

LINEAR MOTORS P01-48x360F-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 P01-48x360F-HP-C-M01

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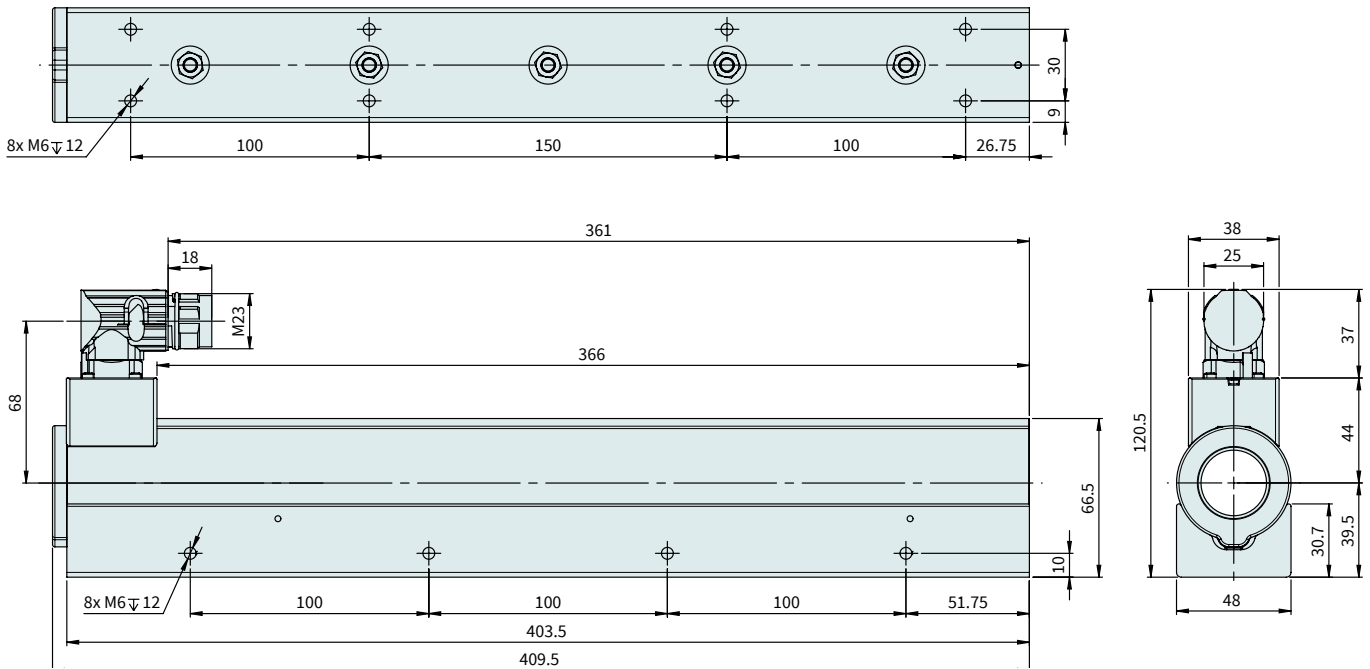


MOTOR FAMILY P01-48x360F-HP-C-M01



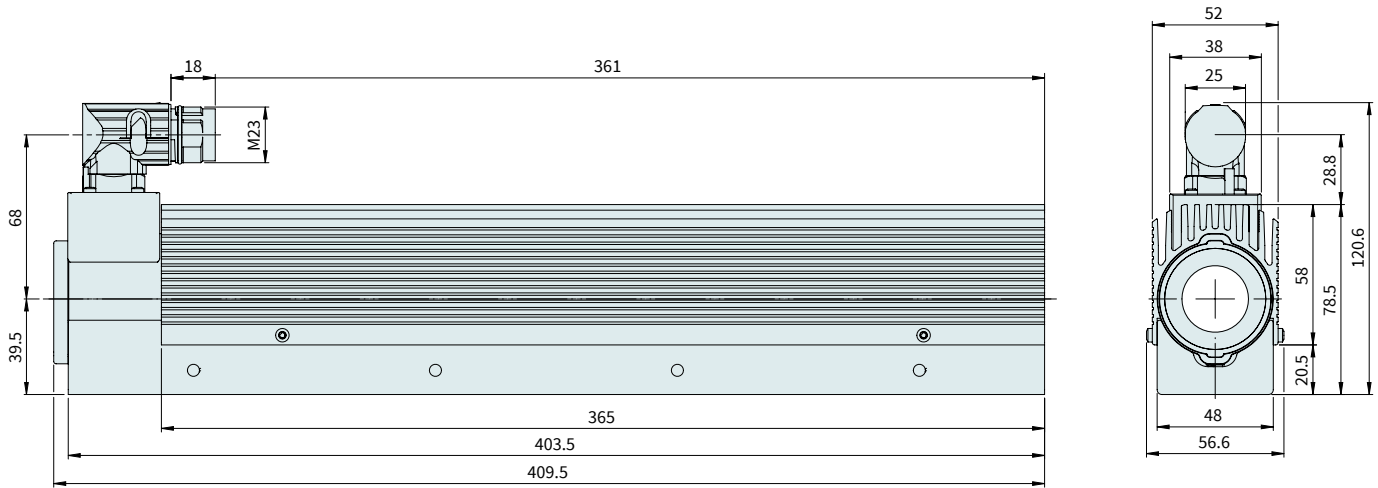
Technical Data				
Stroke				
Standard Stroke (SS)	mm	(in)	≤ 1590	(≤ 62.6)
Extended Stroke (ES)	mm	(in)	≤ 1740	(≤ 68.5)
Force				
Max. Force @ 48VDC	N	(lbf)	905	(204)
Max. Force @ 72VDC	N	(lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	192 / 224 / 374	(43 / 50 / 84)
Max. Border Force relative	%		79	
Force Constant	N/A _{pk}	(lbf/A _{pk})	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				
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)
Electrical Data				
Max. Current @ 48VDC	A _{pk}		28.2	
Max. Current @ 72VDC	A _{pk}		31.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7	
Terminal Resistance 25 °C / 150 °C	Ohm		1.4 / 2.1	
Terminal Inductivity	mH		1.6	
Magnetic Period	mm	(in)	60	(2.35)
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
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	
Certification				
cRUus	File-No.		E354430	

