

# LINEAR MOTORS P01-48x240F-HP-C-M01



- ✓ Highly dynamic drives
- ✓ Increased continuous force and acceleration
- ✓ Higher permissible operating temperatures
- ✓ Wide stroke range
- ✓ Optional with air cooling
- ✓ Wide range of applications in handling modules as well as in plant and machine construction

## LINEAR MOTORS P01-48x240F-HP-C-M01

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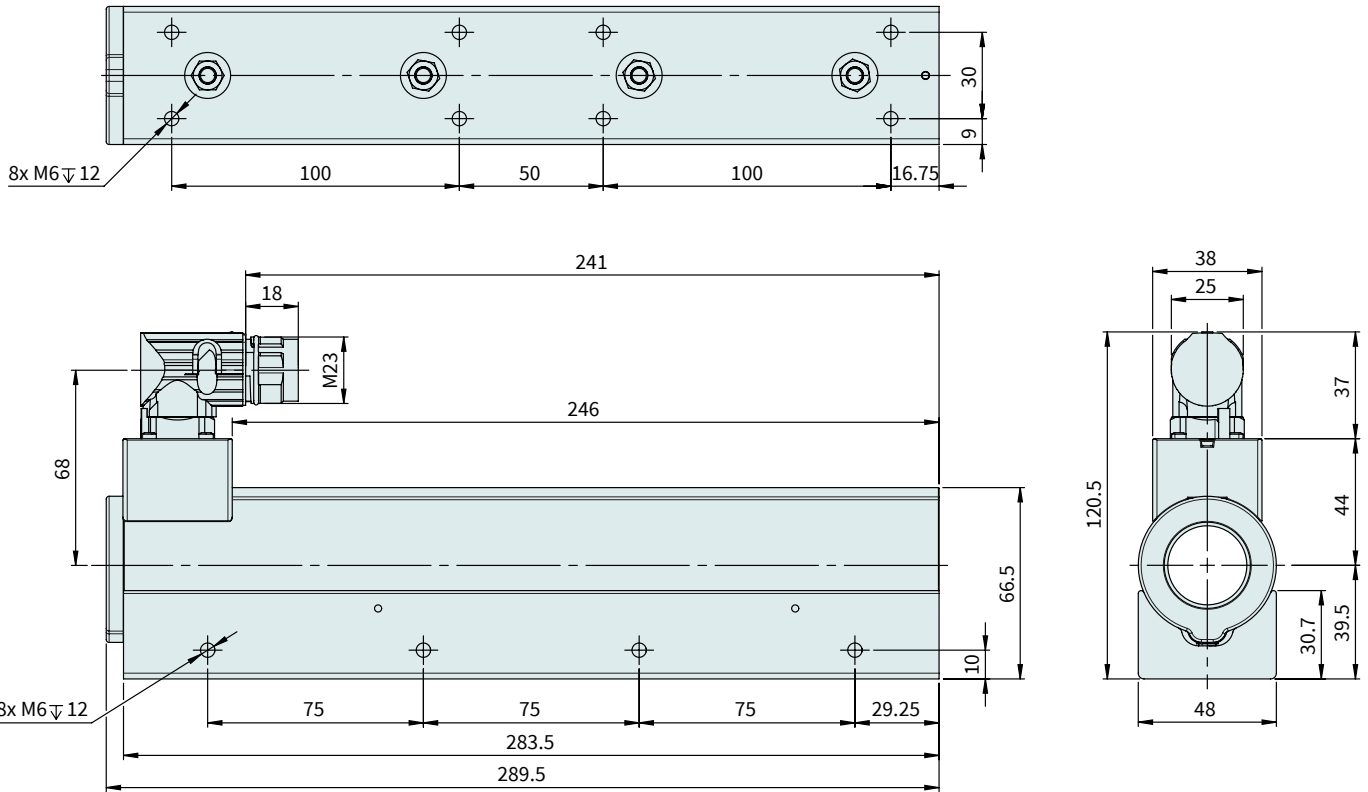


### MOTOR FAMILY P01-48x240F-HP-C-M01



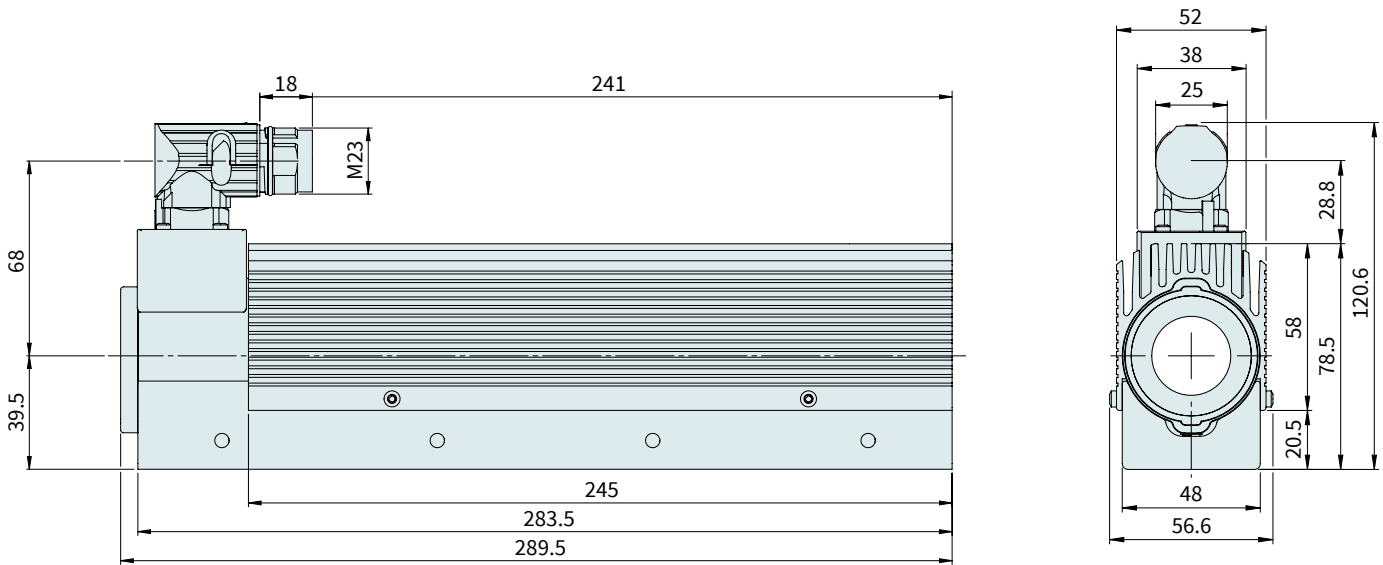
Technical Data				
<b>Stroke</b>				
Standard Stroke (SS)	mm (in)		≤ 1710	(≤ 67.3)
Extended Stroke (ES)	mm (in)		≤ 1860	(≤ 73.2)
<b>Force</b>				
Max. Force @ 48VDC	N (lbf)		572	(129)
Max. Force @ 72VDC	N (lbf)		572	(129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		130 / 150 / 253	(29 / 35 / 57)
Max. Border Force relative	%		≤ 69	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		22	(4.95)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s (in/s)		1.9	(78.9)
Max. Velocity @ 72VDC	m/s (in/s)		2.9	(119.9)
<b>Position Detection</b>				
Position Resolution	mm (in)		0.007	(0.0003)
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)
<b>Electrical Data</b>				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
Terminal Resistance 25 °C / 150 °C	Ohm		0.97 / 1.4	
Terminal Inductivity	mH		1.1	
Magnetic Period	mm (in)		60	(2.35)
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	*K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
<b>Mechanical Data</b>				
Stator Diameter	mm (in)		48	(1.9)
Stator Length [Connector type / Cable type]	mm (in)		289.5	(11)
Stator Mass	g (lb)		1930	(4.3)
Slider Diameter	mm (in)		28	(1.1)
Slider Length	mm (in)		350 - 2000	(14 - 79)
Slider Mass	g (lb)		1570 - 9250	(3.46 - 20.4)
IP Code			IP 65	
<b>Certification</b>				
cRUs	File-No.		E354430	

