

LINEAR MOTORS PS01-48X150G-HP-SSCP



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

LINEAR MOTORS PS01-48X150G-HP-SSCP

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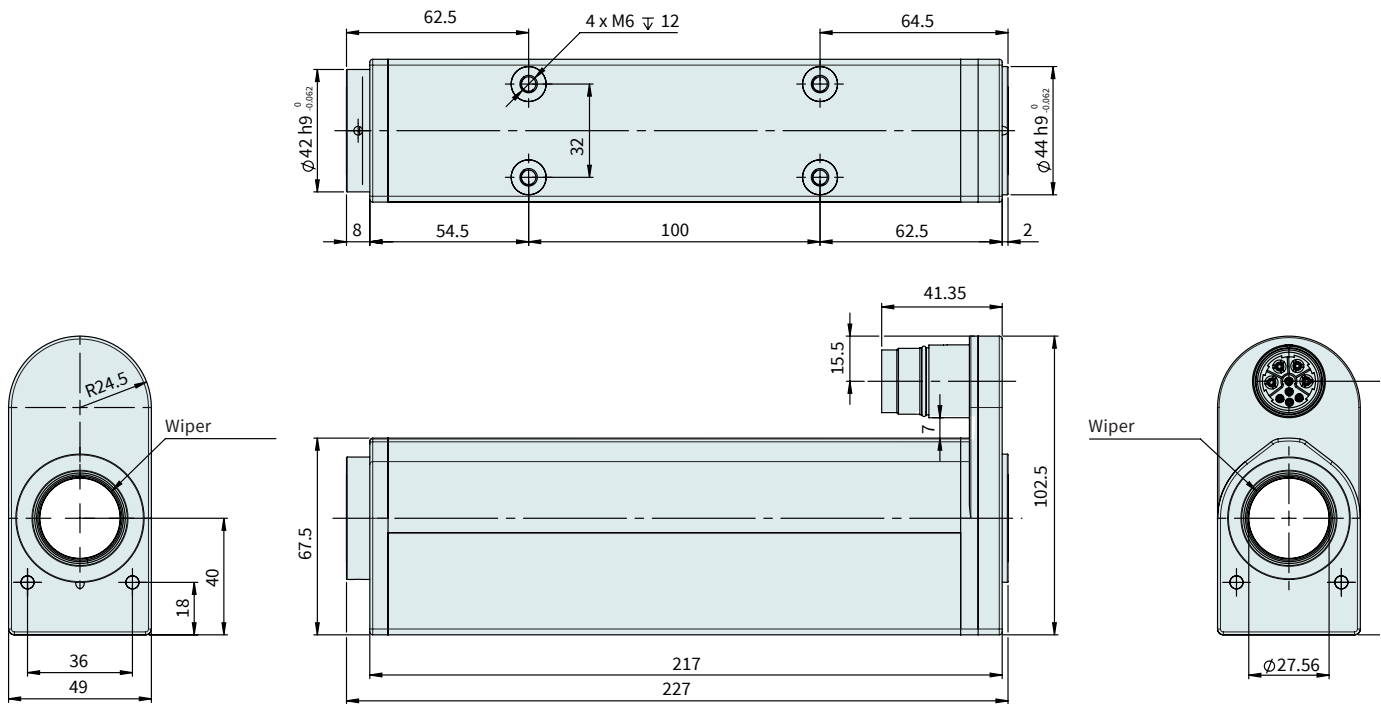


MOTOR FAMILY PS01-48X150G-HP-SSCP

Technical Data				
Stroke				
Maximum Stroke	mm	(in)	≤ 1355	(≤ 53.3)
Force				
Max. Force @ 48VDC	N	(lbf)	360	(80.9)
Max. Force @ 72VDC	N	(lbf)	360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative			%	100
Force Constant	N/A _{pk}	(lbf/A _{pk})	15.65	(3.02)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.7	(108)
Max. Velocity @ 72VDC	m/s	(in/s)	4.1	(164)
Position Detection				
Position Resolution	mm	(in)	0.007	(0.00028)
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}	23
Max. Current @ 72VDC			A _{pk}	23
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]			A _{pk}	5.5/ 6.6 / 8.8
Terminal Resistance 25 °C / 150 °C			Ohm	0.81 / 1.2
Terminal Inductivity			mH	0.7
Magnetic Period	mm	(in)	60	(2.36)
Thermal Data				
Max. Winding Temperature (Sensor)			°C	120
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]			°K/W	2.3 / 1.7 / 0.95
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]			s	1400 / 3500 / 800
Mechanical Data				
Stator Diameter	mm	(in)	49	(1.93)
Stator Length	mm	(in)	227	(8.94)
Stator Mass	g	(lb)	2360	(5.21)
Slider Diameter	mm	(in)	28	(1.1)
Slider Length	mm	(in)	260 - 1610	(10.2 - 63.4)
Slider Mass	g	(lb)	1095 - 7372	(2.41 - 16.25)
IP Code			IP 69	

1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.

STATOR



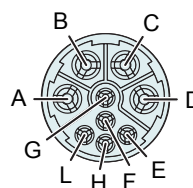
Material: Housing (Stainless Steel 1.4404 / AISI 316L), Bearing (PPS, PEEK), Wiper (H-ECOPUR / TPU)

Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Performance Standard	0150-4226

CONNECTOR

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

C-Connector



View: Motor Connector, plug side

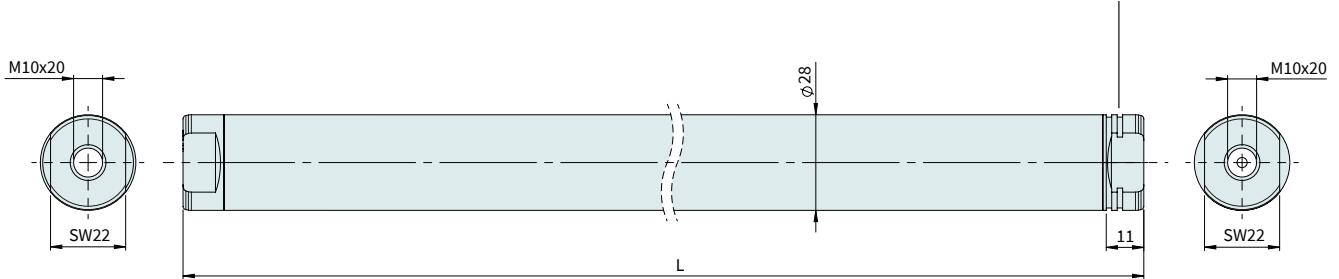
SLIDER

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). 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

