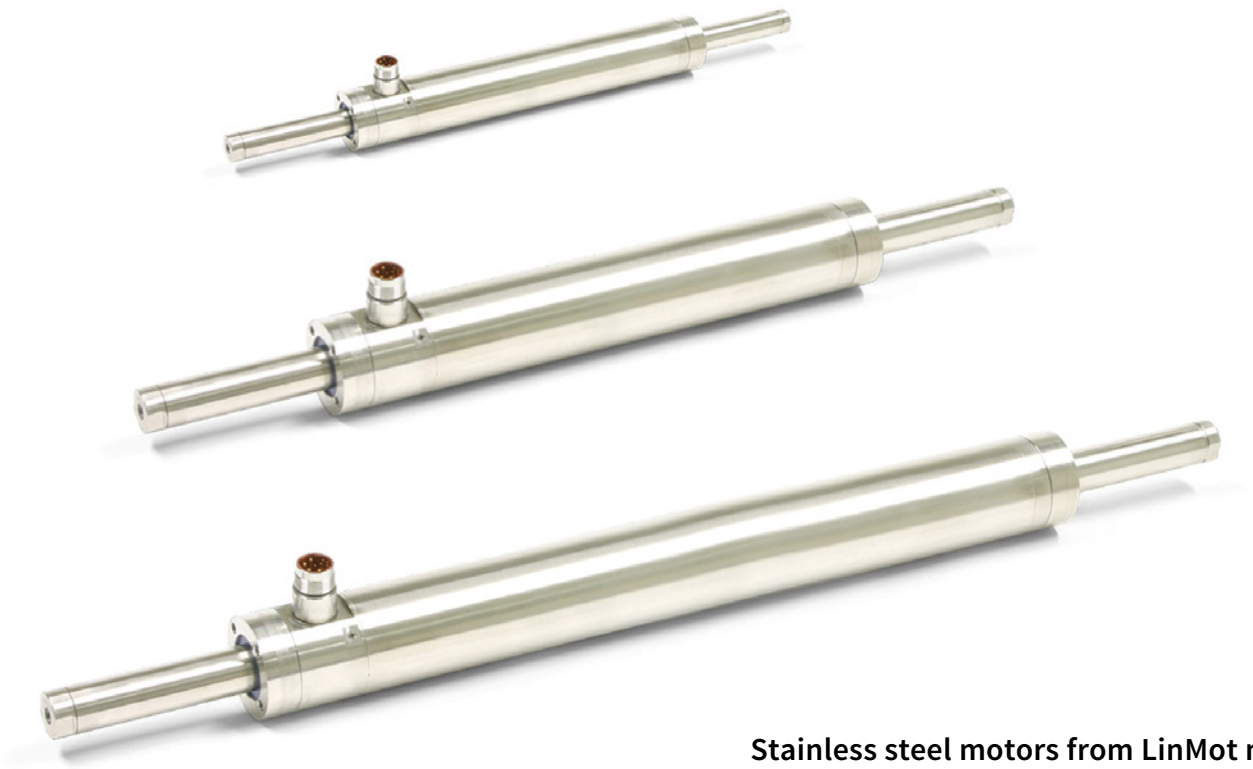
LINEAR MOTORS STAINLESS STEEL



Stainless steel motors from LinMot meet the highest level of hygiene.

Product Description

Developed for a challenging environment, these compact linear motors are designed entirely of EN 1.4404/AISI 316L stainless steel. The motor is designed with hygiene as its primary goal. In order to avoid buildup of contaminants, the motor is designed without unnecessary edges, corners, holes, and threads. In addition, all joints are welded, so no seals are required.

The stainless steel family of motors consists of three sizes and has a range of strokes up to 980 mm. These drives can be used in machines and systems for processing food products or in pharmaceutical industry operations. They are capable of handling extremely rough or corrosive environments without a problem and can be cleaned with any typical industrial cleaning products.

Special Wash-Down Bearings

For optimal cleaning of the linear motors, LinMot offers stainless steel motors with specially developed wash-down bearings. They are conceived so that any contaminants can be cleaned off under high pressure without leaving any residue. The material used, just like the bearing material indicated above, has been specially certified for food product processing.

External Guide Bearings

The linear motors are equipped with external sliding bearings that guide the slider precisely over the entire stroke length. This means that the motion inside the stator occurs with no contact whatsoever. The bearing material is specially designed for use with food products and medical applications and is certified to FDA standards.

IP69K PROTECTION RATING

The windings in the LinMot motor are completely encapsulated in epoxy resign, which protects both the copper filling and the stator package against condensation and corrosion.

Thanks to this complete encapsulation, the motors are also protected against penetration by dust and water (allowing high-pressure and steam-jet cleaning). This leak tightness means that they meet protection class IP69K according to DIN EN 60529.

INTEGRATED WATER COOLING

The Stainless steel linear motors can optionally be supplied with integrated water cooling. The stator is enclosed by the cooling system along its entire length. The heat losses generated in the motor are dissipated through the liquid cooling system. This increases the rated power of the motor several times over in comparison with the self-cooled version. The lower surface temperature of the motor also greatly reduces microbe growth.

HIGH AND CONTROLLED DYNAMICS

Max. acceleration values over 400 m/s^2 and travel speeds over 3 m/s allow cyclical motion sequences of several Hertz.

For handling applications with sensitive products, such as transporting wafers in semiconductor production, very gentle, smooth motions with suitable accelerations can be obtained.

FREELY POSITIONABLE

LinMot linear motors can be freely positioned. With absolute or relative movement commands, they can move to any desired position in the stroke range. Since the LinMot linear drive is a closed-loop system, not only the end positions are monitored, but also deviations in position during travel. This allows, among other things, precise specification of travel speeds, acceleration and braking ramps, and travel through curved paths.

PROCESS STABILITY

For temperature monitoring all linear motors are equipped with sensors that transfer the data to the drive. The data can be analyzed in the superordinate control so that the motor, depending on the processing (for example, foods such as fish) can be kept in a constant temperature range.

Since not only the temperature, but also speed and acceleration are controlled and monitored, motions that are programmed once are carried out the same way over the entire life of the machine.

SYNCHRONIZATION

For synchronous machines, the linear motor can be synchronized to the main shaft. By replacing mechanical cam discs with LinMot linear motors, for example, great variations can be achieved, with format changeovers at the push of a button.

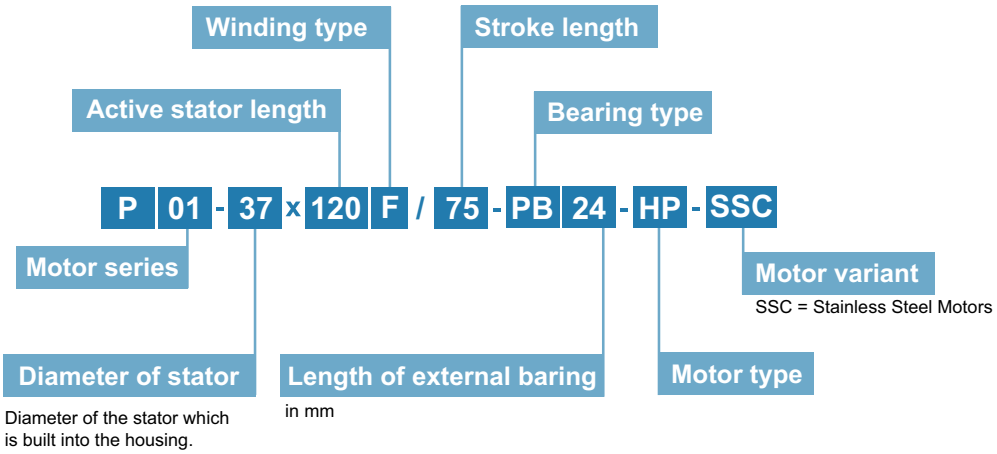
OVERLOAD PROTECTION

There are no mechanical components for force transfer that could be damaged in a crash or stall condition in a linear motor. Complex, expensive designs to protect gearboxes, gears, and shafts are thus eliminated. If the linear motor stalls, it acts like a pneumatic cylinder and tries to reach the target position with maximum force. The following error monitor in the drive can, however, immediately recognize a stall condition. Temperature sensors integrated in the stator prevent the drive from overloading in any case.

LONG LIFESPAN

Since the linear motion is generated purely magnetically, and no mechanical force transmission takes place, even extremely dynamic applications can be implemented with a long lifespan.

Type Code



For explanations of the terms, please refer to the section "Glossary"

LINEAR MOTORS P01-37x120F-HP-SSC

- Stainless steel housing EN 1.4404 / AISI / SAE 316L
- Hygienic design
- Welded connections
- Completely encapsulated
- IP Code IP69K
- Optional integrated water cooling
- For use in the food or in the pharmaceutical sector

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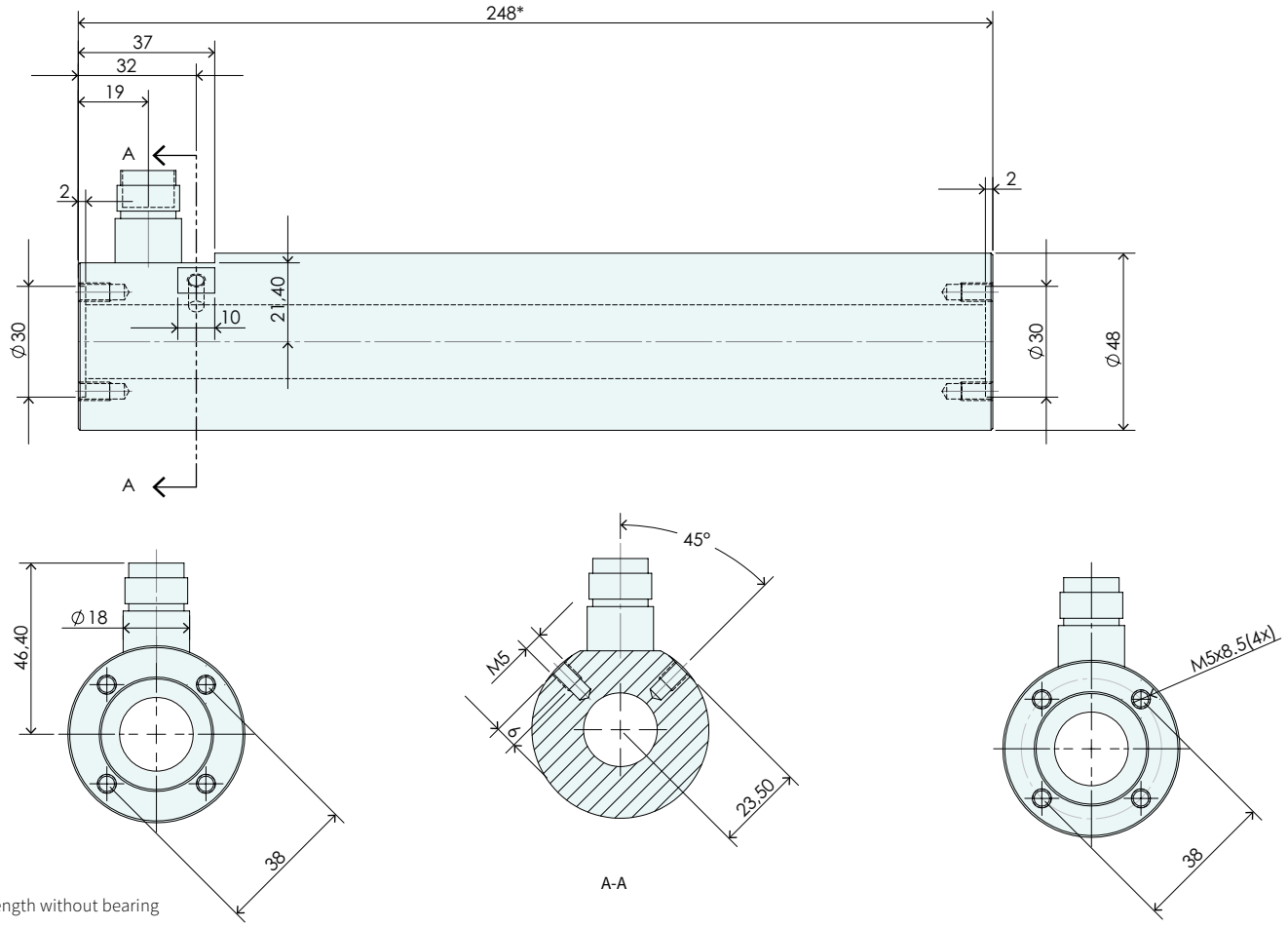
LINEAR MOTORS P01-37x120F-HP-SSC

MOTOR FAMILY P01-37x120F-HP-SSC

Technical Data				
Stroke				
Max. Stroke	mm	(in)	680	(26.8)
Force				
Max. Force @ 48VDC	N	(lbf)	210	(47.1)
Max. Force @ 72VDC	N	(lbf)	210	(47.1)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	23 / - / 63	(5.3 / - / 14)
Max. Border Force relative	%		≤ 100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	14	(3.14)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.2	(119.9)
Max. Velocity @ 72VDC	m/s	(in/s)	4.6	(189.9)
Position Detection				
Position Resolution	mm	(in)	0.005	(0.0002)
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}		14.9	
Max. Current @ 72VDC	A_{pk}		14.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		1.7 / - / 4.5	
Terminal Resistance 25 °C / 120 °C	Ohm		2.4 / 3.5	
Terminal Inductivity	mH		1.6	
Magnetic Period	mm	(in)	40	(1.57)
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		8.3 / - / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		3300 / - / 450	
Mechanical Data				
Stator Diameter	mm	(in)	48	(1.9)
Stator Length [Connector type / Cable type]	mm	(in)	296	(12)
Stator Mass	g	(lb)	2250	(4.95)
Slider Diameter	mm	(in)	19	(0.75)
Slider Length	mm	(in)	240 - 1000	(9.4 - 39)
Slider Mass	g	(lb)	415 - 1800	(0.91 - 3.96)
IP Code			IP 69k	

STATOR



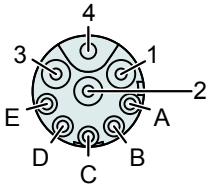
* Length without bearing

Item	Description	Item-No.
PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283

CONNECTOR

Motor Connector Wiring	PS01-37x120F-HP-SSC-R PS01-37x120F-HP-SSC-R-FC R-Connector	Wire Color Motor Cable
Ph 1+	1	red
Ph 1-	2	pink
Ph 2+	3	blue
Ph 2-	4	grey
+5VDC	A	white
GND	B	inner Shield
Sinus	C	yellow
Cosinus	D	green
Temp.	E	black
Shield	Case	outer Shield

R-Connector

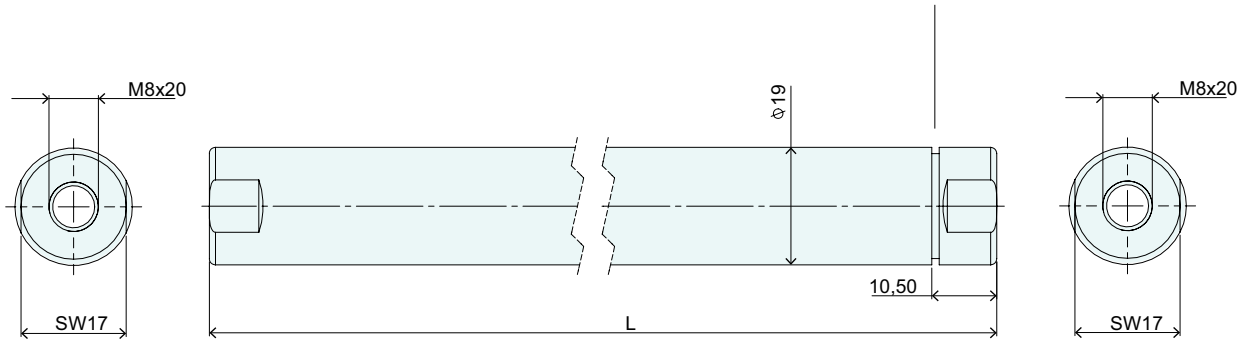


View: Motor connector, plug side

SLIDER

Slider High Clearance

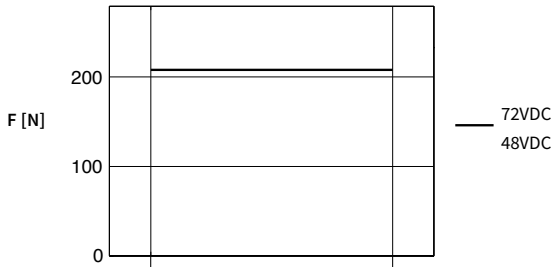
Number of grooves determines the slider type
(see chapter 2 / slider) and marks the front end.