**STATOR**



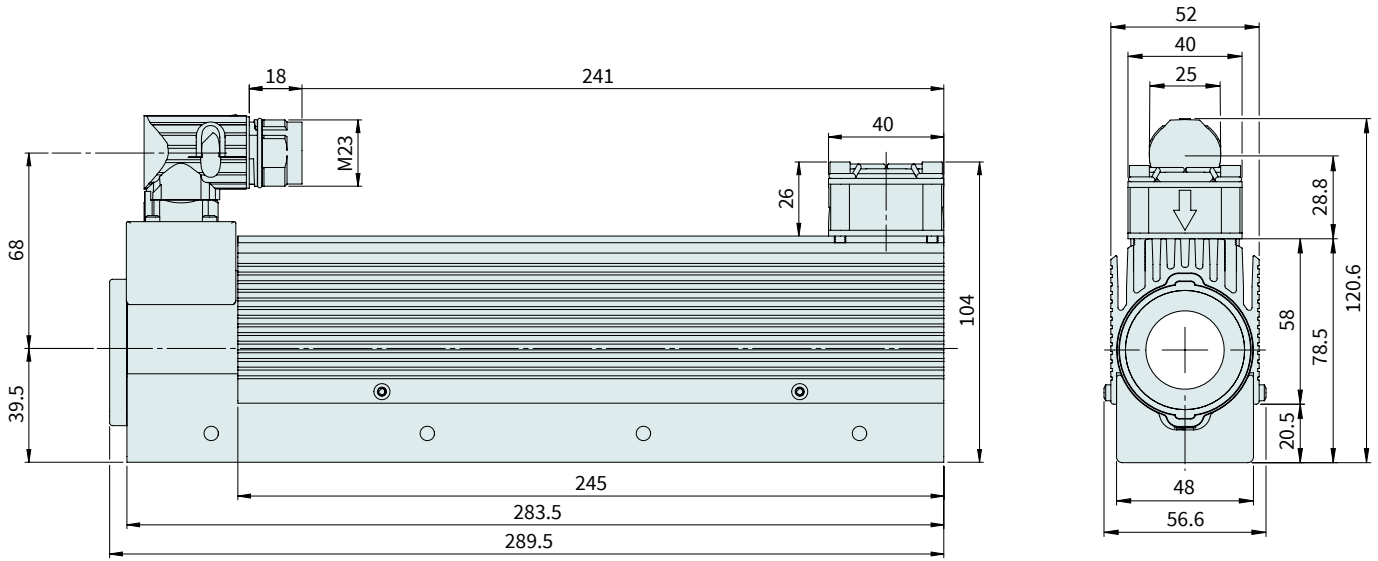
Item	Description	Item-No.
P01-48x240F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-4801</a>

**STATOR WITH HEAT SINK (ACCESSORIES)**



Item	Description	Item-No.
PC01-48x240-M01	Heat sink for PS01-48x240-M01 linear motor	<a href="#">0150-4785</a>

**STATOR WITH HEAT SINK AND FAN (ACCESSORIES)**

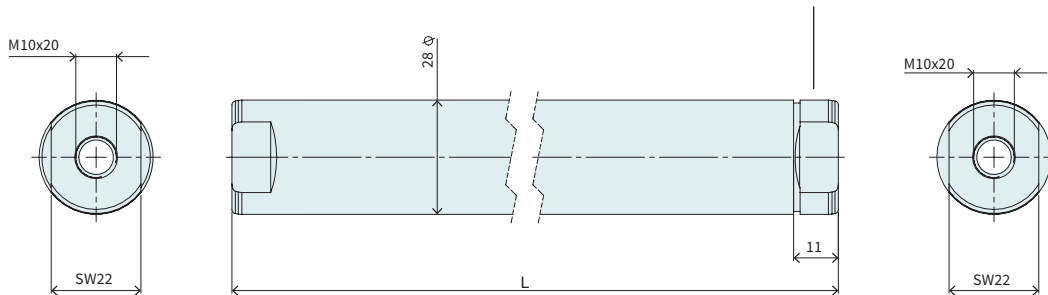


Item	Description	Item-No.
HV01-23	Fan cooling for PS01-48x240-M01 linear motor	<a href="#">0150-5050</a>

**SLIDER**

**Slider HP**

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



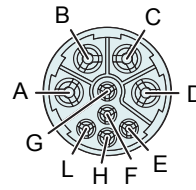
Slider High Performance				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-28x350/300-HP	Slider 'High Performance'	210	60	<a href="#">0150-3820</a>
PL01-28x410/360-HP	Slider 'High Performance'	270	120	<a href="#">0150-3821</a>
PL01-28x500/450-HP	Slider 'High Performance'	360	210	<a href="#">0150-3822</a>
PL01-28x620/570-HP	Slider 'High Performance'	480	330	<a href="#">0150-3823</a>
PL01-28x710/660-HP	Slider 'High Performance'	570	420	<a href="#">0150-3824</a>
PL01-28x800/750-HP	Slider 'High Performance'	660	510	<a href="#">0150-3825</a>
PL01-28x920/870-HP	Slider 'High Performance'	780	630	<a href="#">0150-3828</a>
PL01-28x1010/960-HP	Slider 'High Performance'	870	720	<a href="#">0150-3827</a>
PL01-28x1220/1170-HP	Slider 'High Performance'	1080	930	<a href="#">0150-3828</a>
PL01-28x1400/1350-HP	Slider 'High Performance'	1260	1110	<a href="#">0150-3829</a>
PL01-28x1610/1560-HP	Slider 'High Performance'	1470	1320	<a href="#">0150-3830</a>
PL01-28x1820/1770-HP	Slider 'High Performance'	1680	1530	<a href="#">0150-3831</a>
PL01-28x2000/1950-HP	Slider 'High Performance'	1860	1710	<a href="#">0150-3832</a>

**CONNECTOR**

3

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
Sin	G	yellow
Cos	H	green
Temp.	L	black
Shield	Housing	outer Shield

