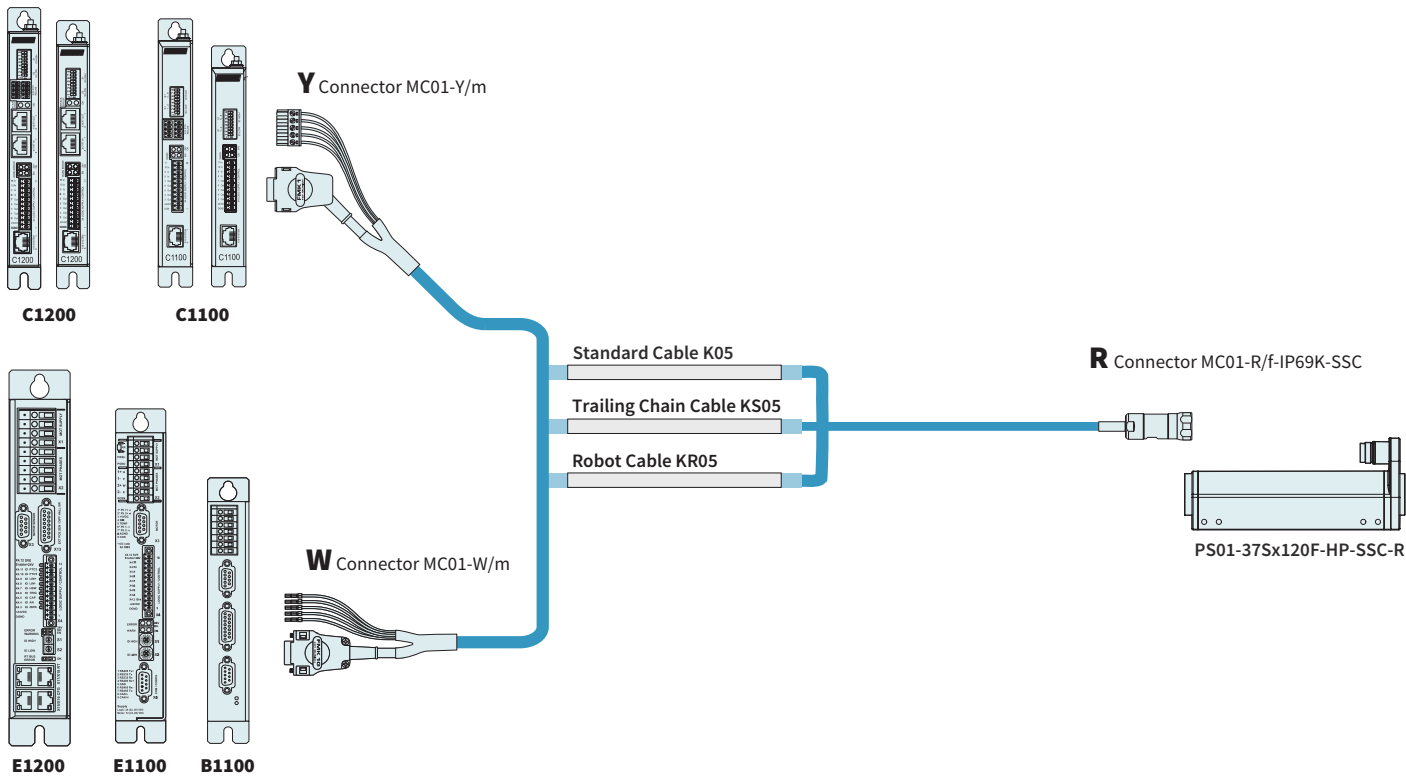
Item	Description	Item-No.
PS01-37Sx120F-HP-B02-SSCP-R	Stainless steel stator performance standard	0150-4097
PS01-37Sx120F-HP-B03-SSCP-R	Stainless steel stator performance moving stator	0150-4096

PL01-20x1600/1540-HP	Slider 'High Performance'	0150-1517
PL01-20x1600/1540-HP-L*	Slider 'High Performance' L	on request

* With this slider, the motor specifications above change.

Motor Cable

3



ORDERING INFORMATION

TRAILING CHAIN CABLE		
Item	Description	Item-No.
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-SSC-	Robot Cable KR05-W/R-SSC-, Custom length	0150-3587

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-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

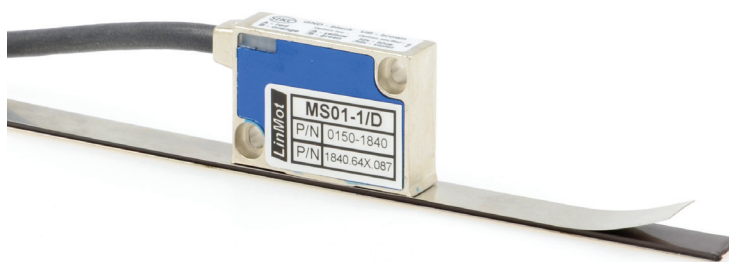
SLIDER MOUNTING



Item	Description	Item-No.
PLF01-20	Fixed Bearing Set for 19/20 mm sliders	0150-3083
PLF01-20-SS	Fixed Bearing Set for 19/20 mm sliders, stainless steel	0150-3296
PLL01-19	Floating Bearing for 19 mm sliders	0150-3335
PLL01-20	Floating Bearing for 20 mm sliders	0150-3084
PLM01-20-MK	Mounting Kit for 20 mm sliders	0150-3079

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

EXTERNAL POSITION SENSORS



Item	Description	Item-No.
MS01-1/D	Linear Encoder 1µm, A/B (for inc. strip)	0150-1840
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	0150-1963
KS025-D/D-Encoder	Encoder Cable (Length in m)	0150-3166
KS025-D/D15-Encoder	Encoder Cable (Length in m)	0150-3168

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



Item	Description	Item-No.
MS01-1/D-SSI	Linear Encoder 1µm, A/B (for absolute strip)	0150-2095
MB01-1000-ABS	Magnetic absolute strip for MS01-1/D-SSI (per cm)	0150-2096
EC01-ABS/ENC-12-S	MS01-1/D-SSI Encoder connector straight	0150-3616
KSS01-12-D15/ABS-ENC	Special cable for MS01-1/D-SSI on C1100/C1200/C1400/E1200/E1400 Drives	0150-3652

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".