

LINEAR MOTORS P01-48x360F



- ✓ Highly dynamic drives
- ✓ With a special F-winding for a higher maximum speed
- ✓ Wide stroke range
- ✓ Available with rotatable connector
- ✓ Optional with air cooling
- ✓ Wide range of applications in handling modules as well as in plant and machine construction

LINEAR MOTORS P01-48x360F

Technical Data **371**

Motor Specifications

P01-48x360F/60x210 **375**

P01-48x360F/180x330 **376**

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P01-48x360F/1170x1320 **383**

P01-48x360F/1380x1530 **384**

P01-48x360F/1560x1710 **385**

Linear Guides **386**

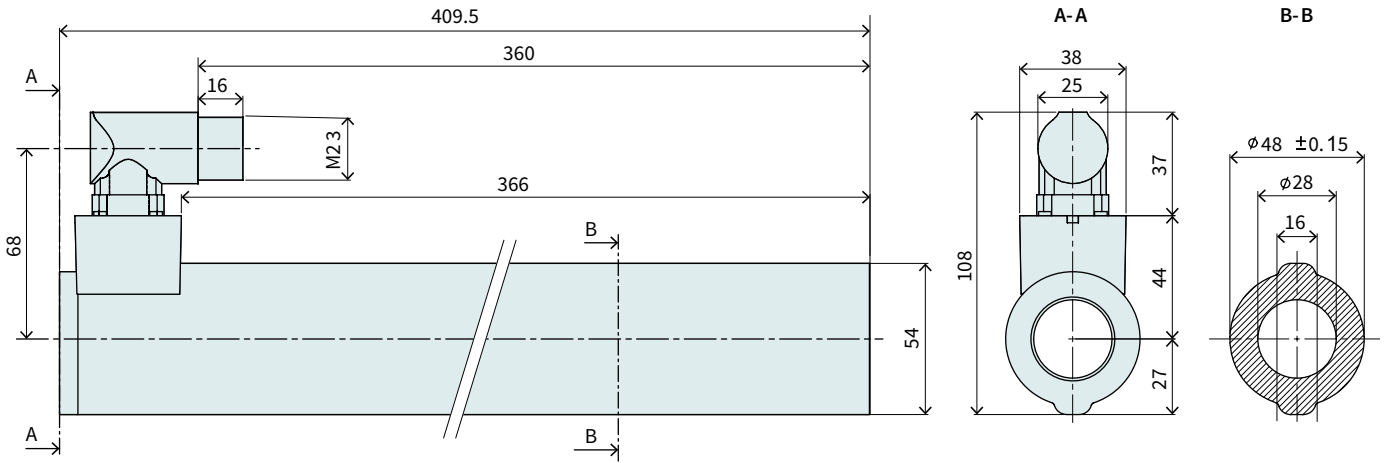
Accessories **387**



MOTOR FAMILY P01-48x360F

Technical Data				
Stroke				
Standard Stroke (SS)	mm	(in)	≤ 1560	(≤ 61.4)
Extended Stroke (ES)	mm	(in)	≤ 1710	(≤ 67.3)
Force				
Max. Force @ 48VDC	N	(lbf)	905	(204)
Max. Force @ 72VDC	N	(lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	200 / 340 / -	(45 / 77 / -)
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 / Fan / Fluid]	A _{pk}		6.2 / 11 / -	
Terminal Resistance 25 °C / 120 °C	Ohm		1.4 / 1.9	
Terminal Inductivity	mH		1.6	
Magnetic Period	mm	(in)	60	(2.35)
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				
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	

STATOR

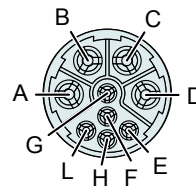


Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269

CONNECTOR

Motor Connector Wiring	PS01-37x240-C PS01-37x240-C20	Wire color motor cable
	C-Connector	
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