STATOR



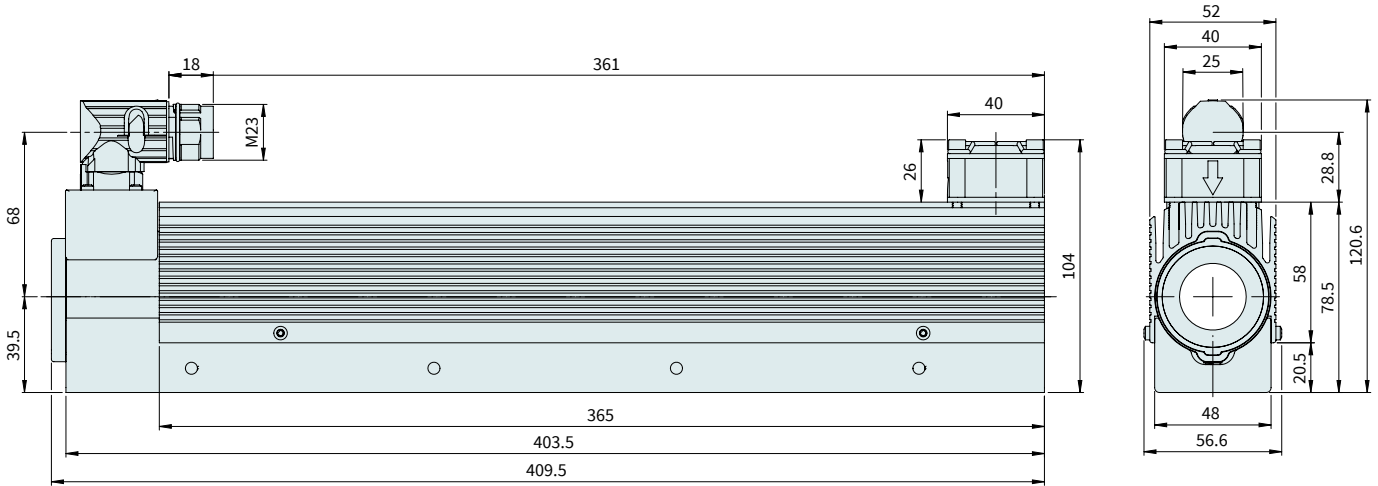
Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802

STATOR WITH HEAT SINK (ACCESSORIES)



Item	Description	Item-No.
PC01-48x360-M01	Heat sink for PS01-48x360-M01 linear motor	0150-4786

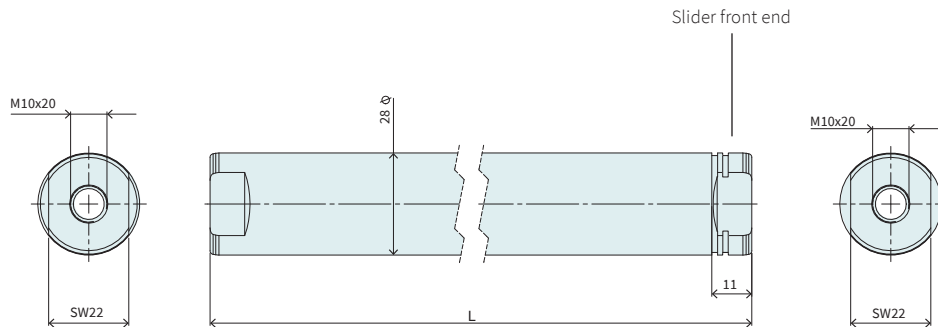
STATOR WITH HEAT SINK AND FAN (ACCESSORIES)



Item	Description	Item-No.
HV01-23	Fan cooling for PS01-48x360-M01 linear motor	0150-5050

SLIDER

Slider HP



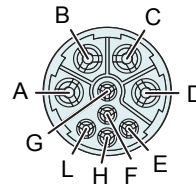
Slider High Performance				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-28x500/450-HP	Slider 'High Performance'	330	180	0150-3822
PL01-28x620/570-HP	Slider 'High Performance'	450	300	0150-3823
PL01-28x710/660-HP	Slider 'High Performance'	540	390	0150-3824
PL01-28x800/750-HP	Slider 'High Performance'	630	480	0150-3825
PL01-28x920/870-HP	Slider 'High Performance'	750	600	0150-3878
PL01-28x1010/960-HP	Slider 'High Performance'	840	690	0150-3827
PL01-28x1220/1170-HP	Slider 'High Performance'	1050	900	0150-3828
PL01-28x1400/1350-HP	Slider 'High Performance'	1230	1080	0150-3829
PL01-28x1610/1560-HP	Slider 'High Performance'	1440	1290	0150-3830
PL01-28x1820/1770-HP	Slider 'High Performance'	1650	1500	On request
PL01-28x2000/1950-HP	Slider 'High Performance'	1830	1680	On request