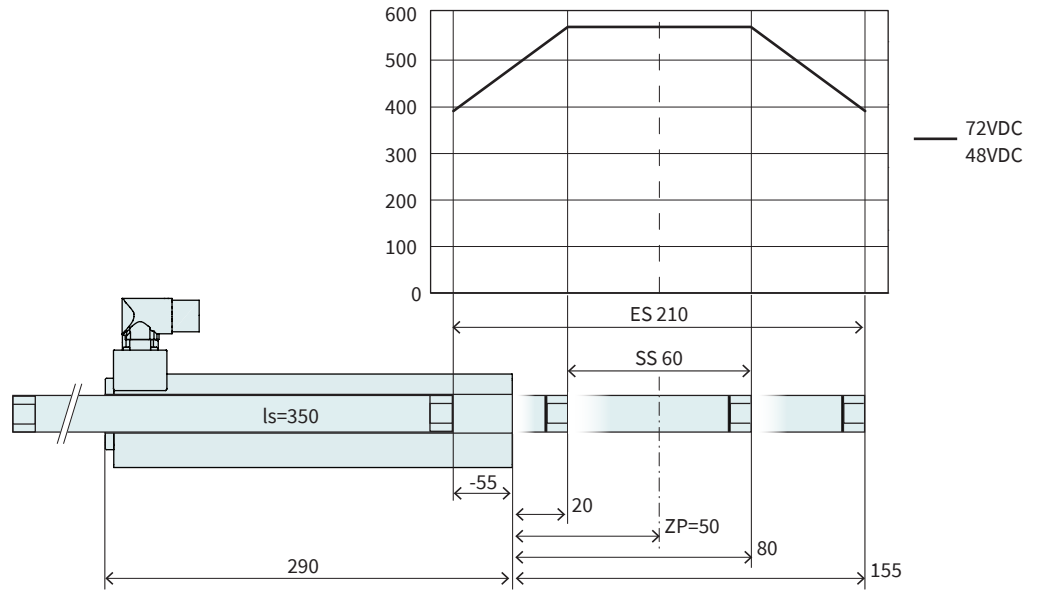
**C-Connector**



View: Motor Connector, plug side

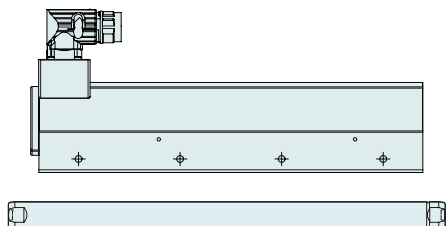
**P01-48x240F/60x210-HP-C-M01**

**Max. Stroke:** 210 mm  
**Peak Force:** 572 N



Dimensions in mm

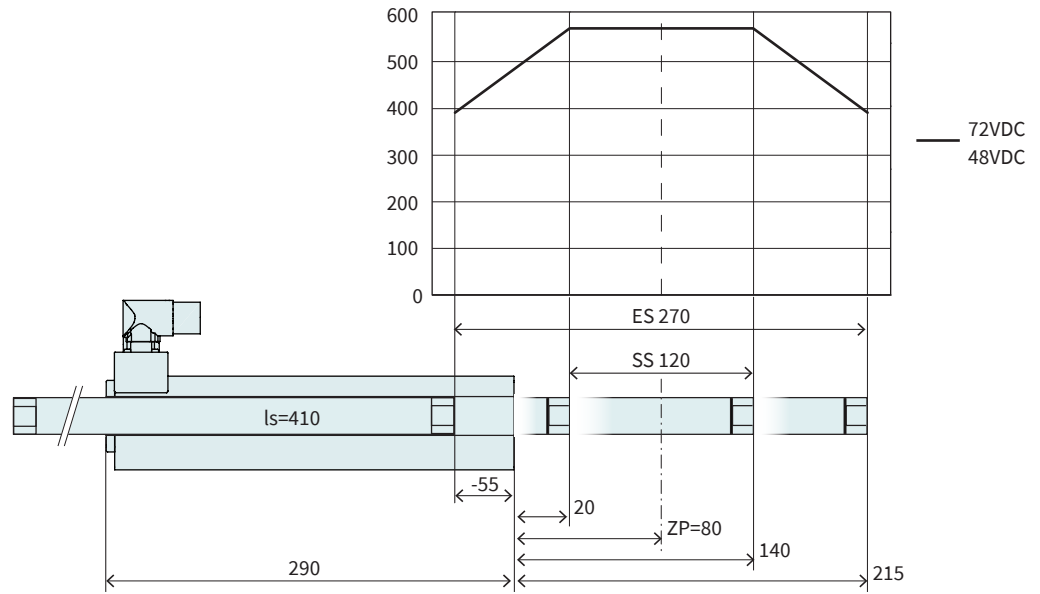
Technical Data P01-48x240F/60x210-HP-C-M01			
<b>Stroke</b>			
Standard Stroke (SS)	mm (in)	60 (2.36)	
Extended Stroke (ES)	mm (in)	210 (8.27)	
<b>Force</b>			
Max. Force @ 48VDC	N (lbf)	572 (129)	
Max. Force @ 72VDC	N (lbf)	572 (129)	
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)	130 / 150 / 253 (29 / 35 / 57)	
Max. Border Force relative	%	69	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	22 (4.95)	
<b>Velocity</b>			
Max. Velocity @ 48VDC	m/s (in/s)	1.9 (78.9)	
Max. Velocity @ 72VDC	m/s (in/s)	2.9 (119.9)	
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.45	
<b>Electrical Data</b>			
Max. Current @ 48VDC	A <sub>pk</sub>	25.9	
Max. Current @ 72VDC	A <sub>pk</sub>	25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>	5.9 / 6.8 / 11.5	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W	1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s	2000 / 1800 / 500	
<b>Mechanical Data</b>			
Slider Length	mm (in)	350 (14)	
Slider Mass	g (lb)	1570 (3.5)	



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x350/300-HP</b>	Slider 'High Performance'	<a href="#">0150-3820</a>

**P01-48x240F/120x270-HP-C-M01**

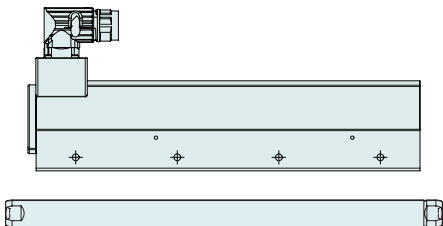
**Max. Stroke:** 270 mm  
**Peak Force:** 572 N



Dimensions in mm

Technical Data P01-48x240F/120x270-HP-C-M01

Stroke				
Standard Stroke (SS)	mm	(in)	120	(4.72)
Extended Stroke (ES)	mm	(in)	270	(10.63)
Force				
Max. Force @ 48VDC	N	(lbf)	572	(129)
Max. Force @ 72VDC	N	(lbf)	572	(129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	130 / 150 / 253	(29 / 35 / 57)
Max. Border Force relative	%		69	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	22	(4.95)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.9	(78.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.9	(119.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.4	
Electrical Data				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [PPassive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm	(in)	410	(16)
Slider Mass	g	(lb)	1850	(4.1)

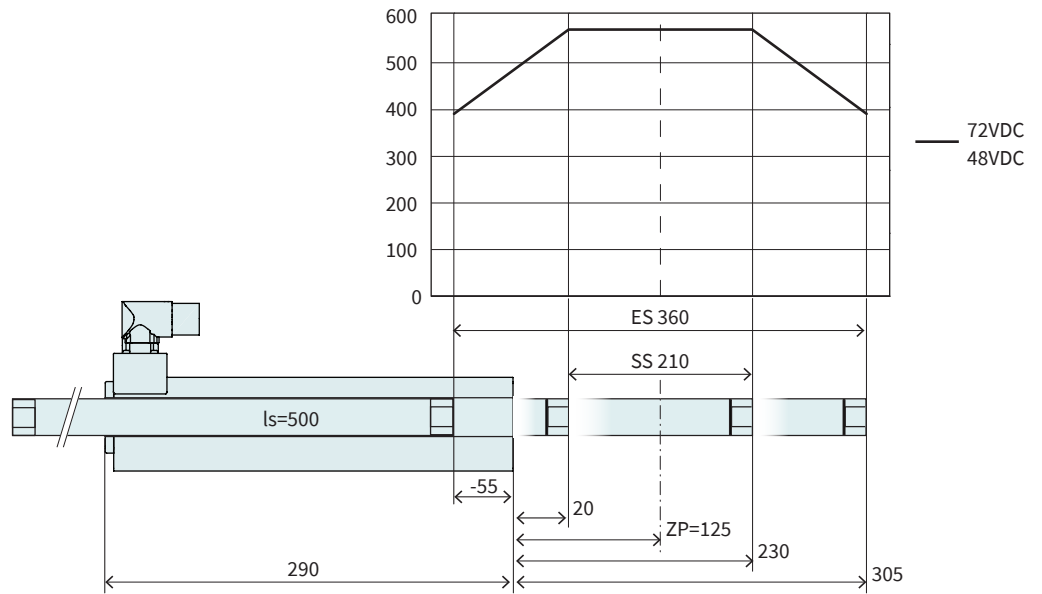


Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x410/360-HP</b>	Slider 'High Performance'	<a href="#">0150-3821</a>



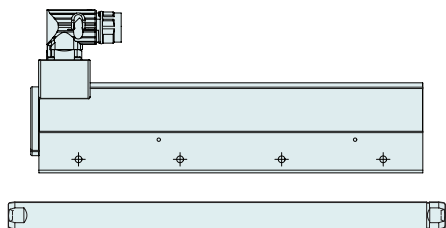
**P01-48x240F/210x360-HP-C-M01**

**Max. Stroke:** 360 mm  
**Peak Force:** 572 N



Dimensions in mm

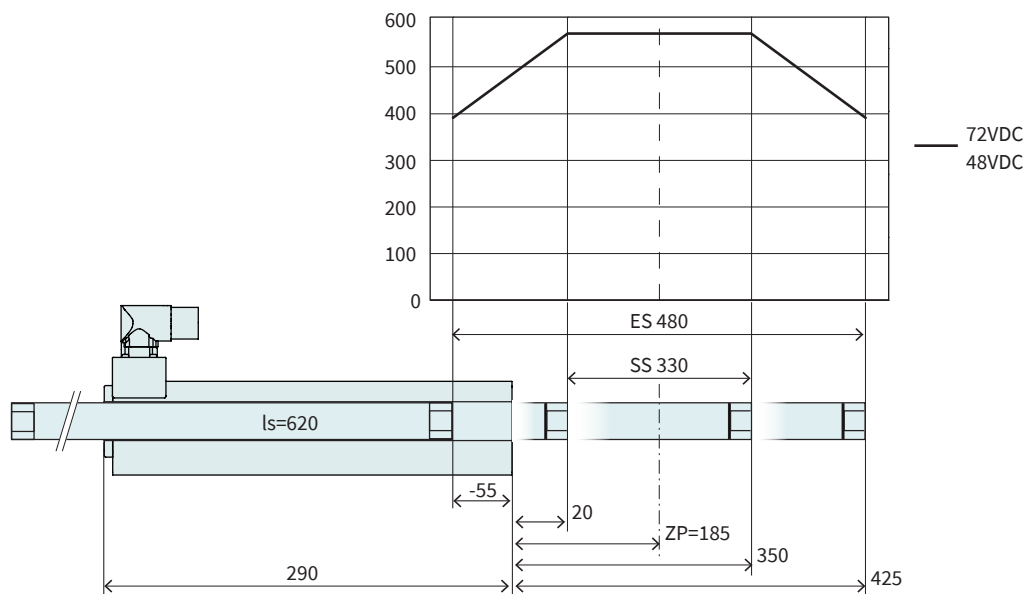
Technical Data P01-48x240F-HP/210x360-HP-C-M01				
<b>Stroke</b>				
Standard Stroke (SS)	mm	(in)	210	(8.26)
Extended Stroke (ES)	mm	(in)	360	(14.19)
<b>Force</b>				
Max. Force @ 48VDC	N	(lbf)	572	(129)
Max. Force @ 72VDC	N	(lbf)	572	(129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	130 / 150 / 253	(29 / 35 / 57)
Max. Border Force relative	%		69	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	22	(4.95)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s	(in/s)	1.9	(78.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.9	(119.9)
<b>Position Detection</b>				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
<b>Electrical Data</b>				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	2270	(5)