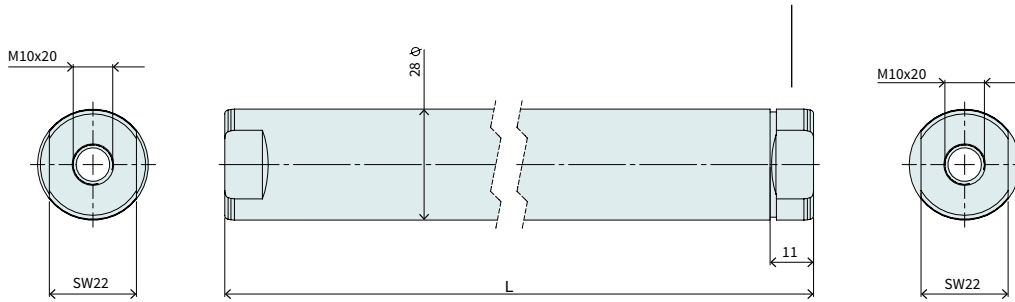


View: Motor Connector, plug side

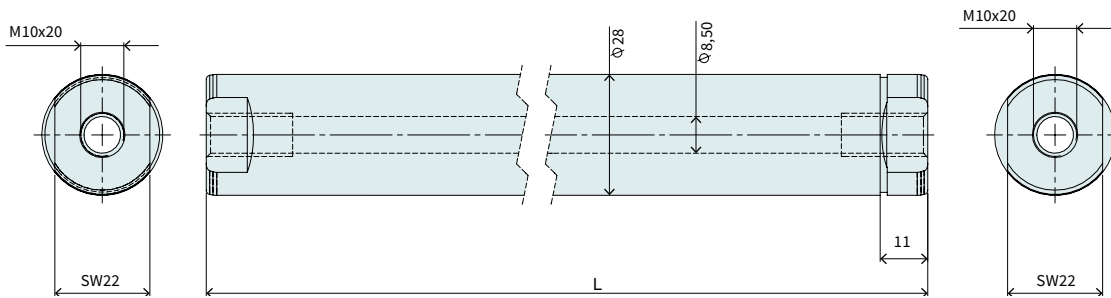
SLIDER

Slider Standard / Heavy Duty

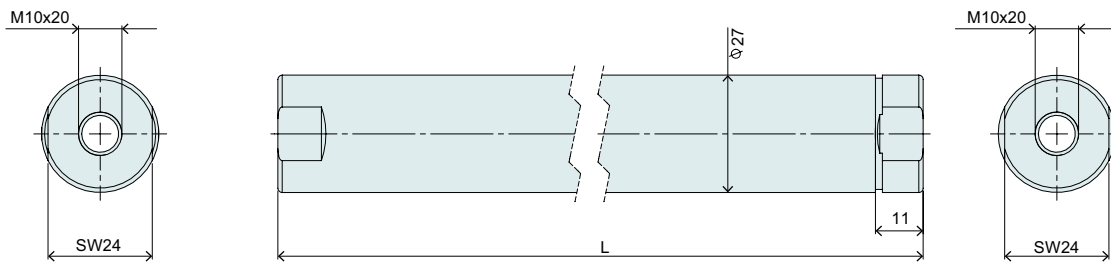
Number of grooves determines the slider type (see chapter 2 / slider) and marks the front end.



Hollow slider



High-Clearance Slider



Slider Standard				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-28x500/420	Slider 'standard'	330	180	0150-1382
PL01-28x620/540	Slider 'standard'	450	300	0150-1383
PL01-28x710/630	Slider 'standard'	540	390	0150-1384
PL01-28x800/720	Slider 'standard'	630	480	0150-1385
PL01-28x920/840	Slider 'standard'	750	600	0150-1386
PL01-28x1010/930	Slider 'standard'	840	690	0150-1387
PL01-28x1220/1140	Slider 'standard'	1050	900	0150-1388
PL01-28x1400/1320	Slider 'standard'	1230	1080	0150-1389
PL01-28x1610/1530	Slider 'standard'	1440	1290	0150-1390
PL01-28x1820/1740	Slider 'standard'	1650	1500	0150-1395
PL01-28x2000/1920	Slider 'standard'	1830	1680	0150-1396

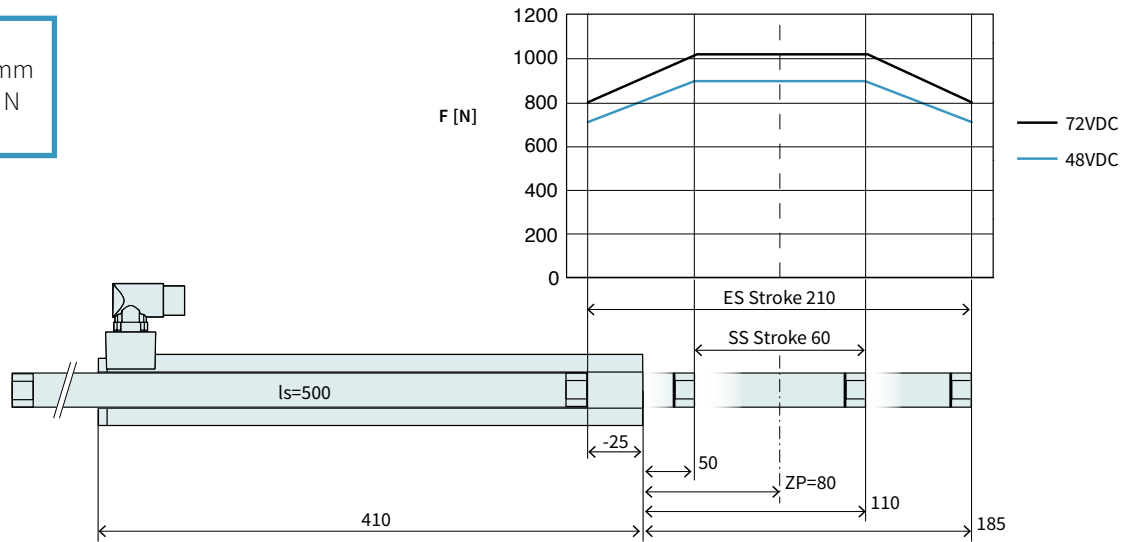
Slider Heavy Duty				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL02-28x500/420	Slider 'heavy duty'	330	180	0150-1413
PL02-28x620/540	Slider 'heavy duty'	450	300	0150-1414
PL02-28x710/630	Slider 'heavy duty'	540	390	0150-1415
PL02-28x800/720	Slider 'heavy duty'	630	480	0150-1416
PL02-28x920/840	Slider 'heavy duty'	750	600	0150-1417

Hollow slider				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-28x500/420-L	Slider 'standard L'	330	180	0150-1480
PL01-28x620/540-L	Slider 'standard L'	450	300	0150-1481
PL01-28x710/630-L	Slider 'standard L'	540	390	0150-1482
PL01-28x800/720-L	Slider 'standard L'	630	480	0150-1483
PL01-28x920/840-L	Slider 'standard L'	750	600	0150-1484

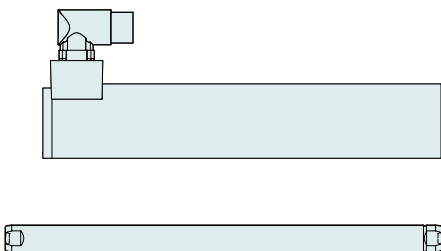
High-Clearance Slider				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-27x500/420	Slider 'high clearance'	330	180	0150-1469
PL01-27x620/540	Slider 'high clearance'	450	300	0150-1470
PL01-27x710/630	Slider 'high clearance'	540	390	0150-1471

P01-48x360F/60x210

Max. Stroke: 210 mm
Peak Force: 1020 N



Technical Data P01-48x360F/60x210			
Stroke			
Standard Stroke (SS)	mm (in)	60	(2.35)
Extended Stroke (ES)	mm (in)	210	(8.26)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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)	500	(20)
Slider Mass	g (lb)	2160	(4.75)