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

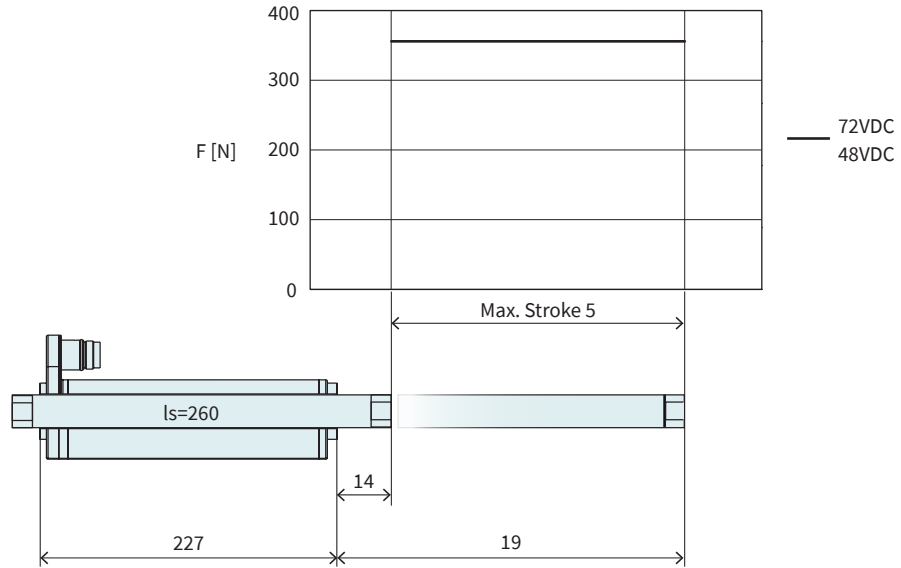


Slider High Performance			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-28x260/210-HP	Slider 'High Performance'	5	0150-3861
PL01-28x290/240-HP	Slider 'High Performance'	35	0150-3862
PL01-28x350/300-HP	Slider 'High Performance'	95	0150-3820
PL01-28x410/360-HP	Slider 'High Performance'	155	0150-3821
PL01-28x500/450-HP	Slider 'High Performance'	245	0150-3822
PL01-28x620/570-HP	Slider 'High Performance'	365	0150-3823
PL01-28x710/660-HP	Slider 'High Performance'	455	0150-3824
PL01-28x800/750-HP	Slider 'High Performance'	545	0150-3825
PL01-28x920/870-HP	Slider 'High Performance'	665	0150-3878
PL01-28x1010/960-HP	Slider 'High Performance'	755	0150-3827
PL01-28x1220/1170-HP	Slider 'High Performance'	965	0150-3828
PL01-28x1400/1350-HP	Slider 'High Performance'	1145	0150-3829
PL01-28x1610/1560-HP	Slider 'High Performance'	1355	0150-3830

Slider High Performance HCR			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-28x260/210-HP-W01	Slider 'High Performance' HCR	5	0150-4259
PL01-28x290/240-HP-W01	Slider 'High Performance' HCR	35	0150-4288
PL01-28x350/300-HP-W01	Slider 'High Performance' HCR	95	0150-4289
PL01-28x410/360-HP-W01	Slider 'High Performance' HCR	155	0150-4290
PL01-28x500/450-HP-W01	Slider 'High Performance' HCR	245	0150-4291
PL01-28x620/570-HP-W01	Slider 'High Performance' HCR	365	0150-4292
PL01-28x710/660-HP-W01	Slider 'High Performance' HCR	455	0150-4293
PL01-28x800/750-HP-W01	Slider 'High Performance' HCR	545	0150-4294
PL01-28x920/870-HP-W01	Slider 'High Performance' HCR	665	0150-4295
PL01-28x1010/960-HP-W01	Slider 'High Performance' HCR	755	0150-4296
PL01-28x1220/1170-HP-W01	Slider 'High Performance' HCR	965	0150-4297
PL01-28x1400/1350-HP-W01	Slider 'High Performance' HCR	1145	0150-4298
PL01-28x1610/1560-HP-W01	Slider 'High Performance' HCR	1355	0150-4299

PS01-48x150G/5-HP-SSCP

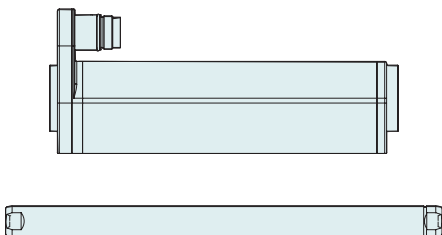
Max. Stroke: 5 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/5-HP-SSCP			
Stroke			
Maximum Stroke	mm (in)	5 (0.19)	
Force			
Max. Force @ 48VDC	N (lbf)	360 (80.9)	
Max. Force @ 72VDC	N (lbf)	360 (80.9)	
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)	86 / 101 / 138 (19.3 / 22.7 / 31)	
Max. Border Force relative	%	100	
Force Constant	N/A _{pk} (lbf/A _{pk})	15.65 (3.02)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	2.7 (108)	
Max. Velocity @ 72VDC	m/s (in/s)	4.1 (164)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.7	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	23	
Max. Current @ 72VDC	A _{pk}	23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}	5.5 / 6.6 / 8.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W	2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s	1400 / 3500 / 800	
Mechanical Data			
Slider Length	mm (in)	260 (10.2)	
Slider Mass	g (lb)	1095 (2.41)	

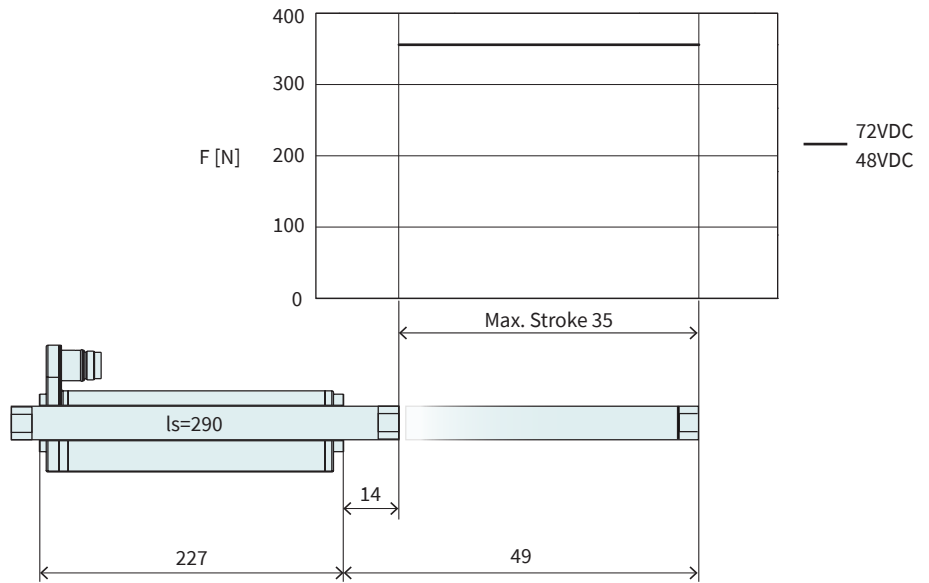
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x260/210-HP	Slider 'High Performance'	0150-3861
PL01-28x260/210-HP-W01	Slider 'High Performance' HCR	0150-4259

