

# LINEAR MOTORS P01-48x360F-HP



- ✓ Higher maximum peak force and acceleration
- ✓ Increased continuous force and acceleration
- ✓ Higher permissible operating temperatures
- ✓ Wide range of applications in handling modules as well as in plant and machine construction

## LINEAR MOTORS P01-48x360F-HP

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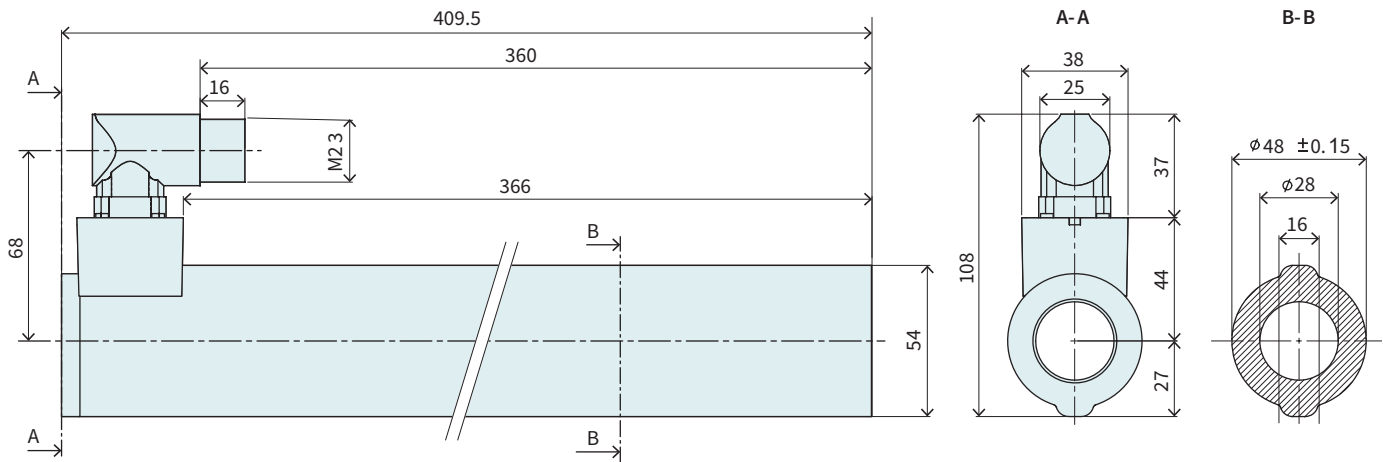


## MOTOR FAMILY P01-48x360F-HP



Technical Data				
<b>Stroke</b>				
Standard Stroke (SS)	mm (in)		≤ 1590	(≤ 62.6)
Extended Stroke (ES)	mm (in)		≤ 1740	(≤ 68.5)
<b>Force</b>				
Max. Force @ 48VDC	N (lbf)		905	(204)
Max. Force @ 72VDC	N (lbf)		1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		240 / 408 / -	(54 / 92 / -)
Max. Border Force relative	%		79	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		32	(7.19)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s (in/s)		1.3	(53.9)
Max. Velocity @ 72VDC	m/s (in/s)		2	(80.9)
<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>		28.2	
Max. Current @ 72VDC	A <sub>pk</sub>		31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		7.5 / 12.8 / -	
Terminal Resistance 25 °C / 150 °C	Ohm		1.4 / 2.1	
Terminal Inductivity	mH		1.6	
Magnetic Period	mm (in)		60	(2.35)
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 340 / -	
<b>Mechanical Data</b>				
Stator Diameter	mm (in)		48	(1.9)
Stator Length [Connector type / Cable type]	mm (in)		409.5	(16)
Stator Mass	g (lb)		2880	(6.34)
Slider Diameter	mm (in)		28	(1.1)
Slider Length	mm (in)		500 - 2000	(20 - 79)
Slider Mass	g (lb)		2160 - 9140	(4.75 - 20.1)
IP Code			IP 65	
<b>Certification</b>				
cRUus	File-No.		E354430	

**STATOR**

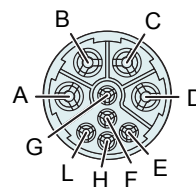


Item	Description	Item-No.
PS01-48x360F-HP-C	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>