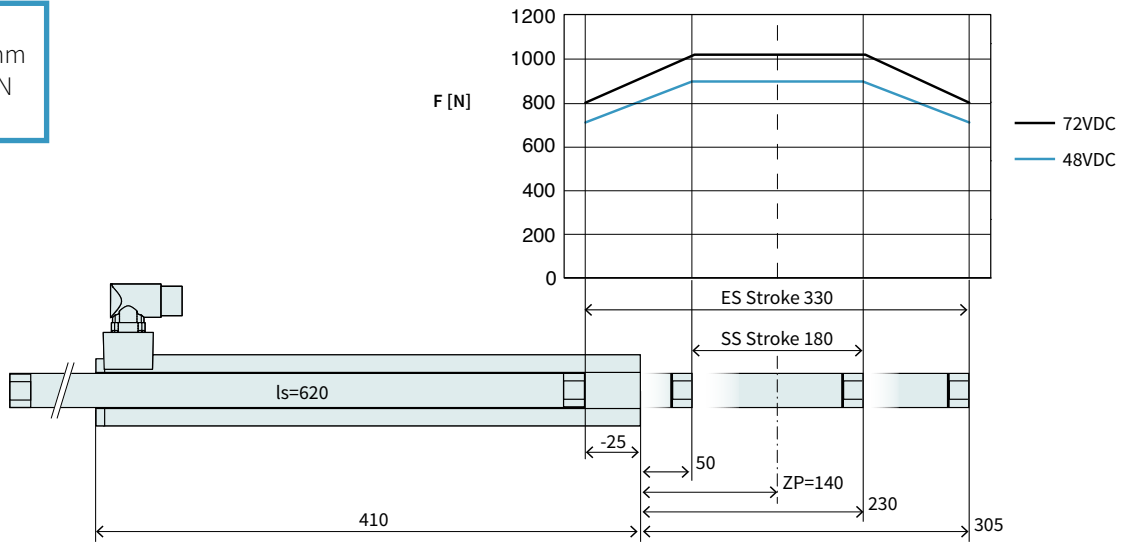
Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x500/420	Slider 'standard'	0150-1382
PL02-28x500/420	Slider 'heavy duty'	0150-1413
PL01-28x500/420-L*	Slider 'standard L'	0150-1480
PL01-27x500/420*	Slider 'high clearance'	0150-1469

* With this slider, the motor specifications above change.

P01-48x360F/180x330

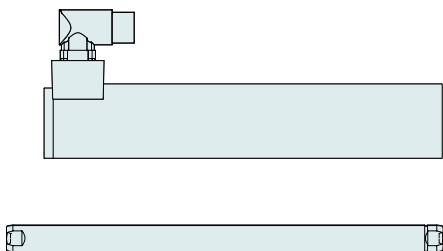
Max. Stroke: 330 mm
Peak Force: 1020 N

Dimensions in mm



Technical Data P01-48x360F/180x330

Stroke			
Standard Stroke (SS)	mm (in)	180	(7.08)
Extended Stroke (ES)	mm (in)	330	(12.99)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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)	620	(24)
Slider Mass	g (lb)	2720	(5.98)

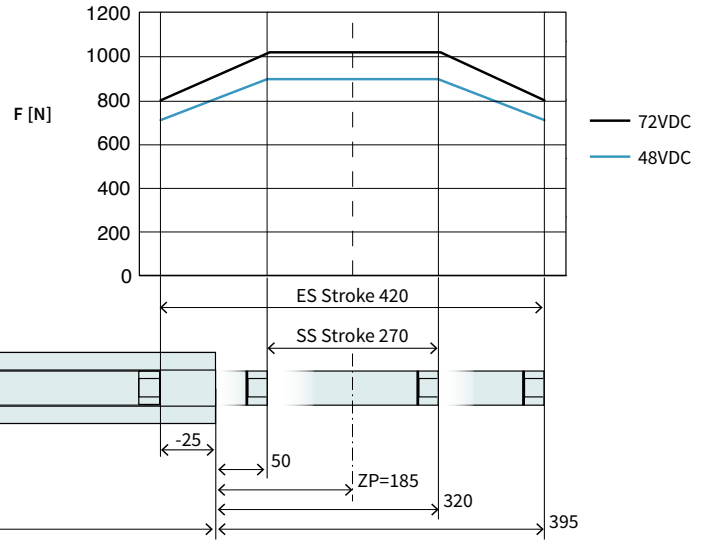


Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x620/540	Slider 'standard'	0150-1383
PL02-28x620/540	Slider 'heavy duty'	0150-1414
PL01-28x620/540-L*	Slider 'standard L'	0150-1481
PL01-27x620/540*	Slider 'high clearance'	0150-1470

* With this slider, the motor specifications above change.

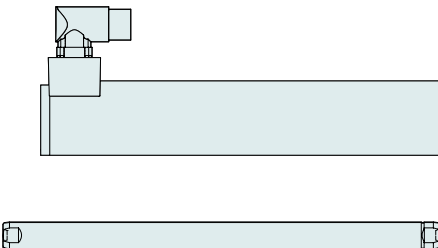
P01-48x360F/270x420

Max. Stroke: 420 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/270x420			
Stroke			
Standard Stroke (SS)	mm (in)	270	(10.59)
Extended Stroke (ES)	mm (in)	420	(16.49)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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)