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x500/450-HP</b>	Slider 'High Performance'	<a href="#">0150-3822</a>

**P01-48x240F/330x480-HP-C-M01**

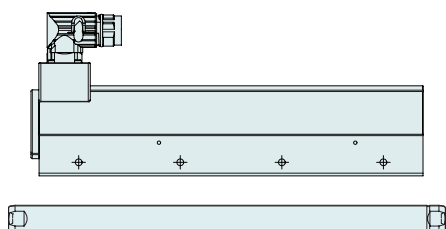
**Max. Stroke:** 480 mm  
**Peak Force:** 572 N



Dimensions in mm

Technical Data P01-48x240F/330x480-HP-C-M01

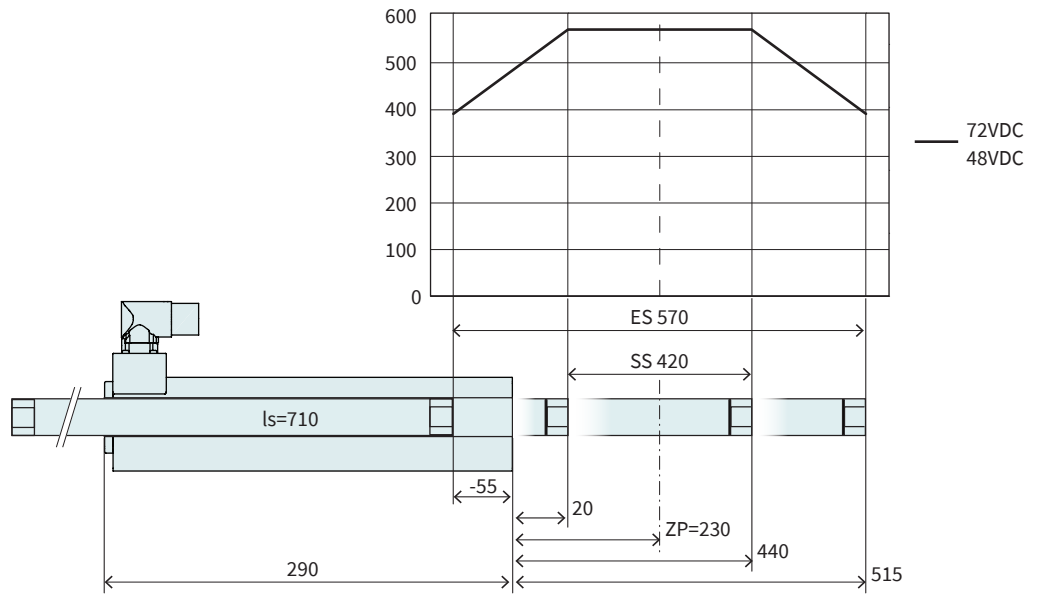
Stroke			
Standard Stroke (SS)	mm (in)		330 (12.99)
Extended Stroke (ES)	mm (in)		480 (18.89)
Force			
Max. Force @ 48VDC	N (lbf)		572 (129)
Max. Force @ 72VDC	N (lbf)		572 (129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		130 / 150 / 253 (29 / 35 / 57)
Max. Border Force relative	%		69
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		22 (4.95)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)		1.9 (78.9)
Max. Velocity @ 72VDC	m/s (in/s)		2.9 (119.9)
Position Detection			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.25
Electrical Data			
Max. Current @ 48VDC	A <sub>pk</sub>		25.9
Max. Current @ 72VDC	A <sub>pk</sub>		25.9
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5
Thermal Data			
Max. Winding Temperature (Sensor)	°C		120
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500
Mechanical Data			
Slider Length	mm (in)		620 (24)
Slider Mass	g (lb)		2830 (6.2)



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x620/570-HP</b>	Slider 'High Performance'	<a href="#">0150-3823</a>

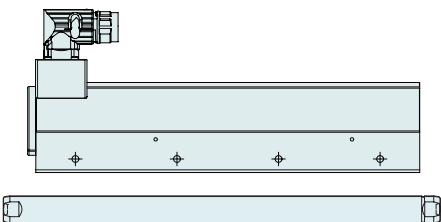
**P01-48x240F/420x570-HP-C-M01**

**Max. Stroke:** 570 mm  
**Peak Force:** 572 N



Dimensions in mm

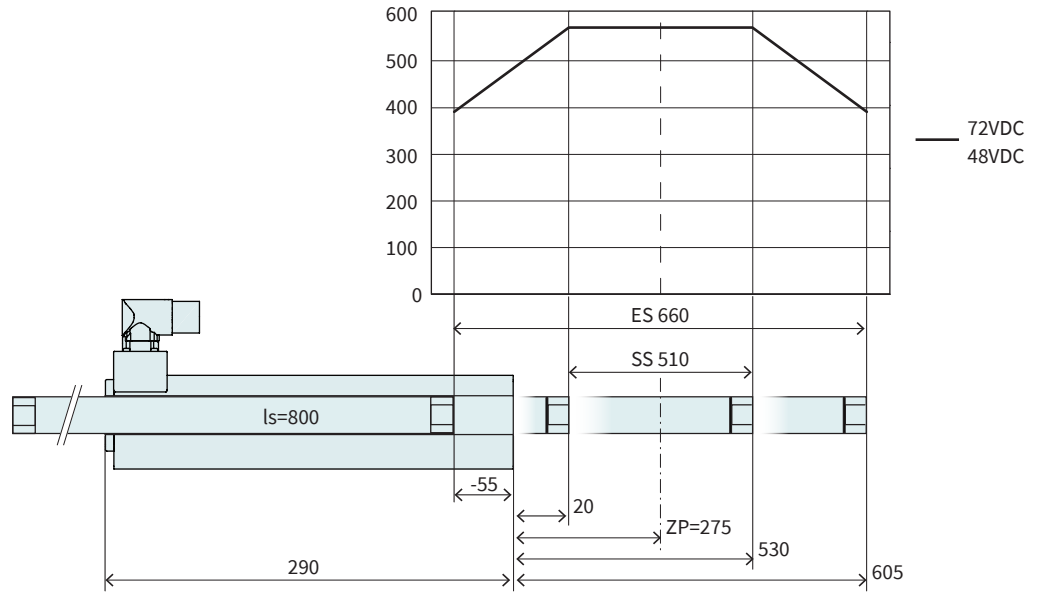
Technical Data P01-48x240F/420x570-HP-C-M01			
<b>Stroke</b>			
Standard Stroke (SS)	mm (in)	420 (16.49)	
Extended Stroke (ES)	mm (in)	570 (22.39)	
<b>Force</b>			
Max. Force @ 48VDC	N (lbf)	572 (129)	
Max. Force @ 72VDC	N (lbf)	572 (129)	
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)	130 / 150 / 253 (29 / 35 / 57)	
Max. Border Force relative	%	69	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	22 (4.95)	
<b>Velocity</b>			
Max. Velocity @ 48VDC	m/s (in/s)	1.9 (78.9)	
Max. Velocity @ 72VDC	m/s (in/s)	2.9 (119.9)	
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.25	
<b>Electrical Data</b>			
Max. Current @ 48VDC	A <sub>pk</sub>	25.9	
Max. Current @ 72VDC	A <sub>pk</sub>	25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>	5.9 / 6.8 / 11.5	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W	1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s	2000 / 1800 / 500	
<b>Mechanical Data</b>			
Slider Length	mm (in)	710 (28)	
Slider Mass	g (lb)	3250 (7.2)	



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x710/660-HP</b>	Slider 'High Performance'	<a href="#">0150-3824</a>

**P01-48x240F/510x660-HP-C-M01**

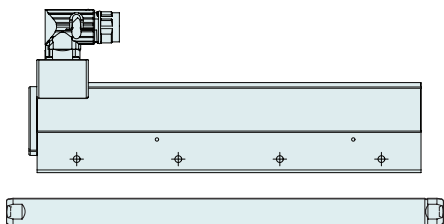
**Max. Stroke:** 660 mm  
**Peak Force:** 572 N