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

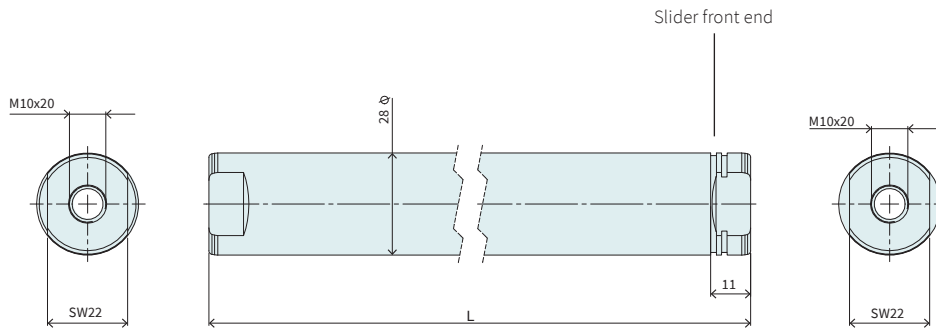
**C-Connector**



View: Motor Connector, plug side

**SLIDER**

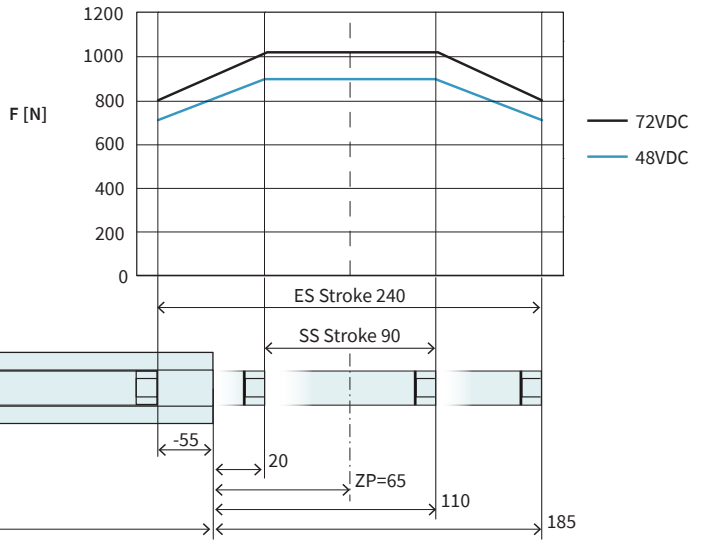
**Slider HP**



Slider High Performance				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-28x500/450-HP	Slider 'High Performance'	330	180	<a href="#">0150-3822</a>
PL01-28x620/570-HP	Slider 'High Performance'	450	300	<a href="#">0150-3823</a>
PL01-28x710/660-HP	Slider 'High Performance'	540	390	<a href="#">0150-3824</a>
PL01-28x800/750-HP	Slider 'High Performance'	630	480	<a href="#">0150-3825</a>
PL01-28x920/870-HP	Slider 'High Performance'	750	600	<a href="#">0150-3828</a>
PL01-28x1010/960-HP	Slider 'High Performance'	840	690	<a href="#">0150-3827</a>
PL01-28x1220/1170-HP	Slider 'High Performance'	1050	900	<a href="#">0150-3828</a>
PL01-28x1400/1350-HP	Slider 'High Performance'	1230	1080	<a href="#">0150-3829</a>
PL01-28x1610/1560-HP	Slider 'High Performance'	1440	1290	<a href="#">0150-3830</a>
PL01-28x1820/1770-HP	Slider 'High Performance'	1650	1500	On request
PL01-28x2000/1950-HP	Slider 'High Performance'	1830	1680	On request

**P01-48x360F/90x240-HP**

**Max. Stroke:** 240 mm  
**Peak Force:** 1020 N



Dimensions in mm

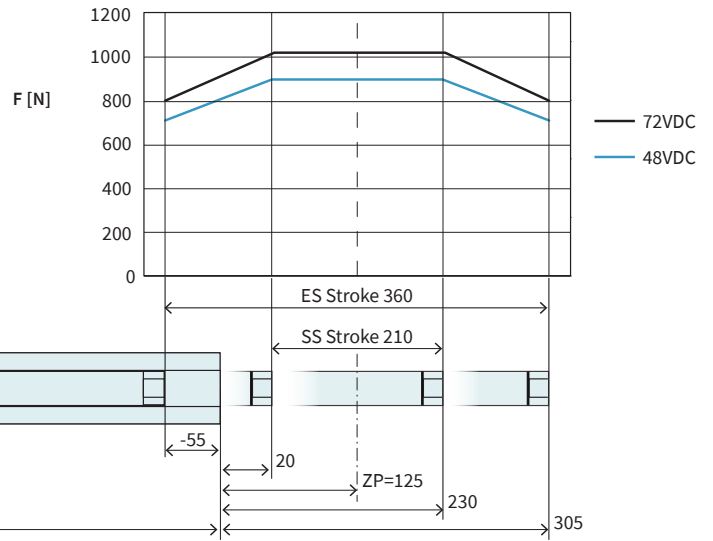
Technical Data P01-48x360F/90x240-HP			
<b>Stroke</b>			
Standard Stroke (SS)	mm (in)		90 (3.54)
Extended Stroke (ES)	mm (in)		240 (9.45)
<b>Force</b>			
Max. Force @ 48VDC	N (lbf)		905 (204)
Max. Force @ 72VDC	N (lbf)		1020 (230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		240 / 408 / - (54 / 92 / -)
Max. Border Force relative	%		79
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		32 (7.19)
<b>Velocity</b>			
Max. Velocity @ 48VDC	m/s (in/s)		1.3 (53.9)
Max. Velocity @ 72VDC	m/s (in/s)		2 (80.9)
<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>		28.2
Max. Current @ 72VDC	A <sub>pk</sub>		31.9
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		7.5 / 12.8 / -
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	*K/W		0.72 / 0.24 / -
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 340 / -
<b>Mechanical Data</b>			
Slider Length	mm (in)		500 (20)
Slider Mass	g (lb)		2160 (4.75)



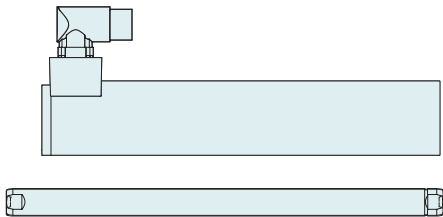
Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x500/450-HP</b>	Slider 'High Performance'	<a href="#">0150-3822</a>

**P01-48x360F/210x360-HP**

**Max. Stroke:** 360 mm  
**Peak Force:** 1020 N



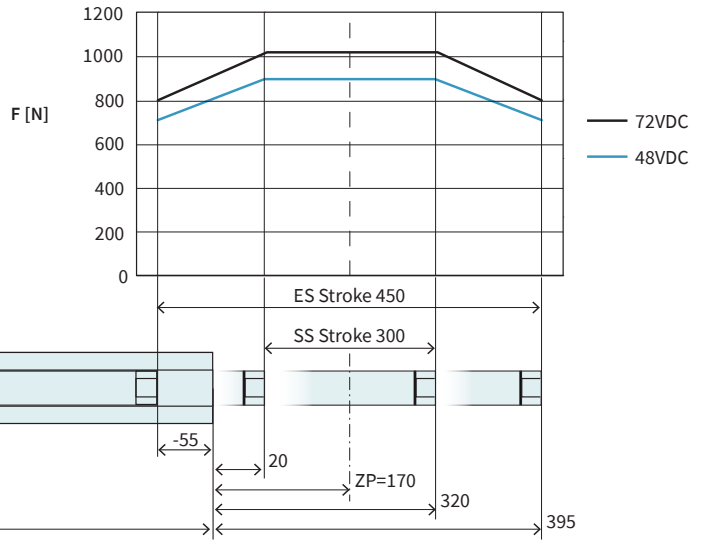
Technical Data P01-48x360F/210x360-HP			
<b>Stroke</b>			
Standard Stroke (SS)	mm (in)	210 (8.27)	
Extended Stroke (ES)	mm (in)	360 (14.17)	
<b>Force</b>			
Max. Force @ 48VDC	N (lbf)	905 (204)	
Max. Force @ 72VDC	N (lbf)	1020 (230)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	240 / 408 / - (54 / 92 / -)	
Max. Border Force relative	%	79	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	32 (7.19)	
<b>Velocity</b>			
Max. Velocity @ 48VDC	m/s (in/s)	1.3 (53.9)	
Max. Velocity @ 72VDC	m/s (in/s)	2 (80.9)	
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	±0.35	
<b>Electrical Data</b>			
Max. Current @ 48VDC	A <sub>pk</sub>	28.2	
Max. Current @ 72VDC	A <sub>pk</sub>	31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	7.5 / 12.8 / -	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 340 / -	
<b>Mechanical Data</b>			
Slider Length	mm (in)	620 (24)	
Slider Mass	g (lb)	2720 (5.98)	



Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x620/570-HP</b>	Slider 'High Performance'	<a href="#">0150-3823</a>

**P01-48x360F/300x450-HP**

**Max. Stroke:** 450 mm  
**Peak Force:** 1020 N



Dimensions in mm

Technical Data P01-48x360F/300x450-HP

Stroke			
Standard Stroke (SS)	mm (in)	300	(11.81)
Extended Stroke (ES)	mm (in)	450	(17.72)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	240 / 408 / -	(54 / 92 / -)
Max. Border Force relative	%	79	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	32	(7.19)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.3	(53.9)
Max. Velocity @ 72VDC	m/s (in/s)	2	(80.9)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.3	
Electrical Data			
Max. Current @ 48VDC	A <sub>pk</sub>	28.2	
Max. Current @ 72VDC	A <sub>pk</sub>	31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	7.5 / 12.8 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 340 / -	
Mechanical Data			
Slider Length	mm (in)	710	(28)
Slider Mass	g (lb)	3140	(6.91)

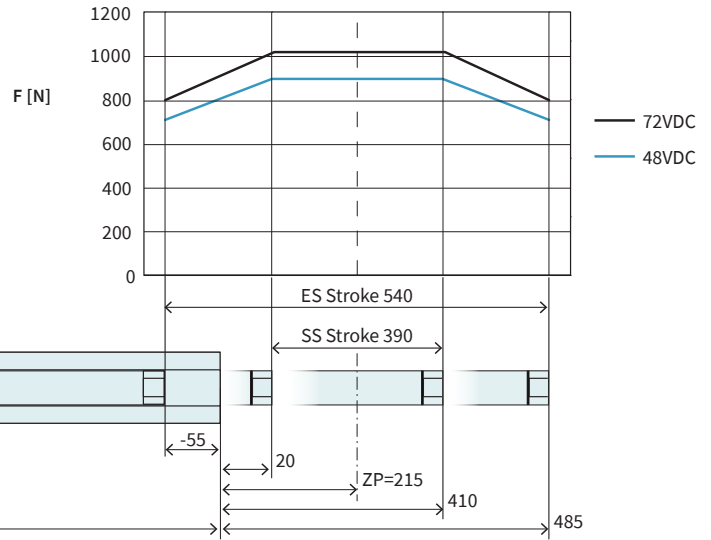


Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x710/660-HP</b>	Slider 'High Performance'	<a href="#">0150-3824</a>

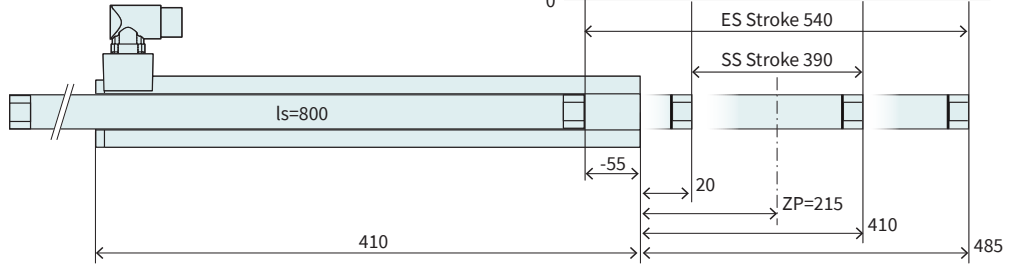


**P01-48x360F/390x540-HP**

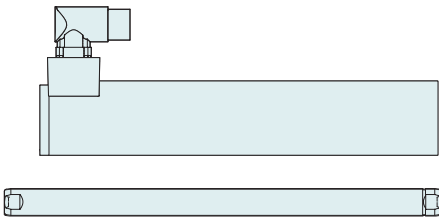
**Max. Stroke:** 540 mm  
**Peak Force:** 1020 N



Dimensions in mm



Technical Data P01-48x360F/390x540-HP				
<b>Stroke</b>				
Standard Stroke (SS)	mm	(in)	390	(15.35)
Extended Stroke (ES)	mm	(in)	540	(21.26)
<b>Force</b>				
Max. Force @ 48VDC	N	(lbf)	905	(204)
Max. Force @ 72VDC	N	(lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	240 / 408 / -	(54 / 92 / -)
Max. Border Force relative	%		79	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	32	(7.19)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s	(in/s)	1.3	(53.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2	(80.9)
<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>		28.2	
Max. Current @ 72VDC	A <sub>pk</sub>		31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		7.5 / 12.8 / -	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 340 / -	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	800	(31)
Slider Mass	g	(lb)	3560	(7.83)