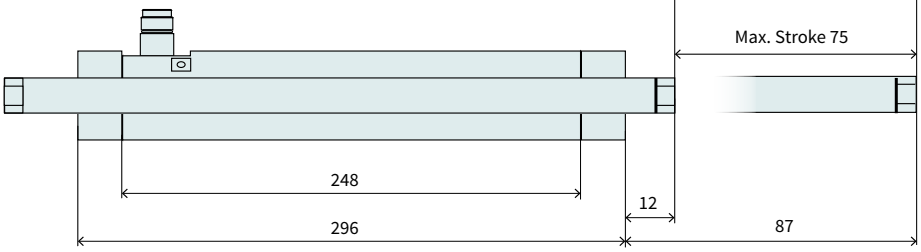


Slider High Clearance			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-19x395/320	Slider 'High Clearance'	75	0150-1452
PL01-19x500/420	Slider 'High Clearance'	180	0150-1455
PL01-19x600/520	Slider 'High Clearance'	280	0150-1456
PL01-19x700/620	Slider 'High Clearance'	380	0150-1457
PL01-19x800/720	Slider 'High Clearance'	480	0150-1458
PL01-19x900/820	Slider 'High Clearance'	580	0150-1459
PL01-19x1000/920	Slider 'High Clearance'	680	0150-1460

P01-37x120F/75-PB24-HP-SSC

Max. Stroke: 75 mm
Peak Force: 210 N





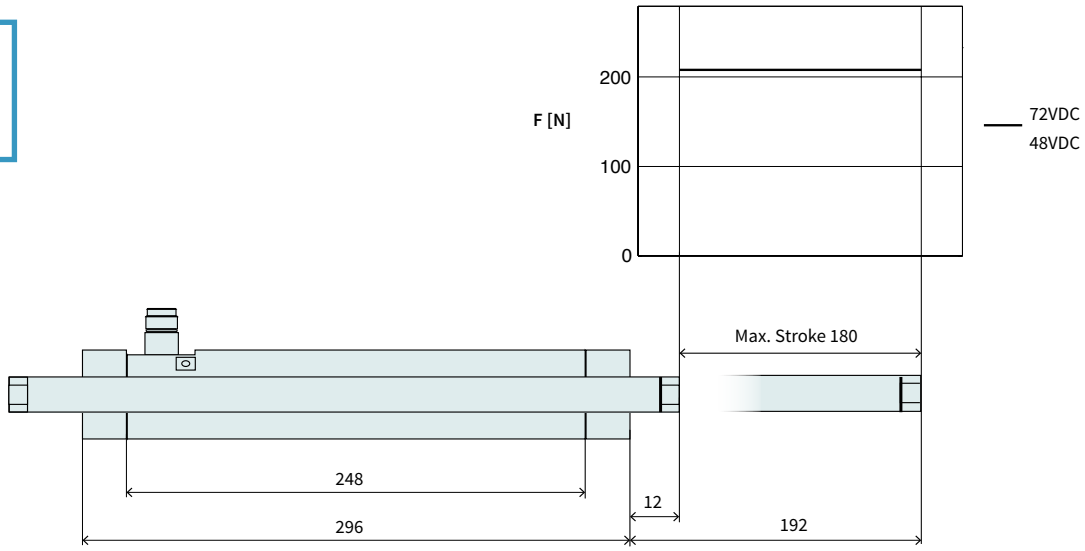
Dimensions in mm

Technical Data P01-37x120F/75-HP-PB24-SSC				
Stroke				
Max. Stroke	mm	(in)	75	(2.95)
Force				
Max. Force @ 48VDC	N	(lbf)	210	(47.1)
Max. Force @ 72VDC	N	(lbf)	210	(47.1)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	23 / - / 63	(5.3 / - / 14)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	14	(3.14)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.2	(119.9)
Max. Velocity @ 72VDC	m/s	(in/s)	4.6	(189.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.75	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		14.9	
Max. Current @ 72VDC	A_{pk}		14.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		1.7 / - / 4.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		8.3 / - / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		3300 / - / 450	
Mechanical Data				
Slider Length	mm	(in)	395	(16)
Slider Mass	g	(lb)	748	(1.65)

Item	Description	Item-No.
PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
PL01-19x395/320	Slider 'High Clearance'	0150-1452

P01-37x120F/180-PB24-HP-SSC

Max. Stroke: 180 mm
Peak Force: 210 N



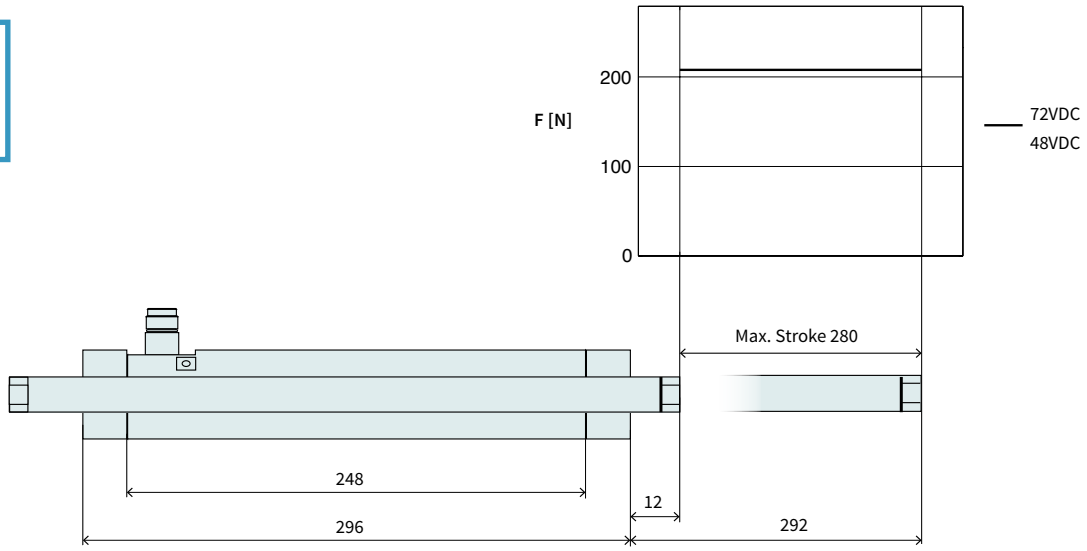
Dimensions in mm

Technical Data P01-37x120F/180-HP-PB24-SSC				
Stroke				
Max. Stroke	mm	(in)	180	(7.08)
Force				
Max. Force @ 48VDC	N	(lbf)	210	(47.1)
Max. Force @ 72VDC	N	(lbf)	210	(47.1)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	23 / - / 63	(5.3 / - / 14)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	14	(3.14)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.2	(119.9)
Max. Velocity @ 72VDC	m/s	(in/s)	4.6	(189.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.4	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		14.9	
Max. Current @ 72VDC	A_{pk}		14.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		1.7 / - / 4.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		8.3 / - / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		3300 / - / 450	
Mechanical Data				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	960	(2.11)

Item	Description	Item-No.
PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
PL01-19x500/420	Slider 'High Clearance'	0150-1455

P01-37x120F/280-PB24-HP-SSC

Max. Stroke: 280 mm
Peak Force: 210 N



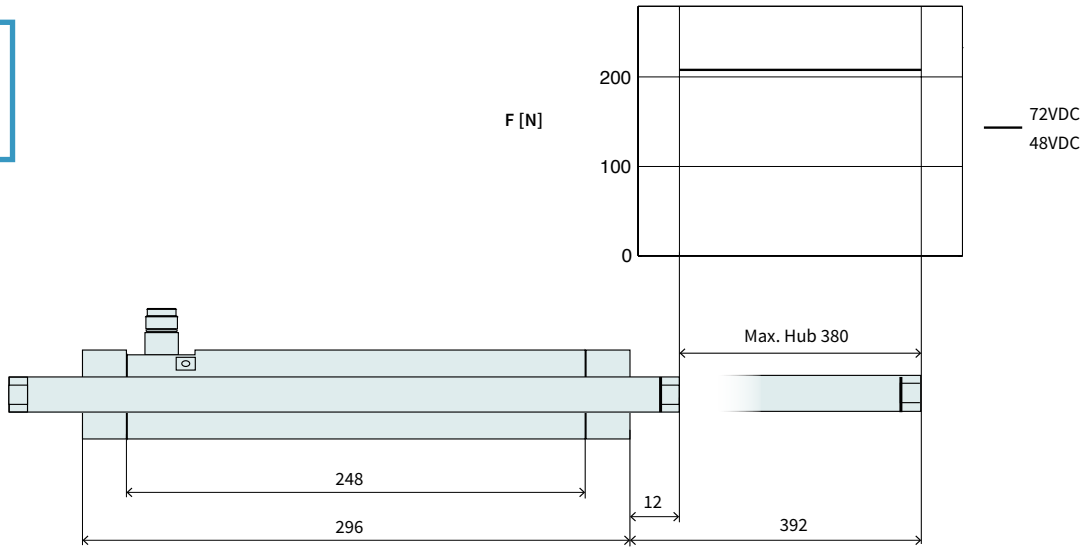
Dimensions in mm

Technical Data P01-37x120F/280-HP-PB24-SSC				
Stroke				
Max. Stroke	mm	(in)	280	(10.99)
Force				
Max. Force @ 48VDC	N	(lbf)	210	(47.1)
Max. Force @ 72VDC	N	(lbf)	210	(47.1)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	23 / - / 63	(5.3 / - / 14)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	14	(3.14)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.2	(119.9)
Max. Velocity @ 72VDC	m/s	(in/s)	4.6	(189.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		14.9	
Max. Current @ 72VDC	A_{pk}		14.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		1.7 / - / 4.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		8.3 / - / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		3300 / - / 450	
Mechanical Data				
Slider Length	mm	(in)	600	(24)
Slider Mass	g	(lb)	1171	(2.58)

Item	Description	Item-No.
PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
PL01-19x600/520	Slider 'High Clearance'	0150-1456

P01-37x120F/380-PB24-HP-SSC

Max. Stroke: 380 mm
Peak Force: 210 N



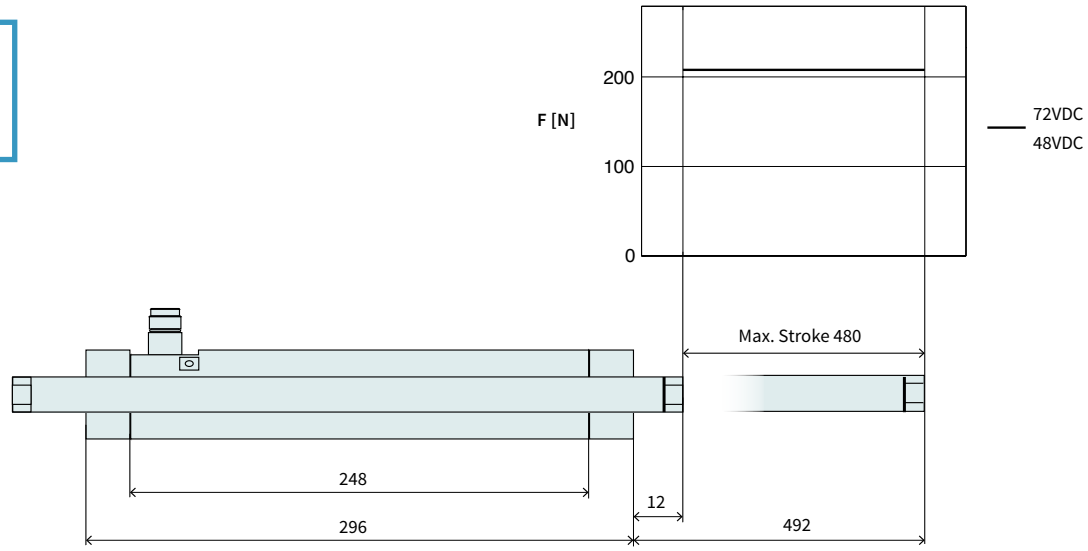
Dimensions in mm

Technical Data P01-37x120F/380-HP-PB24-SSC				
Stroke				
Max. Stroke	mm	(in)	380	(14.99)
Force				
Max. Force @ 48VDC	N	(lbf)	210	(47.1)
Max. Force @ 72VDC	N	(lbf)	210	(47.1)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	23 / - / 63	(5.3 / - / 14)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	14	(3.14)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.2	(119.9)
Max. Velocity @ 72VDC	m/s	(in/s)	4.6	(189.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		14.9	
Max. Current @ 72VDC	A_{pk}		14.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		1.7 / - / 4.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		8.3 / - / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		3300 / - / 450	
Mechanical Data				
Slider Length	mm	(in)	700	(28)
Slider Mass	g	(lb)	1380	(3.04)

Item	Description	Item-No.
PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
PL01-19x700/620	Slider 'High Clearance'	0150-1457