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

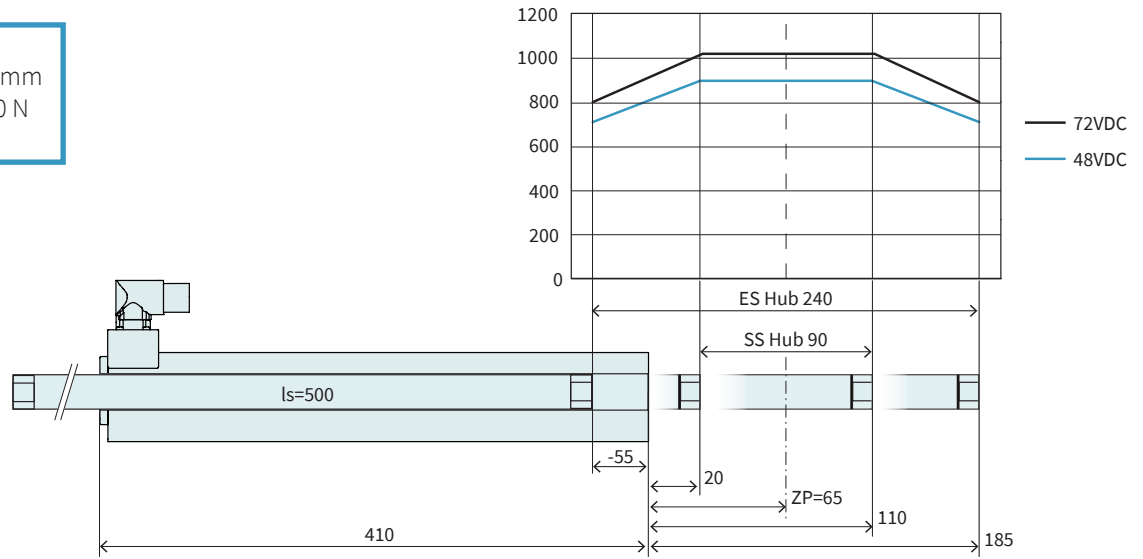
C-Connector



View: Motor Connector, plug side

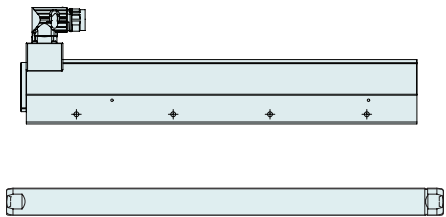
P01-48x360F/90x240-HP-C-M01

Max. Stroke: 240 mm
Peak Force: 1020 N



Dimensions in mm

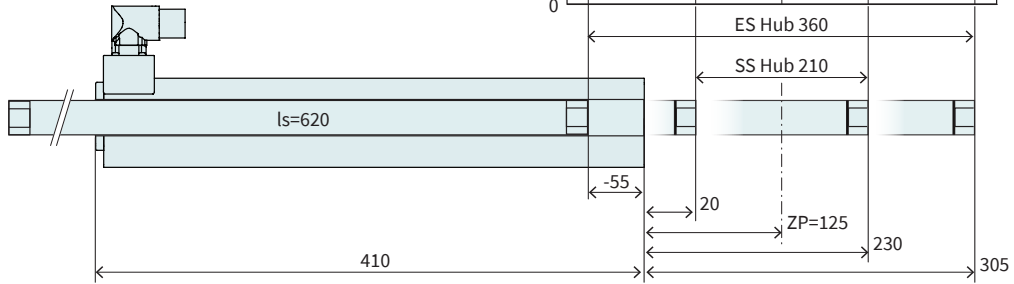
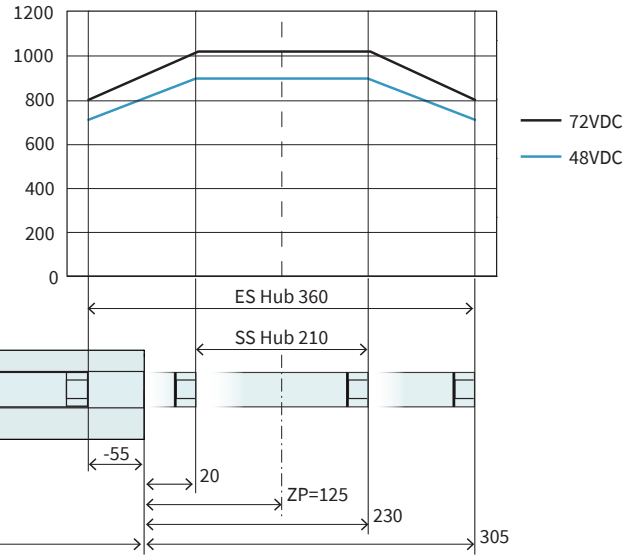
Technical Data P01-48x360F/90x240-HP-C-M01				
Stroke				
Standard Stroke (SS)	mm	(in)	90	(3.54)
Extended Stroke (ES)	mm	(in)	240	(9.45)
Force				
Max. Force @ 48VDC	N	(lbf)	905	(204)
Max. Force @ 72VDC	N	(lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	192 / 224 / 374	(43 / 50 / 84)
Max. Border Force relative	%		79	
Force Constant	N/A _{pk}	(lbf/A _{pk})	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	%		± 0.45	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		28.2	
Max. Current @ 72VDC	A _{pk}		31.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	2160	(4.75)



Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x500/450-HP	Slider 'High Performance'	0150-3822

P01-48x360F/210x360-HP-C-M01

Max. Stroke: 360 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/210x360-HP-C-M01

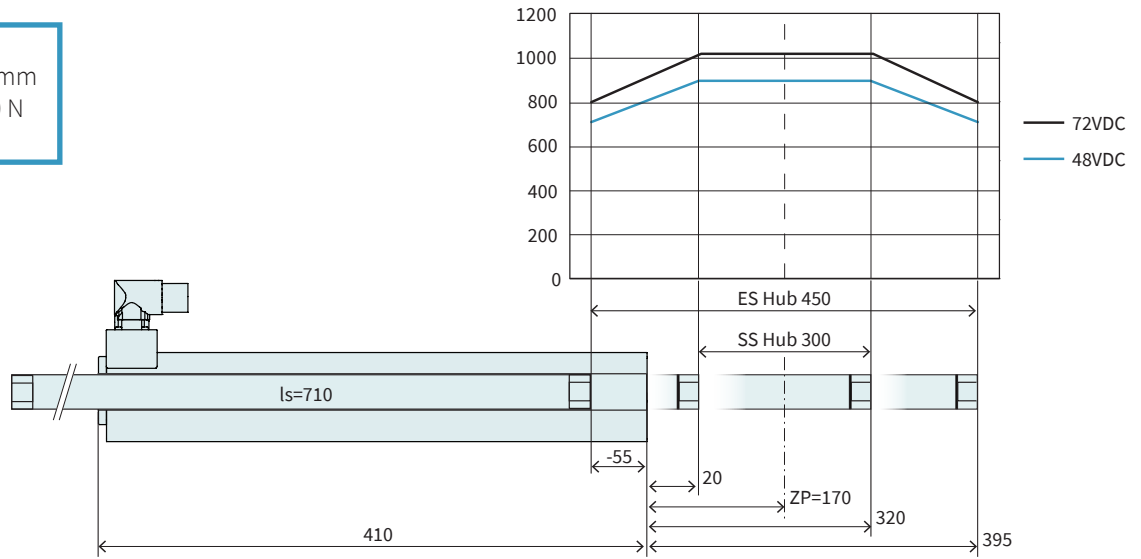
Stroke			
Standard Stroke (SS)	mm (in)		210 (8.27)
Extended Stroke (ES)	mm (in)		360 (14.17)
Force			
Max. Force @ 48VDC	N (lbf)		905 (204)
Max. Force @ 72VDC	N (lbf)		1020 (230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		192 / 224 / 374 (43 / 50 / 84)
Max. Border Force relative	%		79
Force Constant	N/A _{pk} (lbf/A _{pk})		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	%		± 0.35
Electrical Data			
Max. Current @ 48VDC	A _{pk}		28.2
Max. Current @ 72VDC	A _{pk}		31.9
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7
Thermal Data			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500
Mechanical Data			
Slider Length	mm (in)		620 (24)
Slider Mass	g (lb)		2720 (5.98)



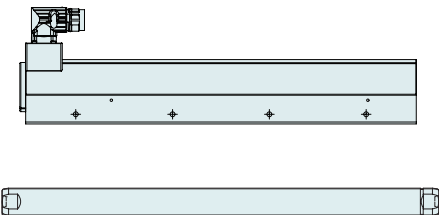
Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x620/570-HP	Slider 'High Performance'	0150-3823

