LINEAR MOTORS P01-37x240F

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

LINEAR MOTORS P01-37x240F

Technical Data ____ **295**

Motor Specifications

P01-37x240F/80x120-LC ____ **298**

P01-37x240F/20x180-LC ____ **299**

P01-37x240F/80x280-LC ____ **300**

P01-37x240F/180x380-LC ____ **301**

P01-37x240F/280x480-LC ____ **302**

P01-37x240F/380x580-LC ____ **303**

P01-37x240F/480x680-LC ____ **304**

P01-37x240F/580x780-LC ____ **305**

P01-37x240F/680x880-LC ____ **306**

P01-37x240F/880x1080-LC ____ **307**

P01-37x240F/1080x1280-LC ____ **308**

P01-37x240F/1280x1480-LC ____ **309**

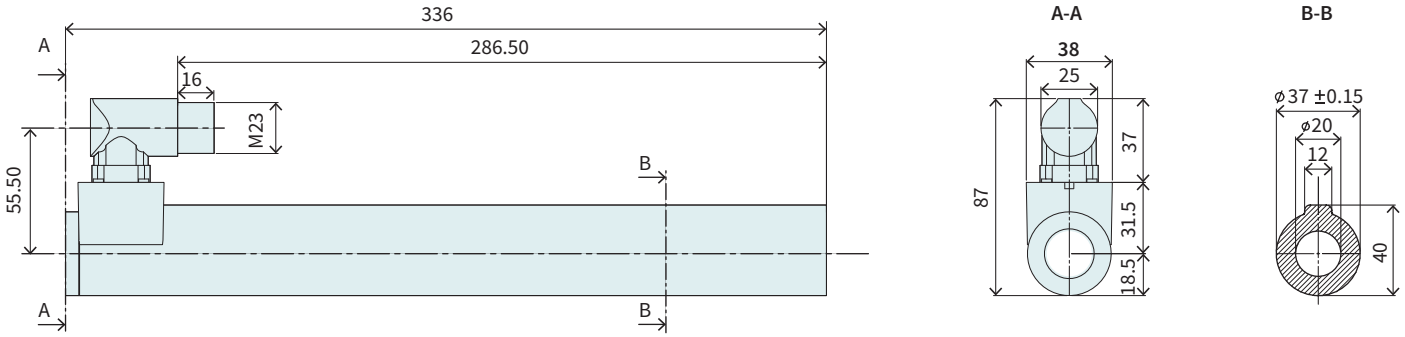
Linear Guides ____ **310**

Accessories ____ **312**

MOTOR FAMILY P01-37x240F

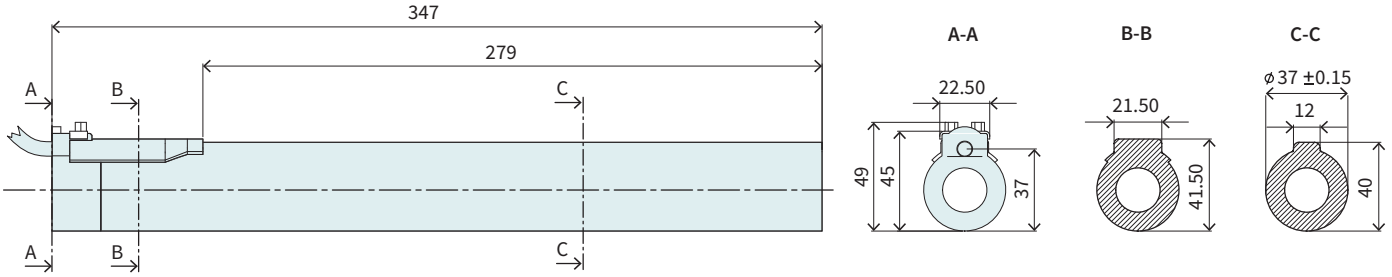
Technical Data				
Stroke				
Standard Stroke (SS)	mm	(in)	≤ 1280	(≤ 50.4)
Extended Stroke (ES)	mm	(in)	≤ 1480	(≤ 58.3)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		≤ 88	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
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}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Terminal Resistance 25 °C / 120 °C	Ohm		4.9 / 6.7	
Terminal Inductivity	mH		2.4	
Magnetic Period	mm	(in)	40	(1.57)
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Stator Diameter	mm	(in)	37	(1.5)
Stator Length [Connector type / Cable type]	mm	(in)	336 / 347	(13 / 14)
Stator Mass	g	(lb)	1385	(3.05)
Slider Diameter	mm	(in)	20	(0.79)
Slider Length	mm	(in)	240 - 1600	(9.4 - 63)
Slider Mass	g	(lb)	490 - 3620	(1.08 - 7.96)
IP Code			IP 65	

STATOR CONNECTOR TYPE



Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225

STATOR CABLE TYPE

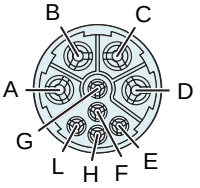


Item	Description	Item-No.
PS01-37x240F	Stator, 1.5m Cable, Connector P/10(m)	0150-1256
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239

CONNECTOR

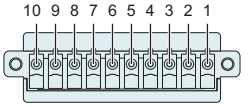
Motor Connector Wiring	PS01-37x240F-C PS01-37x240F-C20	PS01-37x240F	Wire color motor cable
	C-Connector	P-Connector	
Ph 1+	A	1	red
Ph 1-	B	2	pink
Ph 2+	C	3	blue
Ph 2-	D	4	grey
+5VDC	E	5	white
GND	F	6	inner shield
Sin	G	7	yellow
Cos	H	8	green
Temp.	L	9	black
Shield	Housing	10	outer Shield