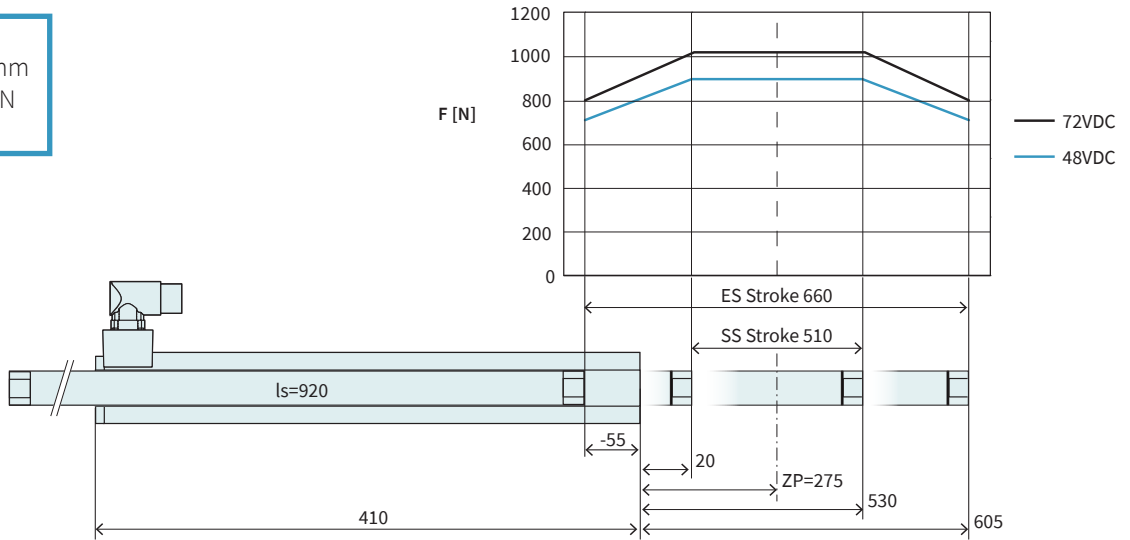


Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x800/750-HP</b>	Slider 'High Performance'	<a href="#">0150-3825</a>

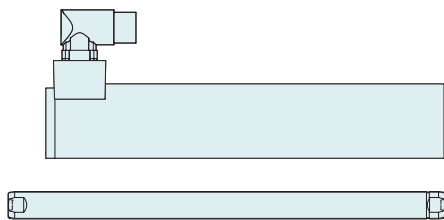
**P01-48x360F/510x660-HP**

**Max. Stroke:** 660 mm  
**Peak Force:** 1020 N

Dimensions in mm



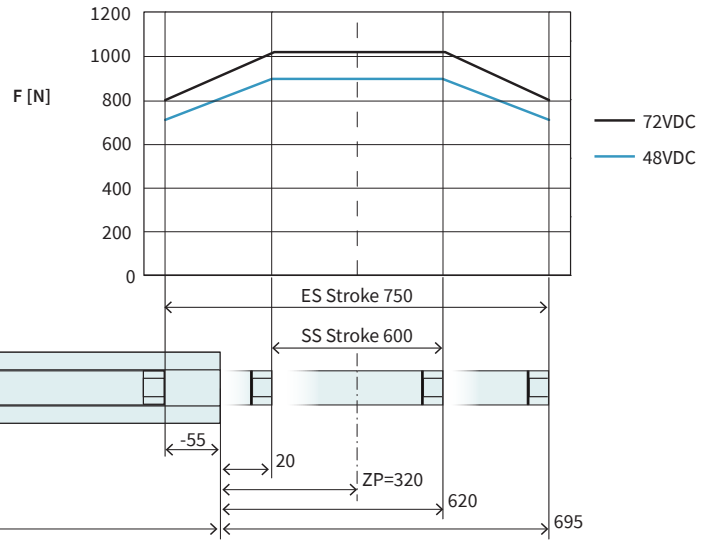
Technical Data P01-48x360F/510x660-HP			
<b>Stroke</b>			
Standard Stroke (SS)	mm	(in)	510 (20.08)
Extended Stroke (ES)	mm	(in)	660 (25.98)
<b>Force</b>			
Max. Force @ 48VDC	N	(lbf)	905 (204)
Max. Force @ 72VDC	N	(lbf)	1020 (230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	240 / 408 / - (54 / 92 / -)
Max. Border Force relative	%		79
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	32 (7.19)
<b>Velocity</b>			
Max. Velocity @ 48VDC	m/s	(in/s)	1.3 (53.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2 (80.9)
<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>		28.2
Max. Current @ 72VDC	A <sub>pk</sub>		31.9
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		7.5 / 12.8 / -
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	*K/W		0.72 / 0.24 / -
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 340 / -
<b>Mechanical Data</b>			
Slider Length	mm	(in)	920 (36)
Slider Mass	g	(lb)	4120 (9.06)



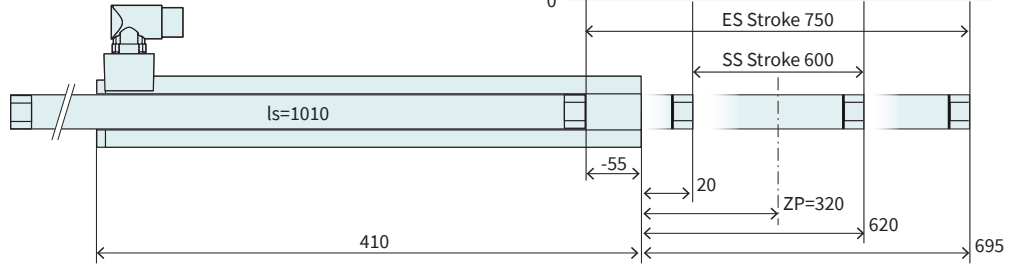
Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x920/870-HP</b>	Slider 'High Performance'	<a href="#">0150-3878</a>

**P01-48x360F/600x750-HP**

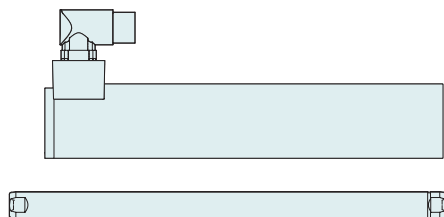
**Max. Stroke:** 750 mm  
**Peak Force:** 1020 N