Dimensions in mm

Technical Data P01-48x240F/510x660-HP-C-M01

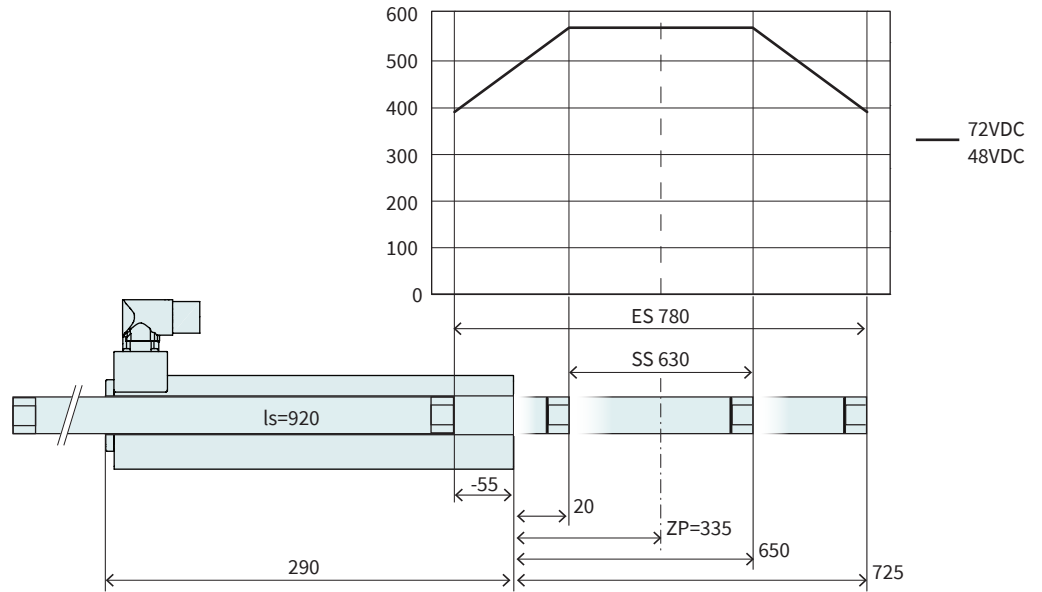
Stroke				
Standard Stroke (SS)	mm	(in)	510	(20.1)
Extended Stroke (ES)	mm	(in)	660	(25.99)
Force				
Max. Force @ 48VDC	N	(lbf)	572	(129)
Max. Force @ 72VDC	N	(lbf)	572	(129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	130 / 150 / 253	(29 / 35 / 57)
Max. Border Force relative	%		69	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	22	(4.95)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.9	(78.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.9	(119.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm	(in)	800	(31)
Slider Mass	g	(lb)	3670	(8.1)



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x800/750-HP</b>	Slider 'High Performance'	<a href="#">0150-3825</a>

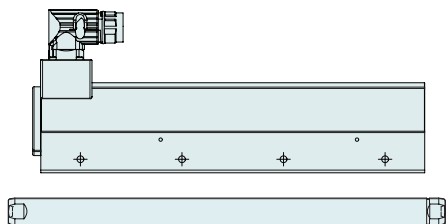
**P01-48x240F/630x780-HP-C-M01**

**Max. Stroke:** 780 mm  
**Peak Force:** 572 N



Dimensions in mm

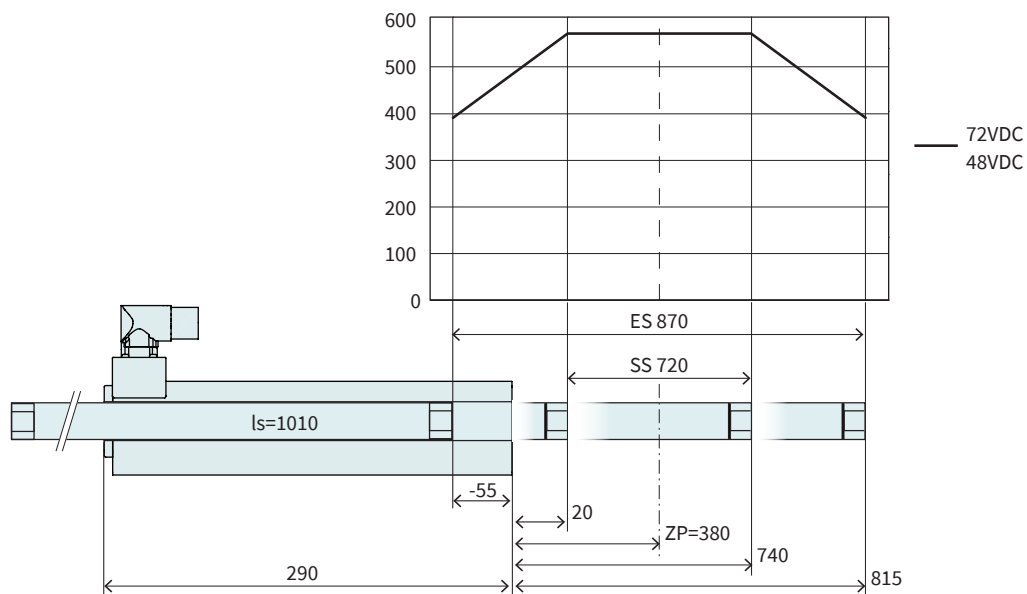
Technical Data P01-48x240F/630x780-HP-C-M01				
<b>Stroke</b>				
Standard Stroke (SS)	mm (in)		630 (24.8)	
Extended Stroke (ES)	mm (in)		780 (30.69)	
<b>Force</b>				
Max. Force @ 48VDC	N (lbf)		572 (129)	
Max. Force @ 72VDC	N (lbf)		572 (129)	
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		130 / 150 / 253 (29 / 35 / 57)	
Max. Border Force relative	%		69	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		22 (4.95)	
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s (in/s)		1.9 (78.9)	
Max. Velocity @ 72VDC	m/s (in/s)		2.9 (119.9)	
<b>Position Detection</b>				
Repeatability	mm (in)		±0.05 (±0.002)	
Linearity	%		± 0.2	
<b>Electrical Data</b>				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
<b>Mechanical Data</b>				
Slider Length	mm (in)		920 (36)	
Slider Mass	g (lb)		4230 (9.3)	



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x920/870-HP</b>	Slider 'High Performance'	<a href="#">0150-3878</a>

**P01-48x240F/720x870-HP-C-M01**

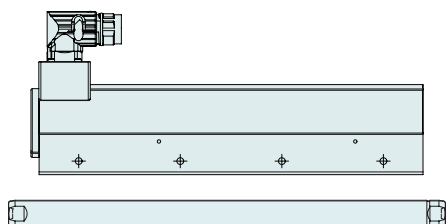
**Max. Stroke:** 870 mm  
**Peak Force:** 572 N



Dimensions in mm

Technical Data P01-48x240F/720x870-HP-C-M01

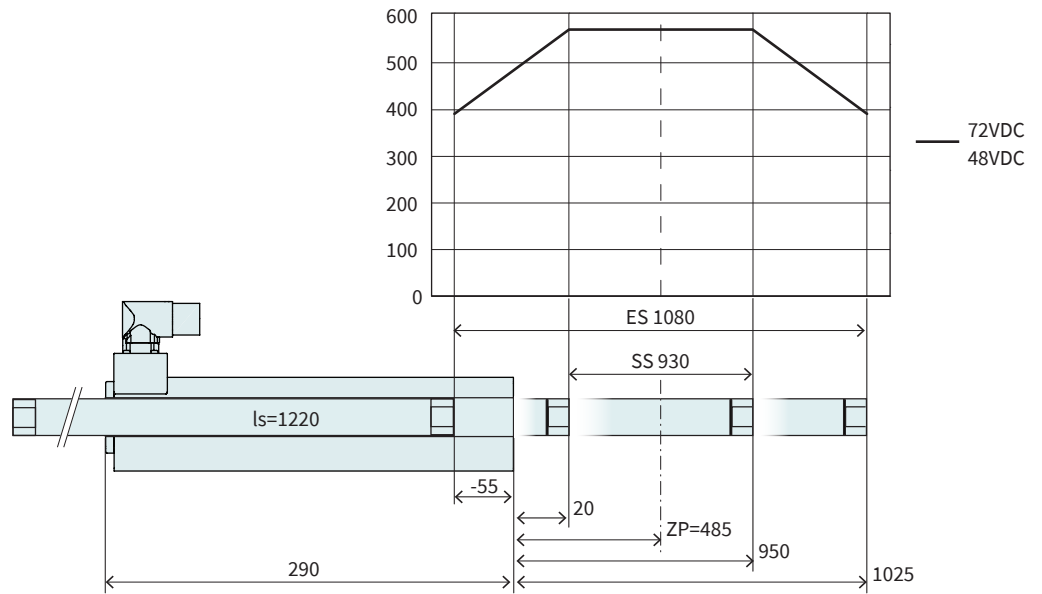
Technical Data P01-48x240F/720x870-HP-C-M01			
<b>Stroke</b>			
Standard Stroke (SS)	mm (in)		720 (28.3)
Extended Stroke (ES)	mm (in)		870 (34.29)
<b>Force</b>			
Max. Force @ 48VDC	N (lbf)		572 (129)
Max. Force @ 72VDC	N (lbf)		572 (129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		130 / 150 / 253 (29 / 35 / 57)
Max. Border Force relative	%		69
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		22 (4.95)
<b>Velocity</b>			
Max. Velocity @ 48VDC	m/s (in/s)		1.9 (78.9)
Max. Velocity @ 72VDC	m/s (in/s)		2.9 (119.9)
<b>Position Detection</b>			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.2
<b>Electrical Data</b>			
Max. Current @ 48VDC	A <sub>pk</sub>		25.9
Max. Current @ 72VDC	A <sub>pk</sub>		25.9
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C		120
Thermal Resistance [PPassive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500
<b>Mechanical Data</b>			
Slider Length	mm (in)		1010 (40)
Slider Mass	g (lb)		4650 (10)