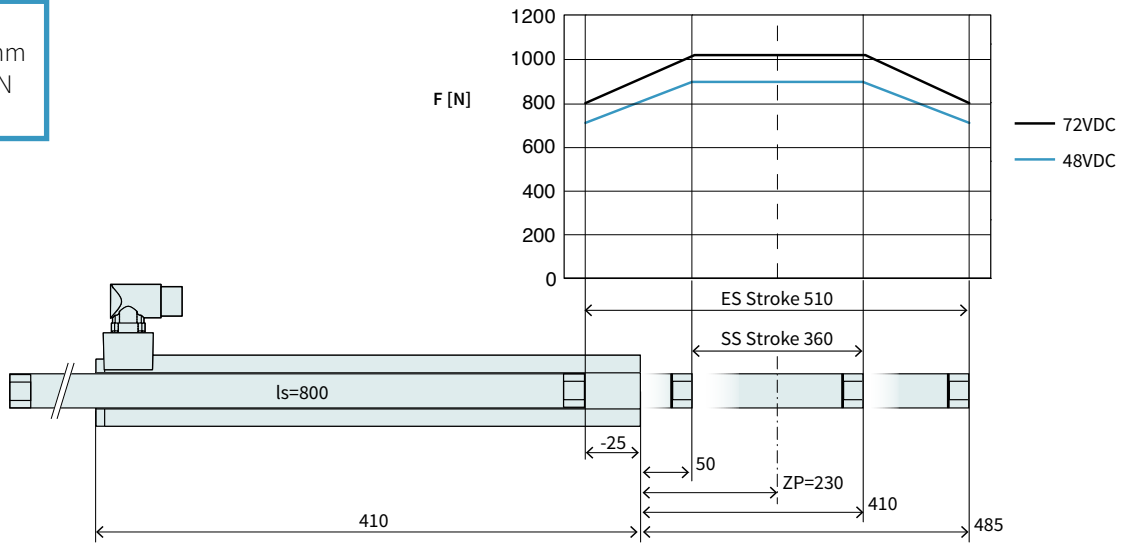
Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x710/630	Slider 'standard'	0150-1384
PL02-28x710/630	Slider 'heavy duty'	0150-1415
PL01-28x710/630-L*	Slider 'standard L'	0150-1482
PL01-27x710/630*	Slider 'high clearance'	0150-1471

* With this slider, the motor specifications above change.

P01-48x360F/360x510

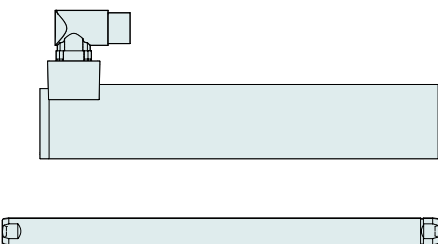
Max. Stroke: 510 mm
Peak Force: 1020 N

Dimensions in mm



Technical Data P01-48x360F/360x510

Technical Data P01-48x360F/360x510			
Stroke			
Standard Stroke (SS)	mm (in)		360 (14.19)
Extended Stroke (ES)	mm (in)		510 (20.1)
Force			
Max. Force @ 48VDC	N (lbf)		905 (204)
Max. Force @ 72VDC	N (lbf)		1020 (230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		200 / 340 / - (45 / 77 / -)
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 / Fan / Fluid]	A _{pk}		6.2 / 11 / -
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)		800 (31)
Slider Mass	g (lb)		3560 (7.83)

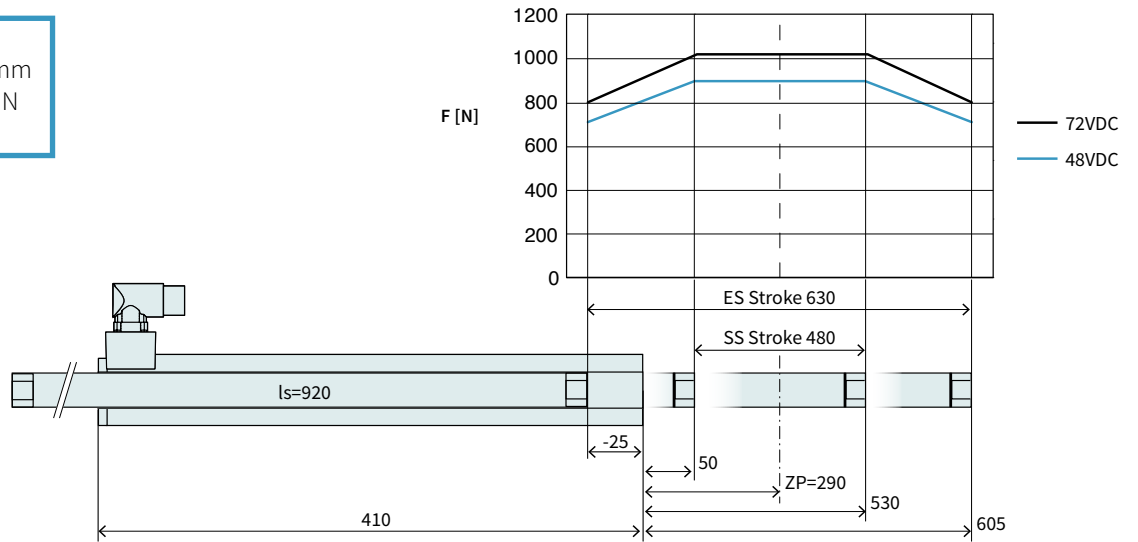


Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x800/720	Slider 'standard'	0150-1385
PL02-28x800/720	Slider 'heavy duty'	0150-1416
PL01-28x800/720-L*	Slider 'standard L'	0150-1483

* With this slider, the motor specifications above change.