PS01-48x150G/35-HP-SSCP

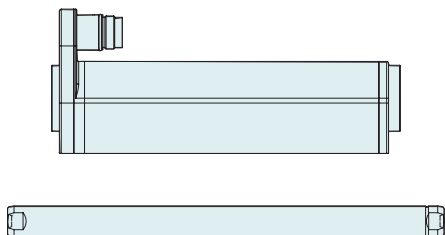
Max. Stroke: 35 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/35-HP-SSCP			
Stroke			
Maximum Stroke	mm (in)		35 (1.38)
Force			
Max. Force @ 48VDC	N (lbf)		360 (80.9)
Max. Force @ 72VDC	N (lbf)		360 (80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)		86 / 101 / 138 (19.3 / 22.7 / 31)
Max. Border Force relative	%		100
Force Constant	N/A _{pk} (lbf/A _{pk})		15.65 (3.02)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)		2.7 (108)
Max. Velocity @ 72VDC	m/s (in/s)		4.1 (164)
Position Detection			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.6
Electrical Data			
Max. Current @ 48VDC	A _{pk}		23
Max. Current @ 72VDC	A _{pk}		23
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		5.5 / 6.6 / 8.8
Thermal Data			
Max. Winding Temperature (Sensor)	°C		120
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		2.3 / 1.7 / 0.95
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1400 / 3500 / 800
Mechanical Data			
Slider Length	mm (in)		290 (12)
Slider Mass	g (lb)		1234 (2.72)

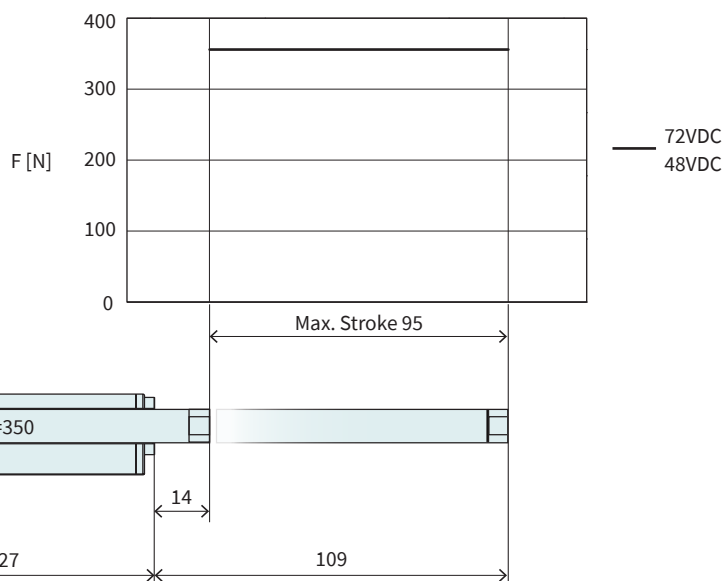
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x290/240-HP	Slider 'High Performance'	0150-3862
PL01-28x290/240-HP-W01	Slider 'High Performance' HCR	0150-4288

PS01-48x150G/95-HP-SSCP

Max. Stroke: 95 mm
Peak Force: 360 N

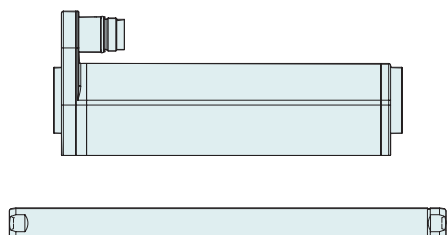


Dimensions in mm

Technical Data PS01-48x150G/95-HP-SSCP

Stroke			
Maximum Stroke	mm (in)	95 (3.74)	
Force			
Max. Force @ 48VDC	N (lbf)	360 (80.9)	
Max. Force @ 72VDC	N (lbf)	360 (80.9)	
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)	86 / 101 / 138 (19.3 / 22.7 / 31)	
Max. Border Force relative	%	100	
Force Constant	N/A _{pk} (lbf/A _{pk})	15.65 (3.02)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	2.7 (108)	
Max. Velocity @ 72VDC	m/s (in/s)	4.1 (164)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.45	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	23	
Max. Current @ 72VDC	A _{pk}	23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}	5.5 / 6.6 / 8.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W	2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s	1400 / 3500 / 800	
Mechanical Data			
Slider Length	mm (in)	350 (13.8)	
Slider Mass	g (lb)	1513 (3.34)	

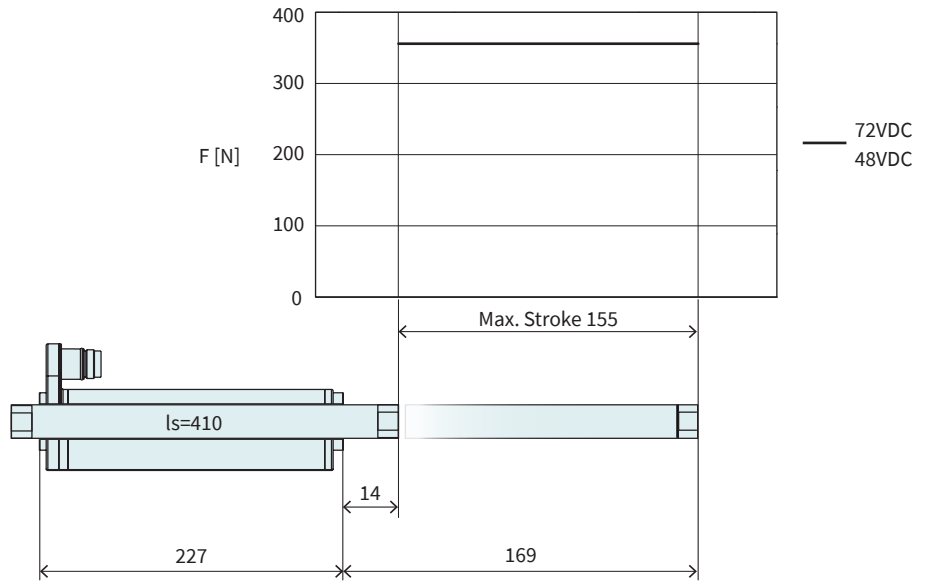
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x350/300-HP	Slider 'High Performance'	0150-3820
PL01-28x350/300-HP-W01	Slider 'High Performance' HCR	0150-4289

PS01-48x150G/155-HP-SSCP

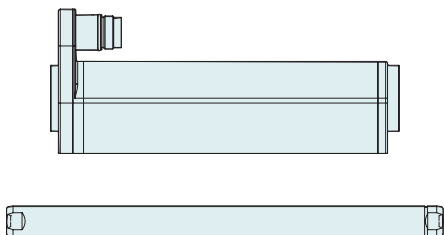
Max. Stroke: 155 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/155-HP-SSCP			
Stroke			
Maximum Stroke	mm (in)	155	(6.10)
Force			
Max. Force @ 48VDC	N (lbf)	360	(80.9)
Max. Force @ 72VDC	N (lbf)	360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)	86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative	%	100	
Force Constant	N/A _{pk} (lbf/A _{pk})	15.65	(3.02)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	2.7	(108)
Max. Velocity @ 72VDC	m/s (in/s)	4.1	(164)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.4	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	23	
Max. Current @ 72VDC	A _{pk}	23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}	5.5 / 6.6 / 8.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W	2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s	1400 / 3500 / 800	
Mechanical Data			
Slider Length	mm (in)	410	(16.1)
Slider Mass	g (lb)	1792	(3.95)