C-Connector



View: Motor Connector, plug side

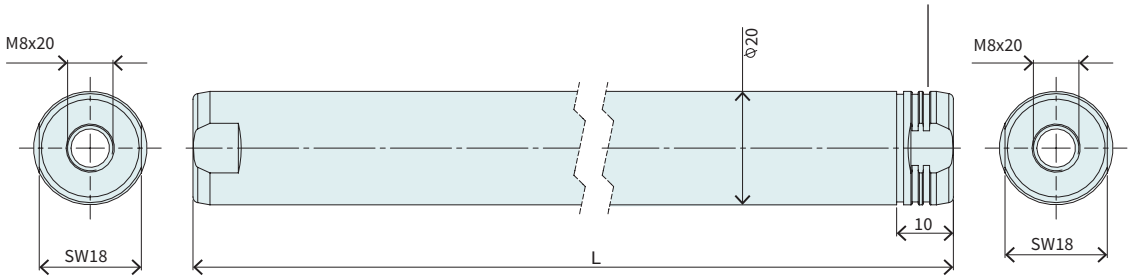
P-Connector



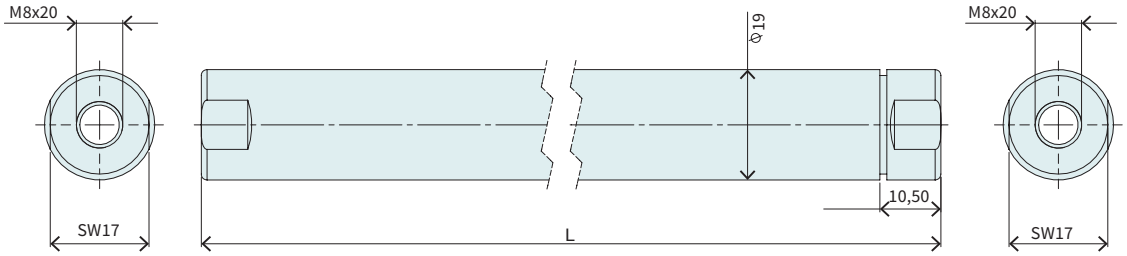
SLIDER

Slider Standard / Heavy Duty

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



High-Clearance Slider



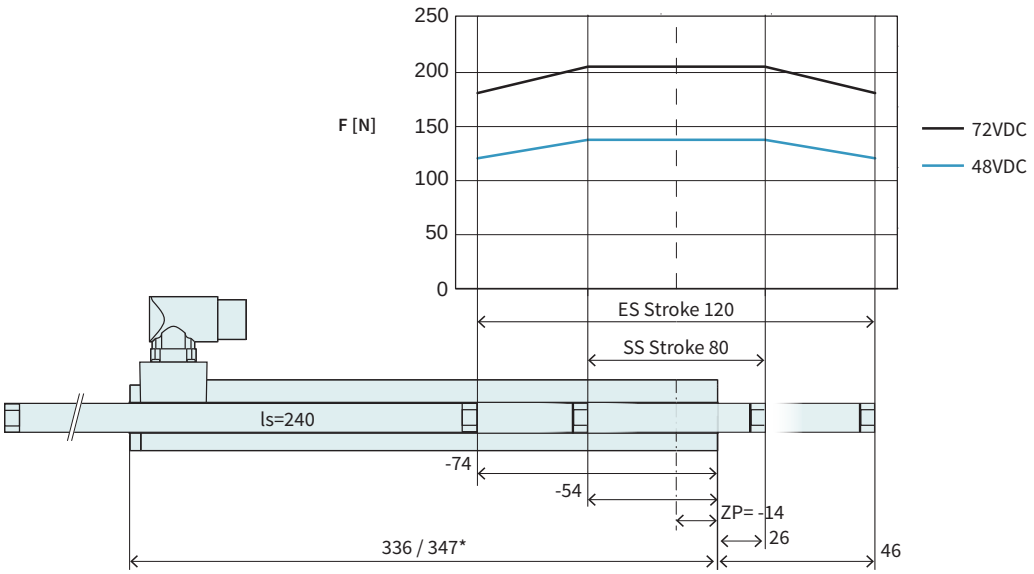
Slider Standard				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-20x240/180-LC	Slider 'standard LC'	120	40	0150-2560
PL01-20x300/240-LC	Slider 'standard LC'	180	100	0150-2561
PL01-20x400/340-LC	Slider 'standard LC'	280	200	0150-2562
PL01-20x500/440-LC	Slider 'standard LC'	380	300	0150-2563
PL01-20x600/540-LC	Slider 'standard LC'	480	400	0150-2564
PL01-20x700/640-LC	Slider 'standard LC'	580	500	0150-2565
PL01-20x800/740-LC	Slider 'standard LC'	680	600	0150-2566
PL01-20x900/840-LC	Slider 'standard LC'	780	700	0150-2567
PL01-20x1000/940-LC	Slider 'standard LC'	880	800	0150-2568
PL01-20x1200/1140-LC	Slider 'standard LC'	1080	1000	0150-2569
PL01-20x1400/1340-LC	Slider 'standard LC'	1280	1200	0150-2570
PL01-20x1600/1540-LC	Slider 'standard LC'	1480	1400	0150-2571

Slider Heavy Duty				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL02-20x240/180-LC	Slider 'heavy duty LC'	120	40	0150-2572
PL02-20x300/240-LC	Slider 'heavy duty LC'	180	100	0150-2573
PL02-20x400/340-LC	Slider 'heavy duty LC'	280	200	0150-2574
PL02-20x500/440-LC	Slider 'heavy duty LC'	380	300	0150-2575
PL02-20x600/540-LC	Slider 'heavy duty LC'	480	400	0150-2576
PL02-20x700/640-LC	Slider 'heavy duty LC'	580	500	0150-2577
PL02-20x800/740-LC	Slider 'heavy duty LC'	680	600	0150-2578
PL02-20x900/840-LC	Slider 'heavy duty LC'	780	700	0150-2579

High-Clearance Slider				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-19x240/160	Slider 'high clearance'	100	80	0150-1448
PL01-19x300/220	Slider 'high clearance'	160	140	0150-1449
PL01-19x395/320	Slider 'high clearance'	260	240	0150-1452
PL01-19x500/420	Slider 'high clearance'	360	340	0150-1455
PL01-19x600/520	Slider 'high clearance'	460	440	0150-1456
PL01-19x700/620	Slider 'high clearance'	560	540	0150-1457

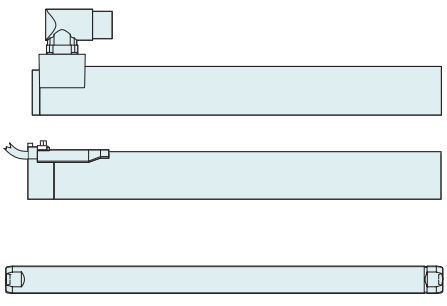
P01-37x240F/80x120-LC

Max. Stroke: 120 mm
Peak Force: 205 N



Dimensions in mm
*Cable Type

Technical Data P01-37x240F/80x120-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	80	(3.14)
Extended Stroke (ES)	mm	(in)	120	(4.71)
Force				
Max. Force @ 48VDC	N	(lbf)	137	(30.8)
Max. Force @ 72VDC	N	(lbf)	205	(46.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	35 / 64 / -	(7.8 / 14 / -)
Max. Border Force relative	%		88	
Force Constant	N/A_{pk}	(lbf/A_{pk})	17.2	(3.87)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	2.5	(99.9)
Max. Velocity @ 72VDC	m/s	(in/s)	3.8	(149.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.5	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	240	(9.4)
Slider Mass	g	(lb)	490	(1.08)

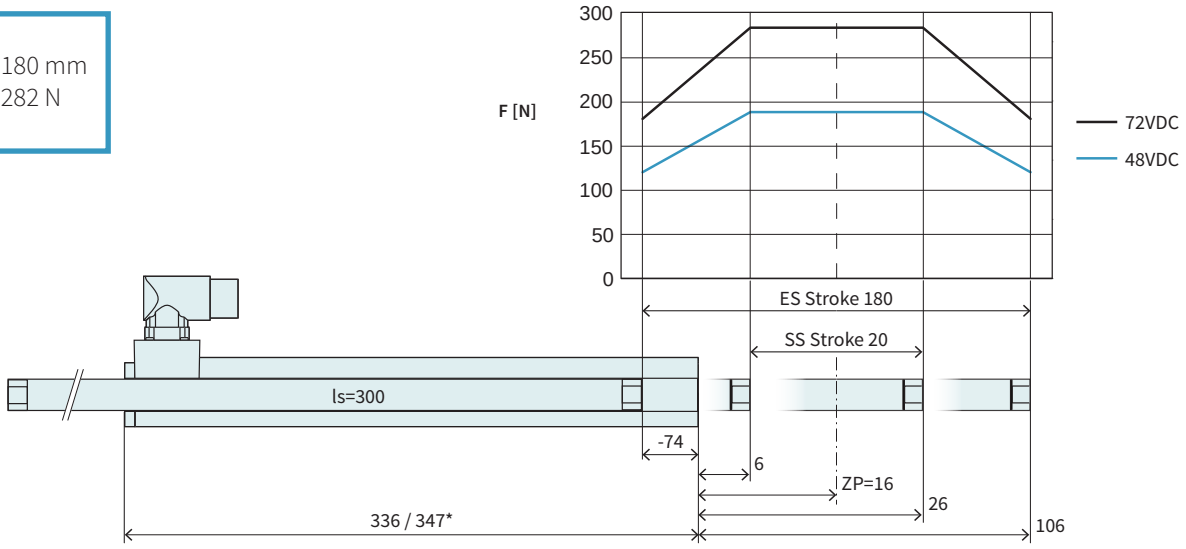


Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x240/180-LC	Slider 'standard LC'	0150-2560
PL02-20x240/180-LC	Slider 'heavy duty LC'	0150-2572
PL01-19x240/160*	Slider 'high clearance'	0150-1448

* With this slider, the motor specifications above change.