P01-48x360F/300x450-HP-C-M01

Max. Stroke: 450 mm
Peak Force: 1020 N



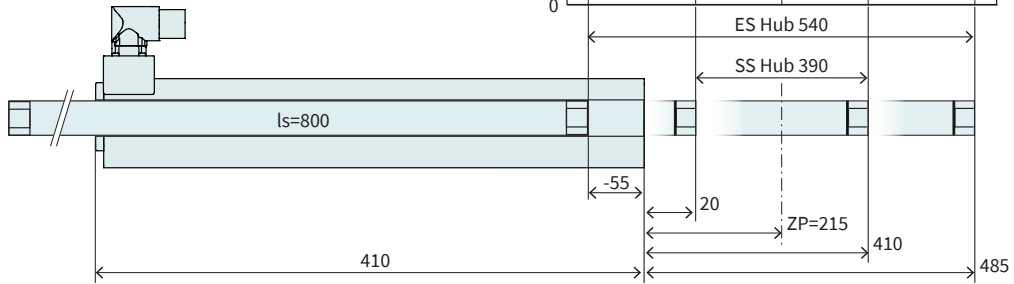
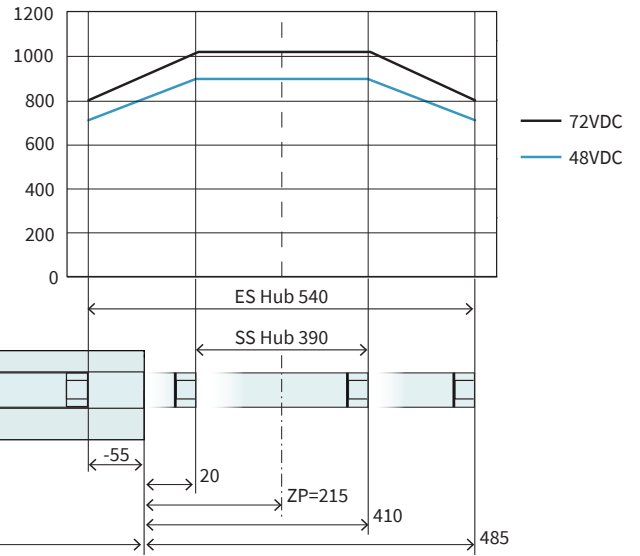
Technical Data P01-48x360F/300x450-HP-C-M01				
Stroke				
Standard Stroke (SS)	mm (in)		300 (11.81)	
Extended Stroke (ES)	mm (in)		450 (17.72)	
Force				
Max. Force @ 48VDC	N (lbf)		905 (204)	
Max. Force @ 72VDC	N (lbf)		1020 (230)	
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		192 / 224 / 374 (43 / 50 / 84)	
Max. Border Force relative	%		79	
Force Constant	N/A _{pk} (lbf/A _{pk})		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 _{pk}		28.2	
Max. Current @ 72VDC	A _{pk}		31.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm (in)		710 (28)	
Slider Mass	g (lb)		3140 (6.91)	



Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x710/660-HP	Slider 'High Performance'	0150-3824

P01-48x360F/390x540-HP-C-M01

Max. Stroke: 540 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/390x540-HP-C-M01

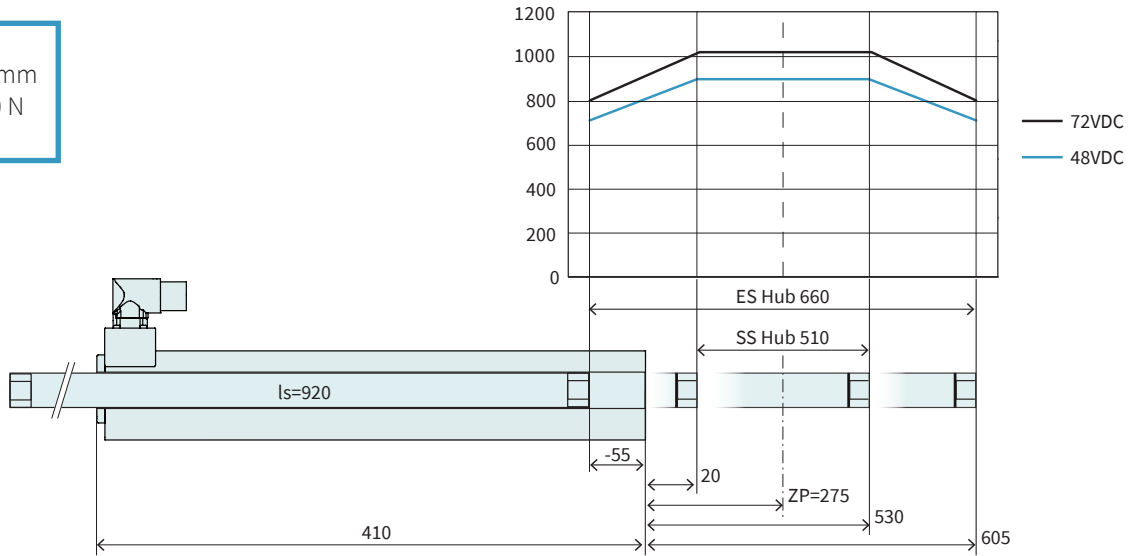
Stroke			
Standard Stroke (SS)	mm (in)		390 (15.35)
Extended Stroke (ES)	mm (in)		540 (21.26)
Force			
Max. Force @ 48VDC	N (lbf)		905 (204)
Max. Force @ 72VDC	N (lbf)		1020 (230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		192 / 224 / 374 (43 / 50 / 84)
Max. Border Force relative	%		79
Force Constant	N/A _{pk} (lbf/A _{pk})		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	%		± 0.25
Electrical Data			
Max. Current @ 48VDC	A _{pk}		28.2
Max. Current @ 72VDC	A _{pk}		31.9
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7
Thermal Data			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500
Mechanical Data			
Slider Length	mm (in)		800 (31)
Slider Mass	g (lb)		3560 (7.83)



Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x800/750-HP	Slider 'High Performance'	0150-3825

P01-48x360F/510x660-HP-C-M01

Max. Stroke: 660 mm
Peak Force: 1020 N



Technical Data P01-48x360F/510x660-HP-C-M01			
Stroke			
Standard Stroke (SS)	mm (in)	510	(20.08)
Extended Stroke (ES)	mm (in)	660	(25.98)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)	192 / 224 / 374	(43 / 50 / 84)
Max. Border Force relative	%	79	
Force Constant	N/A _{pk} (lbf/A _{pk})	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 _{pk}	28.2	
Max. Current @ 72VDC	A _{pk}	31.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}	6.0 / 7.0 / 11.7	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W	1.14 / 0.84 / 0.3	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s	2000 / 1800 / 500	
Mechanical Data			
Slider Length	mm (in)	920	(36)
Slider Mass	g (lb)	4120	(9.06)