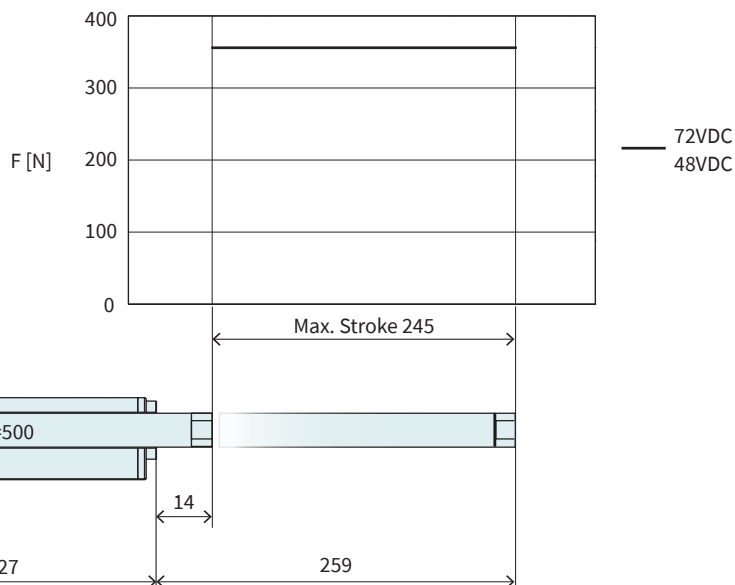
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x410/360-HP	Slider 'High Performance'	0150-3821
PL01-28x410/360-HP-W01	Slider 'High Performance' HCR	0150-4290

PS01-48x150G/245-HP-SSCP

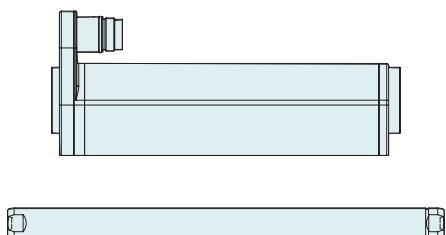
Max. Stroke: 245 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/245-HP-SSCP				
Stroke				
Maximum Stroke	mm (in)		245	(9.65)
Force				
Max. Force @ 48VDC	N (lbf)		360	(80.9)
Max. Force @ 72VDC	N (lbf)		360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)		86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk} (lbf/A _{pk})		15.65	(3.02)
Velocity				
Max. Velocity @ 48VDC	m/s (in/s)		2.7	(108)
Max. Velocity @ 72VDC	m/s (in/s)		4.1	(164)
Position Detection				
Repeatability	mm (in)		±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		23	
Max. Current @ 72VDC	A _{pk}		23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		5.5 / 6.6 / 8.8	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1400 / 3500 / 800	
Mechanical Data				
Slider Length	mm (in)		500	(20)
Slider Mass	g (lb)		2210	(4.87)

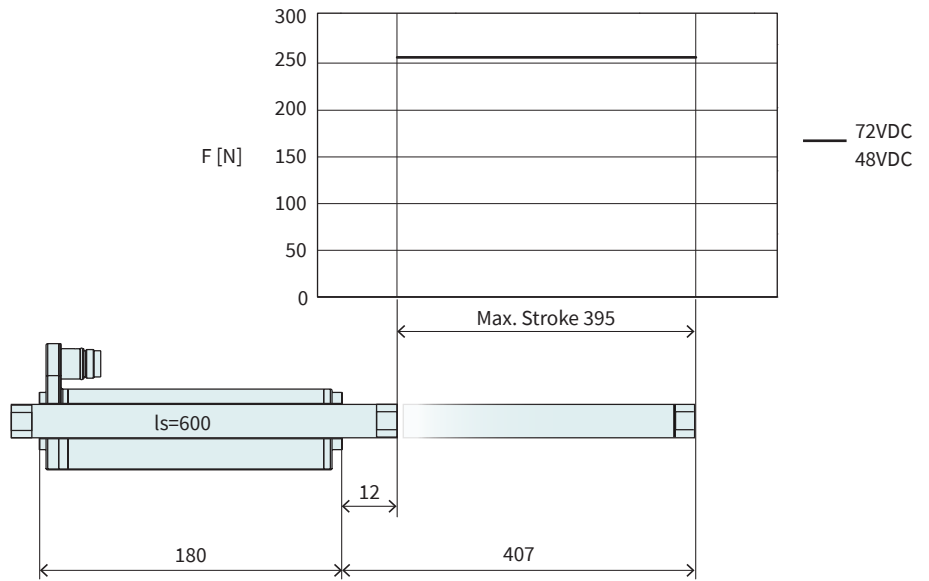
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x500/450-HP	Slider 'High Performance'	0150-3822
PL01-28x500/450-HP-W01	Slider 'High Performance' HCR	0150-4291

PS01-48x150G/365-HP-SSCP

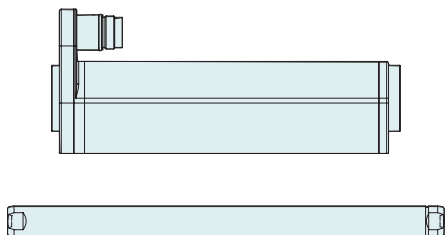
Max. Stroke: 365 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/365-HP-SSCP			
Stroke			
Maximum Stroke	mm (in)	365 (14.37)	
Force			
Max. Force @ 48VDC	N (lbf)	360 (80.9)	
Max. Force @ 72VDC	N (lbf)	360 (80.9)	
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)	86 / 101 / 138 (19.3 / 22.7 / 31)	
Max. Border Force relative	%	100	
Force Constant	N/A _{pk} (lbf/A _{pk})	15.65 (3.02)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	2.7 (108)	
Max. Velocity @ 72VDC	m/s (in/s)	4.1 (164)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.25	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	23	
Max. Current @ 72VDC	A _{pk}	23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}	5.5 / 6.6 / 8.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W	2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s	1400 / 3500 / 800	
Mechanical Data			
Slider Length	mm (in)	620 (24.4)	
Slider Mass	g (lb)	2768 (6.10)	

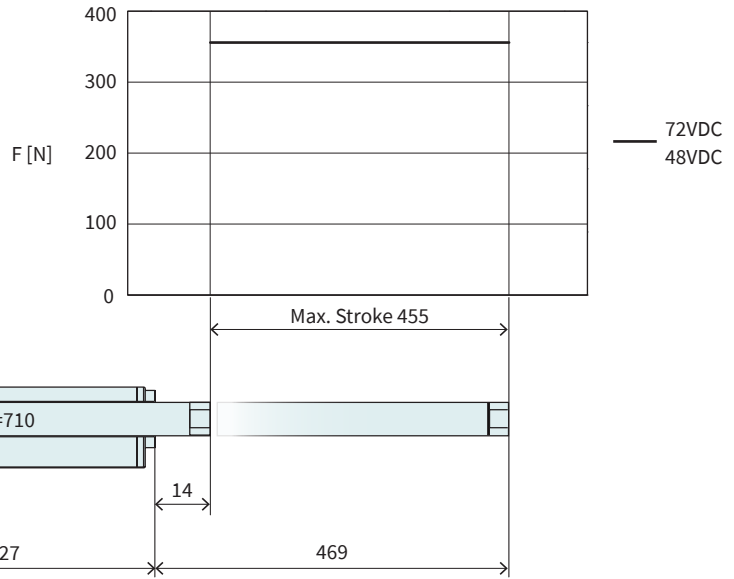
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x620/570-HP	Slider 'High Performance'	0150-3823
PL01-28x620/570-HP-W01	Slider 'High Performance' HCR	0150-4292