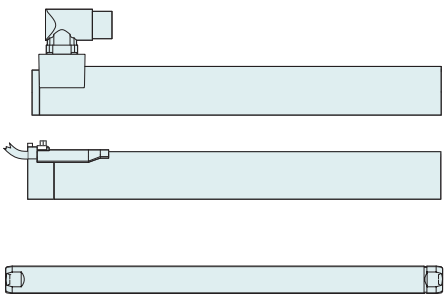
P01-37x240F/20x180-LC

Max. Stroke: 180 mm
Peak Force: 282 N



Dimensions in mm
*Cable Type

Technical Data P01-37x240F/20x180-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	20	(0.78)
Extended Stroke (ES)	mm	(in)	180	(7.08)
Force				
Max. Force @ 48VDC	N	(lbf)	188	(42.3)
Max. Force @ 72VDC	N	(lbf)	282	(63.5)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	48 / 88 / -	(11 / 20 / -)
Max. Border Force relative	%		64	
Force Constant	N/A_{pk}	(lbf/A_{pk})	23.6	(5.32)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.8	(73.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.7	(109.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.4	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	300	(12)
Slider Mass	g	(lb)	630	(1.39)

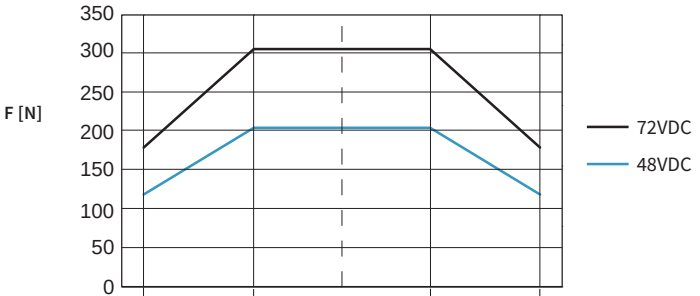


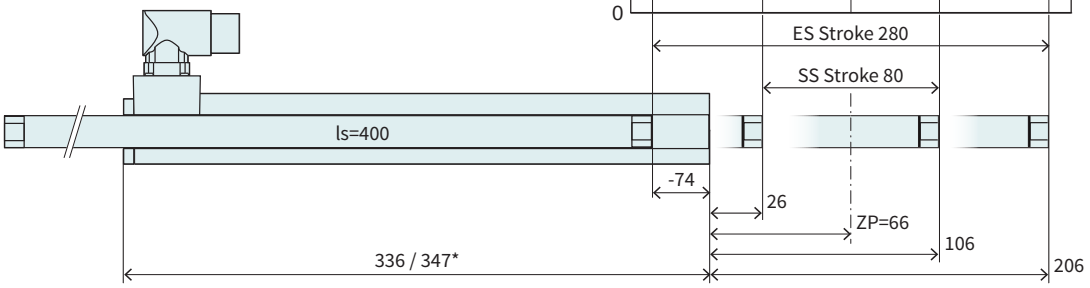
Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x300/240-LC	Slider 'standard LC'	0150-2561
PL02-20x300/240-LC	Slider 'heavy duty LC'	0150-2573
PL01-19x300/220*	Slider 'high clearance'	0150-1449

* With this slider, the motor specifications above change.

P01-37x240F/80x280-LC

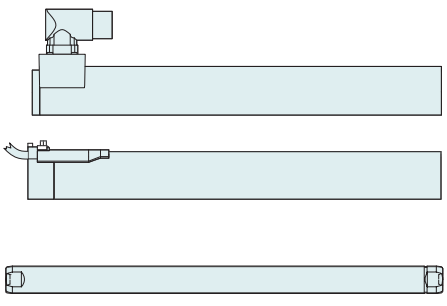
Max. Stroke: 280 mm
Peak Force: 308 N





Dimensions in mm
*Cable Type

Technical Data P01-37x240F/80x280-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	80	(3.14)
Extended Stroke (ES)	mm	(in)	280	(10.99)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	400	(16)
Slider Mass	g	(lb)	860	(1.9)

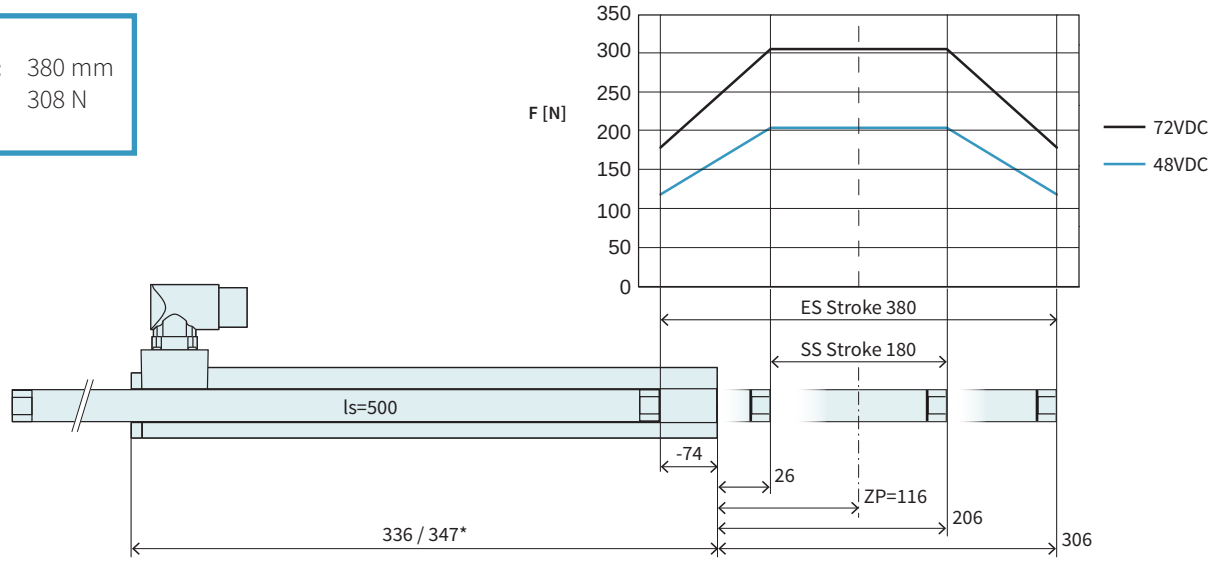


Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x400/340-LC	Slider 'standard LC'	0150-2562
PL02-20x400/340-LC	Slider 'heavy duty LC'	0150-2574
PL01-19x395/320*	Slider 'high clearance'	0150-1452

* With this slider, the motor specifications above change.