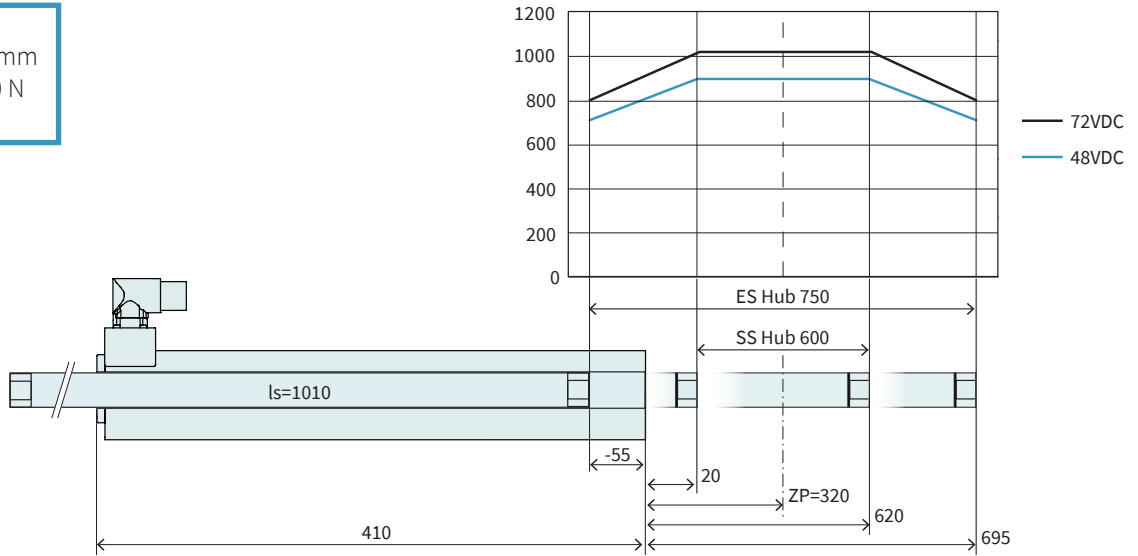


Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	Q150-4802

PL01-28x920/870-HP	Slider 'High Performance'	Q150-3878
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P01-48x360F/600x750-HP-C-M01

Max. Stroke: 750 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/600x750-HP-C-M01

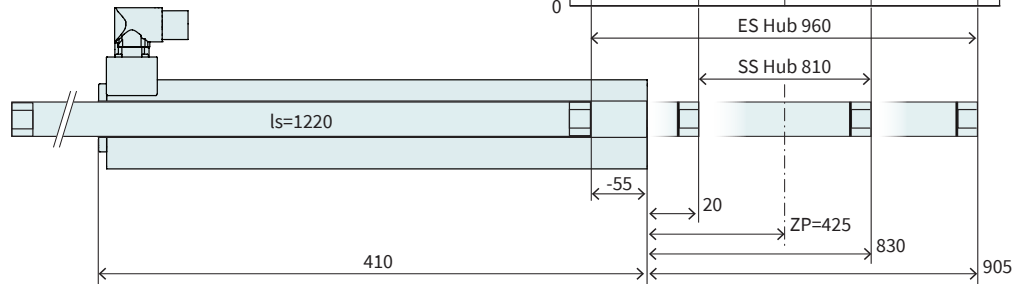
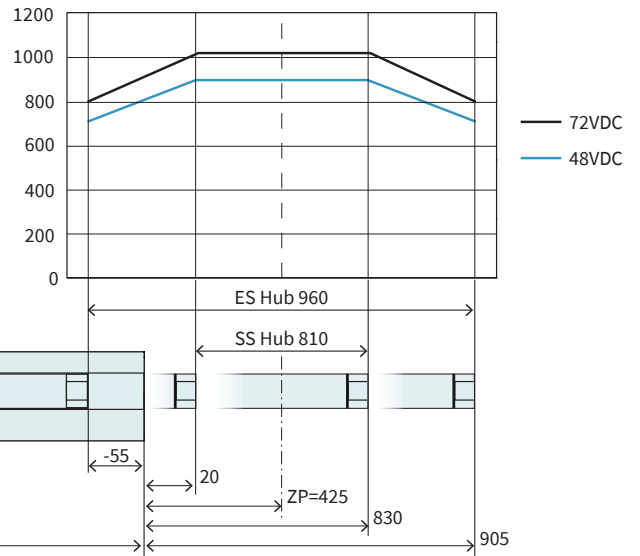
Stroke			
Standard Stroke (SS)	mm (in)		600 (23.62)
Extended Stroke (ES)	mm (in)		750 (29.53)
Force			
Max. Force @ 48VDC	N (lbf)		905 (204)
Max. Force @ 72VDC	N (lbf)		1020 (230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		192 / 224 / 374 (43 / 50 / 84)
Max. Border Force relative	%		79
Force Constant	N/A _{pk} (lbf/A _{pk})		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 _{pk}		28.2
Max. Current @ 72VDC	A _{pk}		31.9
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7
Thermal Data			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500
Mechanical Data			
Slider Length	mm (in)		1010 (40)
Slider Mass	g (lb)		4540 (10)



Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x1010/960-HP	Slider 'High Performance'	0150-3827