P01-37x120F/480-PB24-HP-SSC

Max. Stroke: 480 mm
Peak Force: 210 N



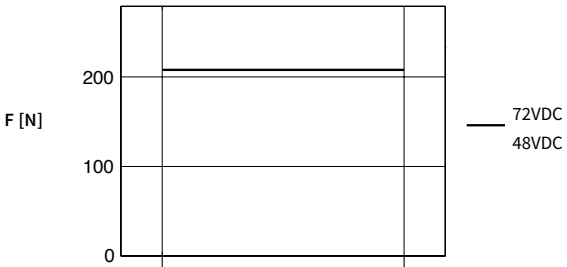
Dimensions in mm

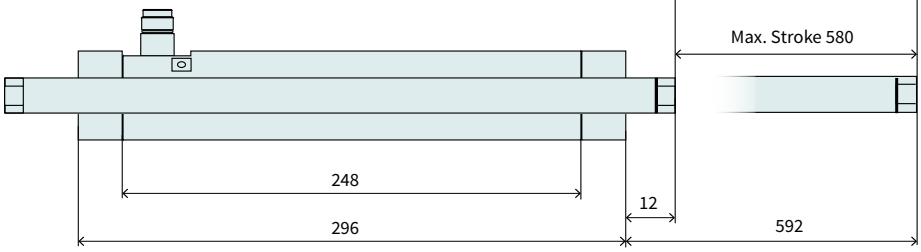
Technical Data P01-37x120F/480-HP-PB24-SSC				
Stroke				
Max. Stroke	mm	(in)	480	(18.89)
Force				
Max. Force @ 48VDC	N	(lbf)	210	(47.1)
Max. Force @ 72VDC	N	(lbf)	210	(47.1)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	23 / - / 63	(5.3 / - / 14)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	14	(3.14)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.2	(119.9)
Max. Velocity @ 72VDC	m/s	(in/s)	4.6	(189.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		14.9	
Max. Current @ 72VDC	A_{pk}		14.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		1.7 / - / 4.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		8.3 / - / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		3300 / - / 450	
Mechanical Data				
Slider Length	mm	(in)	800	(31)
Slider Mass	g	(lb)	1590	(3.5)

Item	Description	Item-No.
PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
PL01-19x800/720	Slider 'High Clearance'	0150-1458

P01-37x120F/580-PB24-HP-SSC

Max. Stroke: 580 mm
Peak Force: 210 N





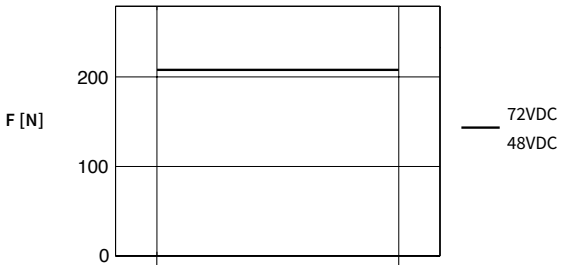
Dimensions in mm

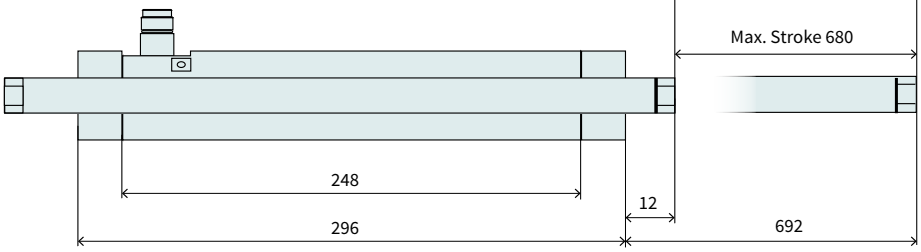
Technical Data P01-37x120F/580-HP-PB24-SSC				
Stroke				
Max. Stroke	mm	(in)	580	(22.8)
Force				
Max. Force @ 48VDC	N	(lbf)	210	(47.1)
Max. Force @ 72VDC	N	(lbf)	210	(47.1)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	23 / - / 63	(5.3 / - / 14)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	14	(3.14)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.2	(119.9)
Max. Velocity @ 72VDC	m/s	(in/s)	4.6	(189.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		14.9	
Max. Current @ 72VDC	A_{pk}		14.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		1.7 / - / 4.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		8.3 / - / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		3300 / - / 450	
Mechanical Data				
Slider Length	mm	(in)	900	(35)
Slider Mass	g	(lb)	1590	(3.5)

Item	Description	Item-No.
PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
PL01-19x900/820	Slider 'High Clearance'	0150-1459

P01-37x120F/680-PB24-HP-SSC

Max. Stroke: 680 mm
Peak Force: 210 N





Dimensions in mm

Technical Data P01-37x120F/680-HP-PB24-SSC				
Stroke				
Max. Stroke	mm	(in)	680	(26.8)
Force				
Max. Force @ 48VDC	N	(lbf)	210	(47.1)
Max. Force @ 72VDC	N	(lbf)	210	(47.1)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	23 / - / 63	(5.3 / - / 14)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	14	(3.14)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.2	(119.9)
Max. Velocity @ 72VDC	m/s	(in/s)	4.6	(189.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		14.9	
Max. Current @ 72VDC	A_{pk}		14.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		1.7 / - / 4.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		120	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		8.3 / - / 1.1	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		3300 / - / 450	
Mechanical Data				
Slider Length	mm	(in)	1000	(39)
Slider Mass	g	(lb)	1800	(3.96)

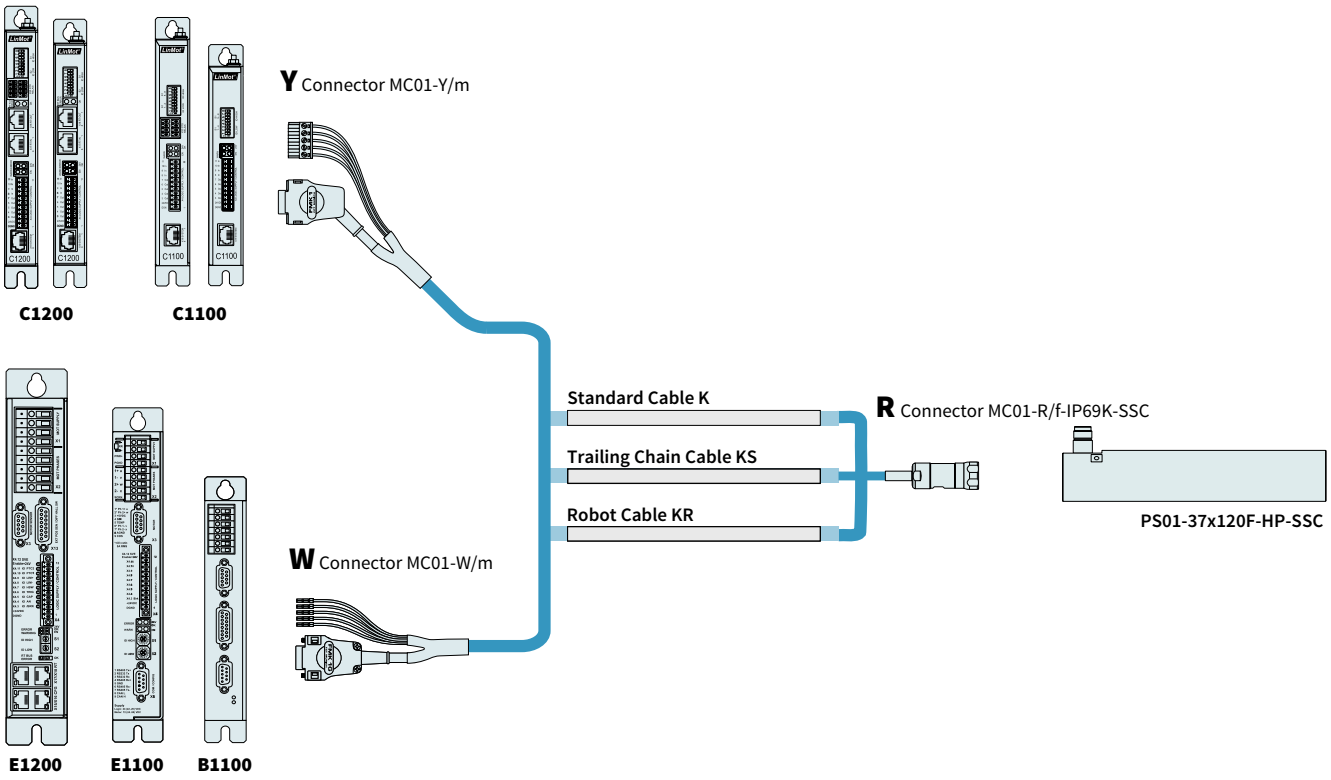
Item	Description	Item-No.
PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
PL01-19x1000/920	Slider 'High Clearance'	0150-1460

Linear Guides H01-SSC

HM01-37x120/85-SSC	**Linear module SSC 37x120 with 85 mm Stroke**			
→	H-Guide	H01-37x304/85-SSC	H-Guide for PS01-37x120F-HP-SSC, Stroke max.85 mm	0150-5271
→	Stator	PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
		PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
→	Slider	PL01-19x395/320	Slider 'High Clearance'	0150-1452
HM01-37x120/190-SSC	**Linear module SSC 37x120 with 190 mm Stroke**			
→	H-Guide	H01-37x304/190-SSC	H-Guide for PS01-37x120F-HP-SSC, Stroke max.190 mm	0150-5272
→	Stator	PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
		PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
→	Slider	PL01-19x500/420	Slider 'High Clearance'	0150-1455
HM01-37x120/290-SSC	**Linear module SSC 37x120 with 290 mm Stroke**			
→	H-Guide	H01-37x304/290-SSC	H-Guide for PS01-37x120F-HP-SSC, Stroke max.290 mm	0150-5273
→	Stator	PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
		PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
→	Slider	PL01-19x600/520	Slider 'High Clearance'	0150-1456
HM01-37x120/390-SSC	**Linear module SSC 37x120 with 390 mm Stroke**			
→	H-Guide	H01-37x304/390-SSC	H-Guide for PS01-37x120F-HP-SSC, Stroke max.390 mm	0150-5274
→	Stator	PS01-37x120F-HP-SSC-R	Stator Stainless Steel IP69K	0150-1282
		PS01-37x120F-HP-SSC-R-FC	Stator stainless steel IP69K, FC	0150-1283
→	Slider	PL01-19x700/620	Slider 'High Clearance'	0150-1457

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

Motor Cable



ORDERING INFORMATION

TRAILING CHAIN CABLE		
Item	**Description**	**Item-No.**
KS05-W/R-SSC-2	Trailing Chain Cable W/R-SSC, 2 m	0150-2683
KS05-W/R-SSC-4	Trailing Chain Cable W/R-SSC, 4 m	0150-2684
KS05-W/R-SSC-6	Trailing Chain Cable W/R-SSC, 6 m	0150-2685
KS05-W/R-SSC-8	Trailing Chain Cable W/R-SSC, 8 m	0150-2686
KS05-W/R-SSC-	Trailing Chain Cable W/R-SSC, Custom length	0150-3583
KS05-Y/R-SSC-2	Trailing Chain Cable Y/R-SSC, 2 m	0150-2687
KS05-Y/R-SSC-4	Trailing Chain Cable Y/R-SSC, 4 m	0150-2688
KS05-Y/R-SSC-6	Trailing Chain Cable Y/R-SSC, 6 m	0150-2689
KS05-Y/R-SSC-8	Trailing Chain Cable Y/R-SSC, 8 m	0150-2690
KS05-Y-Fe/R-SSC-	Trailing Chain Cable Y-Fe/R-SSC, Custom length	0150-3646

ROBOT CABLE		
Item	**Description**	**Item-No.**
KR05-W/R-SSC-	Robot Cable KR05-W/R-SSC-, Custom length	0150-3587

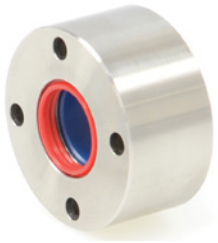
CONNECTOR & CABLE (INDIVIDUAL)		
Item	**Description**	**Item-No.**
MC01-W/m	Motor Connector W/m	0150-3140
MC01-Y-Fe/m	Motor Connector Y-Fe/m	0150-3289
MC01-R/f-IP69K-SSC	Motor Connector R/f, IP69k, SSC	0150-3347
K05-04/05	Motor Cable per m	0150-1920
KS05-04/05	Trailing Chain Cable per m	0150-1938
KR05-04/05	Robot Cable per m	0150-1846

SLIDER MOUNTING

Item	Description	Item-No.
PLF01-20-SS	Fixed Bearing Set for 19/20 mm sliders, stainless steel	0150-3296
PLL01-19	Floating support for PL01-19 sliders, Material 1.4305 / AISI 303	0150-3335

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KITS



Item	Description	Item-No.
PB02-37x24-P-WD	Bearing for PS01-37x...-SSC (Plastic)	0150-3299
PB01-37x24-P-SSC	Bearing for PS01-37x...-SSC, stainless steel	0150-3290

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

EXTERNAL POSITION SENSORS

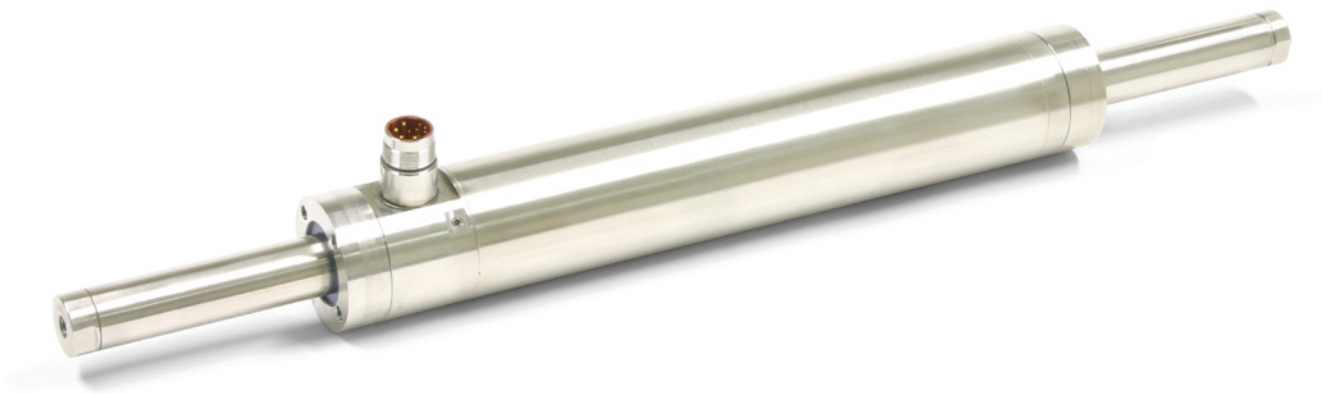
Item	Description	Item-No.
MS01-1/D	Linear Encoder 1µm, A/B (for incremental strip)	0150-1840
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	0150-1963
KS025-D/D-Encoder	Special cable KS025-D15/D-Encoder-	0150-3166
KS025-D/D15-Encoder	Special cable KS025-D15/D-Encoder-	0150-3168