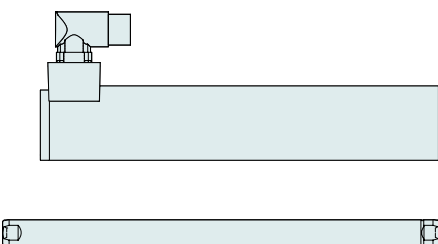
P01-48x360F/480x630

Max. Stroke: 630 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/480x630			
Stroke			
Standard Stroke (SS)	mm (in)	480	(18.89)
Extended Stroke (ES)	mm (in)	630	(24.8)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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)	920	(36)
Slider Mass	g (lb)	4120	(9.06)



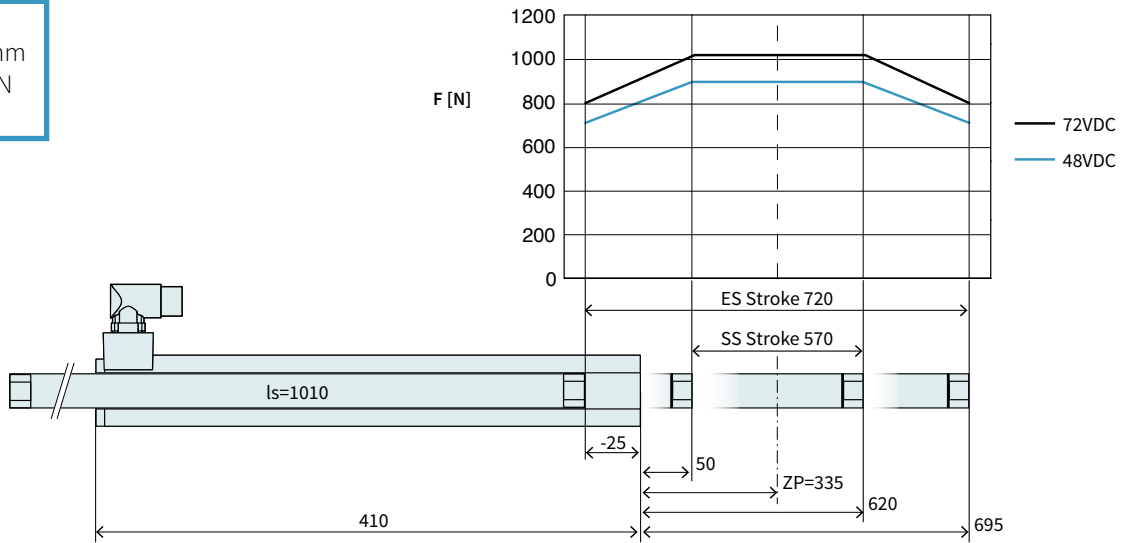
Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x920/840	Slider 'standard'	0150-1386
PL02-28x920/840	Slider 'heavy duty'	0150-1417
PL01-28x920/840-L*	Slider 'standard L'	0150-1484

* With this slider, the motor specifications above change.

P01-48x360F/570x720

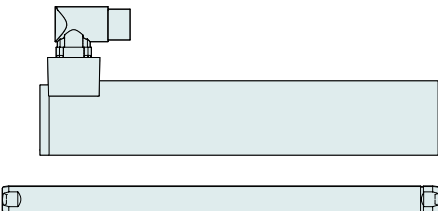
Max. Stroke: 720 mm
Peak Force: 1020 N

Dimensions in mm



Technical Data P01-48x360F/570x720

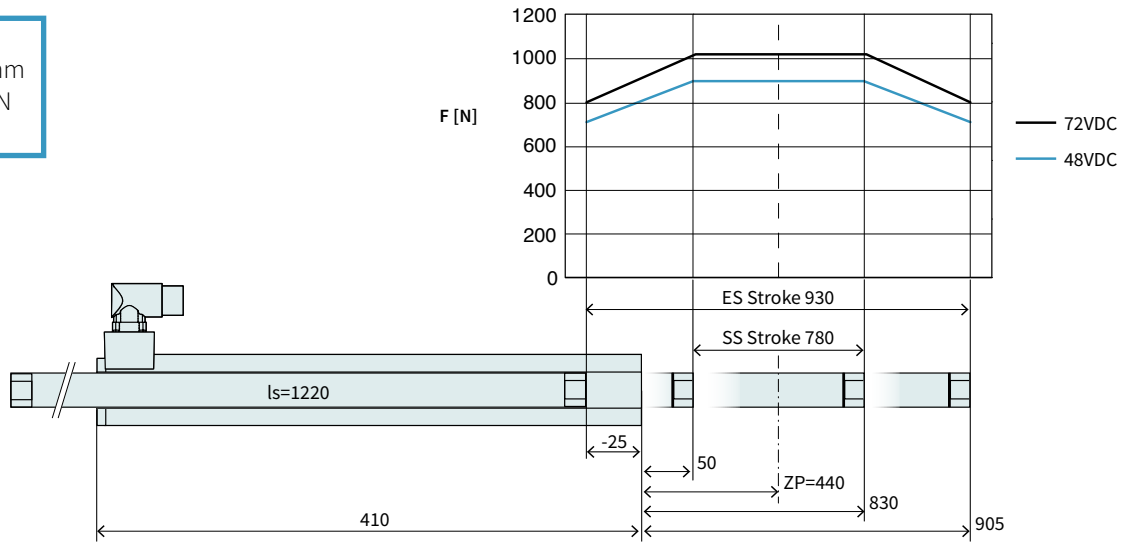
Technical Data P01-48x360F/570x720			
Stroke			
Standard Stroke (SS)	mm (in)	570	(22.39)
Extended Stroke (ES)	mm (in)	720	(28.3)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
Max. 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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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)	1010	(40)
Slider Mass	g (lb)	4540	(10)



Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x1010/930	Slider 'standard'	0150-1387