PS01-48x150G/455-HP-SSCP

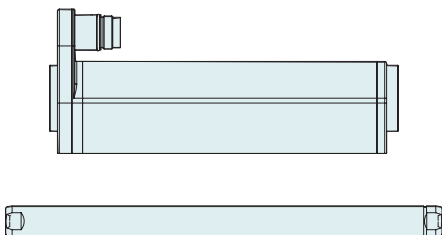
Max. Stroke: 455 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/455-HP-SSCP				
Stroke				
Maximum Stroke	mm (in)		455	(17.91)
Force				
Max. Force @ 48VDC	N (lbf)		360	(80.9)
Max. Force @ 72VDC	N (lbf)		360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)		86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative	%		100	
Force Constant	N/A _{pk} (lbf/A _{pk})		15.65	(3.02)
Velocity				
Max. Velocity @ 48VDC	m/s (in/s)		2.7	(108)
Max. Velocity @ 72VDC	m/s (in/s)		4.1	(164)
Position Detection				
Repeatability	mm (in)		±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		23	
Max. Current @ 72VDC	A _{pk}		23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		5.5 / 6.6 / 8.8	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1400 / 3500 / 800	
Mechanical Data				
Slider Length	mm (in)		710	(27.9)
Slider Mass	g (lb)		3187	(7.03)

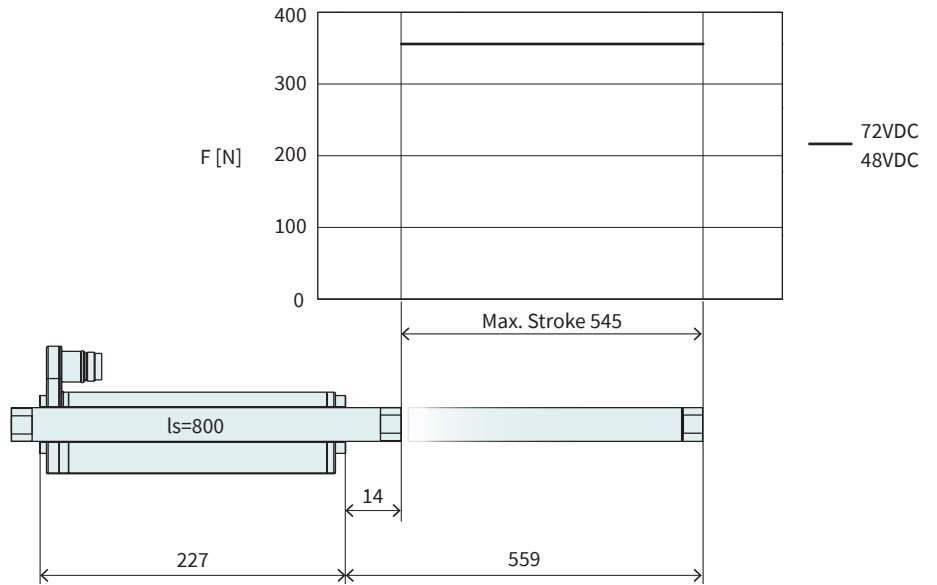
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x710/660-HP	Slider 'High Performance'	0150-3824
PL01-28x710/660-HP-W01	Slider 'High Performance' HCR	0150-4293

PS01-48x150G/545-HP-SSCP

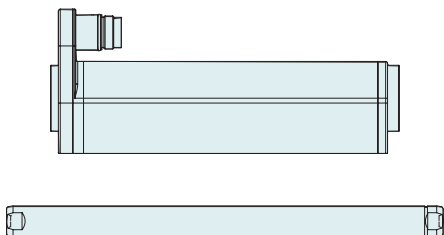
Max. Stroke: 545 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/545-HP-SSCP			
Stroke			
Maximum Stroke	mm (in)	545	(21.46)
Force			
Max. Force @ 48VDC	N (lbf)	360	(80.9)
Max. Force @ 72VDC	N (lbf)	360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)	86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative	%	100	
Force Constant	N/A _{pk} (lbf/A _{pk})	15.65	(3.02)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	2.7	(108)
Max. Velocity @ 72VDC	m/s (in/s)	4.1	(164)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	23	
Max. Current @ 72VDC	A _{pk}	23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}	5.5 / 6.6 / 8.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W	2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s	1400 / 3500 / 800	
Mechanical Data			
Slider Length	mm (in)	800	(31)
Slider Mass	g (lb)	3605	(7.95)

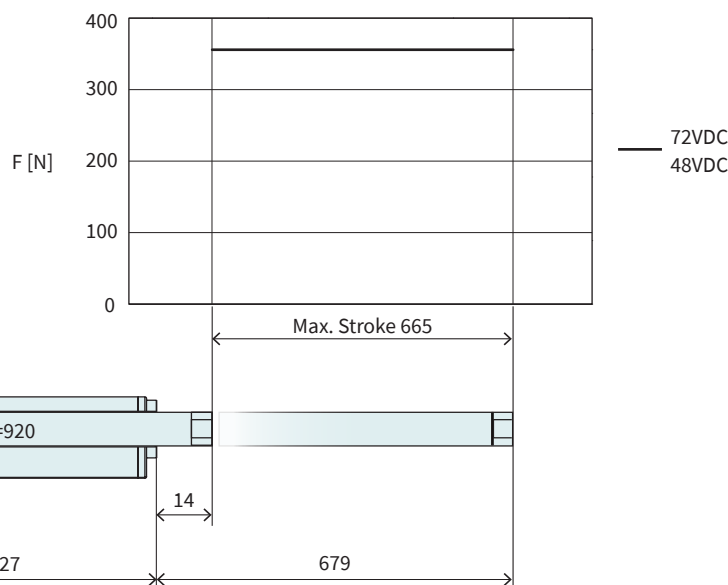
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x800/750-HP	Slider 'High Performance'	0150-3825
PL01-28x800/750-HP-W01	Slider 'High Performance' HCR	0150-4294