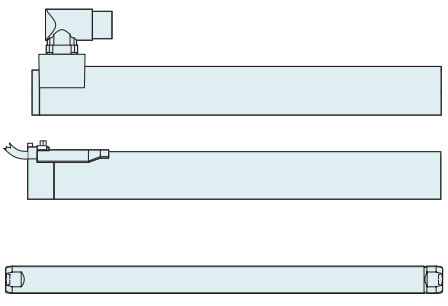
P01-37x240F/180x380-LC

Max. Stroke: 380 mm
Peak Force: 308 N



Dimensions in mm
*Cable Type

Technical Data P01-37x240F/180x380-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	180	(7.08)
Extended Stroke (ES)	mm	(in)	380	(14.99)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	1090	(2.4)

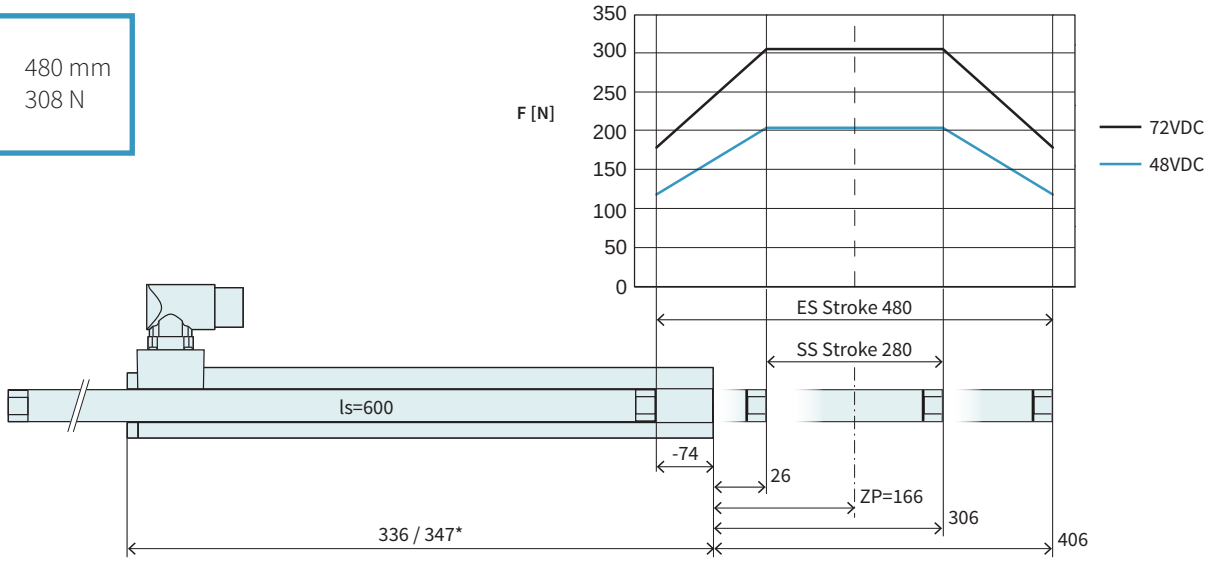


Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x500/440-LC	Slider 'standard LC'	0150-2563
PL02-20x500/440-LC	Slider 'heavy duty LC'	0150-2575
PL01-19x500/420*	Slider 'high clearance'	0150-1455

* With this slider, the motor specifications above change.

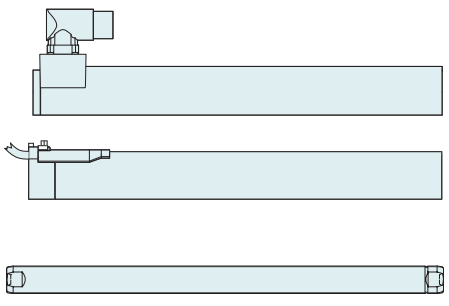
P01-37x240F/280x480-LC

Max. Stroke: 480 mm
Peak Force: 308 N



Dimensions in mm
*Cable Type

Technical Data P01-37x240F/280x480-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	280	(10.99)
Extended Stroke (ES)	mm	(in)	480	(18.89)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	600	(24)
Slider Mass	g	(lb)	1330	(2.93)

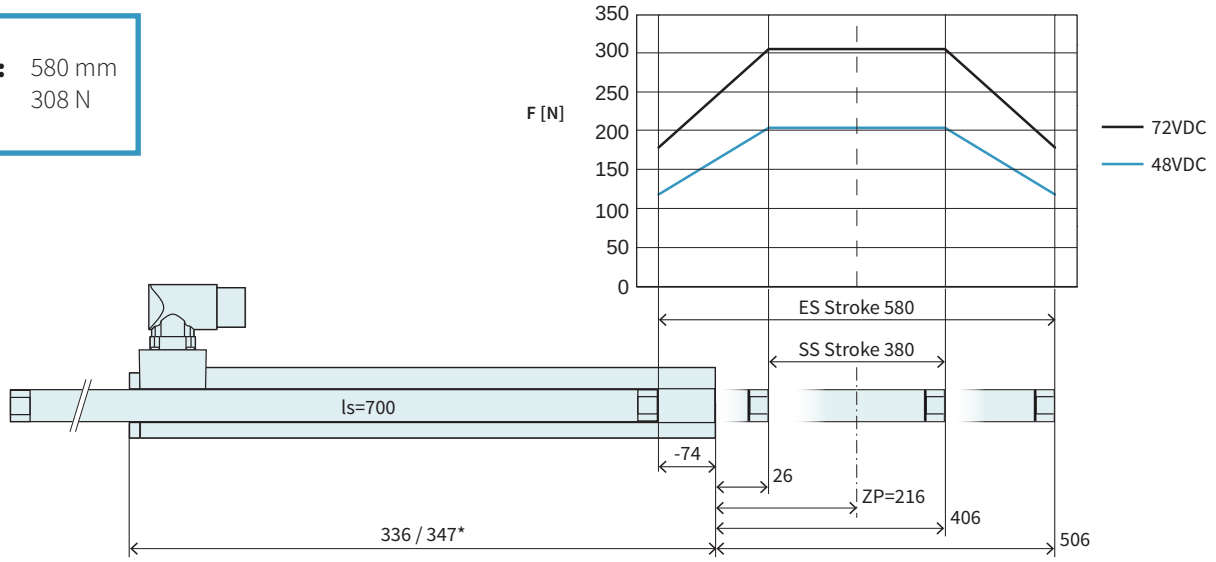


Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x600/540-LC	Slider 'standard LC'	0150-2564
PL02-20x600/540-LC	Slider 'heavy duty LC'	0150-2576
PL01-19x600/520*	Slider 'high clearance'	0150-1456

* With this slider, the motor specifications above change.