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 straigth	0150-3616
KSS01-12-D15/ABS-ENC	For MS01-1/D-SSI on C1100/C1200/C1400/E1200/E1400 Drives	0150-3652

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

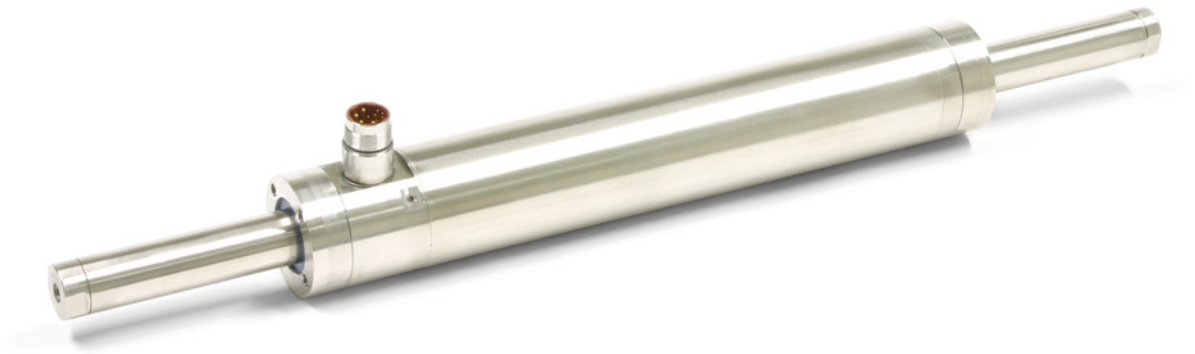
LINEAR MOTORS P01-48x240F-SSC



- Stainless steel housing EN 1.4404 / AISI / SAE 316L
- Hygienic design
- Welded connections, no gaskets
- Completely encapsulated (IP69K)
- Protection class IP69K
- Optional integrated water cooling
- For use in the food or in the pharmaceutical sector

5

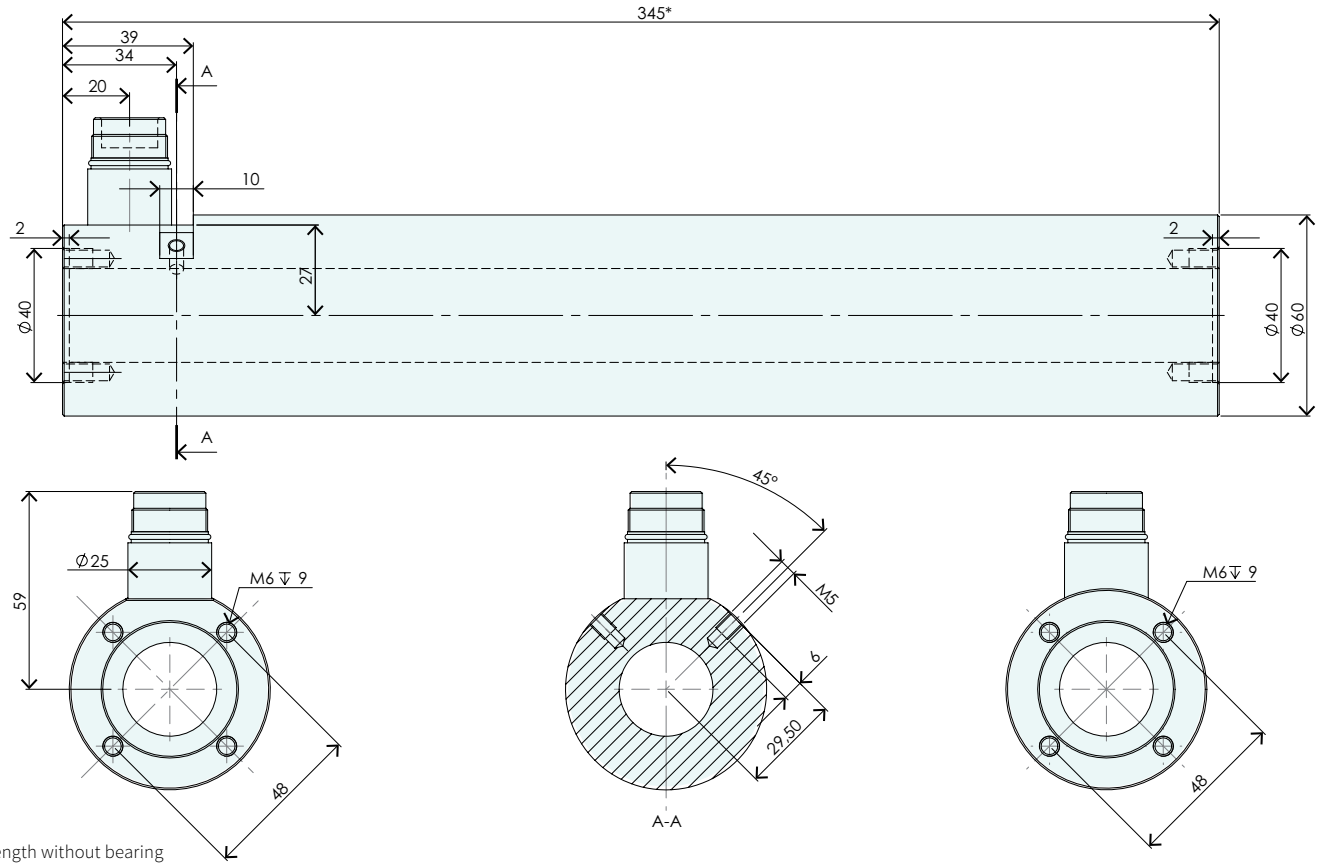
LINEAR MOTORS P01-48x240F-SSC



MOTOR FAMILY P01-48x240F-SSC

Technical Data				
Stroke				
Max. Stroke	mm	(in)	980	(38.6)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		≤ 100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
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}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Terminal Resistance 25 °C / 120 °C	Ohm		0.97 / 1.3	
Terminal Inductivity	mH		1.1	
Magnetic Period	mm	(in)	60	(2.35)
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Stator Diameter	mm	(in)	60	(2.4)
Stator Length [Connector type / Cable type]	mm	(in)	395	(16)
Stator Mass	g	(lb)	4270	(9.4)
Slider Diameter	mm	(in)	27	(1.1)
Slider Length	mm	(in)	350 - 1400	(14 - 55)
Slider Mass	g	(lb)	1360 - 5910	(3 - 13)
IP Code			IP 69k	

STATOR



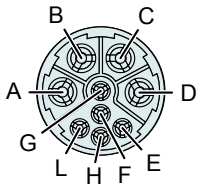
* Length without bearing

Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268

CONNECTOR

Motor Connector Wiring	PS01-48x240F-SSC-C PS01-48x240F-SSC-C-FC 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
Sinus	G	yellow
Cosinus	H	green
Temp.	L	black
Shield	Case	outer Shield

C-Connector

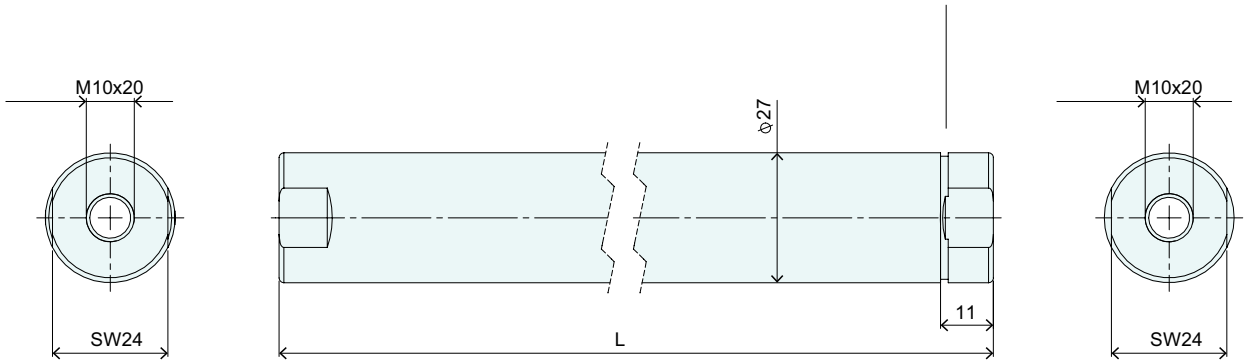


View: Motor connector, plug side

SLIDER

Slider High Clearance

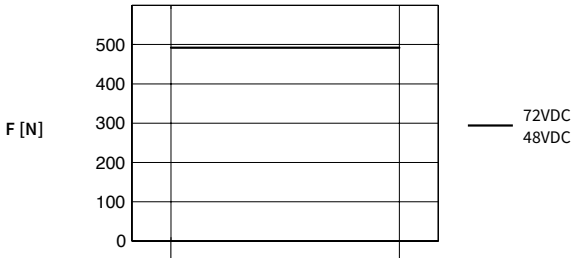
Number of grooves determines the slider type (see chapter 2 / slider) and marks the front end.

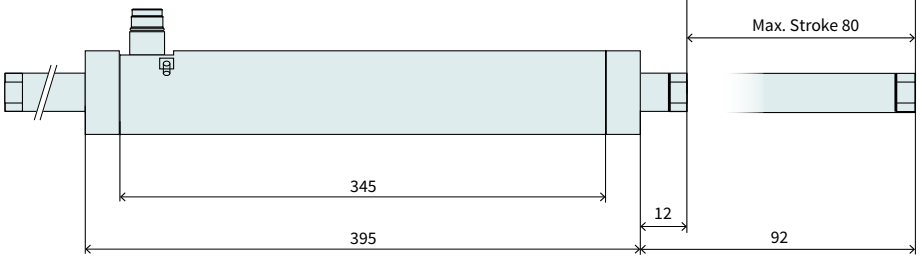


Slider High Clearance			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-27x500/420	Slider 'High Clearance'	80	0150-1469
PL01-27x620/540	Slider 'High Clearance'	200	0150-1470
PL01-27x710/630	Slider 'High Clearance'	290	0150-1471
PL01-27x800/720	Slider 'High Clearance'	380	0150-1472
PL01-27x920/840	Slider 'High Clearance'	500	0150-1447
PL01-27x1010/930	Slider 'High Clearance'	590	0150-1473
PL01-27x1220/1140	Slider 'High Clearance'	800	0150-1587
PL01-27x1400/1320	Slider 'High Clearance'	980	0150-1588

P01-48x240F/80-PB25-SSC

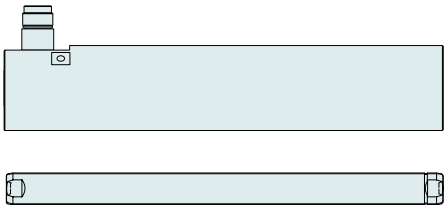
Max. Stroke: 80 mm
Peak Force: 496 N





Dimensions in mm

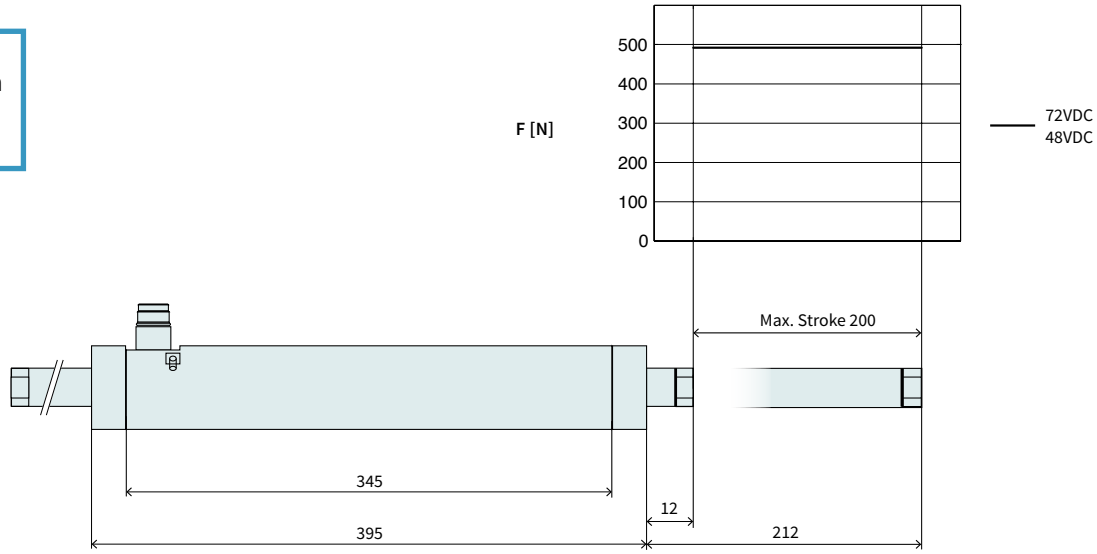
Technical Data P01-48x240F/80-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	80	(3.14)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 1.05	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	2010	(4.42)



Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
PL01-27x500/420	Slider 'High Clearance'	0150-1469

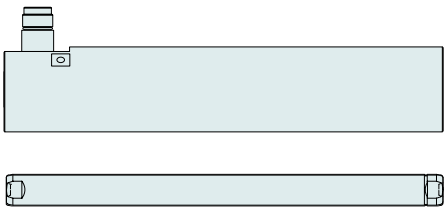
P01-48x240F/200-PB25-SSC

Max. Stroke: 200 mm
Peak Force: 496 N



Dimensions in mm

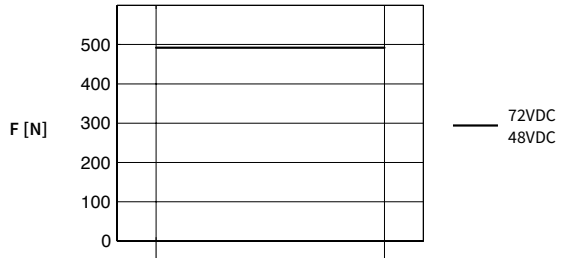
Technical Data P01-48x240F/200-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	200	(7.86)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.5	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Slider Length	mm	(in)	620	(24)
Slider Mass	g	(lb)	2530	(5.57)