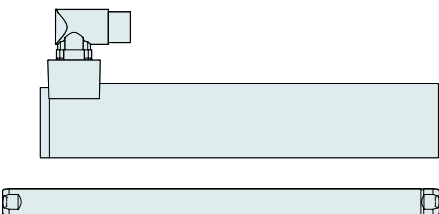
P01-48x360F/780x930

Max. Stroke: 930 mm
Peak Force: 1020 N



Dimensions in mm

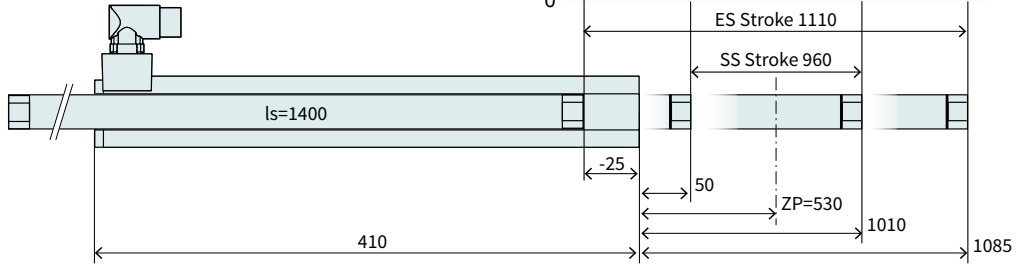
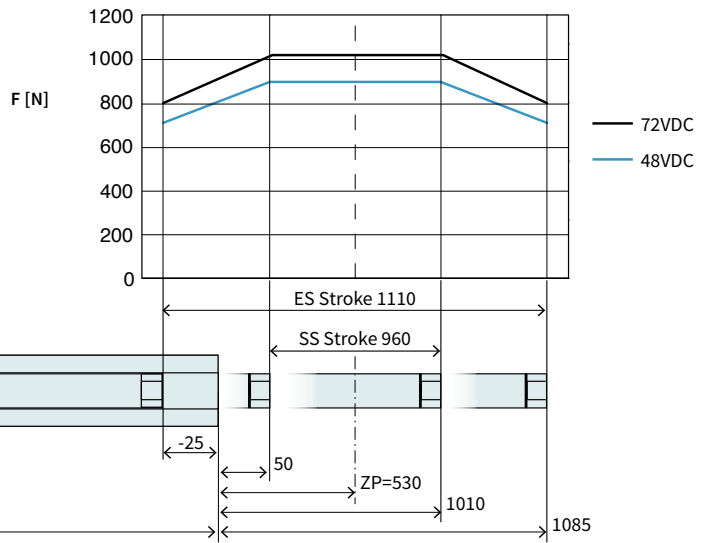
Technical Data P01-48x360F/780x930			
Stroke			
Standard Stroke (SS)	mm (in)	780 (30.69)	
Extended Stroke (ES)	mm (in)	930 (36.6)	
Force			
Max. Force @ 48VDC	N (lbf)	905 (204)	
Max. Force @ 72VDC	N (lbf)	1020 (230)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x1220/1140	Slider 'standard'	0150-1388

P01-48x360F/960x1110

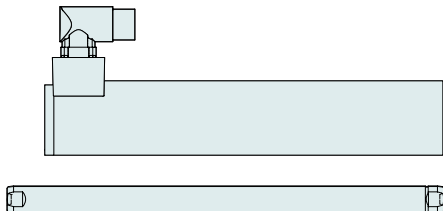
Max. Stroke: 1110 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/960x1110

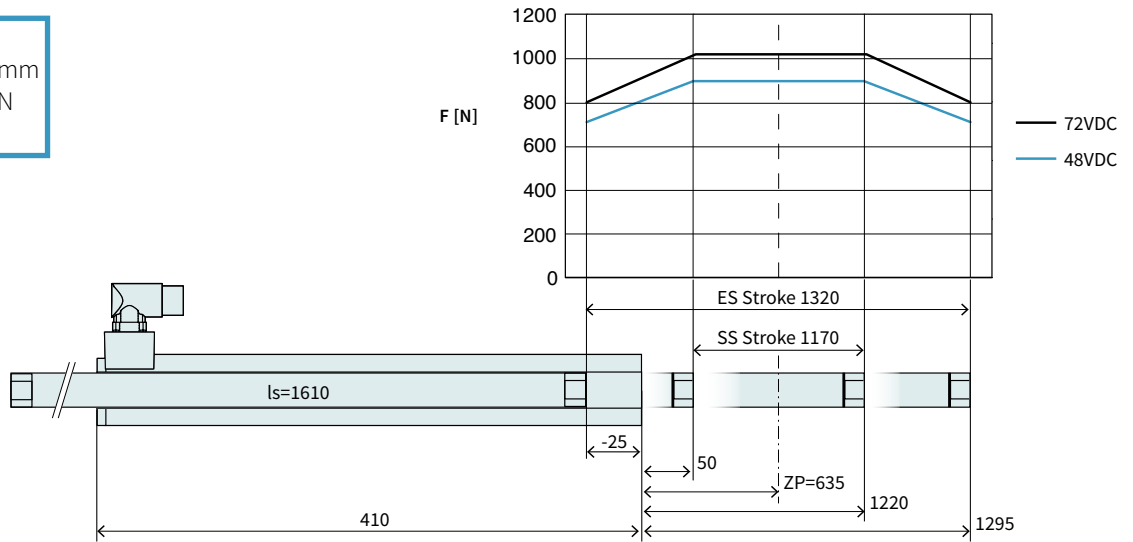
Stroke			
Standard Stroke (SS)	mm (in)	960	(37.79)
Extended Stroke (ES)	mm (in)	1110	(43.7)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
Max. Border Force relative	%	79	
Force Constant	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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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)	1400	(55)
Slider Mass	g (lb)	6350	(13.97)



Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x1400/1320	Slider 'standard'	0150-1389

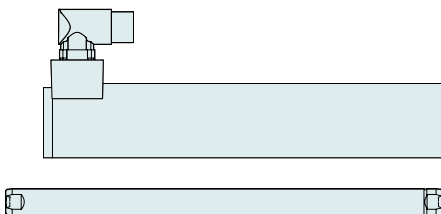
P01-48x360F/1170x1320

Max. Stroke: 1320 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/1170x1320				
Stroke				
Standard Stroke (SS)	mm (in)		1170 (46.1)	
Extended Stroke (ES)	mm (in)		1320 (51.99)	
Force				
Max. Force @ 48VDC	N (lbf)		905 (204)	
Max. Force @ 72VDC	N (lbf)		1020 (230)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		200 / 340 / -	(45 / 77 / -)
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 / Fan / Fluid]	A _{pk}		6.2 / 11 / -	
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)	