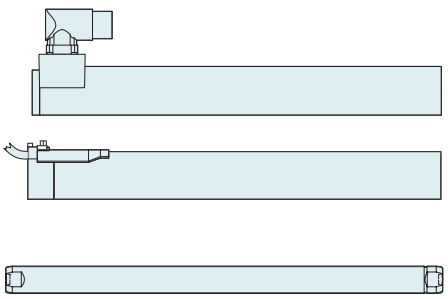
P01-37x240F/380x580-LC

Max. Stroke: 580 mm
Peak Force: 308 N



Dimensions in mm
*Cable Type

Technical Data P01-37x240F/380x580-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	380	(14.99)
Extended Stroke (ES)	mm	(in)	580	(22.8)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	700	(28)
Slider Mass	g	(lb)	1560	(3.43)

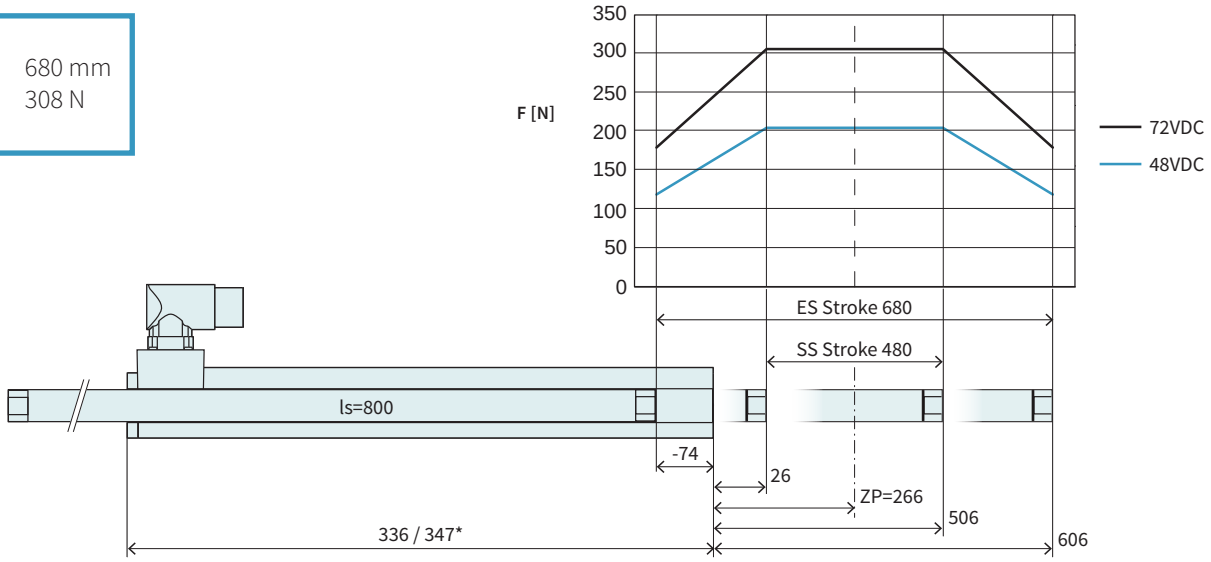


Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x700/640-LC	Slider 'standard LC'	0150-2565
PL02-20x700/640-LC	Slider 'heavy duty LC'	0150-2577
PL01-19x700/620*	Slider 'high clearance'	0150-1457

* With this slider, the motor specifications above change.

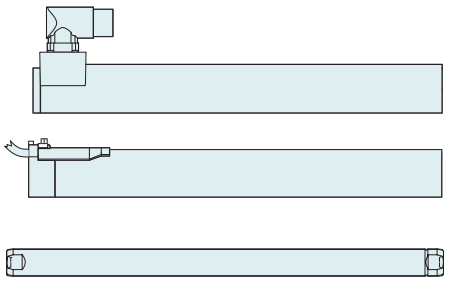
P01-37x240F/480x680-LC

Max. Stroke: 680 mm
Peak Force: 308 N



Dimensions in mm
*Cable Type

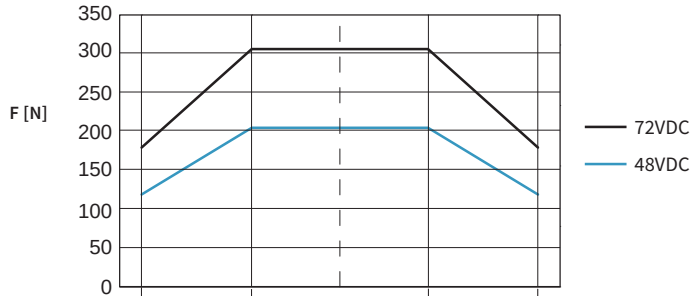
Technical Data P01-37x240F/480x680-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	480	(18.89)
Extended Stroke (ES)	mm	(in)	680	(26.8)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	800	(31)
Slider Mass	g	(lb)	1790	(3.94)

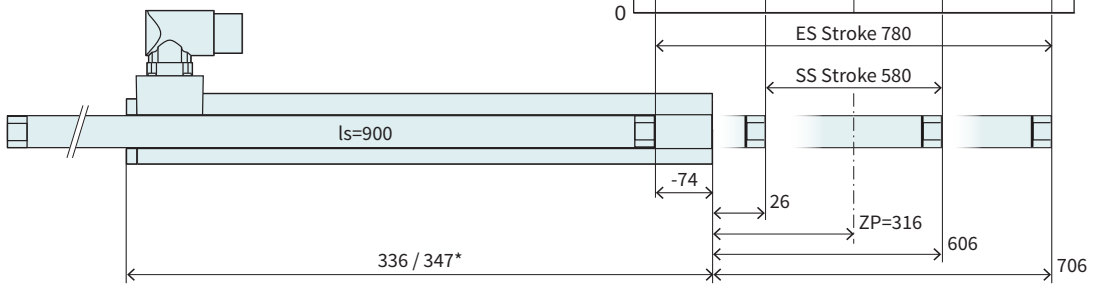


Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x800/740-LC	Slider 'standard LC'	0150-2566
PL02-20x800/740-LC	Slider 'heavy duty LC'	0150-2578

P01-37x240F/580x780-LC

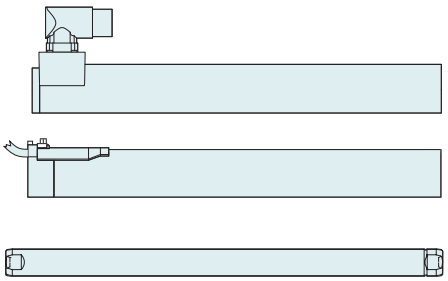
Max. Stroke: 780 mm
Peak Force: 308 N





Dimensions in mm
*Cable Type

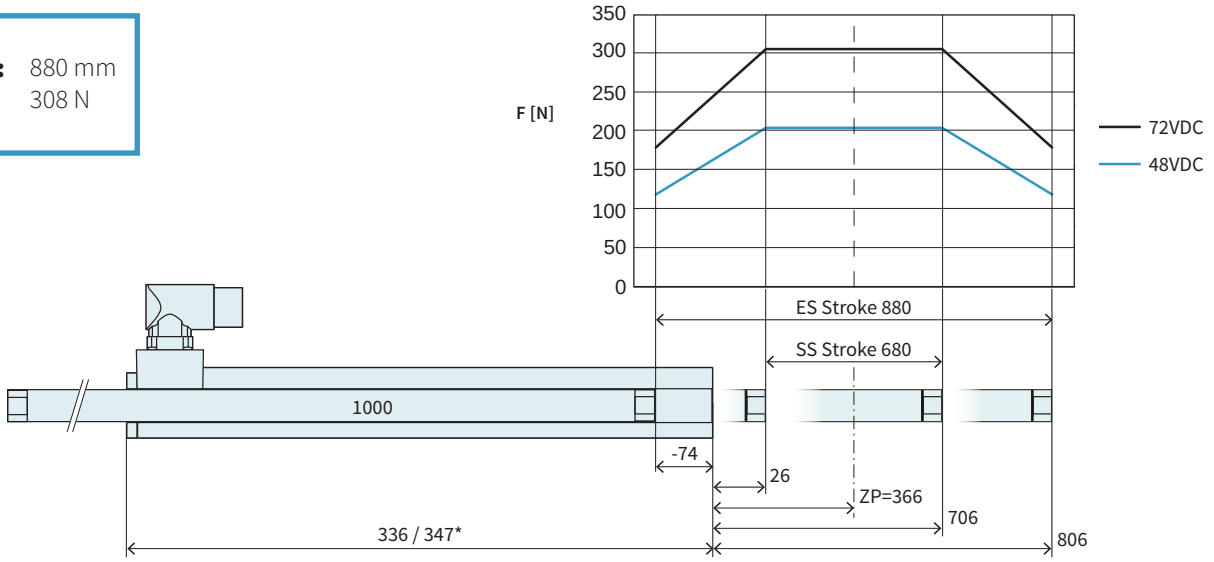
Technical Data P01-37x240F/580x780-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	580	(22.8)
Extended Stroke (ES)	mm	(in)	780	(30.69)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	900	(35)
Slider Mass	g	(lb)	2020	(4.44)



Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x900/840-LC	Slider 'standard LC'	0150-2567
PL02-20x900/840-LC	Slider 'heavy duty LC'	0150-2579

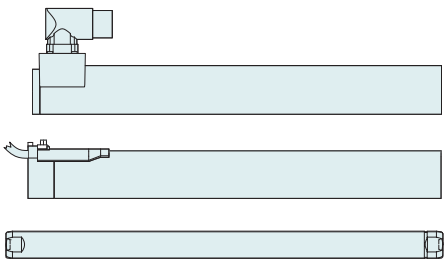
P01-37x240F/680x880-LC

Max. Stroke: 880 mm
Peak Force: 308 N



Dimensions in mm
*Cable Type

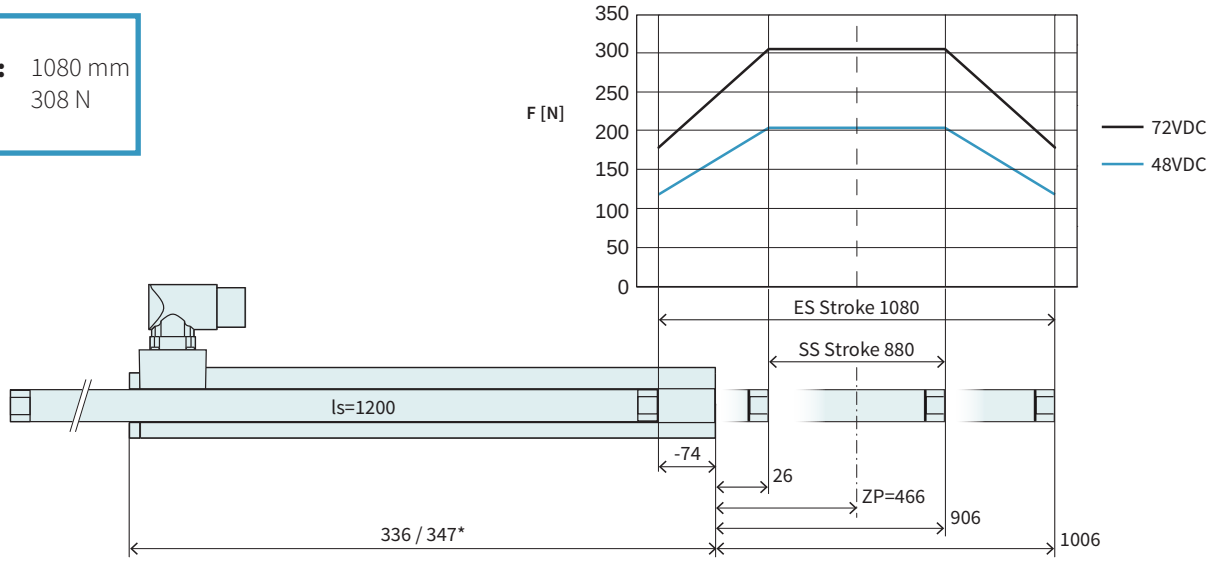
Technical Data P01-37x240F/680x880-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	680	(26.8)
Extended Stroke (ES)	mm	(in)	880	(34.6)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	1000	(39)
Slider Mass	g	(lb)	2230	(4.91)



Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x1000/940-LC	Slider 'standard LC'	0150-2568

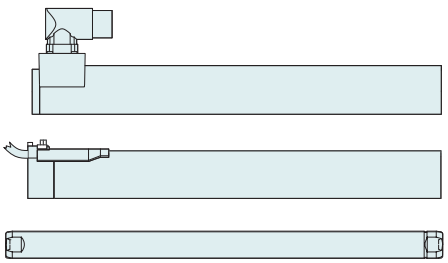
P01-37x240F/880x1080-LC

Max. Stroke: 1080 mm
Peak Force: 308 N



Dimensions in mm
*Cable Type

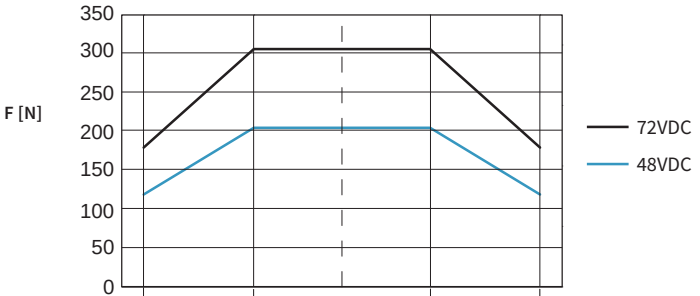
Technical Data P01-37x240F/880x1080-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	880	(34.6)
Extended Stroke (ES)	mm	(in)	1080	(42.49)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	1200	(47)
Slider Mass	g	(lb)	2690	(5.92)

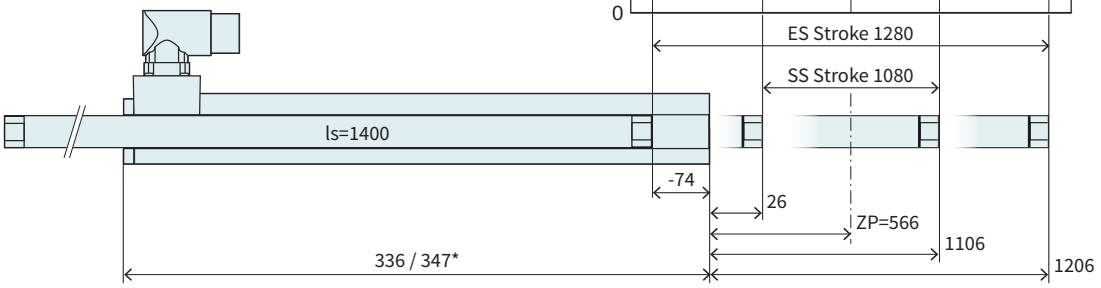


Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x1200/1140-LC	Slider 'standard LC'	0150-2569