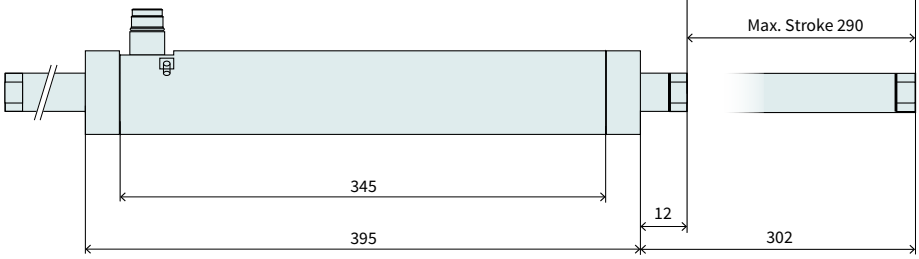


Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
PL01-27x620/540	Slider 'High Clearance'	0150-1470

P01-48x240F/290-PB25-SSC

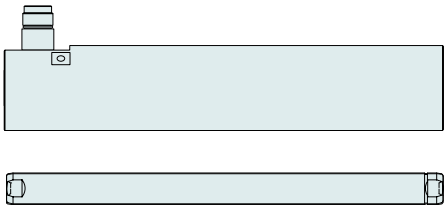
Max. Stroke: 290 mm
Peak Force: 496 N





Dimensions in mm

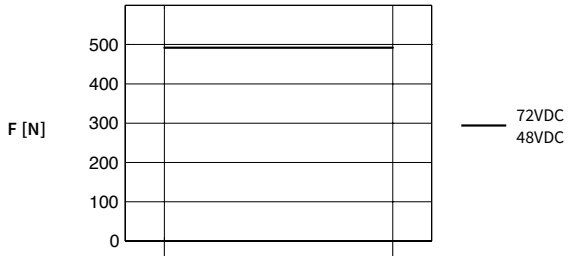
Technical Data P01-48x240F/290-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	290	(11.4)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.35	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Slider Length	mm	(in)	710	(28)
Slider Mass	g	(lb)	2920	(6.42)

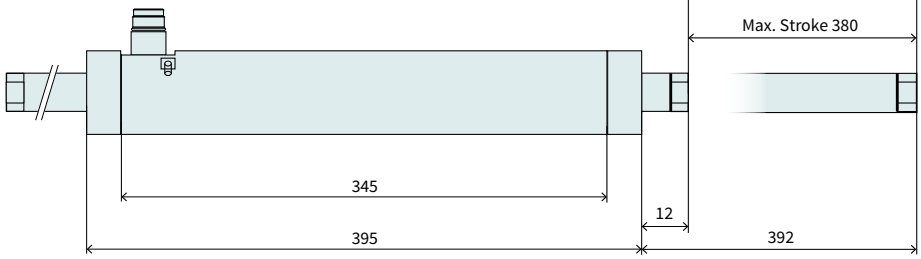


Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
PL01-27x710/630	Slider 'High Clearance'	0150-1471

P01-48x240F/380-PB25-SSC

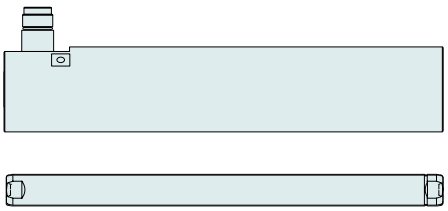
Max. Stroke: 380 mm
Peak Force: 496 N





Dimensions in mm

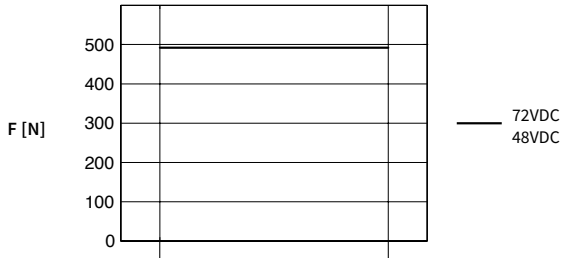
Technical Data P01-48x240F/380-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	380	(14.99)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Slider Length	mm	(in)	800	(31)
Slider Mass	g	(lb)	3310	(7.28)

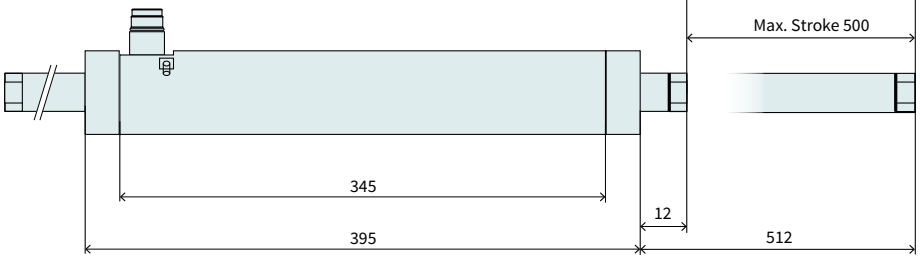


Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
PL01-27x800/720	Slider 'High Clearance'	0150-1472

P01-48x240F/500-PB25-SSC

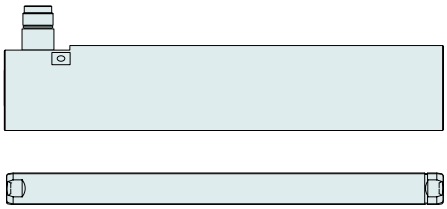
Max. Stroke: 500 mm
Peak Force: 496 N





Dimensions in mm

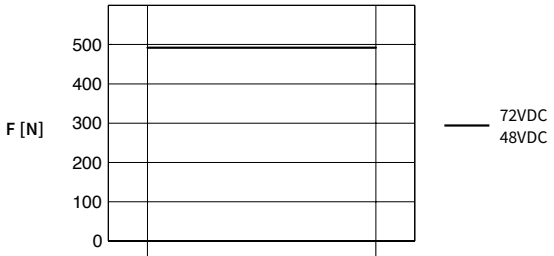
Technical Data P01-48x240F/500-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	500	(19.69)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Slider Length	mm	(in)	920	(36)
Slider Mass	g	(lb)	3830	(8.43)

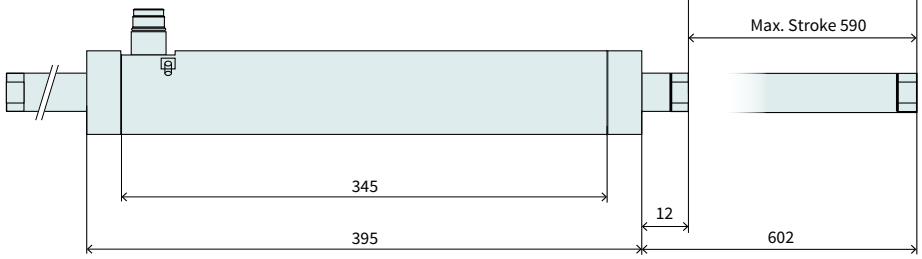


Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
PL01-27x920/840	Slider 'High Clearance'	0150-1447

P01-48x240F/590-PB25-SSC

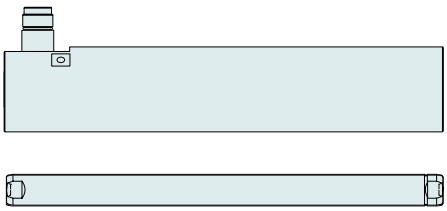
Max. Stroke: 590 mm
Peak Force: 496 N





Dimensions in mm

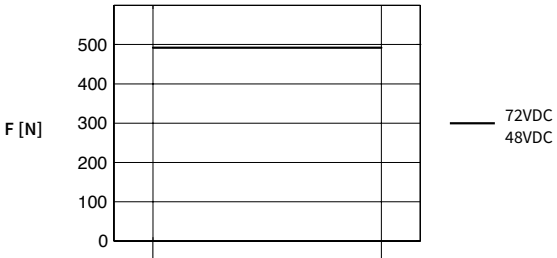
Technical Data P01-48x240F/590-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	590	(23.19)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Slider Length	mm	(in)	1010	(40)
Slider Mass	g	(lb)	4220	(9.28)

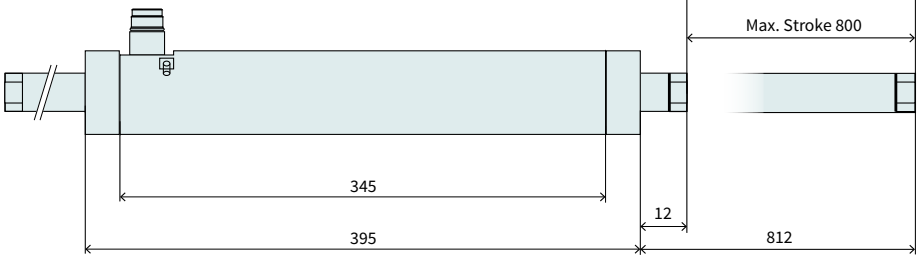


Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
PL01-27x1010/930	Slider 'High Clearance'	0150-1473

P01-48x240F/800-PB25-SSC

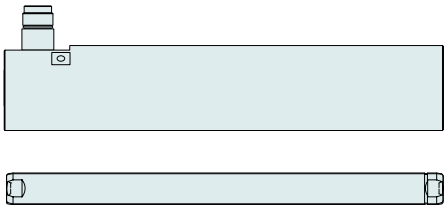
Max. Stroke: 800 mm
Peak Force: 496 N





Dimensions in mm

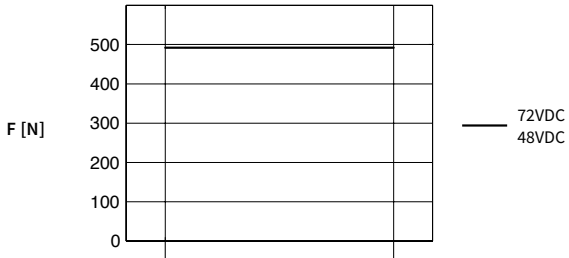
Technical Data P01-48x240F/800-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	800	(31.49)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Slider Length	mm	(in)	1220	(48)
Slider Mass	g	(lb)	5130	(11.29)

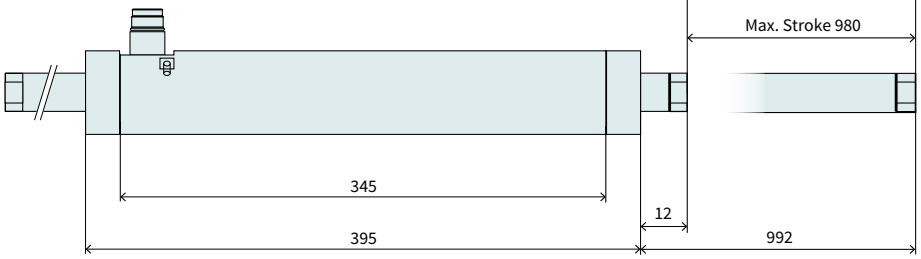


Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
PL01-27x1220/1140	Slider 'High Clearance'	0150-1587

P01-48x240F/980-PB25-SSC

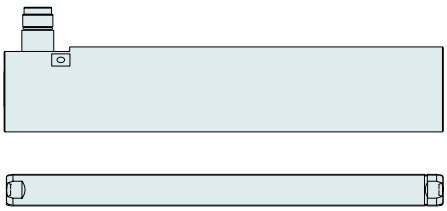
Max. Stroke: 980 mm
Peak Force: 496 N





Dimensions in mm

Technical Data P01-48x240F/980-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	980	(38.6)
Force				
Max. Force @ 48VDC	N	(lbf)	496	(111)
Max. Force @ 72VDC	N	(lbf)	496	(111)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / - / 240	(19 / - / 53)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	19.1	(4.29)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.2	(90.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.4	(139.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.4 / - / 12	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / - / 0.26	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / - / 260	
Mechanical Data				
Slider Length	mm	(in)	1400	(55)
Slider Mass	g	(lb)	5910	(13)



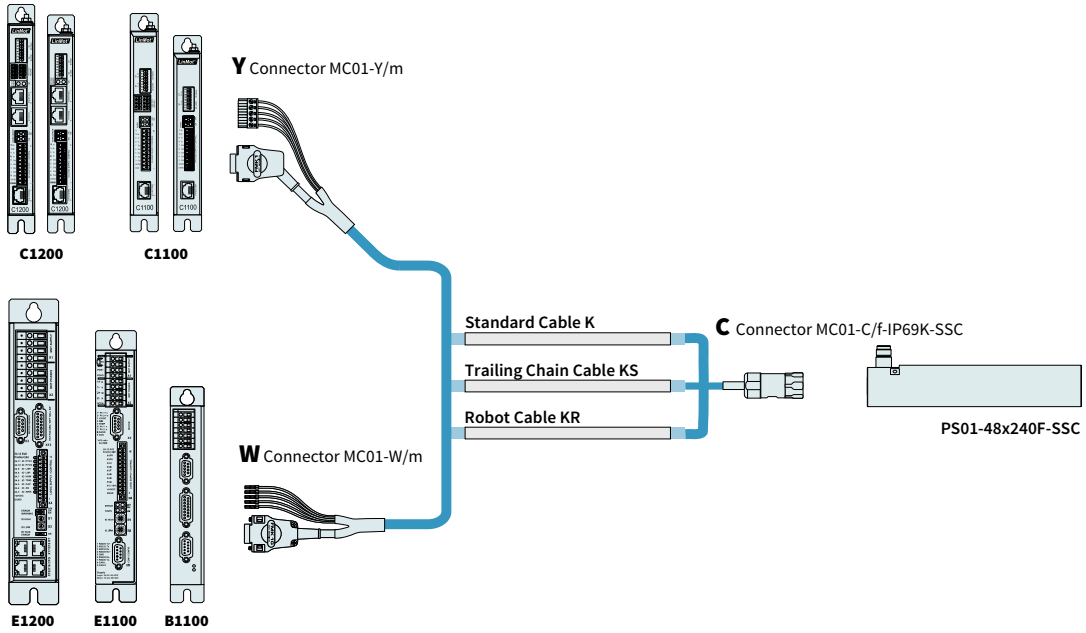
Item	Description	Item-No.
PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
PL01-27x1400/1320	Slider 'High Clearance'	0150-1588

Linear Guides H01-SSC

HM01-48x240/210-SSC	**Linear module SSC 48x240 with 210 mm Stroke**			
H-Guide	H01-48x401/210-SSC	H-Guide for PS01-48x240F-HP-SSC, Stroke max.210 mm	0150-5280
Stator	PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
	PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
Slider	PL01-27x620/540	Slider 'High Clearance'	0150-1470
HM01-48x240/300-SSC	**Linear module SSC 48x240 with 300 mm Stroke**			
H-Guide	H01-48x401/300-SSC	H-Guide for PS01-48x240F-HP-SSC, Stroke max.300 mm	0150-5281
Stator	PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
	PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
Slider	PL01-27x710/630	Slider 'High Clearance'	0150-1471
HM01-48x240/390-SSC	**Linear module SSC 48x240 with 390 mm Stroke**			
H-Guide	H01-48x401/390-SSC	H-Guide for PS01-48x240F-HP-SSC, Stroke max.390 mm	0150-5282
Stator	PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
	PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
Slider	PL01-27x800/720	Slider 'High Clearance'	0150-1472
HM01-48x240/510-SSC	**Linear module SSC 48x240 with 510 mm Stroke**			
H-Guide	H01-48x401/510-SSC	H-Guide for PS01-48x240F-HP-SSC, Stroke max.510 mm	0150-5283
Stator	PS01-48x240F-SSC-C	Stator Stainless Steel IP69K	0150-1267
	PS01-48x240F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1268
Slider	PL01-27x920/840	Slider 'High Clearance'	0150-1447