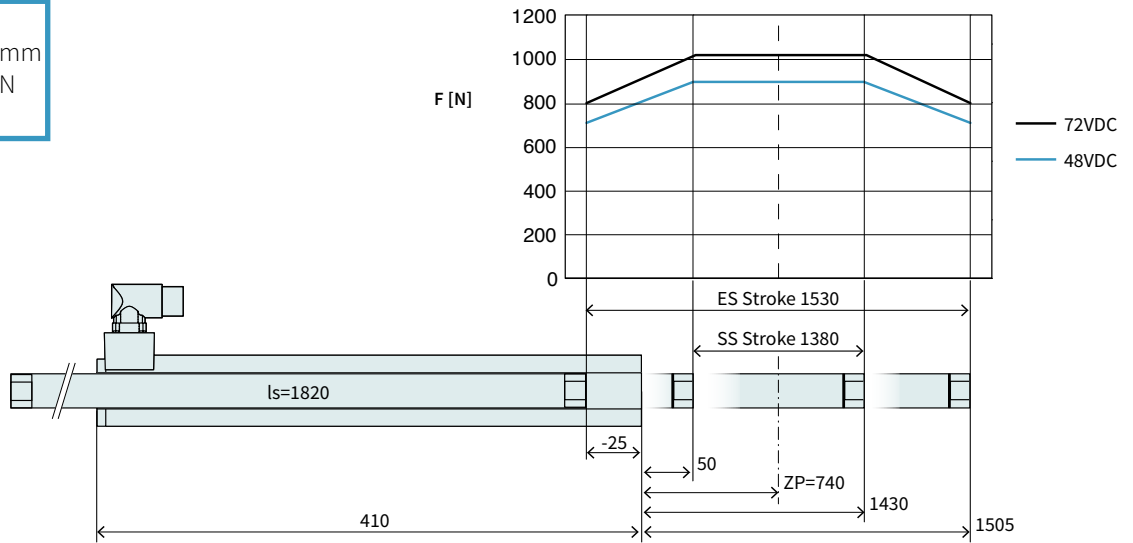


Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x1610/1530	Slider 'standard'	0150-1390

P01-48x360F/1380x1530

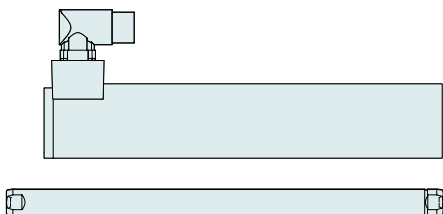
Max. Stroke: 1530 mm
Peak Force: 1020 N

Dimensions in mm



Technical Data P01-48x360F/1380x1530

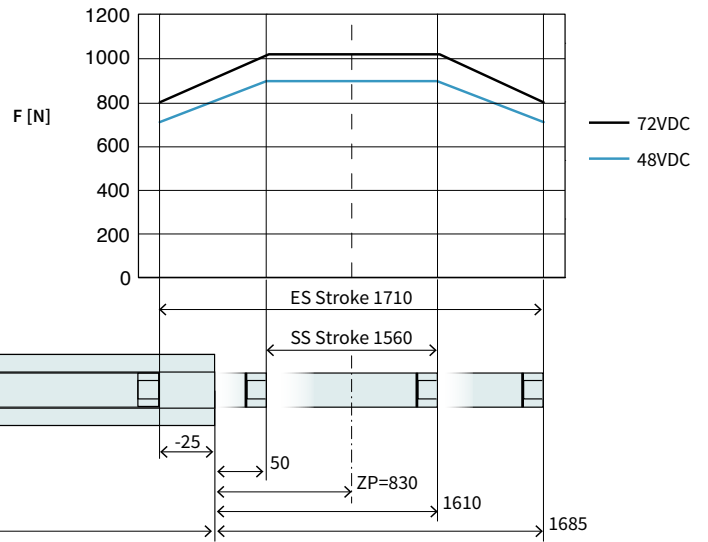
Stroke			
Standard Stroke (SS)	mm (in)	1380	(54.29)
Extended Stroke (ES)	mm (in)	1530	(60.2)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
Max. Border Force relative	%	79	
Force 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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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)	1820	(72)
Slider Mass	g (lb)	8300	(18.26)



Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x1820/1740	Slider 'standard'	0150-1395

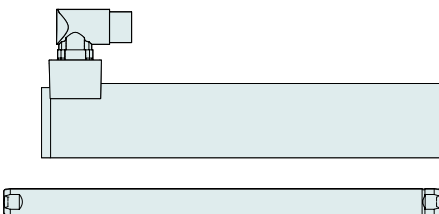
P01-48x360F/1560x1710

Max. Stroke: 1710 mm
Peak Force: 1020 N



Dimensions in mm

Technical Data P01-48x360F/1560x1710			
Stroke			
Standard Stroke (SS)	mm (in)	1560	(61.39)
Extended Stroke (ES)	mm (in)	1710	(67.29)
Force			
Max. Force @ 48VDC	N (lbf)	905	(204)
Max. Force @ 72VDC	N (lbf)	1020	(230)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	200 / 340 / -	(45 / 77 / -)
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 / Fan / Fluid]	A _{pk}	6.2 / 11 / -	
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)	2000	(79)
Slider Mass	g (lb)	9140	(20.11)



Item	Description	Item-No.
PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
PL01-28x2000/1920	Slider 'standard'	0150-1396

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	0150-5240
		H01-48x370/90-GF	H-Guide for P01-48x360, Stroke max 90 mm	0150-5243
→	Stator	PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
→	Slider	PL01-28x500/420	Slider Standard	0150-1382