PS01-48x150G/665-HP-SSCP

Max. Stroke: 665 mm
Peak Force: 360 N

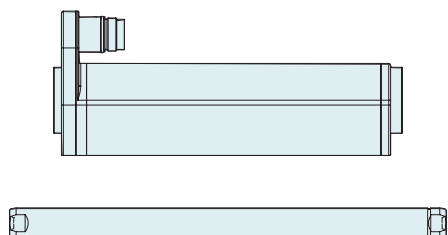


Dimensions in mm

Technical Data PS01-48x150G/665-HP-SSCP

Stroke			
Maximum Stroke	mm (in)	665 (26.18)	
Force			
Max. Force @ 48VDC	N (lbf)	360 (80.9)	
Max. Force @ 72VDC	N (lbf)	360 (80.9)	
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N (lbf)	86 / 101 / 138 (19.3 / 22.7 / 31)	
Max. Border Force relative	%	100	
Force Constant	N/A _{pk} (lbf/A _{pk})	15.65 (3.02)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	2.7 (108)	
Max. Velocity @ 72VDC	m/s (in/s)	4.1 (164)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	23	
Max. Current @ 72VDC	A _{pk}	23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}	5.5 / 6.6 / 8.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W	2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s	1400 / 3500 / 800	
Mechanical Data			
Slider Length	mm (in)	920 (36.2)	
Slider Mass	g (lb)	4163 (9.18)	

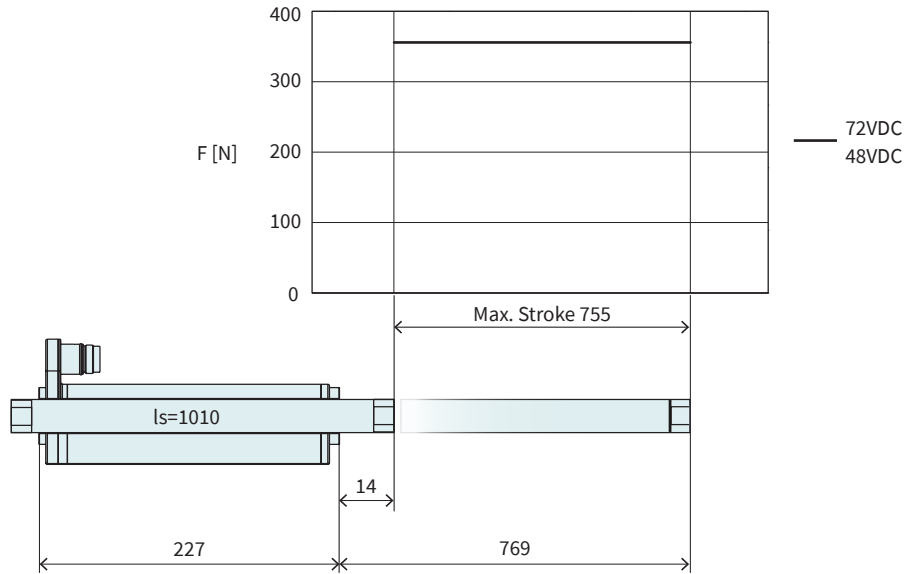
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x920/870-HP	Slider 'High Performance'	0150-3878
PL01-28x920/870-HP-W01	Slider 'High Performance' HCR	0150-4295

PS01-48x150G/755-HP-SSCP

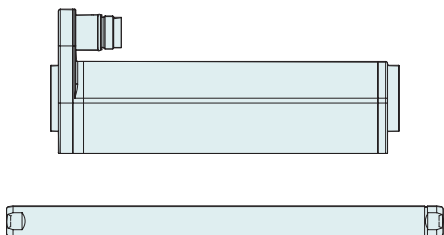
Max. Stroke: 755 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/755-HP-SSCP				
Stroke				
Maximaler Hub	mm	(in)	755	(29.72)
Force				
Max. Force @ 48VDC	N	(lbf)	360	(80.9)
Max. Force @ 72VDC	N	(lbf)	360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative		%	100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	15.65	(3.02)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.7	(108)
Max. Velocity @ 72VDC	m/s	(in/s)	4.1	(164)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity		%	± 0.2	
Electrical Data				
Max. Current @ 48VDC		A _{pk}	23	
Max. Current @ 72VDC		A _{pk}	23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]		A _{pk}	5.5 / 6.6 / 8.8	
Thermal Data				
Max. Winding Temperature (Sensor)		°C	120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]		°K/W	2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]		s	1400 / 3500 / 800	
Mechanical Data				
Slider Length	mm	(in)	1010	(39.7)
Slider Mass	g	(lb)	4582	(10.10)

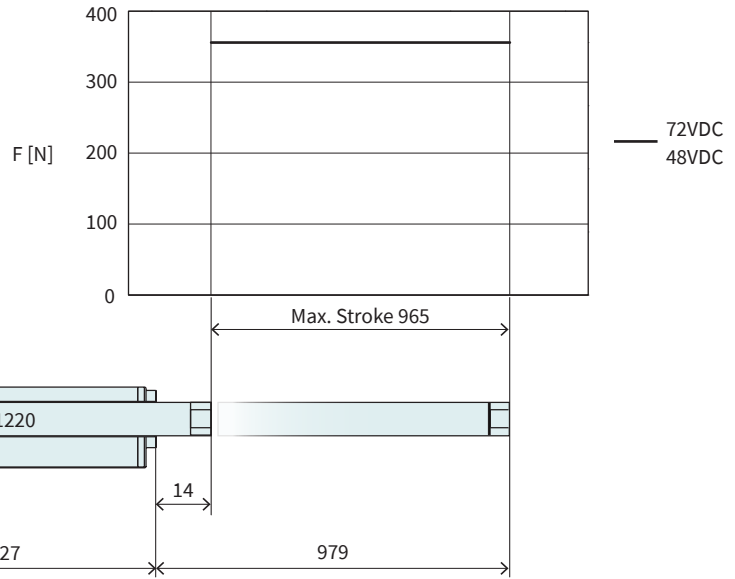
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x1010/960-HP	Slider 'High Performance'	0150-3827
PL01-28x1010/960-HP-W01	Slider 'High Performance' HCR	0150-4296

PS01-48x150G/965-HP-SSCP

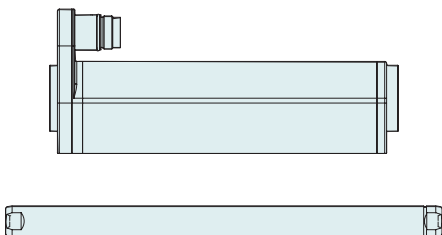
Max. Stroke: 965 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/965-HP-SSCP				
Stroke				
Maximum Stroke	mm	(in)	965	(38)
Force				
Max. Force @ 48VDC	N	(lbf)	360	(80.9)
Max. Force @ 72VDC	N	(lbf)	360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative			%	
			100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	15.65	(3.02)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.7	(108)
Max. Velocity @ 72VDC	m/s	(in/s)	4.1	(164)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity			%	
			± 0.15	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		23	
Max. Current @ 72VDC	A _{pk}		23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	A _{pk}		5.5 / 6.6 / 8.8	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	°K/W		2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	s		1400 / 3500 / 800	
Mechanical Data				
Slider Length	mm	(in)	1220	(48)
Slider Mass	g	(lb)	5558	(12.26)