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

Motor Cable



ORDERING INFORMATION

STANDARD CABLE		
Item	**Description**	**Item-No.**
K15-W/C-SSC	Motor Cable W/C-SSC, Custom length	0150-3539
K15-Y-Fe/C-SSC-	Motor Cable Y-Fe/C-SSC, Custom length	0150-3630

TRAILING CHAIN CABLE		
Item	**Description**	**Item-No.**
KS10-W/C-SSC-2	Trailing Chain Cable W/C-SSC, 2 m	0150-2675
KS10-W/C-SSC-4	Trailing Chain Cable W/C-SSC, 4 m	0150-2676
KS10-W/C-SSC-6	Trailing Chain Cable W/C-SSC, 6 m	0150-2677
KS10-W/C-SSC-8	Trailing Chain Cable W/C-SSC, 8 m	0150-2678
KS10-W/C-SSC-	Trailing Chain Cable W/C-SSC, Custom length	0150-3358
KS10-Y/C-SSC-2	Trailing Chain Cable Y/C-SSC, 2 m	0150-2679
KS10-Y/C-SSC-4	Trailing Chain Cable Y/C-SSC, 4 m	0150-2680
KS10-Y/C-SSC-6	Trailing Chain Cable Y/C-SSC, 6 m	0150-2681
KS10-Y/C-SSC-8	Trailing Chain Cable Y/C-SSC, 8 m	0150-2682
KS10-Y-Fe/C-SSC-	Trailing Chain Cable Y/C-SSC, Custom length	0150-3574

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

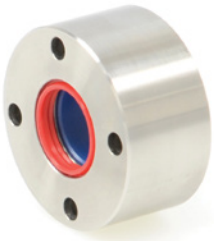
CONNECTOR & CABLE (INDIVIDUAL)		
Item	**Description**	**Item-No.**
MC01-W/m	Motor Connector W/m	0150-3140
MC01-Y-Fe/m	Motor Connector Y-Fe/m	0150-3289
MC01-C/f-IP69K-SSC	Motor Connector C/f, IP69K, SSC	0150-3306
K15-04/05	Motor Cable per m	0150-1978
KS10-04/05	Trailing Chain Cable per m	0150-1977
KR10-04/05	Robot Cable per m	0150-1830

SLIDER MOUNTING

Item	Description	Item-No.
PLF01-28-SS	Fixed Bearing Set for 27 mm and 28 mm Slider, Stainless steel	0150-3297
PLL01-27	Floating support for PL01-27 sliders	0150-3294

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KITS



Item	Description	Item-No.
PB02-48x25-P-WD	Bearing for PS01-48x...-SSC (Plastic)	0150-3271
PB01-48x25-P-SSC	Bearing for PS01-48x...-SSC, stainless steel	0150-3281

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

EXTERNAL POSITION SENSORS

Item	Description	Item-No.
MS01-1/D	Linear Encoder 1µm, A/B (for incremental strip)	0150-1840
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	0150-1963
KS025-D/D-Encoder	Special cable KS025-D/D-Encoder- (Length in m)	0150-3166
KS025-D/D15-Encoder	Special cable KS025-D15/D-Encoder- (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 straigth	0150-3616
KSS01-12-D15/ABS-ENC	For MS01-1/D-SSI on C1100/C1200/C1400/E1200/E1400 Drives	0150-3652

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

LINEAR MOTORS P01-48x360F-SSC

- Stainless steel housing EN 1.4404 / AISI / SAE 316L
- Hygienic design
- Welded connections, no gaskets
- Completely encapsulated
- Protection class IP69K
- Optional integrated water cooling
- For use in the food or in the pharmaceutical sector

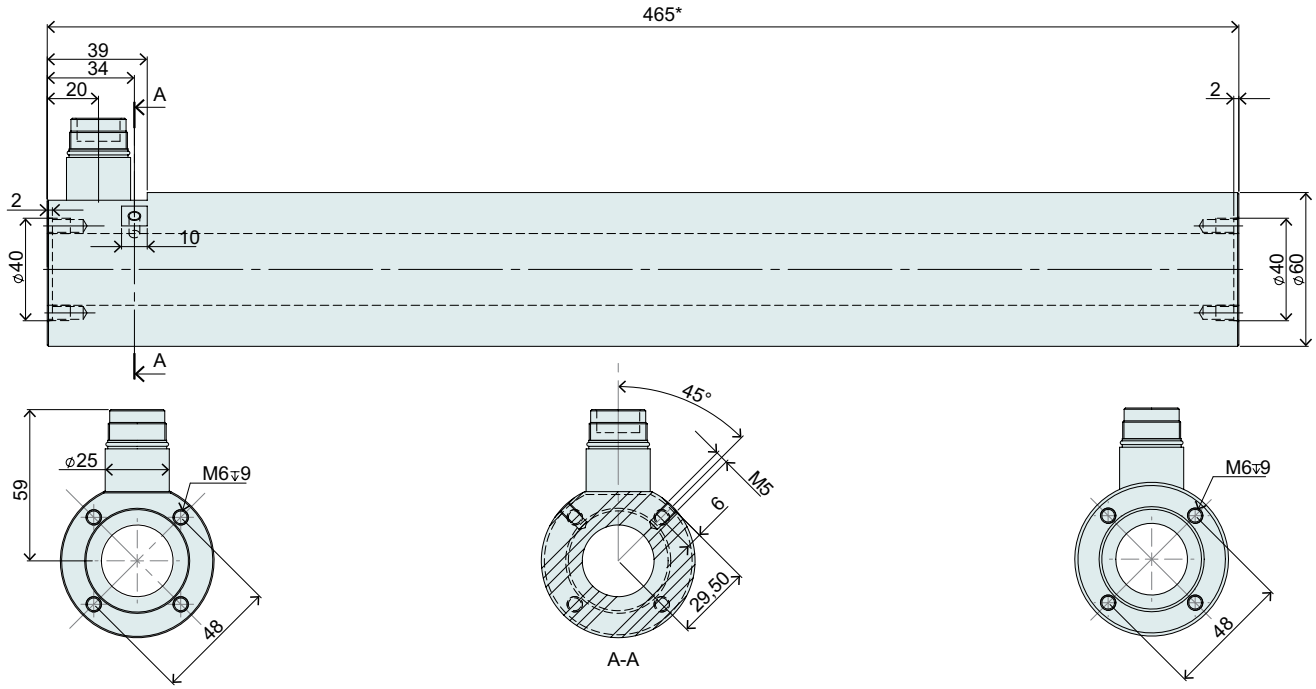
5

LINEAR MOTORS P01-48x360F-SSC

MOTOR FAMILY P01-48x360F-SSC

Technical Data				
Stroke				
Max. Stroke	mm	(in)	860	(33.9)
Force				
Max. Force @ 48VDC	N	(lbf)	721	(162)
Max. Force @ 72VDC	N	(lbf)	721	(162)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	130 / - / 350	(29 / - / 80)
Max. Border Force relative	%		≤ 100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	27.7	(6.24)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(62.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(93.9)
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}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.6 / - / 13	
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		1.3 / - / 0.17	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1900 / - / 240	
Mechanical Data				
Stator Diameter	mm	(in)	60	(2.4)
Stator Length [Connector type / Cable type]	mm	(in)	515	(20)
Stator Mass	g	(lb)	5560	(12.23)
Slider Diameter	mm	(in)	27	(1.1)
Slider Length	mm	(in)	500 - 1400	(20 - 55)
Slider Mass	g	(lb)	2010 - 5910	(4.42 - 13)
IP Code			IP 69k	

STATOR



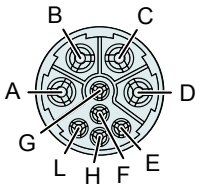
* Length without bearing

Item	Description	Item-No.
PS01-48x360F-SSC-C	Stator Stainless Steel IP69K	0150-1270
PS01-48x360F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1271

CONNECTOR

Motor Connector Wiring	PS01-48x360F-SSC-C PS01-48x360F-SSC-C-FC 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
Sinus	G	yellow
Cosinus	H	green
Temp.	L	black
Shield	Case	outer Shield

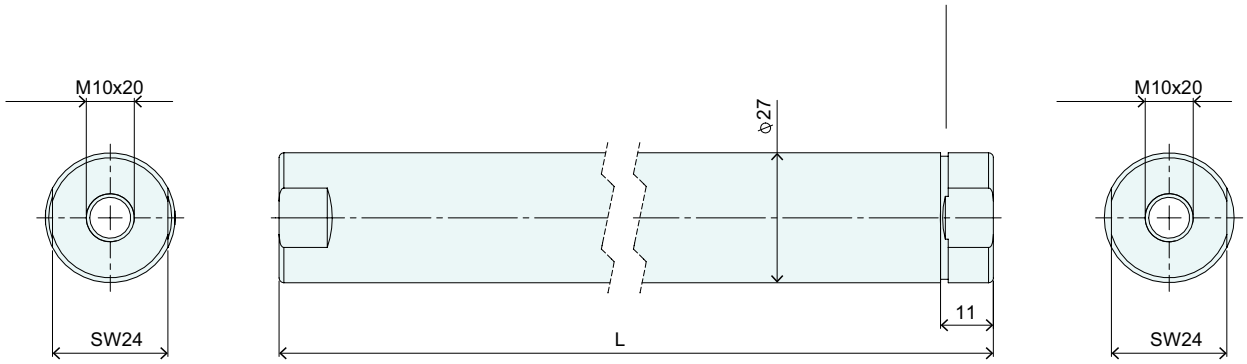
C-Connector



View: Motor connector, plug side

SLIDER

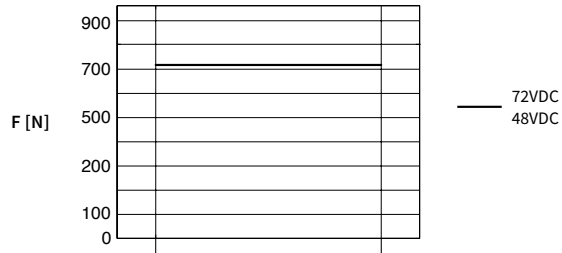
Slider High Clearance

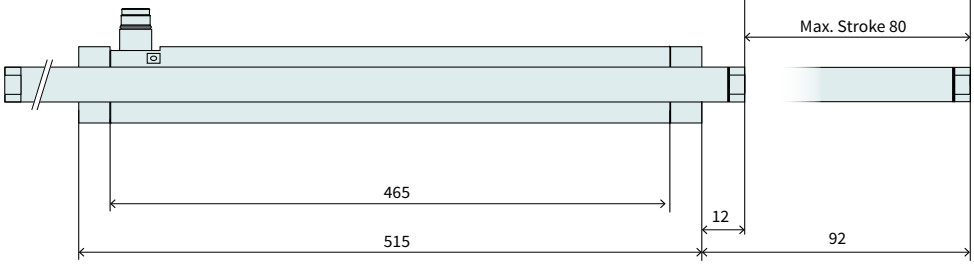


Slider High Clearance			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-27x620/540	Slider 'High Clearance'	80	0150-1470
PL01-27x710/630	Slider 'High Clearance'	170	0150-1471
PL01-27x800/720	Slider 'High Clearance'	260	0150-1472
PL01-27x920/840	Slider 'High Clearance'	380	0150-1447
PL01-27x1010/930	Slider 'High Clearance'	470	0150-1473
PL01-27x1220/1140	Slider 'High Clearance'	680	0150-1587
PL01-27x1400/1320	Slider 'High Clearance'	860	0150-1588

P01-48x360F/80-PB25-SSC

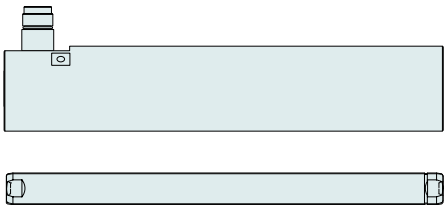
Max. Stroke: 80 mm
Peak Force: 721 N





Dimensions in mm

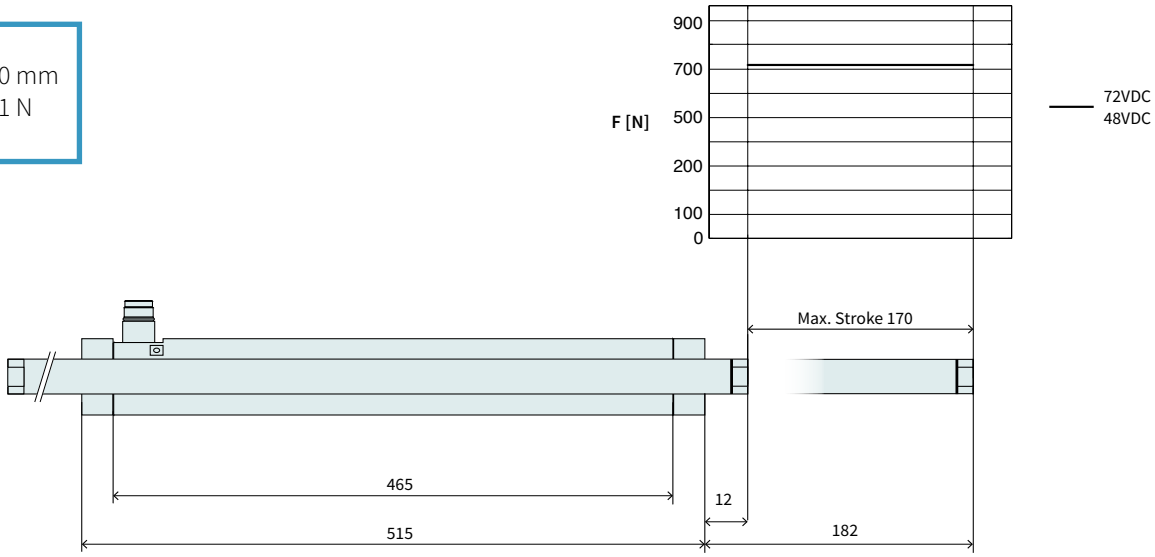
Technical Data P01-48x360F/80-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	80	(3.14)
Force				
Max. Force @ 48VDC	N	(lbf)	721	(162)
Max. Force @ 72VDC	N	(lbf)	721	(162)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	130 / - / 350	(29 / - / 80)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	27.7	(6.24)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(62.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(93.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 1.05	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.6 / - / 13	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / - / 0.17	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1900 / - / 240	
Mechanical Data				
Slider Length	mm	(in)	620	(24)
Slider Mass	g	(lb)	2530	(5.57)