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x1010/960-HP</b>	Slider 'High Performance'	<a href="#">0150-3827</a>

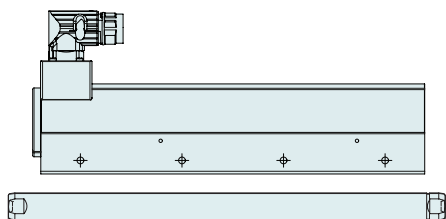
**P01-48x240F/930x1080-HP-C-M01**

**Max. Stroke:** 1080 mm  
**Peak Force:** 572 N



Dimensions in mm

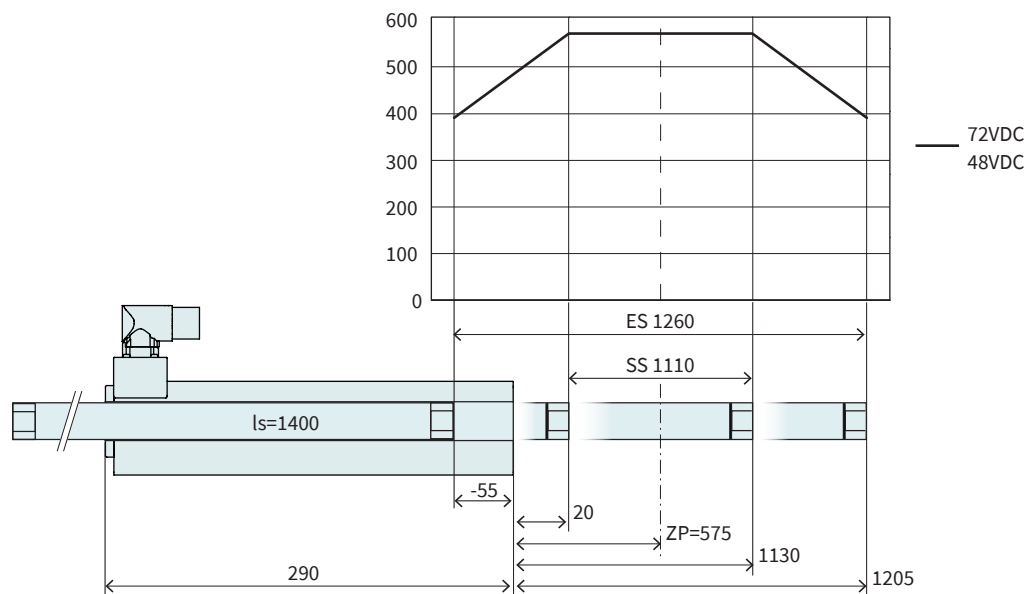
Technical Data P01-48x240F/930x1080-HP-C-M01				
<b>Stroke</b>				
Standard Stroke (SS)	mm	(in)	930	(36.6)
Extended Stroke (ES)	mm	(in)	1080	(42.49)
<b>Force</b>				
Max. Force @ 48VDC	N	(lbf)	572	(129)
Max. Force @ 72VDC	N	(lbf)	572	(129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	130 / 150 / 253	(29 / 35 / 57)
Max. Border Force relative	%		69	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	22	(4.95)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s	(in/s)	1.9	(78.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.9	(119.9)
<b>Position Detection</b>				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
<b>Electrical Data</b>				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	1220	(48)
Slider Mass	g	(lb)	5620	(12)



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x1220/1170-HP</b>	Slider 'High Performance'	<a href="#">0150-3828</a>

**P01-48x240F/1110x1260-HP-C-M01**

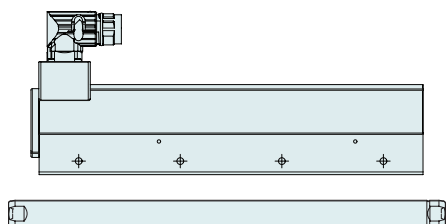
**Max. Stroke:** 1260 mm  
**Peak Force:** 572 N



Dimensions in mm

Technical Data P01-48x240F/1110x1260-HP-C-M01

Stroke			
Standard Stroke (SS)	mm (in)		1110 (43.7)
Extended Stroke (ES)	mm (in)		1260 (49.6)
Force			
Max. Force @ 48VDC	N (lbf)		572 (129)
Max. Force @ 72VDC	N (lbf)		572 (129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		130 / 150 / 253 (29 / 35 / 57)
Max. Border Force relative	%		69
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		22 (4.95)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)		1.9 (78.9)
Max. Velocity @ 72VDC	m/s (in/s)		2.9 (119.9)
Position Detection			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		±0.15
Electrical Data			
Max. Current @ 48VDC	A <sub>pk</sub>		25.9
Max. Current @ 72VDC	A <sub>pk</sub>		25.9
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5
Thermal Data			
Max. Winding Temperature (Sensor)	°C		120
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500
Mechanical Data			
Slider Length	mm (in)		1400 (55)
Slider Mass	g (lb)		6460 (14)

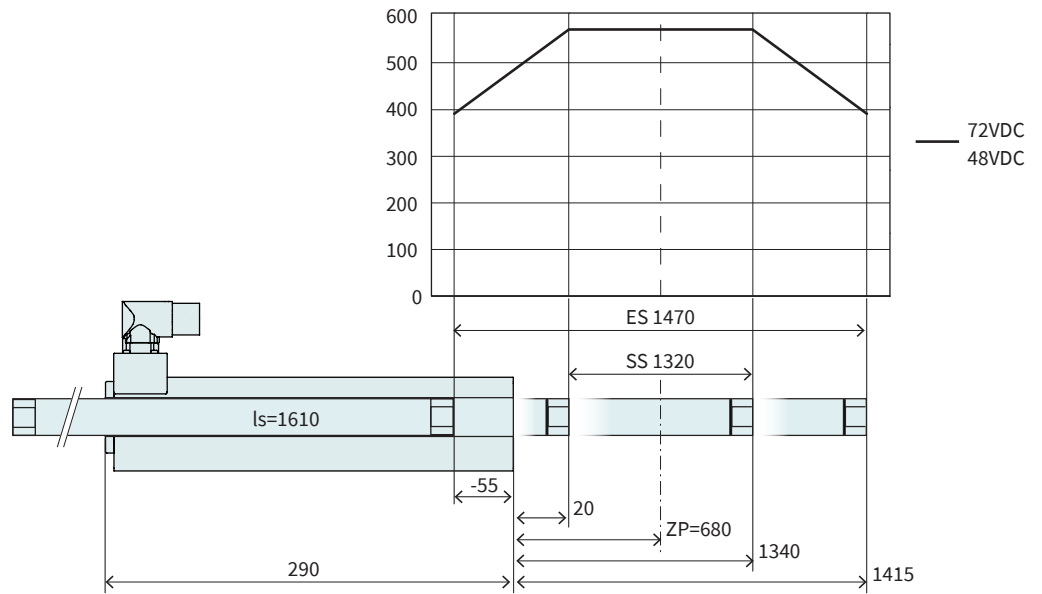


Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x1400/1350-HP</b>	Slider 'High Performance'	<a href="#">0150-3829</a>