Dimensions in mm



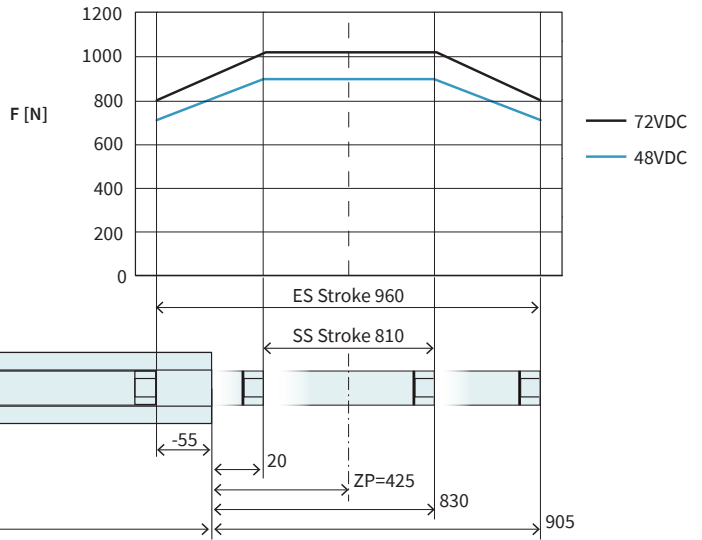
Technical Data P01-48x360F/600x750-HP				
<b>Stroke</b>				
Standard Stroke (SS)	mm	(in)	600	(23.62)
Extended Stroke (ES)	mm	(in)	750	(29.53)
<b>Force</b>				
Max. Force @ 48VDC	N	(lbf)	905	(204)
Max. Force @ 72VDC	N	(lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	240 / 408 / -	(54 / 92 / -)
Max. Border Force relative	%		79	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	32	(7.19)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s	(in/s)	1.3	(53.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2	(80.9)
<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>		28.2	
Max. Current @ 72VDC	A <sub>pk</sub>		31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		7.5 / 12.8 / -	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 340 / -	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	1010	(40)
Slider Mass	g	(lb)	4540	(10)



Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x1010/960-HP</b>	Slider 'High Performance'	<a href="#">0150-3827</a>

**P01-48x360F/810x960-HP**

**Max. Stroke:** 960 mm  
**Peak Force:** 1020 N



Dimensions in mm

Technical Data P01-48x360F/810x960-HP

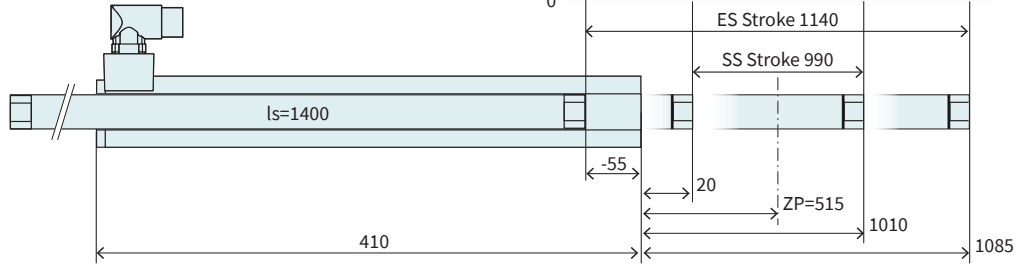
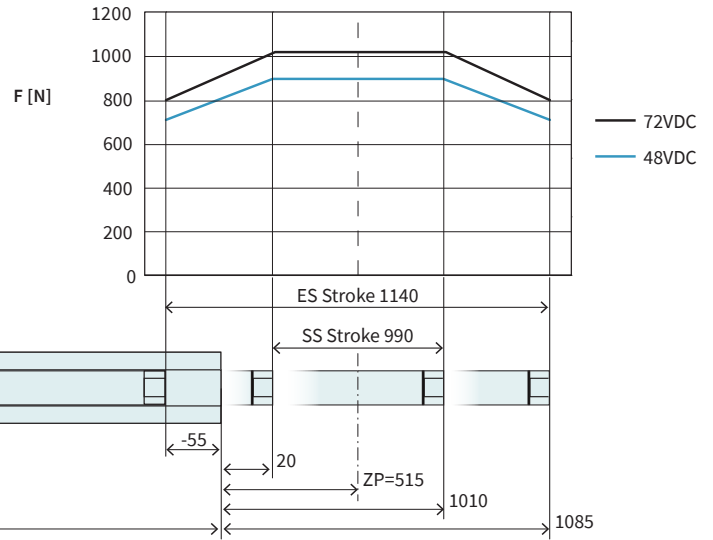
Stroke			
Standard Stroke (SS)	mm (in)	810	(31.89)
Extended Stroke (ES)	mm (in)	960	(37.8)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	240 / 408 / -	(54 / 92 / -)
Max. Border Force relative	%	79	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	32	(7.19)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.3	(53.9)
Max. Velocity @ 72VDC	m/s (in/s)	2	(80.9)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 48VDC	A <sub>pk</sub>	28.2	
Max. Current @ 72VDC	A <sub>pk</sub>	31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	7.5 / 12.8 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 340 / -	
Mechanical Data			
Slider Length	mm (in)	1220	(48)
Slider Mass	g (lb)	5510	(12.12)



Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x1220/1170-HP</b>	Slider 'High Performance'	<a href="#">0150-3828</a>

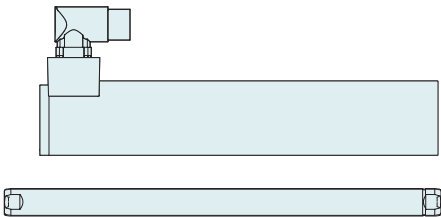
**P01-48x360F/990x1140-HP**

**Max. Stroke:** 1140 mm  
**Peak Force:** 1020 N



Dimensions in mm

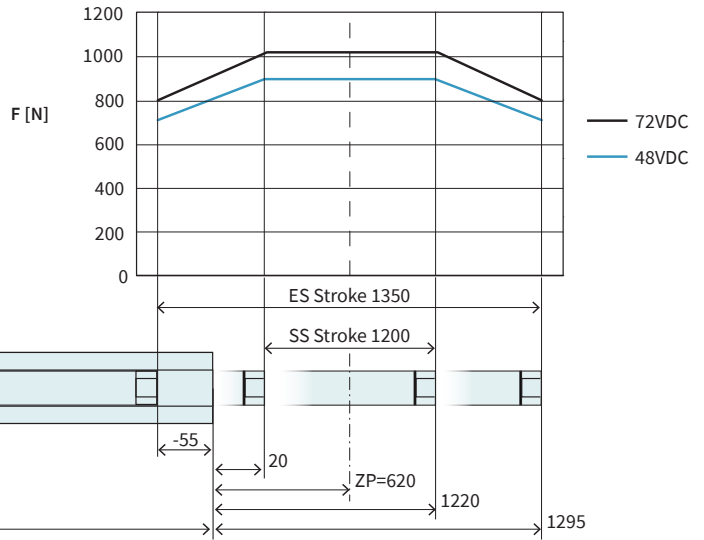
Technical Data P01-48x360F/990x1140-HP			
<b>Stroke</b>			
Standard Stroke (SS)	mm (in)	990 (38.98)	
Extended Stroke (ES)	mm (in)	1140 (44.88)	
<b>Force</b>			
Max. Force @ 48VDC	N (lbf)	905 (204)	
Max. Force @ 72VDC	N (lbf)	1020 (230)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	240 / 408 / -	(54 / 92 / -)
Max. Border Force relative	%	79	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	32	(7.19)
<b>Velocity</b>			
Max. Velocity @ 48VDC	m/s (in/s)	1.3	(53.9)
Max. Velocity @ 72VDC	m/s (in/s)	2	(80.9)
<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>	28.2	
Max. Current @ 72VDC	A <sub>pk</sub>	31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	7.5 / 12.8 / -	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 340 / -	
<b>Mechanical Data</b>			
Slider Length	mm (in)	1400	(55)
Slider Mass	g (lb)	6350	(13.97)



Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x1400/1350-HP</b>	Slider 'High Performance'	<a href="#">0150-3829</a>

**P01-48x360F/1200x1350-HP**

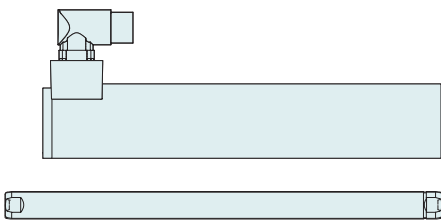
**Max. Stroke:** 1350 mm  
**Peak Force:** 1020 N



Dimensions in mm

Technical Data P01-48x360F/1200x1350-HP

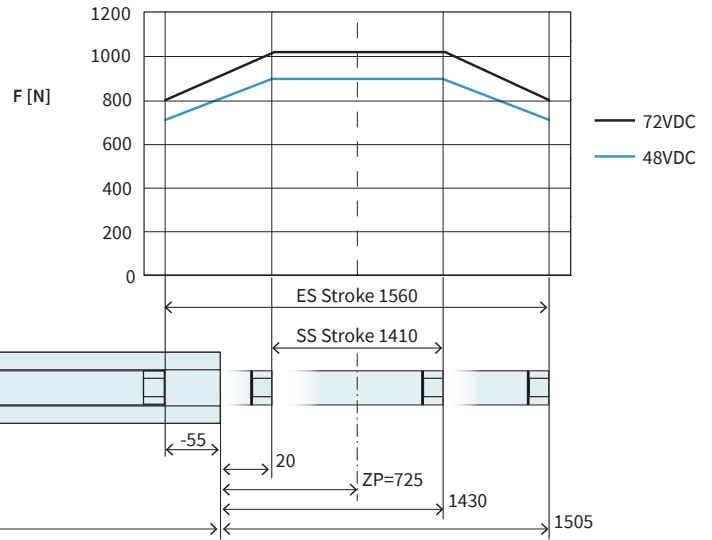
Stroke			
Standard Stroke (SS)	mm (in)		1200 (47.24)
Extended Stroke (ES)	mm (in)		1350 (53.15)
Force			
Max. Force @ 48VDC	N (lbf)		905 (204)
Max. Force @ 72VDC	N (lbf)		1020 (230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		240 / 408 / - (54 / 92 / -)
Max. Border Force relative	%		79
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		32 (7.19)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)		1.3 (53.9)
Max. Velocity @ 72VDC	m/s (in/s)		2 (80.9)
Position Detection			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.15
Electrical Data			
Max. Current @ 48VDC	A <sub>pk</sub>		28.2
Max. Current @ 72VDC	A <sub>pk</sub>		31.9
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		7.5 / 12.8 / -
Thermal Data			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.72 / 0.24 / -
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 340 / -
Mechanical Data			
Slider Length	mm (in)		1610 (63)
Slider Mass	g (lb)		7330 (16.13)



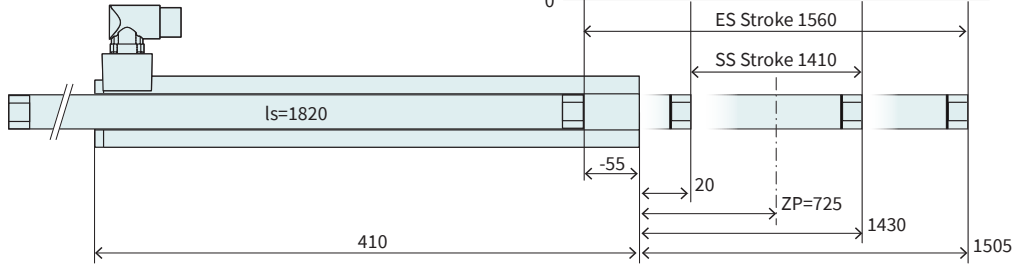
Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x1610/1560-HP</b>	Slider 'High Performance'	<a href="#">0150-3830</a>

**P01-48x360F/1410x1560-HP**

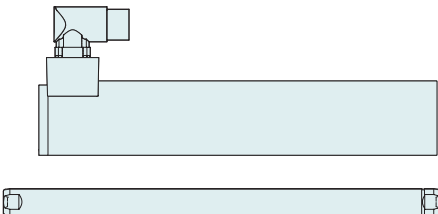
**Max. Stroke:** 1560 mm  
**Peak Force:** 1020 N



Dimensions in mm



Technical Data P01-48x360F/1410x1560-HP				
<b>Stroke</b>				
Standard Stroke (SS)	mm	(in)	1410	(55.51)
Extended Stroke (ES)	mm	(in)	1560	(61.42)
<b>Force</b>				
Max. Force @ 48VDC	N	(lbf)	905	(204)
Max. Force @ 72VDC	N	(lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	240 / 408 / -	(54 / 92 / -)
Max. Border Force relative	%		79	
Force Constant	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	32	(7.19)
<b>Velocity</b>				
Max. Velocity @ 48VDC	m/s	(in/s)	1.3	(53.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2	(80.9)
<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>		28.2	
Max. Current @ 72VDC	A <sub>pk</sub>		31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		7.5 / 12.8 / -	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1000 / 340 / -	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	1820	(72)
Slider Mass	g	(lb)	8300	(18.26)