Item	Description	Item-No.
PS01-48x360F-SSC-C	Stator Stainless Steel IP69K	0150-1270
PS01-48x360F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1271
PL01-27x620/540	Slider 'High Clearance'	0150-1470

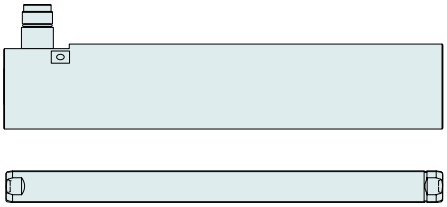
P01-48x360F/170-PB25-SSC

Max. Stroke: 170 mm
Peak Force: 721 N



Dimensions in mm

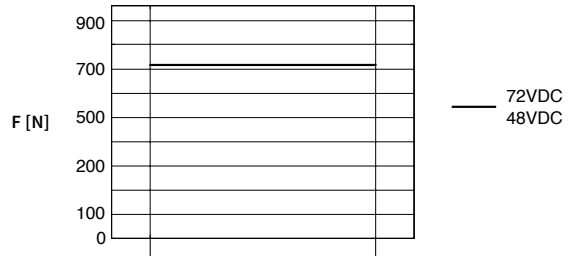
Technical Data P01-48x360F/170-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	170	(6.69)
Force				
Max. Force @ 48VDC	N	(lbf)	721	(162)
Max. Force @ 72VDC	N	(lbf)	721	(162)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	130 / - / 350	(29 / - / 80)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	27.7	(6.24)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(62.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(93.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.55	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.6 / - / 13	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / - / 0.17	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1900 / - / 240	
Mechanical Data				
Slider Length	mm	(in)	710	(28)
Slider Mass	g	(lb)	2920	(6.42)

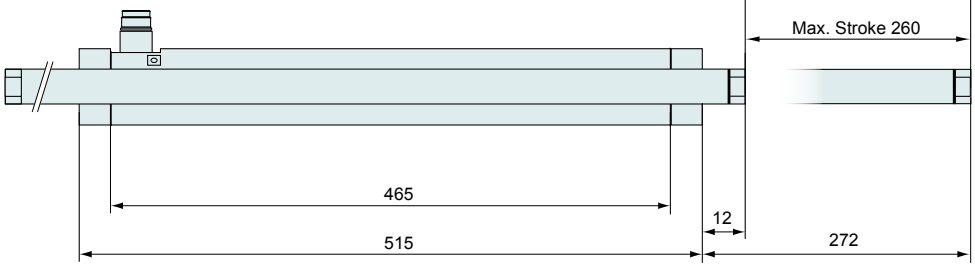


Item	Description	Item-No.
PS01-48x360F-SSC-C	Stator Stainless Steel IP69K	0150-1270
PS01-48x360F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1271
PL01-27x710/630	Slider 'High Clearance'	0150-1471

P01-48x360F/260-PB25-SSC

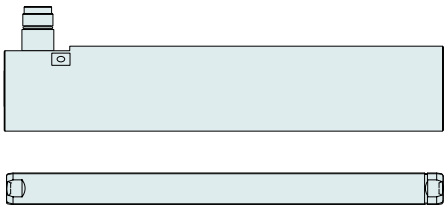
Max. Stroke: 260 mm
Peak Force: 721 N





Dimensions in mm

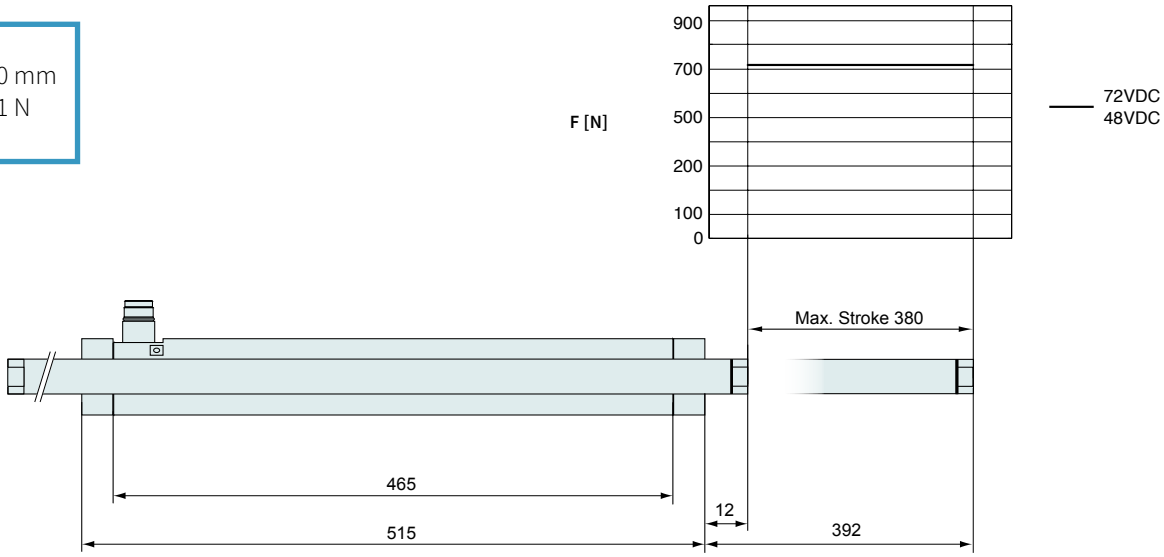
Technical Data P01-48x360F/260-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	260	(10.19)
Force				
Max. Force @ 48VDC	N	(lbf)	721	(162)
Max. Force @ 72VDC	N	(lbf)	721	(162)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	130 / - / 350	(29 / - / 80)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	27.7	(6.24)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(62.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(93.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.4	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.6 / - / 13	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / - / 0.17	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1900 / - / 240	
Mechanical Data				
Slider Length	mm	(in)	800	(31)
Slider Mass	g	(lb)	3310	(7.28)



Item	Description	Item-No.
PS01-48x360F-SSC-C	Stator Stainless Steel IP69K	0150-1270
PS01-48x360F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1271
PL01-27x800/720	Slider 'High Clearance'	0150-1472

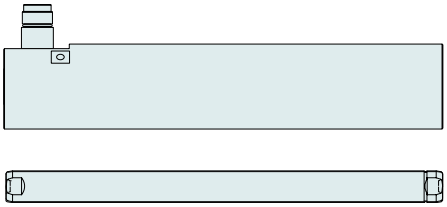
P01-48x360F/380-PB25-SSC

Max. Stroke: 380 mm
Peak Force: 721 N



Dimensions in mm

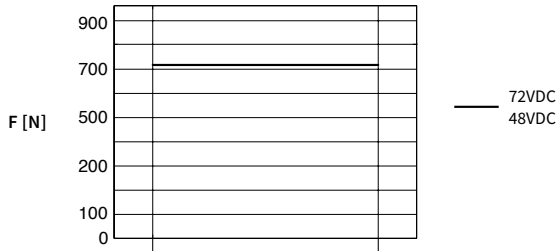
Technical Data P01-48x360F/380-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	380	(14.99)
Force				
Max. Force @ 48VDC	N	(lbf)	721	(162)
Max. Force @ 72VDC	N	(lbf)	721	(162)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	130 / - / 350	(29 / - / 80)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	27.7	(6.24)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(62.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(93.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.6 / - / 13	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / - / 0.17	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1900 / - / 240	
Mechanical Data				
Slider Length	mm	(in)	920	(36)
Slider Mass	g	(lb)	3830	(8.43)

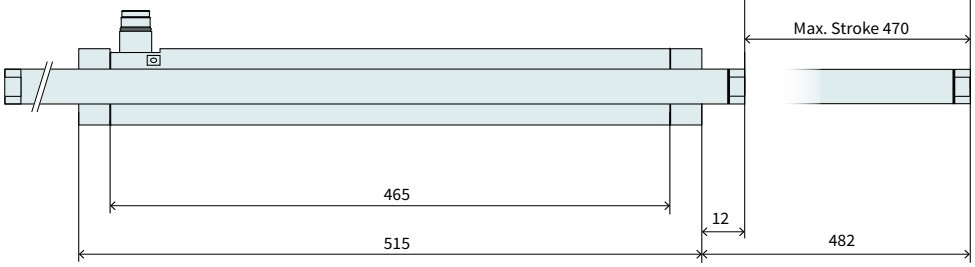


Item	Description	Item-No.
PS01-48x360F-SSC-C	Stator Stainless Steel IP69K	0150-1270
PS01-48x360F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1271
PL01-27x920/840	Slider 'High Clearance'	0150-1447

P01-48x360F/470-PB25-SSC

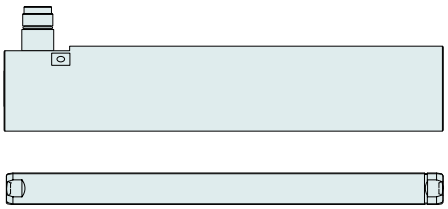
Max. Stroke: 470 mm
Peak Force: 721 N





Dimensions in mm

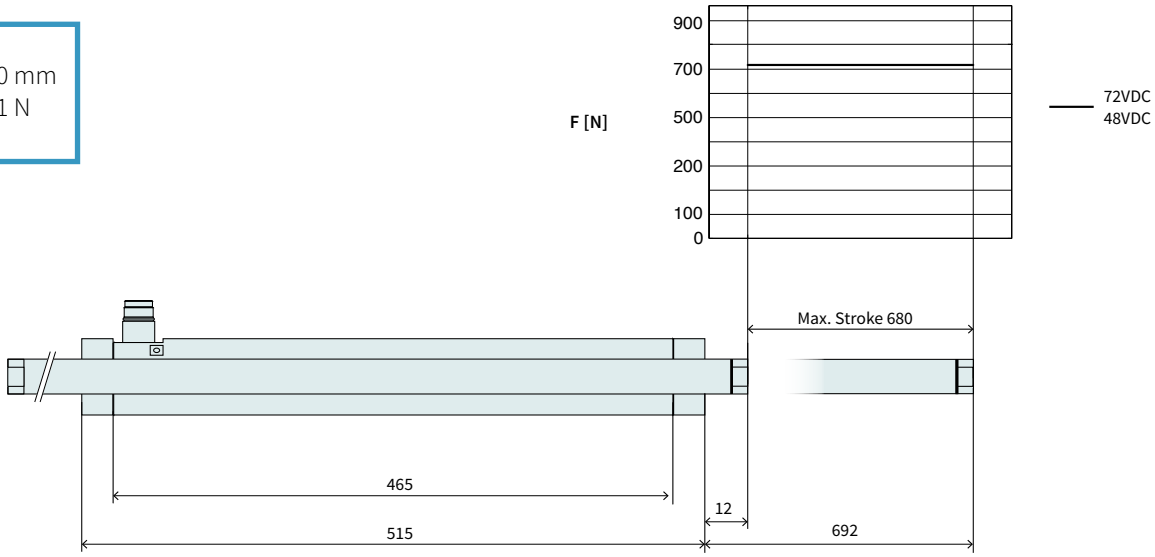
Technische Daten P01-48x360F/470-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	470	(18.49)
Force				
Max. Force @ 48VDC	N	(lbf)	721	(162)
Max. Force @ 72VDC	N	(lbf)	721	(162)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	130 / - / 350	(29 / - / 80)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	27.7	(6.24)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(62.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(93.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.6 / - / 13	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / - / 0.17	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1900 / - / 240	
Mechanical Data				
Slider Length	mm	(in)	1010	(40)
Slider Mass	g	(lb)	4220	(9.28)



Item	Description	Item-No.
PS01-48x360F-SSC-C	Stator Stainless Steel IP69K	0150-1270
PS01-48x360F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1271
PL01-27x1010/930	Slider 'High Clearance'	0150-1473

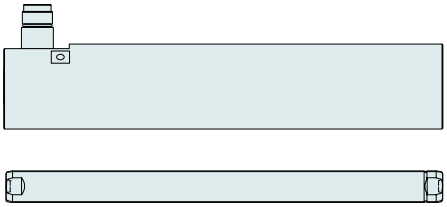
P01-48x360F/680-PB25-SSC

Max. Stroke: 680 mm
Peak Force: 721 N



Dimensions in mm

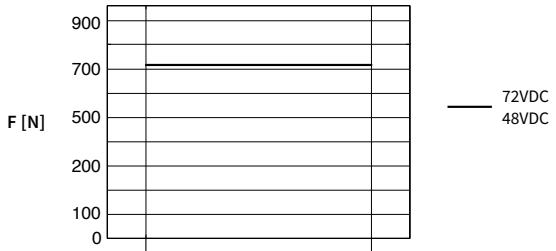
Technical Data P01-48x360F/680-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	680	(26.8)
Force				
Max. Force @ 48VDC	N	(lbf)	721	(162)
Max. Force @ 72VDC	N	(lbf)	721	(162)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	130 / - / 350	(29 / - / 80)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	27.7	(6.24)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(62.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(93.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.6 / - / 13	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / - / 0.17	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1900 / - / 240	
Mechanical Data				
Slider Length	mm	(in)	1220	(48)
Slider Mass	g	(lb)	5130	(11.29)

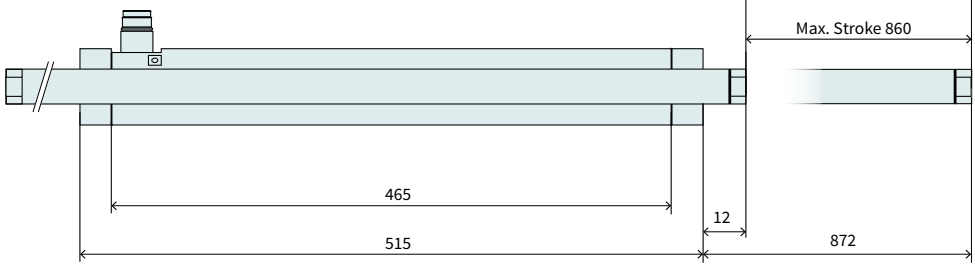


Item	Description	Item-No.
PS01-48x360F-SSC-C	Stator Stainless Steel IP69K	0150-1270
PS01-48x360F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1271
PL01-27x1220/1140	Slider 'High Clearance'	0150-1587