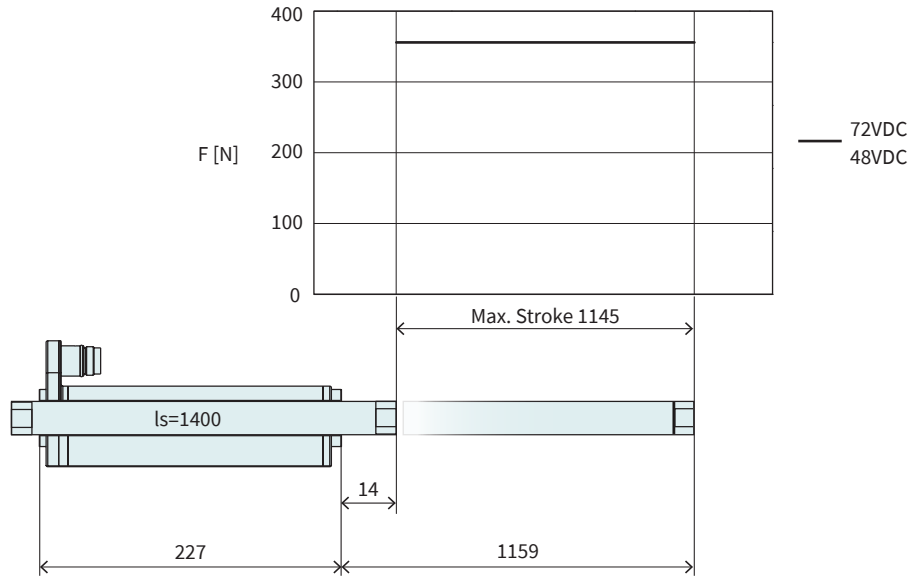
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x1220/1170-HP	Slider 'High Performance'	0150-3828
PL01-28x1220/1170-HP-W01	Slider 'High Performance' HCR	0150-4297

PS01-48x150G/1145-HP-SSCP

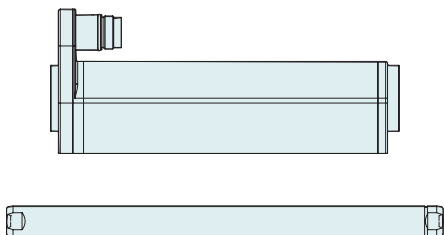
Max. Stroke: 1145 mm
Peak Force: 360 N



Dimensions in mm

Technical Data PS01-48x150G/1145-HP-SSCP				
Stroke				
Maximum Stroke	mm	(in)	1145	(47.08)
Force				
Max. Force @ 48VDC	N	(lbf)	360	(80.9)
Max. Force @ 72VDC	N	(lbf)	360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative		%	100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	15.65	(3.02)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.7	(108)
Max. Velocity @ 72VDC	m/s	(in/s)	4.1	(164)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity		%	± 0.15	
Electrical Data				
Max. Current @ 48VDC		A _{pk}	23	
Max. Current @ 72VDC		A _{pk}	23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]		A _{pk}	5.5 / 6.6 / 8.8	
Thermal Data				
Max. Winding Temperature (Sensor)		°C	120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]		°K/W	2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]		s	1400 / 3500 / 800	
Mechanical Data				
Slider Length	mm	(in)	1400	(55)
Slider Mass	g	(lb)	6396	(14.10)

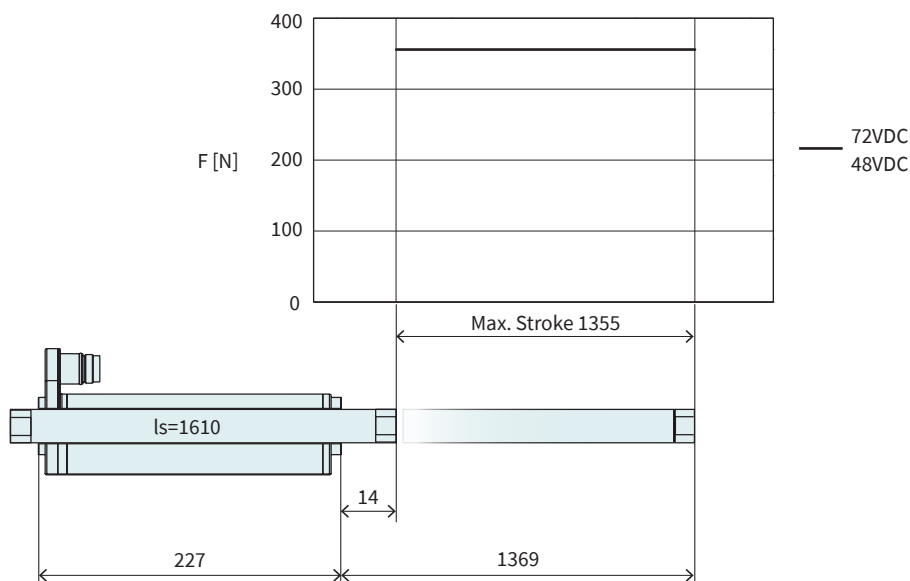
1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x1400/1350-HP	Slider 'High Performance'	0150-3829
PL01-28x1400/1350-HP-W01	Slider 'High Performance' HCR	0150-4298