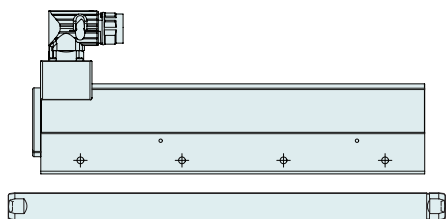
**P01-48x240F/1320x1470-HP-C-M01**

**Max. Stroke:** 1470 mm  
**Peak Force:** 572 N



Dimensions in mm

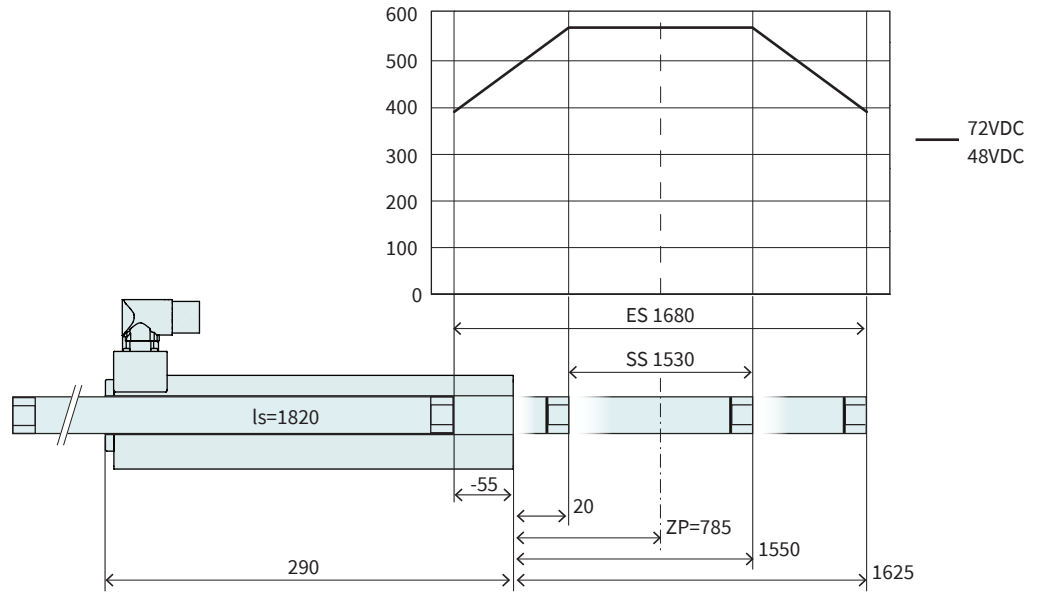
Technical Data P01-48x240F/1320x1470-HP-C-M01				
<b>Stroke</b>				
Standard Stroke (SS)	mm	(in)	1320	(51.99)
Extended Stroke (ES)	mm	(in)	1470	(57.89)
<b>Force</b>				
Max. Force @ 48VDC	N	(lbf)	572	(129)
Max. Force @ 72VDC	N	(lbf)	572	(129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	130 / 150 / 253	(29 / 35 / 57)
Max. Border Force relative	%		69	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	22	(4.95)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s	(in/s)	1.9	(78.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.9	(119.9)
<b>Position Detection</b>				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
<b>Electrical Data</b>				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	1610	(63)
Slider Mass	g	(lb)	7440	(16)



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x1610/1560-HP</b>	Slider 'High Performance'	<a href="#">0150-3830</a>

**P01-48x240F/1530x1680-HP-C-M01**

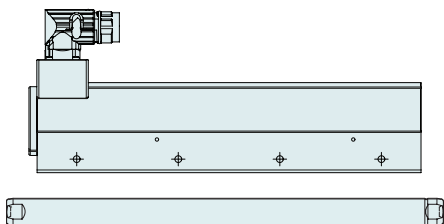
**Max. Stroke:** 1680 mm  
**Peak Force:** 572 N



Dimensions in mm

Technical Data P01-48x240F/1530x1680-HP-C-M01

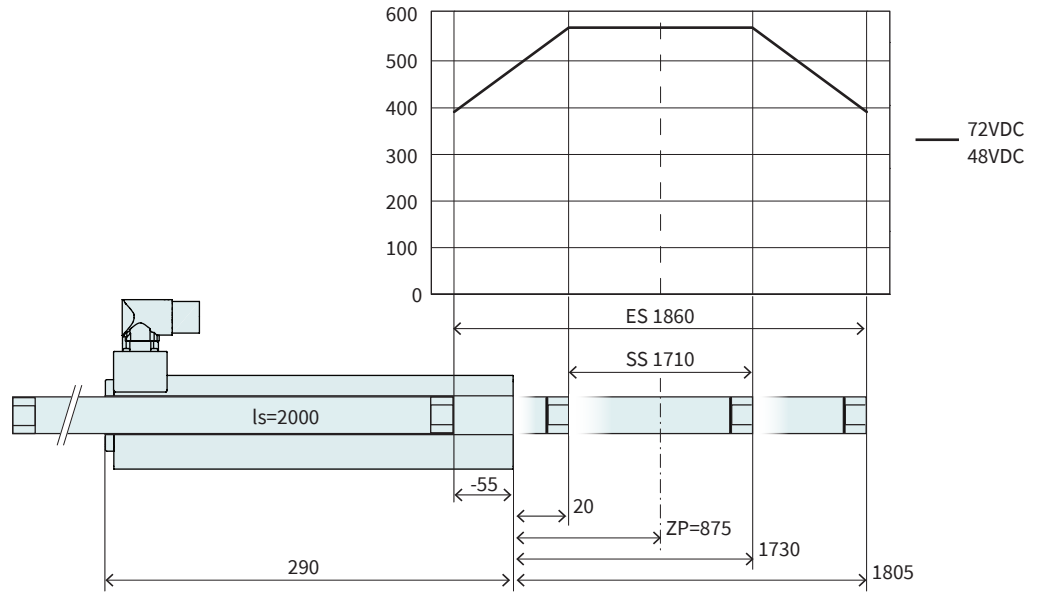
Stroke				
Standard Stroke (SS)	mm (in)		1530 (60.2)	
Extended Stroke (ES)	mm (in)		1680 (66.09)	
Force				
Max. Force @ 48VDC	N (lbf)		572 (129)	
Max. Force @ 72VDC	N (lbf)		572 (129)	
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		130 / 150 / 253 (29 / 35 / 57)	
Max. Border Force relative	%		69	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		22 (4.95)	
Velocity				
Max. Velocity @ 48VDC	m/s (in/s)		1.9 (78.9)	
Max. Velocity @ 72VDC	m/s (in/s)		2.9 (119.9)	
Position Detection				
Repeatability	mm (in)		±0.05 (±0.002)	
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm (in)		1820 (72)	
Slider Mass	g (lb)		8410 (19)	



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x1820/1770-HP</b>	Slider 'High Performance'	<a href="#">0150-3831</a>