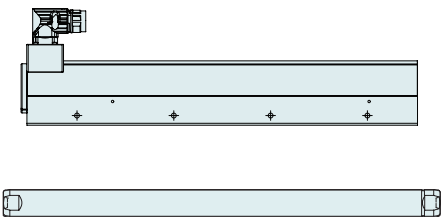
P01-48x360F/810x960-HP-C-M01

Max. Stroke: 960 mm
Peak Force: 1020 N



Dimensions in mm

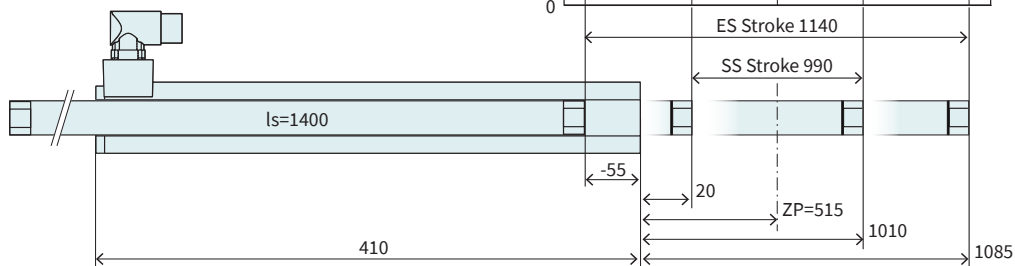
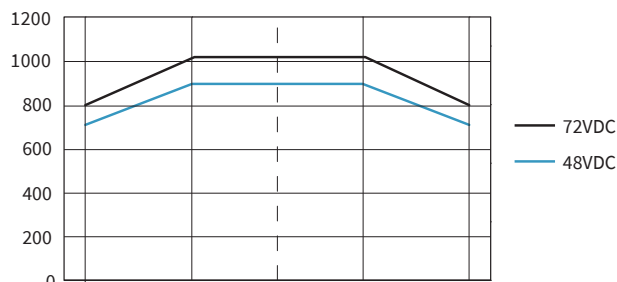
Technical Data P01-48x360F/810x960-HP-C-M01				
Stroke				
Standard Stroke (SS)	mm (in)		810	(31.89)
Extended Stroke (ES)	mm (in)		960	(37.8)
Force				
Max. Force @ 48VDC	N (lbf)		905	(204)
Max. Force @ 72VDC	N (lbf)		1020	(230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		192 / 224 / 374	(43 / 50 / 84)
Max. Border Force relative	%		79	
Force Constant	N/A _{pk} (lbf/A _{pk})		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 _{pk}		28.2	
Max. Current @ 72VDC	A _{pk}		31.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm (in)		1220	(48)
Slider Mass	g (lb)		5510	(12.12)



Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x1220/1170-HP	Slider 'High Performance'	0150-3828

P01-48x360F/990x1140-HP-C-M01

Max. Stroke: 1140 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/990x1140-HP-C-M01

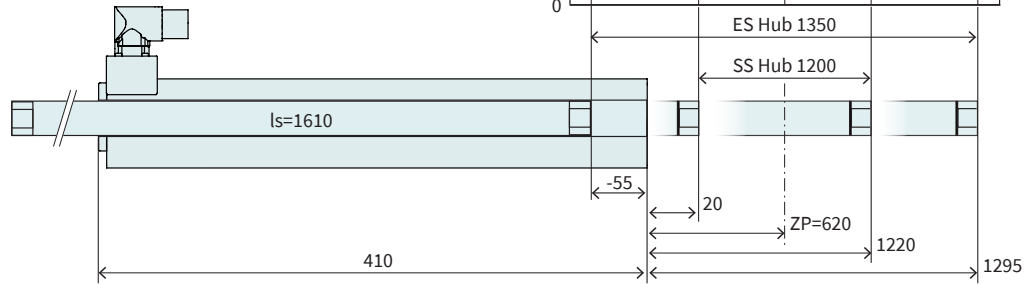
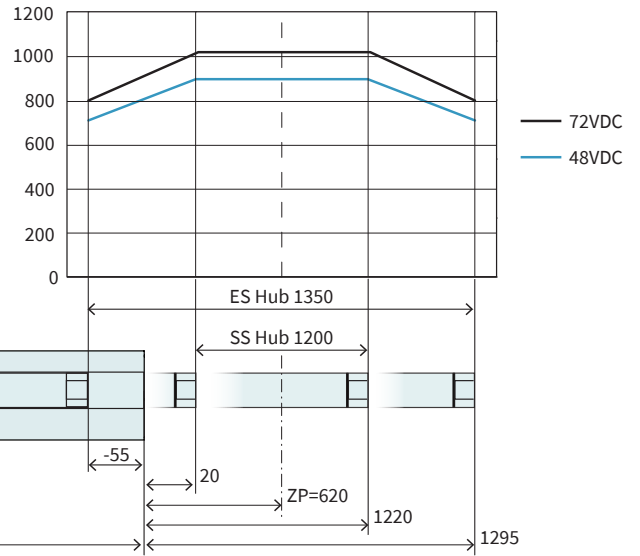
Stroke				
Standard Stroke (SS)	mm (in)		990 (38.98)	
Extended Stroke (ES)	mm (in)		1140 (44.88)	
Force				
Max. Force @ 48VDC	N (lbf)		905 (204)	
Max. Force @ 72VDC	N (lbf)		1020 (230)	
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		192 / 224 / 374 (43 / 50 / 84)	
Max. Border Force relative	%		79	
Force Constant	N/A _{pk} (lbf/A _{pk})		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 _{pk}		28.2	
Max. Current @ 72VDC	A _{pk}		31.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	*K/W		1.14 / 0.84 / 0.3	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm (in)		1400 (55)	
Slider Mass	g (lb)		6350 (13.97)	



Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x1400/1350-HP	Slider 'High Performance'	0150-3829

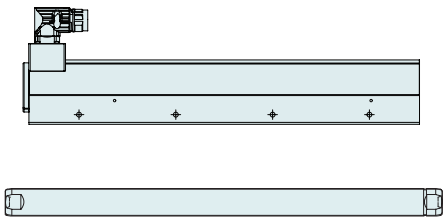
P01-48x360F/1200x1350-HP-C-M01

Max. Stroke: 1350 mm
Peak Force: 1020 N



Dimensions in mm

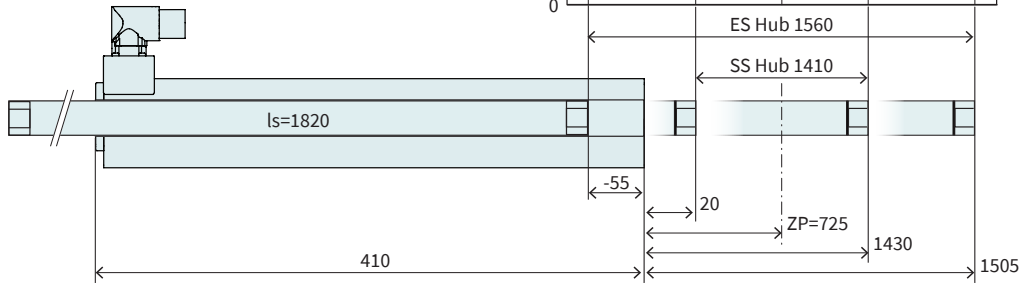
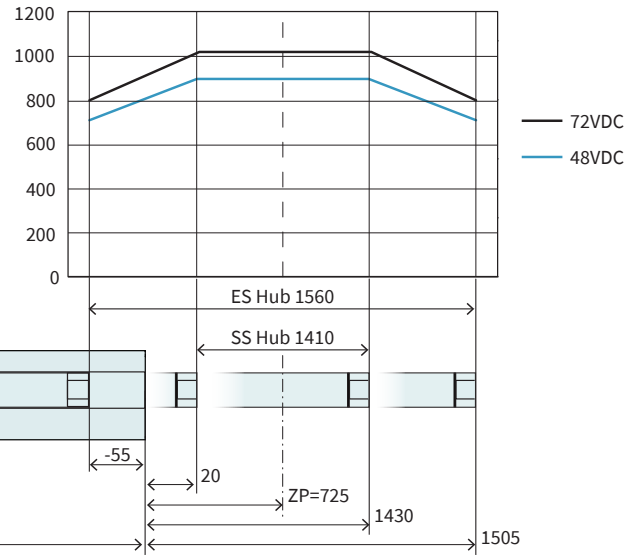
Technical Data P01-48x360F/1200x1350-HP-C-M01				
Stroke				
Standard Stroke (SS)	mm (in)		1200	(47.24)
Extended Stroke (ES)	mm (in)		1350	(53.15)
Force				
Max. Force @ 48VDC	N (lbf)		905	(204)
Max. Force @ 72VDC	N (lbf)		1020	(230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		192 / 224 / 374	(43 / 50 / 84)
Max. Border Force relative	%		79	
Force Constant	N/A _{pk} (lbf/A _{pk})		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 _{pk}		28.2	
Max. Current @ 72VDC	A _{pk}		31.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm (in)		1610	(63)
Slider Mass	g (lb)		7330	(16.13)



Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x1610/1560-HP	Slider 'High Performance'	0150-3830

P01-48x360F/1410x1560-HP-C-M01

Max. Stroke: 1560 mm
Peak Force: 1020 N



Technical Data P01-48x360F/1410x1560-HP-C-M01

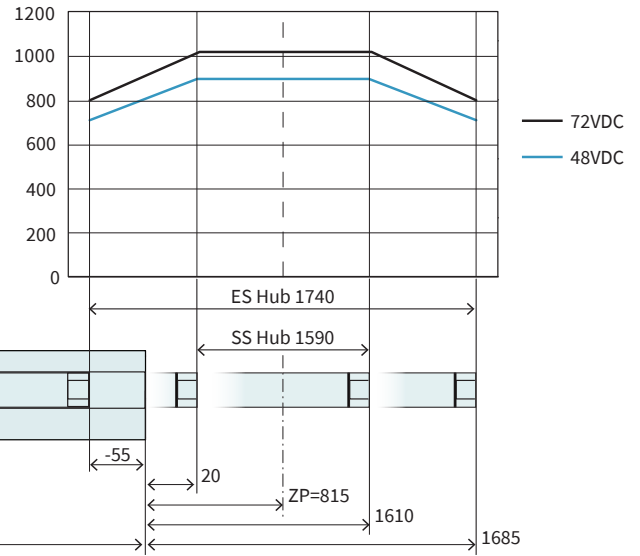
Stroke			
Standard Stroke (SS)	mm (in)		1410 (55.51)
Extended Stroke (ES)	mm (in)		1560 (61.42)
Force			
Max. Force @ 48VDC	N (lbf)		905 (204)
Max. Force @ 72VDC	N (lbf)		1020 (230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N (lbf)		192 / 224 / 374 (43 / 50 / 84)
Max. Border Force relative	%		79
Force Constant	N/A _{pk} (lbf/A _{pk})		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 _{pk}		28.2
Max. Current @ 72VDC	A _{pk}		31.9
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7
Thermal Data			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500
Mechanical Data			
Slider Length	mm (in)		1820 (72)
Slider Mass	g (lb)		8300 (18.26)



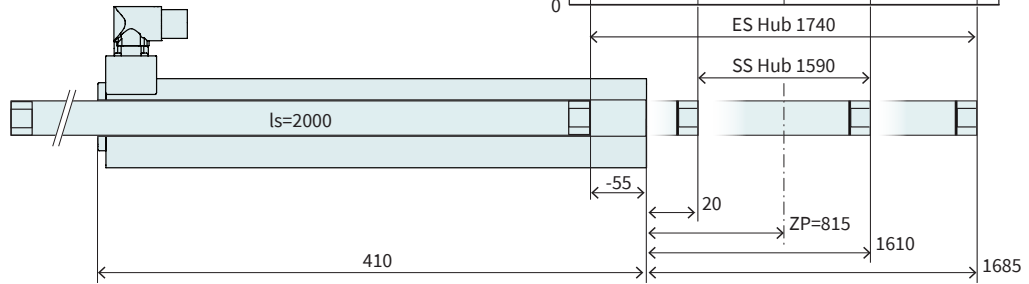
Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x1820/1770-HP	Slider 'High Performance'	On request