P01-37x240F/1080x1280-LC

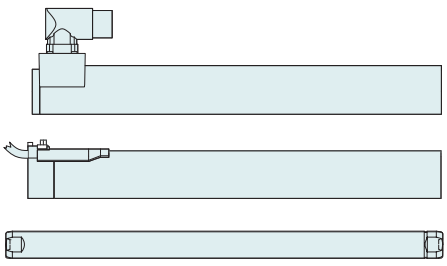
Max. Stroke: 1280 mm
Peak Force: 308 N





Dimensions in mm
*Cable Type

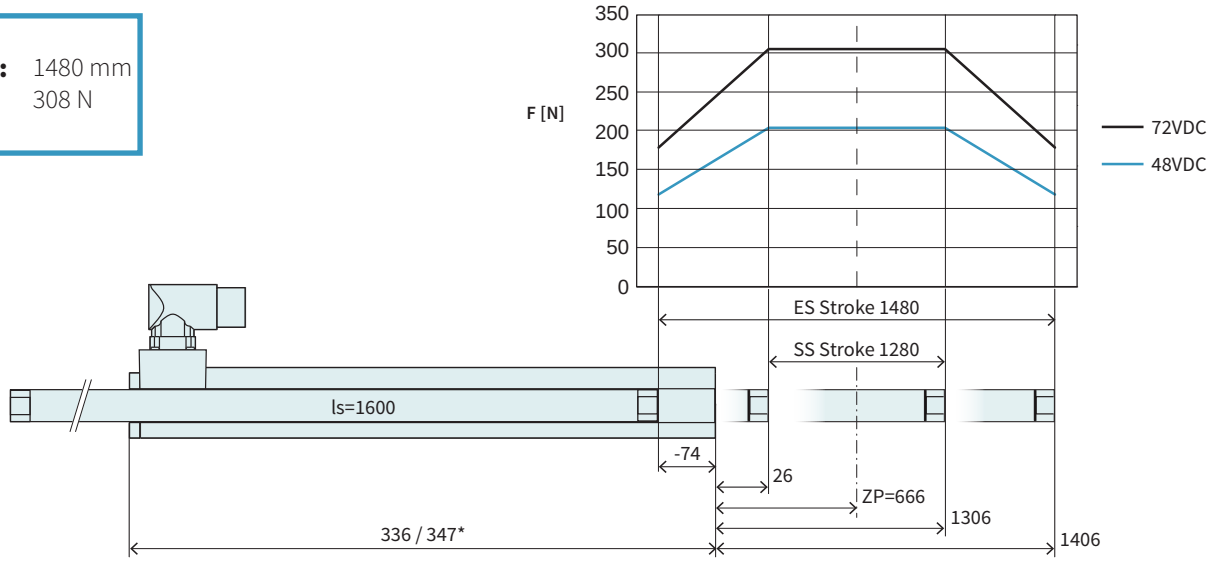
Technical Data P01-37x240F/1080x1280-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	1080	(42.49)
Extended Stroke (ES)	mm	(in)	1280	(50.39)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	1400	(55)
Slider Mass	g	(lb)	3160	(6.95)



Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x1400/1340-LC	Slider 'standard LC'	0150-2570

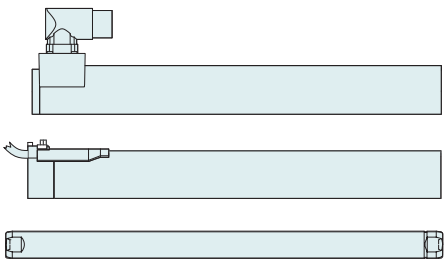
P01-37x240F/1280x1480-LC

Max. Stroke: 1480 mm
Peak Force: 308 N



Dimensions in mm
*Cable Type

Technical Data P01-37x240F/1280x1480-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	1280	(50.39)
Extended Stroke (ES)	mm	(in)	1480	(58.29)
Force				
Max. Force @ 48VDC	N	(lbf)	205	(46.2)
Max. Force @ 72VDC	N	(lbf)	308	(69.2)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%		58	
Force Constant	N/A_{pk}	(lbf/A_{pk})	25.8	(5.8)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(66.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.5	(99.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 48VDC	A_{pk}		7.9	
Max. Current @ 72VDC	A_{pk}		11.8	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A_{pk}		2 / 3.7 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2 / 0.58 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 390 / -	
Mechanical Data				
Slider Length	mm	(in)	1600	(63)
Slider Mass	g	(lb)	3620	(7.9)



Item	Description	Item-No.
PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
PL01-20x1600/1540-LC	Slider 'standard LC'	0150-2571

3

Linear Guides H01

HM01-37x240/60	Linear Module 37x240 with 60 mm Stroke		
H-Guide	H01-37x286/60	H-Guide for P01-37x240, Stroke max 60mm	0150-5023
	H01-37x286/60-GF	H-Guide for P01-37x240, Stroke max 60mm	0150-5083
Stator	PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
	PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
Slider	PL01-20x400/340-LC	Slider 'standard LC'	0150-2562

HM01-37x240/160	Linear Module 37x240 with 160 mm Stroke		
H-Guide	H01-37x286/160	H-Guide for P01-37x240, Stroke max 160mm	0150-5024
	H01-37x286/160-GF	H-Guide for P01-37x240, Stroke max 160mm	0150-5084
Stator	PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
	PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
Slider	PL01-20x500/440-LC	Slider 'standard LC'	0150-2563

HM01-37x240/260	Linear Module 37x240 with 260 mm Stroke		
H-Guide	H01-37x286/260	H-Guide for P01-37x240, Stroke max 260mm	0150-5025
	H01-37x286/260-GF	H-Guide for P01-37x240, Stroke max 260mm	0150-5085
Stator	PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
	PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
Slider	PL01-20x600/540-LC	Slider 'standard LC'	0150-2564

Accessories			
Brake	HB01-37	Pneumatic Brake for H01-37/600N (4-6Bar)	0150-5052
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/H37	Adapter MagSpring 37&20 / H-Guide 37	0250-0117
Centering sleeve	HC01-09/04	Centering sleeve D9x4 mm	0150-3251
Wipers	HA01-27/20-F	Wiper for H01-37 guides, front side	0150-5108

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

Bridge Guide B01

BM01-37x240/140	Bridge Module 37x240 with 140 mm Stroke [1]		
B-Guide	B01-37x286/140	B-Guide for P01-37x240, Stroke max 140mm	0150-5144
	B01-37x286/140-GF	B-Guide for P01-37x240, Stroke max 140mm	0150-5147
Stator	PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
	PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
Slider	PL01-19x500/420	Slider 'high clearance'	0150-1455

BM01-37x240/240	Bridge Module 37x240 with 240 mm Stroke [1]		
B-Guide	B01-37x286/240	B-Guide for P01-37x240, Stroke max 240mm	0150-5145
	B01-37x286/240-GF	B-Guide for P01-37x240, Stroke max 240mm	0150-5148
Stator	PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
	PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
Slider	PL01-19x600/520	Slider 'high clearance'	0150-1456

BM01-37x240/340	Bridge Module 37x240 with 340 mm Stroke [1]		
B-Guide	B01-37x286/340	B-Guide for P01-37x240, Stroke max 340mm	0150-5146
	B01-37x286/340-GF	B-Guide for P01-37x240, Stroke max 340mm	0150-5149
Stator	PS01-37x240F-C	Stator with IP67 Connector M23/9(m)	0150-1225
	PS01-37x240F-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1239
Slider	PL01-19x700/620	Slider 'high clearance'	0150-1457