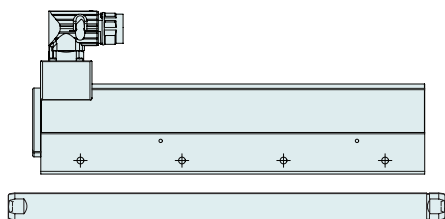
**P01-48x240F/1710x1860-HP-C-M01**

**Max. Stroke:** 1860 mm  
**Peak Force:** 572 N



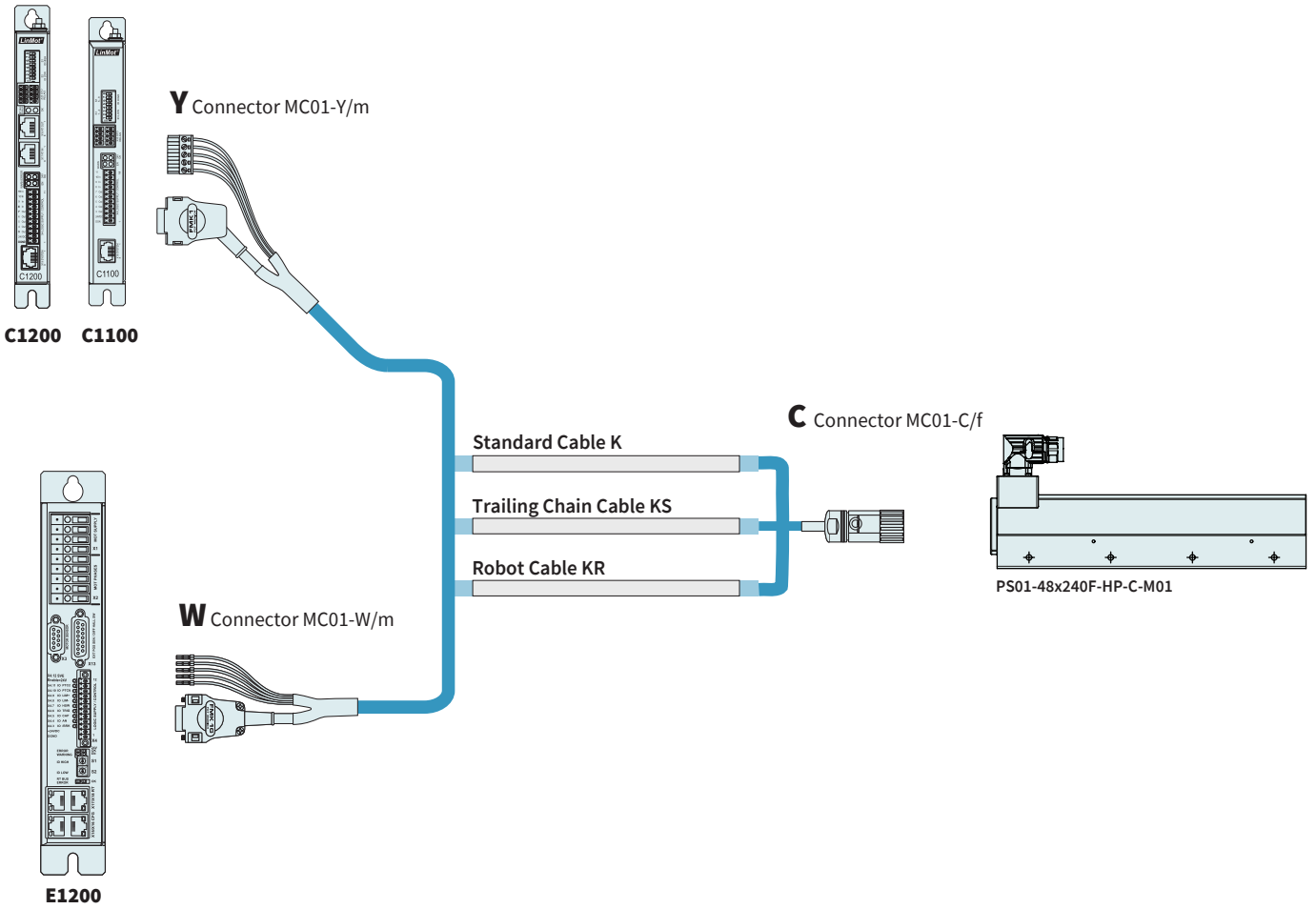
Dimensions in mm

Technical Data P01-48x240F/1710x1860-C-M01				
<b>Stroke</b>				
Standard Stroke (SS)	mm	(in)	1710	(67.29)
Extended Stroke (ES)	mm	(in)	1860	(73.2)
<b>Force</b>				
Max. Force @ 48VDC	N	(lbf)	572	(129)
Max. Force @ 72VDC	N	(lbf)	572	(129)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	130 / 150 / 253	(29 / 35 / 57)
Max. Border Force relative	%		69	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	22	(4.95)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s	(in/s)	1.9	(78.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.9	(119.9)
<b>Position Detection</b>				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
<b>Electrical Data</b>				
Max. Current @ 48VDC	A <sub>pk</sub>		25.9	
Max. Current @ 72VDC	A <sub>pk</sub>		25.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A <sub>pk</sub>		5.9 / 6.8 / 11.5	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.7 / 1.25 / 0.44	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	2000	(79)
Slider Mass	g	(lb)	9250	(20)



Item	Description	Item-No.
<b>PS01-48x240F-HP-C-M01</b>	Stator HP with IP67 connector M23/9(m)	<a href="#">0150-4801</a>
<b>PL01-28x2000/1950-HP</b>	Slider 'High Performance'	<a href="#">0150-3832</a>

**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.
<b>K15-W/C-2</b>	Motor Cable W/C, 2 m	<a href="#">0150-1811</a>
<b>K15-W/C-4</b>	Motor Cable W/C, 4 m	<a href="#">0150-1801</a>
<b>K15-W/C-6</b>	Motor Cable W/C, 6 m	<a href="#">0150-1802</a>
<b>K15-W/C-8</b>	Motor Cable W/C, 8 m	<a href="#">0150-1803</a>
<b>K15-W/C-</b>	Motor Cable W/C, Custom length	<a href="#">0150-3131</a>
<b>K15-Y/C-2</b>	Motor Cable Y/R, 2 m	<a href="#">0150-2429</a>
<b>K15-Y/C-4</b>	Motor Cable Y/R, 4 m	<a href="#">0150-2430</a>
<b>K15-Y/C-6</b>	Motor Cable Y/R, 6 m	<a href="#">0150-2431</a>
<b>K15-Y/C-8</b>	Motor Cable Y/R, 8 m	<a href="#">0150-2432</a>
<b>K15-Y-Fe/C-</b>	Motor Cable Y-Fe/R, Custom length	<a href="#">0150-3506</a>

## TRAILING CHAIN CABLE

Item	Description	Item-No.
<b>KS10-W/C-4</b>	Trailing Chain Cable W/C, 4 m	<a href="#">0150-1807</a>
<b>KS10-W/C-6</b>	Trailing Chain Cable W/C, 6 m	<a href="#">0150-1858</a>
<b>KS10-W/C-8</b>	Trailing Chain Cable W/C, 8 m	<a href="#">0150-1808</a>
<b>KS10-W/C-</b>	Trailing Chain Cable W/C, Custom length	<a href="#">0150-3139</a>
<b>KS10-Y/C-4</b>	Trailing Chain Cable Y/C, 4 m	<a href="#">0150-2439</a>
<b>KS10-Y/C-6</b>	Trailing Chain Cable Y/C, 6 m	<a href="#">0150-2440</a>
<b>KS10-Y/C-8</b>	Trailing Chain Cable Y/C, 8 m	<a href="#">0150-2441</a>
<b>KS10-Y/C-</b>	Trailing Chain Cable Y-Fe/C, Custom length	<a href="#">0150-3511</a>

## ROBOT CABLE

Item	Description	Item-No.
<b>KR10-W/C-</b>	Robot Cable KR10-W/C, Custom length	<a href="#">0150-3199</a>
<b>KR10-Y-Fe/C-</b>	Robot Cable KR10-Y-Fe/C, Custom length	<a href="#">0150-3515</a>

## CONNECTOR &amp; CABLE (INDIVIDUAL)

Item	Description	Item-No.
<b>MC01-W/m</b>	Motor Connector W/m	<a href="#">0150-3140</a>
<b>MC01-Y-Fe/m</b>	Motor Connector Y-Fe/m	<a href="#">0150-3289</a>
<b>MC01-C/f</b>	Motor Connector C/f	<a href="#">0150-3080</a>
<b>MC01-P/f</b>	Motor Connector P/f	<a href="#">0150-3021</a>
<b>K15-04/05</b>	Motor Cable per m	<a href="#">0150-1978</a>
<b>KS10-04/05</b>	Trailing Chain Cable per m	<a href="#">0150-1977</a>
<b>KR10-04/05</b>	Robot Cable per m	<a href="#">0150-1830</a>

**HEAT SINK**



Item	Description	Item-No.
<b>PC01-48x240-M01</b>	Heat sink for PS01-48x240-M01 linear motor	<a href="#">0150-4785</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

**FANS**



Item	Description	Item-No.
<b>HV01-23</b>	Fan cooling PS01-48x240-M01 linear motor	<a href="#">0150-5050</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

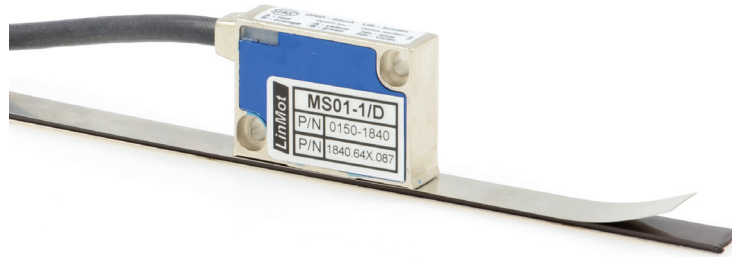
**SLIDER MOUNTING**



Item	Description	Item-No.
<b>PLF01-28</b>	Fixed Bearing Set for 27 mm and 28mm Slider	<a href="#">0150-3087</a>
<b>PLF01-28-SS</b>	Fixed Bearing Set for 27 mm and 28 mm Slider, Stainless steel	<a href="#">0150-3297</a>
<b>PLL01-27</b>	Floating Bearing for PL01-27 Slider	<a href="#">0150-3294</a>
<b>PLL01-28</b>	Floating Bearing for PL01-28 Slider	<a href="#">0150-3094</a>
<b>PLM01-28-MK</b>	Mounting Kit for PL01-28 Slider	<a href="#">0150-3095</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

**EXTERNAL POSITION SENSORS**



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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

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