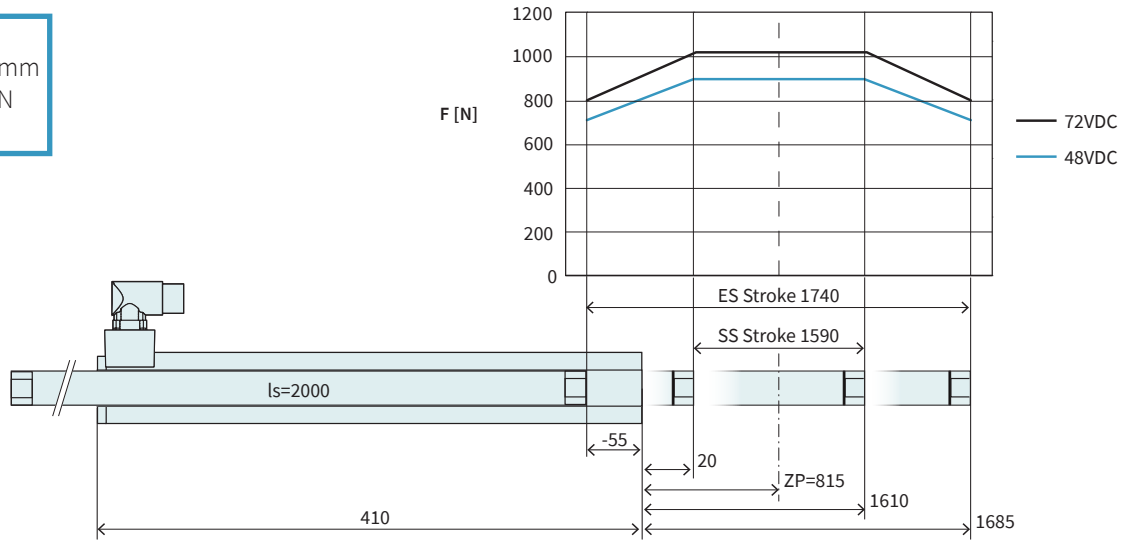


Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x1820/1770-HP</b>	Slider 'High Performance'	On request

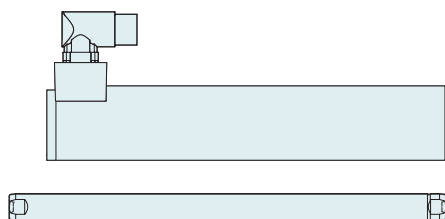
**P01-48x360F/1590x1740-HP**

**Max. Stroke:** 1740 mm  
**Peak Force:** 1020 N

Dimensions in mm



Technical Data P01-48x360F/1590x1740-HP			
<b>Stroke</b>			
Standard Stroke (SS)	mm (in)	1590 (62.6)	
Extended Stroke (ES)	mm (in)	1740 (68.5)	
<b>Force</b>			
Max. Force @ 48VDC	N (lbf)	905 (204)	
Max. Force @ 72VDC	N (lbf)	1020 (230)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	240 / 408 / -	(54 / 92 / -)
Max. Border Force relative	%	79	
Force Constant	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	32	(7.19)
<b>Velocity</b>			
Max. Velocity @ 48VDC	m/s (in/s)	1.3	(53.9)
Max. Velocity @ 72VDC	m/s (in/s)	2	(80.9)
<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>	28.2	
Max. Current @ 72VDC	A <sub>pk</sub>	31.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	7.5 / 12.8 / -	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.72 / 0.24 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1000 / 340 / -	
<b>Mechanical Data</b>			
Slider Length	mm (in)	2000	(79)
Slider Mass	g (lb)	9140	(20.11)



Item	Description	Item-No.
<b>PS01-48x360F-HP-C</b>	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
<b>PL01-28x2000/1950-HP</b>	Slider 'High Performance'	On request



**Linear Guides H01**



**HM01-48x360/90 Linear Module 48x360 with 90 mm Stroke**

→	H-Guide	H01-48x370/90	H-Guide for P01-48x360, Stroke max 90 mm	<a href="#">0150-5240</a>
		H01-48x370/90-GF	H-Guide for P01-48x360, Stroke max 90 mm	<a href="#">0150-5243</a>
→	Stator	PS01-48x360F-HP-C	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
→	Slider	PL01-28x500/450-HP	Slider 'High Performance'	<a href="#">0150-3822</a>

**HM01-48x360/210 Linear Module 48x360 with 210 mm Stroke**

→	H-Guide	H01-48x370/210	H-Guide for P01-48x360, Stroke max 210 mm	<a href="#">0150-5241</a>
		H01-48x370/210-GF	H-Guide for P01-48x360, Stroke max 210 mm	<a href="#">0150-5244</a>
→	Stator	PS01-48x360F-HP-C	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
→	Slider	PL01-28x620/570-HP	Slider 'High Performance'	<a href="#">0150-3823</a>

**HM01-48x360/300 Linear Module 48x360 with 300 mm Stroke**

→	H-Guide	H01-48x370/300	H-Guide for P01-48x360, Stroke max 300 mm	<a href="#">0150-5242</a>
		H01-48x370/300-GF	H-Guide for P01-48x360, Stroke max 300 mm	<a href="#">0150-5245</a>
→	Stator	PS01-48x360F-HP-C	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
→	Slider	PL01-28x710/660-HP	Slider 'High Performance'	<a href="#">0150-3824</a>

**HM01-48x360/510 Linear Module 48x360 with 510 mm Stroke**

→	H-Guide	H01-48x370/510	H-Guide for P01-48x360, Stroke max 510 mm	<a href="#">0150-5252</a>
		H01-48x370/510-GF	H-Guide for P01-48x360, Stroke max 510 mm	on request
→	Stator	PS01-48x360F-HP-C	Stator HP with IP67 Connector M23/9(m)	<a href="#">0150-2993</a>
→	Slider	PL01-28x920/870-HP	Slider 'High Performance'	<a href="#">0150-3878</a>