PS01-48x150G/1355-HP-SSCP

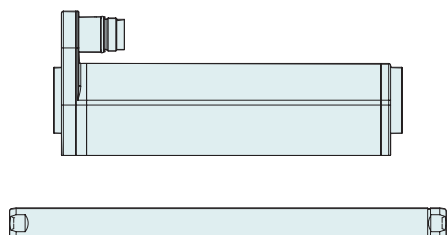
Max. Stroke: 1355 mm
Peak Force: 360 N



Dimensions in mm

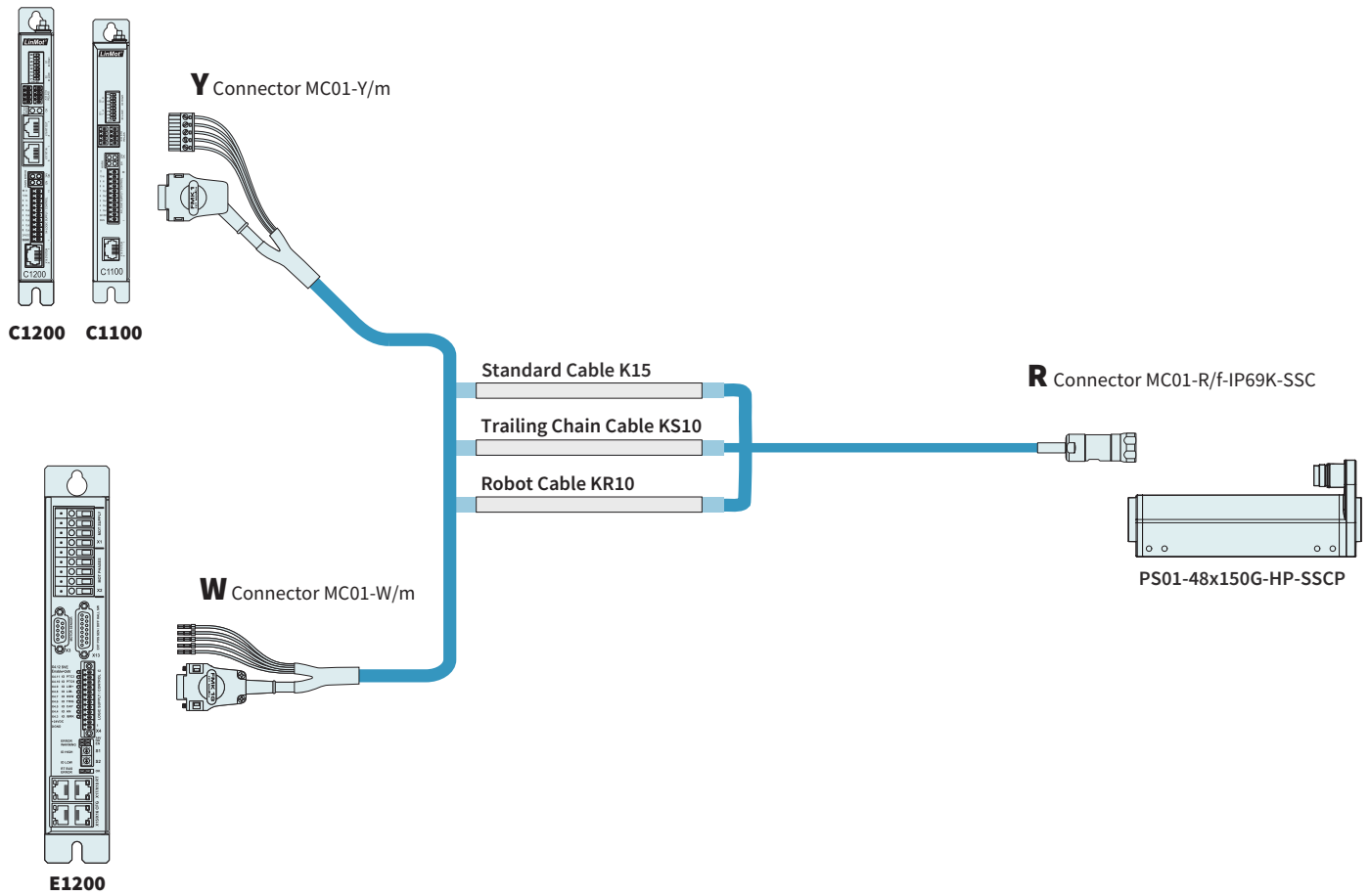
Technical Data PS01-48x150G/1355-HP-SSCP				
Stroke				
Maximum Stroke	mm	(in)	1355	(53.35)
Force				
Max. Force @ 48VDC	N	(lbf)	360	(80.9)
Max. Force @ 72VDC	N	(lbf)	360	(80.9)
Max. Cont. Force [Passive cooling/ Passive mounted ¹ / Cold Plate ²]	N	(lbf)	86 / 101 / 138	(19.3 / 22.7 / 31)
Max. Border Force relative			%	
			100	
Force Constant	N/A _{pk}	(lbf/A _{pk})	15.65	(3.02)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.7	(108)
Max. Velocity @ 72VDC	m/s	(in/s)	4.1	(164)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity			%	
			± 0.15	
Electrical Data				
Max. Current @ 48VDC			A _{pk}	
			23	
Max. Current @ 72VDC			A _{pk}	
			23	
Max. Cont. Current [Passive cooling/ Passive mounted ¹ / Cold Plate ²]			A _{pk}	
			5.5 / 6.6 / 8.8	
Thermal Data				
Max. Winding Temperature (Sensor)			°C	
			120	
Thermal Resistance [Passive cooling/ Passive mounted ¹ / Cold Plate ²]			°K/W	
			2.3 / 1.7 / 0.95	
Thermal Time Constant [Passive cooling/ Passive mounted ¹ / Cold Plate ²]			s	
			1400 / 3500 / 800	
Mechanical Data				
Slider Length	mm	(in)	1610	(63)
Slider Mass	g	(lb)	7372	(16.26)

1) Motor is mounted on a stainless steel surface of 0.05 m².
 2) Motor is mounted on a 20°C cold plate.



Item	Description	Item-No.
PS01-48x150G-HP-B02-SSCP-C	Stainless Steel Stator Perform. Standard	0150-4226
PL01-28x1610/1560-HP	Slider 'High Performance'	0150-3830
PL01-28x1610/1560-HP-W01	Slider 'High Performance' HCR	0150-4299

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.
K15-W/C-SSC	Motor Cable W/C-SSC, Custom length	0150-3539
K15-Y-Fe/C-SSC-	Motor Cable Y-Fe/C-SSC, Custom length	0150-3630

TRAILING CHAIN CABLE		
Item	Description	Item-No.
KS10-W/C-SSC-2	Trailing Chain Cable W/C-SSC, 2 m	0150-2675
KS10-W/C-SSC-4	Trailing Chain Cable W/C-SSC, 4 m	0150-2676
KS10-W/C-SSC-6	Trailing Chain Cable W/C-SSC, 6 m	0150-2677
KS10-W/C-SSC-8	Trailing Chain Cable W/C-SSC, 8 m	0150-2678
KS10-W/C-SSC-	Trailing Chain Cable W/C-SSC, Custom length	0150-3358

KS10-Y/C-SSC-2	Trailing Chain Cable Y/C-SSC, 2 m	0150-2679
KS10-Y/C-SSC-4	Trailing Chain Cable Y/C-SSC, 4 m	0150-2680
KS10-Y/C-SSC-6	Trailing Chain Cable Y/C-SSC, 6 m	0150-2681
KS10-Y/C-SSC-8	Trailing Chain Cable Y/C-SSC, 8 m	0150-2682
KS10-Y-Fe/C-SSC-	Trailing Chain Cable Y/C-SSC, Custom length	0150-3574

ROBOT CABLE

Item	Description	Item-No.
KR10-W/C-SSC-	Robot Cable KR05-W/C-SSC-, Custom length	0150-3536

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-C/f-IP69K-SSC	Motor Connector C/f, IP69K, SSC	0150-3306
K15-04/05	Motor Cable per m	0150-1978
KS10-04/05	Trailing Chain Cable per m	0150-1977
KR10-04/05	Robot Cable per m	0150-1830

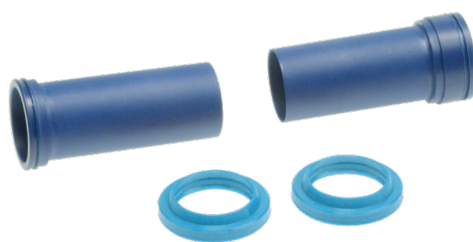
SLIDER MOUNTING



Item	Description	Item-No.
PLF01-28-SS	Fixed Bearing Set for 27 mm and 28 mm Slider, Stainless Steel	0150-3297
PLL01-28	Floating Bearing for PL01-28 Slider, Material 1.4305 / AISI 303	0150-3094

FURTHER PRODUCT DETAILS CAN BE FOUND UNDER „ACCESSORIES“.

BEARING KITS



Item	Description	Item-No.
PBS01-48-B02-SSCP	Bearing Kit for PS01-48x...-B02-SSCP	0150-4715

FURTHER PRODUCT DETAILS CAN BE FOUND UNDER „ACCESSORIES“.

Area with horizontal dotted lines for notes.

ALL LINEAR MOTION FROM A SINGLE SOURCE

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