P01-48x360F/860-PB25-SSC

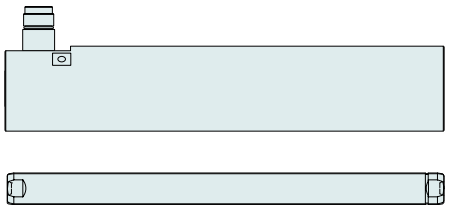
Max. Stroke: 860 mm
Peak Force: 721 N





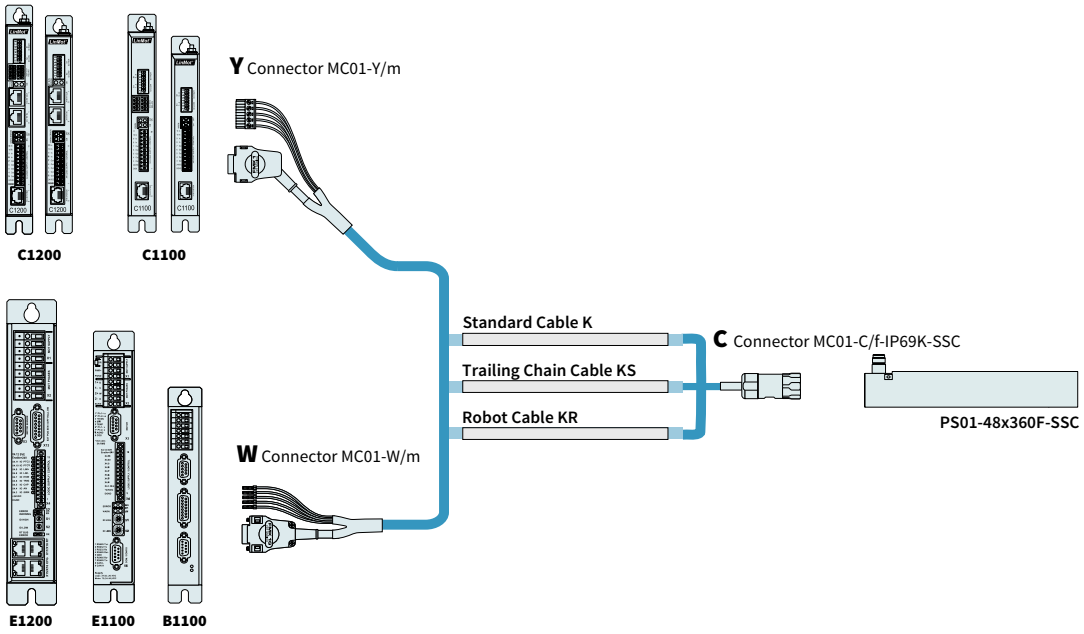
Dimensions in mm

Technical Data P01-48x360F/860-PB25-SSC				
Stroke				
Max. Stroke	mm	(in)	860	(33.89)
Force				
Max. Force @ 48VDC	N	(lbf)	721	(162)
Max. Force @ 72VDC	N	(lbf)	721	(162)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	130 / - / 350	(29 / - / 80)
Max. Border Force relative	%		100	
Force Constant	N/A_{pk}	(lbf/A_{pk})	27.7	(6.24)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(62.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(93.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		25.9	
Max. Current @ 72VDC	A_{pk}		25.9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		4.6 / - / 13	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / - / 0.17	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1900 / - / 240	
Mechanical Data				
Slider Length	mm	(in)	1400	(55)
Slider Mass	g	(lb)	5910	(13)



Item	Description	Item-No.
PS01-48x360F-SSC-C	Stator Stainless Steel IP69K	0150-1270
PS01-48x360F-SSC-C-FC	Stator stainless steel IP69K, FC	0150-1271
PL01-27x1400/1320	Slider 'High Clearance'	0150-1588

Motor Cable



ORDERING INFORMATION

STANDARD CABLE		
Item	**Description**	**Item-No.**
K15-W/C-SSC	Motor Cable W/C-SSC, Custom length	0150-3539
K15-Y-Fe/C-SSC-	Motor Cable Y-Fe/C-SSC, Custom length	0150-3630

TRAILING CHAIN CABLE		
Item	**Description**	**Item-No.**
KS10-W/C-SSC-2	Trailing Chain Cable W/C-SSC, 2 m	0150-2675
KS10-W/C-SSC-4	Trailing Chain Cable W/C-SSC, 4 m	0150-2676
KS10-W/C-SSC-6	Trailing Chain Cable W/C-SSC, 6 m	0150-2677
KS10-W/C-SSC-8	Trailing Chain Cable W/C-SSC, 8 m	0150-2678
KS10-W/C-SSC-	Trailing Chain Cable W/C-SSC, Custom length	0150-3358
KS10-Y/C-SSC-2	Trailing Chain Cable Y/C-SSC, 2 m	0150-2679
KS10-Y/C-SSC-4	Trailing Chain Cable Y/C-SSC, 4 m	0150-2680
KS10-Y/C-SSC-6	Trailing Chain Cable Y/C-SSC, 6 m	0150-2681
KS10-Y/C-SSC-8	Trailing Chain Cable Y/C-SSC, 8 m	0150-2682
KS10-Y-Fe/C-SSC-	Trailing Chain Cable Y/C-SSC, Custom length	0150-3574

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

CONNECTOR & CABLE (INDIVIDUAL)		
Item	**Description**	**Item-No.**
MC01-W/m	Motor Connector W/m	0150-3140
MC01-Y-Fe/m	Motor Connector Y-Fe/m	0150-3289
MC01-C/f-IP69K-SSC	Motor Connector C/f, IP69K, SSC	0150-3306
K15-04/05	Motor Cable per m	0150-1978
KS10-04/05	Trailing Chain Cable per m	0150-1977
KR10-04/05	Robot Cable per m	0150-1830

SLIDER MOUNTING

Item	Description	Item-No.
PLF01-28-SS	Fixed Bearing Set for 27 mm and 28 mm Slider, Stainless steel	0150-3297
PLL01-27	Floating support for PL01-27 sliders	0150-3294

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KITS

Item	Description	Item-No.
PB01-48x25-80-P-SSC	Bearing for PS01-48x360-SSC, (stainless steel)	0150-3413

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

EXTERNAL POSITION SENSORS

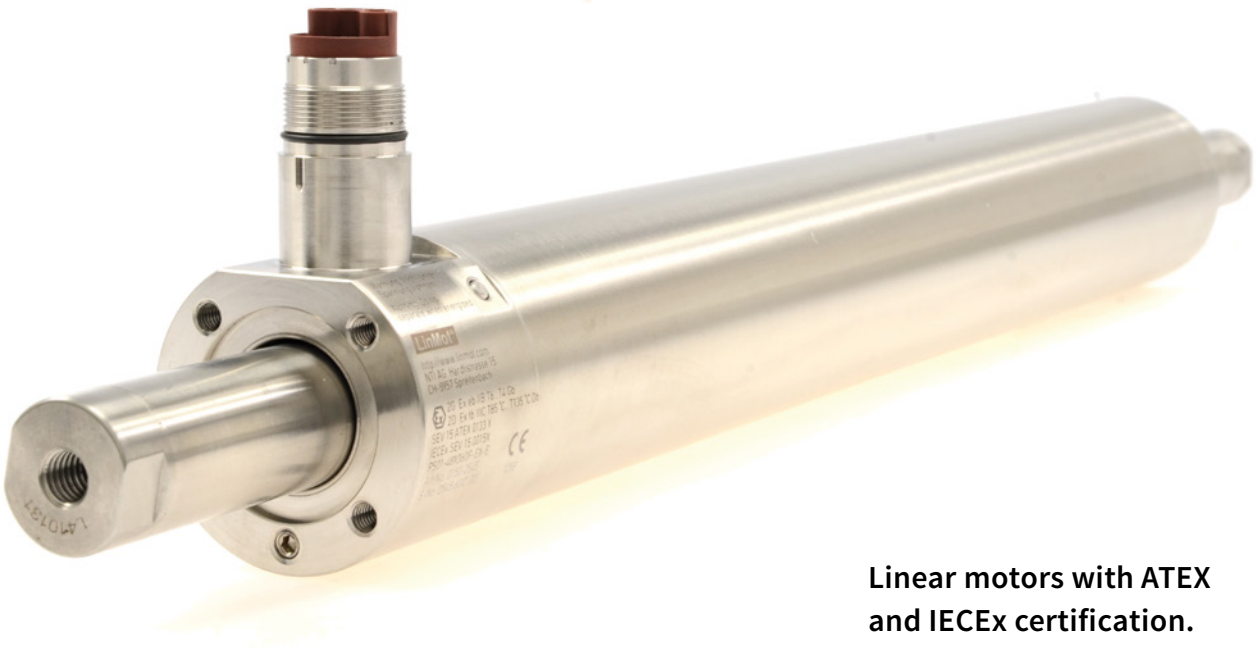
Item	Description	Item-No.
MS01-1/D	Linear Encoder 1µm, A/B (for incremental strip)	0150-1840
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	0150-1963
KS025-D/D-Encoder	Special cable KS025-D/D-Encoder- (Length in m)	0150-3166
KS025-D/D15-Encoder	Special cable KS025-D15/D-Encoder- (Length in 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 straigth	0150-3616
KSS01-12-D15/ABS-ENC	For MS01-1/D-SSI on C1100/C1200/C1400/E1200/E1400 Drives	0150-3652

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

LINEAR MOTORS ATEX



Linear motors with ATEX and IECEx certification.

Product Description

Wherever explosive gases or vapors are mixed with air, or flammable dust can occur, drives with enhanced protective mechanisms are required.

For this purpose, LinMot series P01–48 linear motors have been developed and certified as EX protected motors in accordance with directive 94/9/EC. Device classifications 2G and 2D mean that the devices can be used in an explosive atmosphere consisting of gases, vapors, mist, or dust in zones 1/21 and 2/22.

The drives are thus optimally designed for use in printing machines, painting lines, plastic-processing machines, or in the chemical or pharmaceutical field.

The ATEX family of motors consists of two sizes for which a wide range of slider lengths is available. The stroke length ranges up to 980 mm, along which a peak force of 720 N can be achieved.

Safely protected in ATEX environments

The ATEX motors are completely encapsulated in stainless steel and do not require seals. All joint connections are welded. To completely seal off the motor, the windings and other internal components of the stator are potted in epoxy resin. This guarantees optimal protection of the motor and eliminates the risk of electrical arcing. The motors have been designed to be very compact and have no unnecessary edges, corners, holes, or threaded connections, so there is no place where explosive material could collect. This eliminates additional potential sources of ignition and the risk of non-uniform heating is greatly minimized. Even in environments with a low ignition temperature (> 85 °C), LinMot ATEX motors are permitted to be used.

ADDITIONAL TEMPERATURE MONITORING

In addition to sensors for monitoring the winding temperature in the stator of the ATEX motor, additional temperature sensors are installed under the motor housing.

This allows 2-channel temperature monitoring of the motor. If the motor should overheat due to an error, the drive feed is interrupted by the higher-level channel. The technical safety concept of the LinMot ATEX motors is such that no further certified elements are required in the explosion hazard zone other than the motor and the feed cable.

INTEGRATED WATER COOLING

LinMot's ATEX linear motors can optionally be supplied with integrated water cooling. The stator is enclosed by the cooling system along its entire length.

The heat losses generated in the motor are dissipated through the liquid cooling system. This increases the rated power of the motor several times over in comparison with the self-cooled version. Due to the lower surface temperature of the motor, it can also be used in an explosive atmosphere with a lower ignition temperature.

HIGH AND CONTROLLED DYNAMICS

Max. acceleration values over 400 m/s^2 and travel speeds over 3 m/s allow cyclical motion sequences of several Hertz.

For handling applications with sensitive products, such as transporting wafers in semiconductor production, very gentle, smooth motions with suitable accelerations can be obtained.

FREELY POSITIONABLE

LinMot linear motors can be freely positioned. With absolute or relative movement commands, they can move to any desired position in the stroke range. Since the LinMot linear drive is a closed-loop system, not only the end positions are monitored, but also deviations in position during travel. This allows, among other things, precise specification of travel speeds, acceleration and braking ramps, and travel through curved paths.

PROCESS STABILITY

Since not only the end position, but also speed and acceleration are controlled and monitored, motions that are programmed once are carried out the same way over the entire life of the machine.

MOTOR CONNECTOR

For the purpose of complete encapsulation, the plug is welded to the housing of the motor. The plug is made of stainless steel and is tightened with a coupling nut. At the same time the protection class IP 66/67 is fulfilled. To protect an outgoing spark, the motor plug and the cable plug are securely screwed together.

SYNCHRONIZATION

For synchronous machines, the linear motor can be synchronized to the main shaft. By replacing mechanical cam discs with LinMot linear motors, for example, great variations can be achieved, with format changeovers at the push of a button.

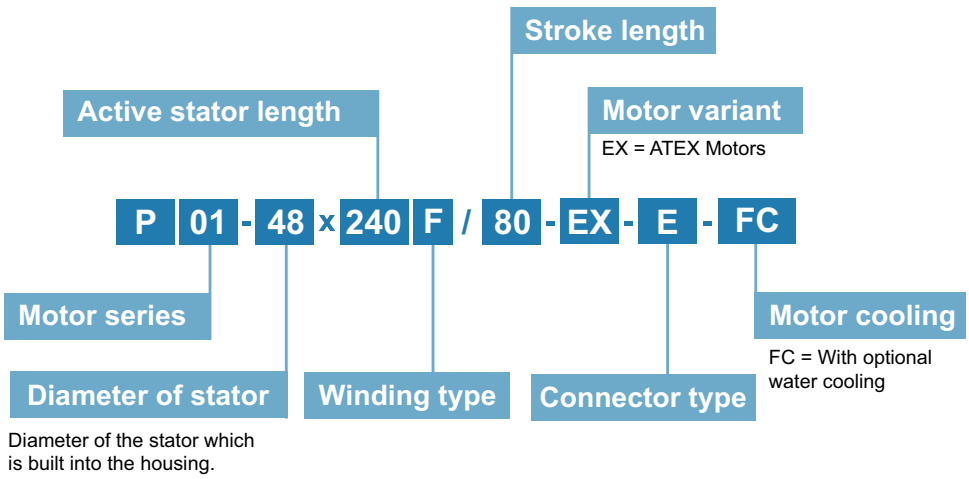
OVERLOAD PROTECTION

There are no mechanical components for force transfer that could be damaged in a crash or stall condition in a linear motor. Complex, expensive designs to protect gearboxes, gears, and shafts are thus eliminated. If the linear motor stalls, it acts like a pneumatic cylinder and tries to reach the target position with a defined force. The following error monitor in the drive can, however, immediately recognize a stall condition. Temperature sensors integrated in the stator prevent the drive from overloading in any case.

LONG LIFESPAN

Since the linear motion is generated purely magnetically, and no mechanical force transmission takes place, even extremely dynamic applications can be implemented with a long lifespan.

Type Code



For explanations of the terms, please refer to the section "Glossary"