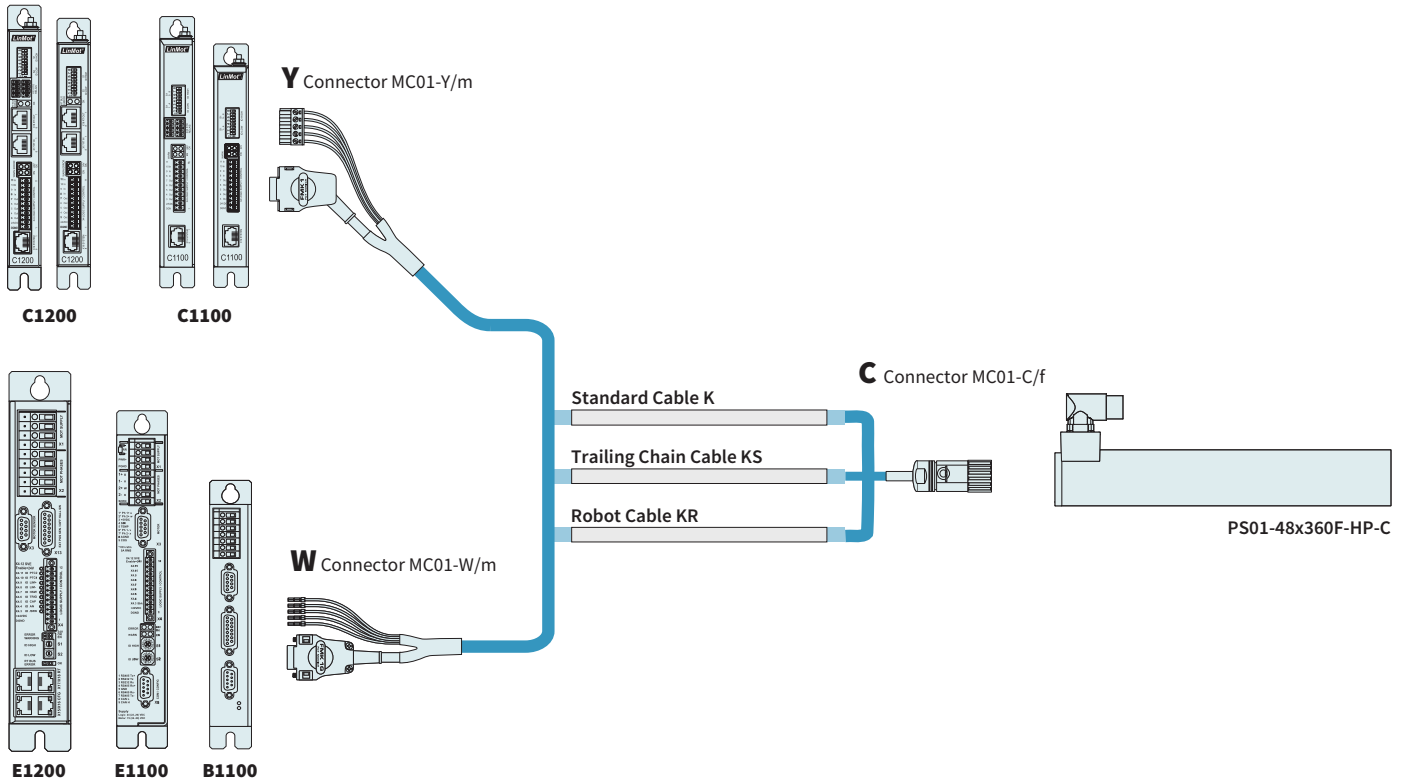
**Accessories**

→	Brake	HB01-48	Pneumatic Brake for H01-48/1000N(4-6Bar)	<a href="#">0150-5098</a>
→	Fan	HV01-37/48	Fan cooling for H01-37/48 & PF02-37/48	<a href="#">0150-5051</a>
→	MagSpring	MF01-37/H37	Flange MagSpring 37 / H-Guide 23/37/48	<a href="#">0250-2307</a>
→		MA01-37/H48	Adapter MagSpring 37 / H-Guide 48	<a href="#">0250-0118</a>
→	Sliding block	PFN01-8/M6	Sliding block 8mm, M6 thread	<a href="#">0250-3245</a>
→	Centering sleeve	HC01-11/05	Centering sleeve D11x5 mm	<a href="#">0150-3252</a>
→	Wipers	HA01-48/28-F	Wiper for H01-48 guides, front side	<a href="#">0150-5109</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "LINEAR GUIDES".

**Motor Cable**

3



**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>

**MOTOR FLANGES**

3



Item	Description	Item-No.
PF01-48x346	Flange 48x120 mm	<a href="#">0150-2145</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

**FANS**



Item	Description	Item-No.
HV01-37/48	Fan cooling for H01-37, B01-37 and PF02-37	<a href="#">0150-5051</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

**SLIDER MOUNTING**



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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

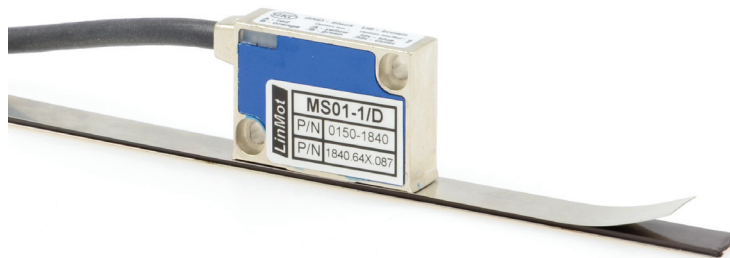
**WIPERS**



Item	Description	Item-No.
PA01-48/27-F	Wipers for PS01-48x...	<a href="#">0150-3228</a>
PA01-48/27-R	Wipers for PS01-48x...-C	<a href="#">0150-3229</a>
PA01-48/28-F	Wipers for PS01-48x...	<a href="#">0150-3127</a>
PA01-48/28-R	Wipers for PS01-48x...-C	<a href="#">0150-3202</a>

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)	<a href="#">0150-1840</a>
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	<a href="#">0150-1963</a>
KS025-D/D-Encoder	Encoder Cable (Length in m)	<a href="#">0150-3166</a>
KS025-D/D15-Encoder	Encoder Cable (Length in m)	<a href="#">0150-3168</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



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