P01-48x360F/1590x1740-HP-C-M01

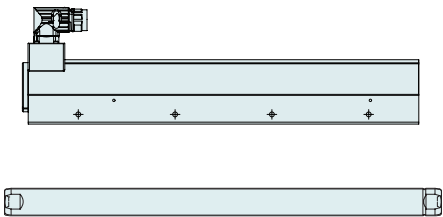
Max. Stroke: 1740 mm
Peak Force: 1020 N



Dimensions in mm



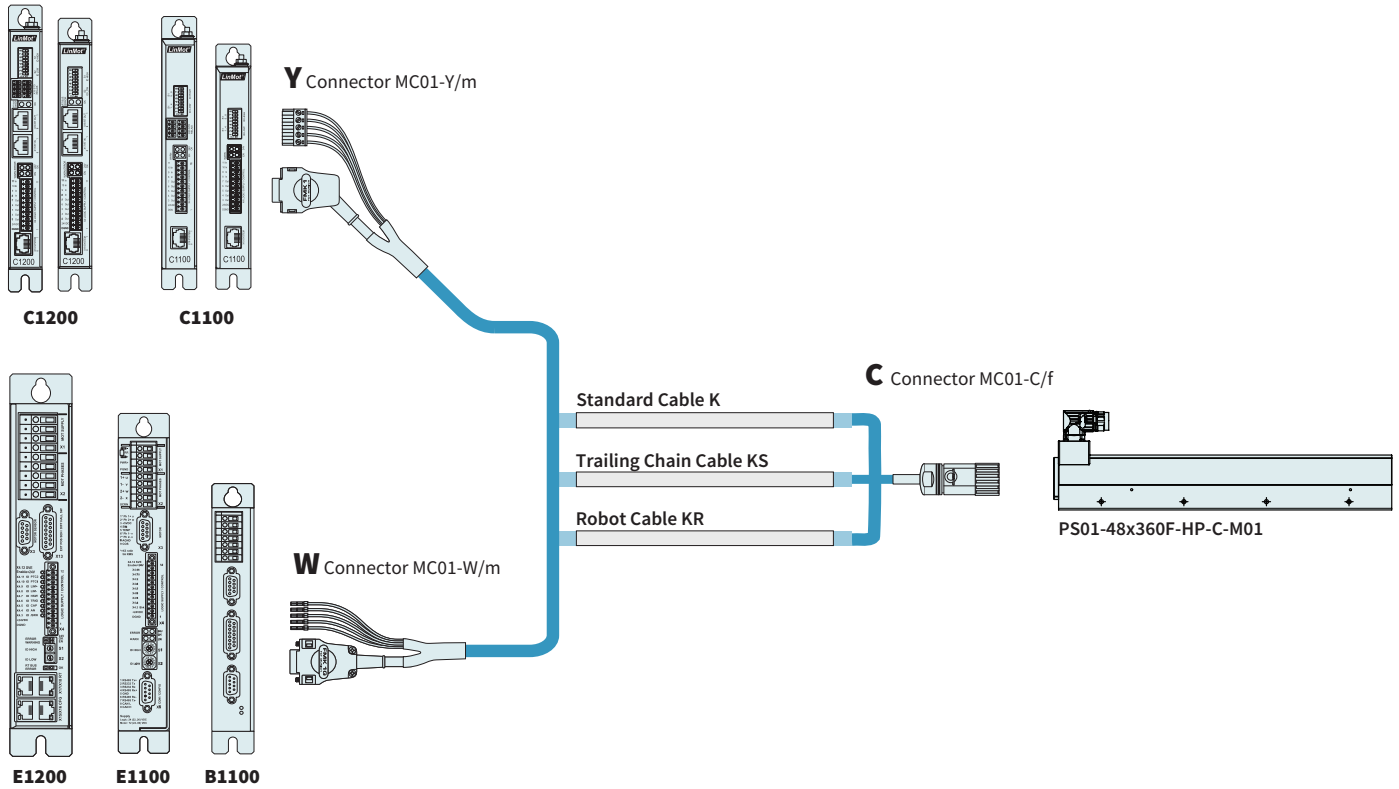
Technical Data P01-48x360F/1590x1740-HP-C-M01				
Stroke				
Standard Stroke (SS)	mm	(in)	1590	(62.6)
Extended Stroke (ES)	mm	(in)	1740	(68.5)
Force				
Max. Force @ 48VDC	N	(lbf)	905	(204)
Max. Force @ 72VDC	N	(lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Cooling flange / Fan]	N	(lbf)	192 / 224 / 374	(43 / 50 / 84)
Max. Border Force relative	%		79	
Force Constant	N/A _{pk}	(lbf/A _{pk})	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 _{pk}		28.2	
Max. Current @ 72VDC	A _{pk}		31.9	
Max. Cont. Current [Passive cooling / Cooling flange / Fan]	A _{pk}		6.0 / 7.0 / 11.7	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Cooling flange / Fan]	°K/W		1.14 / 0.84 / 0.3	
Thermal Time Constant [Passive cooling / Cooling flange / Fan]	s		2000 / 1800 / 500	
Mechanical Data				
Slider Length	mm	(in)	2000	(79)
Slider Mass	g	(lb)	9140	(20.11)



Item	Description	Item-No.
PS01-48x360F-HP-C-M01	Stator HP with IP67 Connector M23/9(m)	0150-4802
PL01-28x2000/1950-HP	Slider 'High Performance'	On request

Motor Cable

3



ORDERING INFORMATION

STANDARD CABLE		
Item	Description	Item-No.
K15-W/C-2	Motor Cable W/C, 2 m	0150-1811
K15-W/C-4	Motor Cable W/C, 4 m	0150-1801
K15-W/C-6	Motor Cable W/C, 6 m	0150-1802
K15-W/C-8	Motor Cable W/C, 8 m	0150-1803
K15-W/C-	Motor Cable W/C, Custom length	0150-3131
K15-Y/C-2	Motor Cable Y/R, 2 m	0150-2429
K15-Y/C-4	Motor Cable Y/R, 4 m	0150-2430
K15-Y/C-6	Motor Cable Y/R, 6 m	0150-2431
K15-Y/C-8	Motor Cable Y/R, 8 m	0150-2432
K15-Y-Fe/C-	Motor Cable Y-Fe/R, Custom length	0150-3506

TRAILING CHAIN CABLE

Item	Description	Item-No.
KS10-W/C-4	Trailing Chain Cable W/C, 4 m	0150-1807
KS10-W/C-6	Trailing Chain Cable W/C, 6 m	0150-1858
KS10-W/C-8	Trailing Chain Cable W/C, 8 m	0150-1808
KS10-W/C-	Trailing Chain Cable W/C, Custom length	0150-3139
KS10-Y/C-4	Trailing Chain Cable Y/C, 4 m	0150-2439
KS10-Y/C-6	Trailing Chain Cable Y/C, 6 m	0150-2440
KS10-Y/C-8	Trailing Chain Cable Y/C, 8 m	0150-2441
KS10-Y/C-	Trailing Chain Cable Y-Fe/C, Custom length	0150-3511

ROBOT CABLE

Item	Description	Item-No.
KR10-W/C-	Robot Cable KR10-W/C, Custom length	0150-3199
KR10-Y-Fe/C-	Robot Cable KR10-Y-Fe/C, Custom length	0150-3515

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	Motor Connector C/f	0150-3080
MC01-P/f	Motor Connector P/f	0150-3021
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

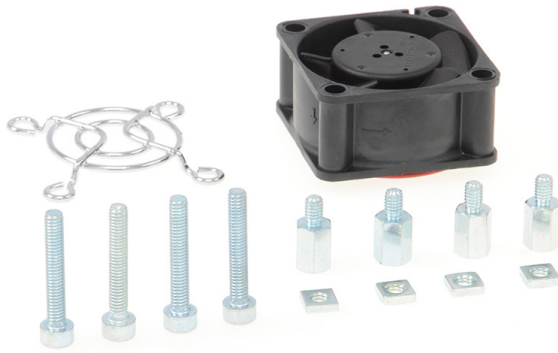
HEAT SINK



Item	Description	Item-No.
PC01-48x360-M01	Heat sink for PS01-48x360-M01 linear motor	0150-4786

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

FANS



Item	Description	Item-No.
HV01-23	Fan cooling for PS01-48x360-M01 linear motor	0150-5050

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

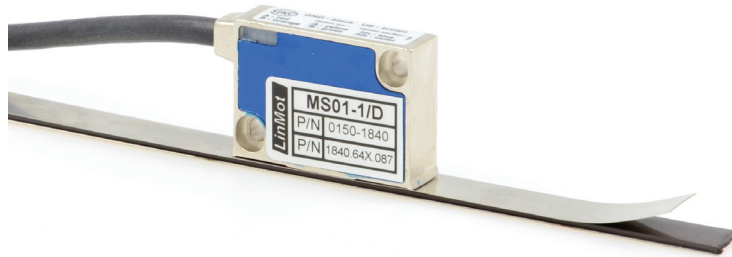
SLIDER MOUNTING



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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

EXTERNAL POSITION SENSORS



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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

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