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

→	H-Guide	H01-48x370/210	H-Guide for P01-48x360, Stroke max 210 mm	0150-5241
		H01-48x370/210-GF	H-Guide for P01-48x360, Stroke max 210 mm	0150-5244
→	Stator	PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
→	Slider	PL01-28x620/540	Slider Standard	0150-1383

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

→	H-Guide	H01-48x370/300	H-Guide for P01-48x360, Stroke max 300 mm	0150-5242
		H01-48x370/300-GF	H-Guide for P01-48x360, Stroke max 300 mm	0150-5245
→	Stator	PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
→	Slider	PL01-28x710/630	Slider Standard	0150-1383

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

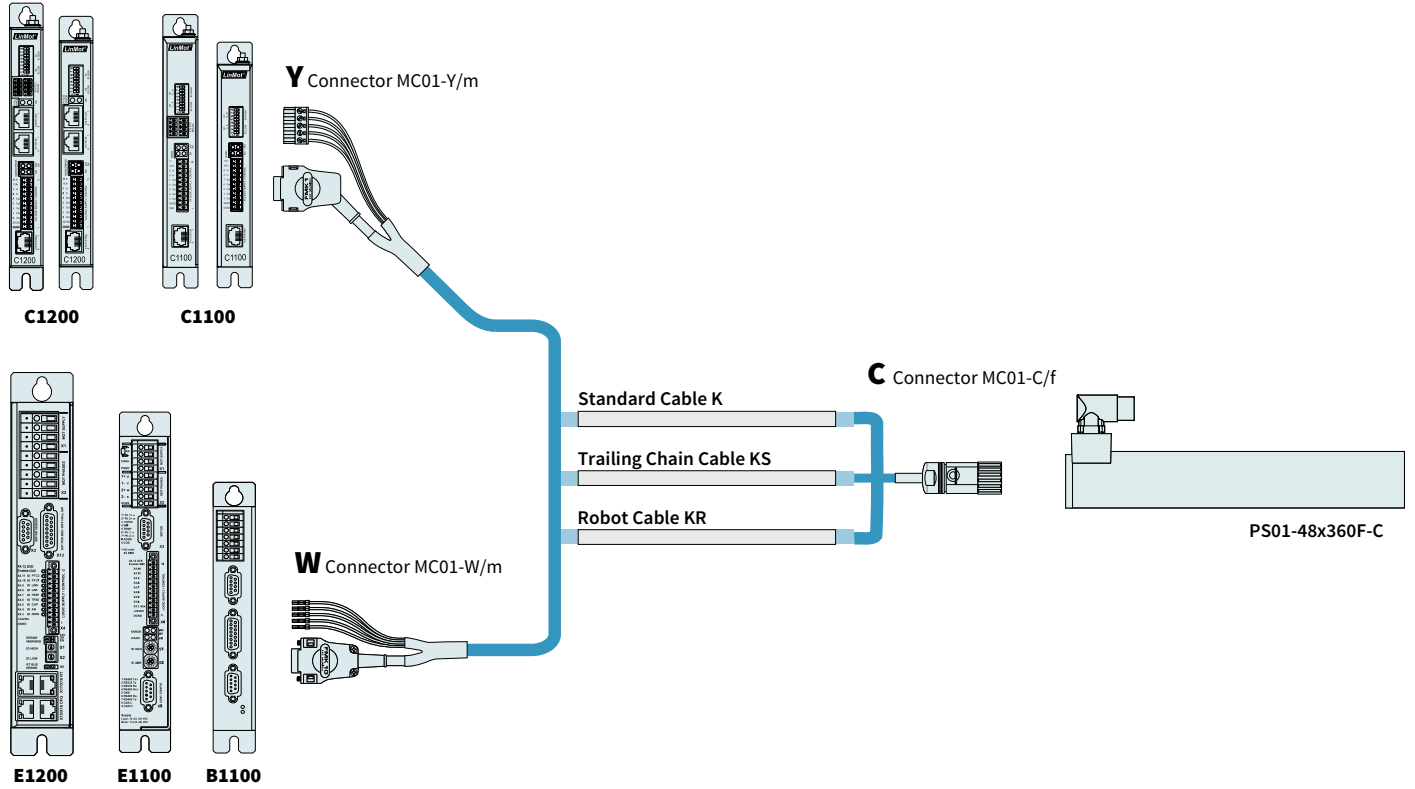
→	H-Guide	H01-48x370/510	H-Guide for P01-48x360, Stroke max 510 mm	0150-5252
		H01-48x370/510-GF	H-Guide for P01-48x360, Stroke max 510 mm	on request
→	Stator	PS01-48x360F-C	Stator with IP67 Connector M23/9(m)	0150-1269
→	Slider	PL01-28x920/840	Slider Standard	0150-1386

Accessories

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

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

Motor Cable



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

MOTOR FLANGES



Item	Description	Item-No.
PF01-48x346	Flange 48x120 mm	0150-2145

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	0150-5051

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".

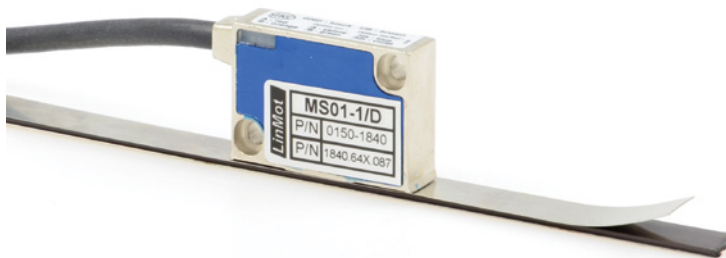
WIPERS



Item	Description	Item-No.
PA01-48/27-F	Wipers for PS01-48x...	0150-3228
PA01-48/27-R	Wipers for PS01-48x...-C	0150-3229
PA01-48/28-F	Wipers for PS01-48x...	0150-3127
PA01-48/28-R	Wipers for PS01-48x...-C	0150-3202

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".