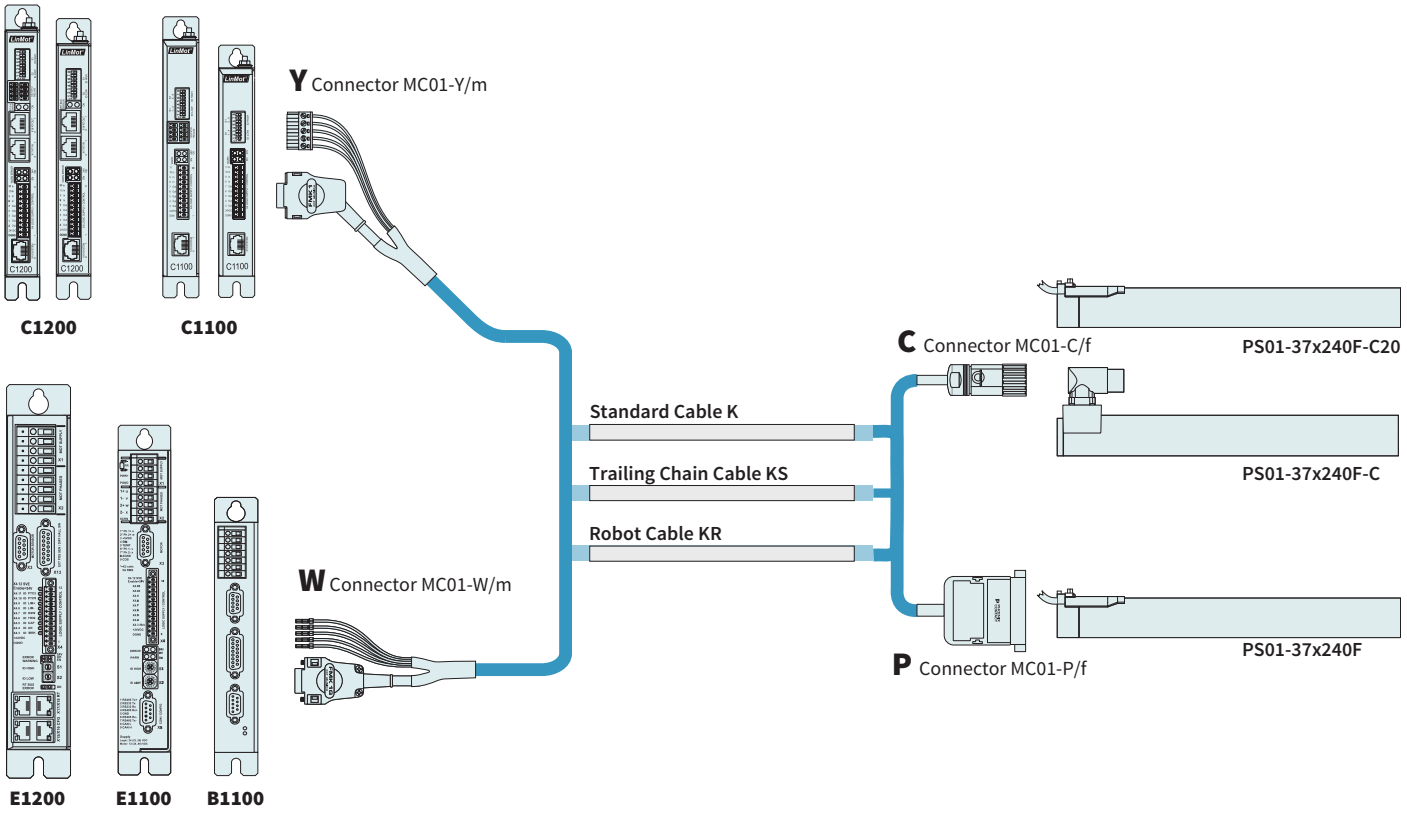
Accessories			
Brake	HB01-37	Pneumatic Brake for H01-37/600N (4-6 Bar)	0150-5052
Fan	HV01-37/48	Fan cooling for H01-37/48 &PF02-37/48	0150-5051
MagSpring	MF01-37/H37	Flange MagSpring 37 / H-Guide 23/37/48	0250-2307
	MA01-37/H37	Adapter MagSpring 37&20 / H-Guide 37	0250-0117
Centering sleeve	HC01-09/04	Centering sleeve D9x4 mm	0150-3251
Wipers	HA01-27/20-F	Wiper for H01-37 guides, front side	0150-5108

[1] The stroke is reduced by 18mm when using cable models.

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

3

Motor Cable



ORDERING INFORMATION

STANDARD CABLE		
Item	**Description**	**Item-No.**
K05-W/C-2	Motor Cable W/C, 2 m	0150-2123
K05-W/C-4	Motor Cable W/C, 4 m	0150-2124
K05-W/C-6	Motor Cable W/C, 6 m	0150-2125
K05-W/C-8	Motor Cable W/C, 8 m	0150-2126
K05-W/C-	Motor Cable W/C, Custom length	0150-3263
K05-Y/C-2	Motor Cable Y/R, 2 m	0150-2425
K05-Y/C-4	Motor Cable Y/R, 4 m	0150-2426
K05-Y/C-6	Motor Cable Y/R, 6 m	0150-2427
K05-Y/C-8	Motor Cable Y/R, 8 m	0150-2428
K05-Y-Fe/C-	Motor Cable Y-Fe/R, Custom length	0150-3502

TRAILING CHAIN CABLE		
Item	**Description**	**Item-No.**
KS05-W/C-4	Trailing Chain Cable W/C, 4 m	0150-2127
KS05-W/C-6	Trailing Chain Cable W/C, 6 m	0150-2128
KS05-W/C-8	Trailing Chain Cable W/C, 8 m	0150-2129
KS05-W/C-	Trailing Chain Cable W/C, Custom length	0150-3204
KS05-Y/C-4	Trailing Chain Cable Y/C, 4 m	0150-2436
KS05-Y/C-6	Trailing Chain Cable Y/C, 6 m	0150-2437
KS05-Y/C-8	Trailing Chain Cable Y/C, 8 m	0150-2438
KS05-Y/C-	Trailing Chain Cable Y-Fe/C, Custom length	0150-3508

ROBOT CABLE		
Item	**Description**	**Item-No.**
KR05-W/C-	Robot Cable KR05-W/C, Custom length	0150-3644
KR05-Y-Fe/C-	Robot Cable KR05-Y-Fe/C, Custom length	0150-3513

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
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

MOTOR FLANGES

Item	Description	Item-No.
PF02-37x200	Flange 37x200 mm	0150-1999

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.
PLF01-20	Fixed Bearing Set for 19mm and 20mm Slider	0150-3083
PLF01-20-SS	Fixed Bearing Set for 19mm and 20mm Slider, Stainless steel	0150-3296
PLL01-19	Floating Bearing for PL01-19 Slider	0150-3335
PLL01-20	Floating Bearing for PL01-20 Slider	0150-3084
PLM01-20-MK	Mounting Kit for PL01-20 Slider	0150-3079

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

WIPERS

Item	Description	Item-No.
PA01-37/19-F	Wipers for PS01-37x...	0150-3225
PA01-37/19-R	Wipers for PS01-37x...-C	0150-3226
PA01-37/19-R cable	Wipers for PS01-37x... Cable Type	0150-3227
PA01-37/20-F	Wipers for PS01-37x...	0150-3126
PA01-37/20-R	Wipers for PS01-37x...-C	0150-3201
PA01-37/20-R cable	Wipers for PS01-37x...-Cable Type	0150-3221

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".