

LINEAR MOTORS P01-37x240



- ✓ Highly dynamic drives
- ✓ 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 P01-37x240

Technical Data **271**

Motor Specifications

P01-37x240/80x120-LC **274**

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P01-37x240/880x1080-LC **283**

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P01-37x240/1280x1480-LC **285**

Linear Guides **286**

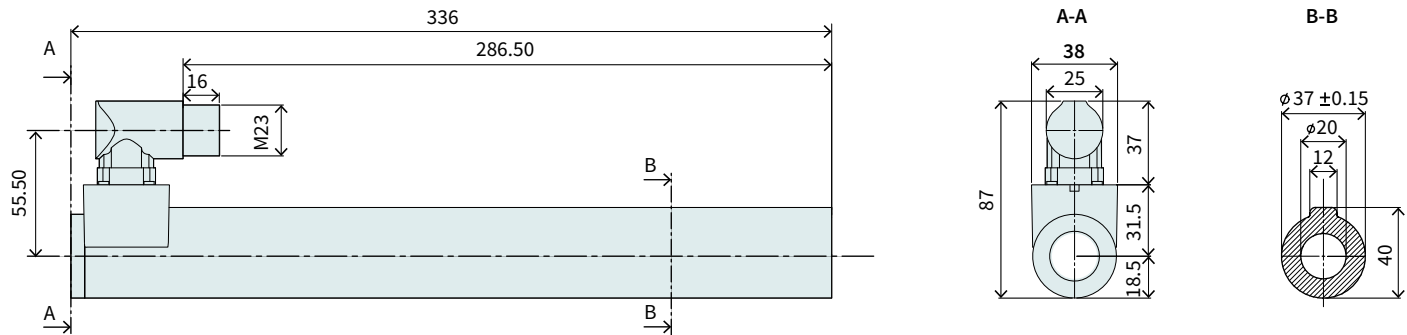
Accessories **288**



MOTOR FAMILY P01-37x240

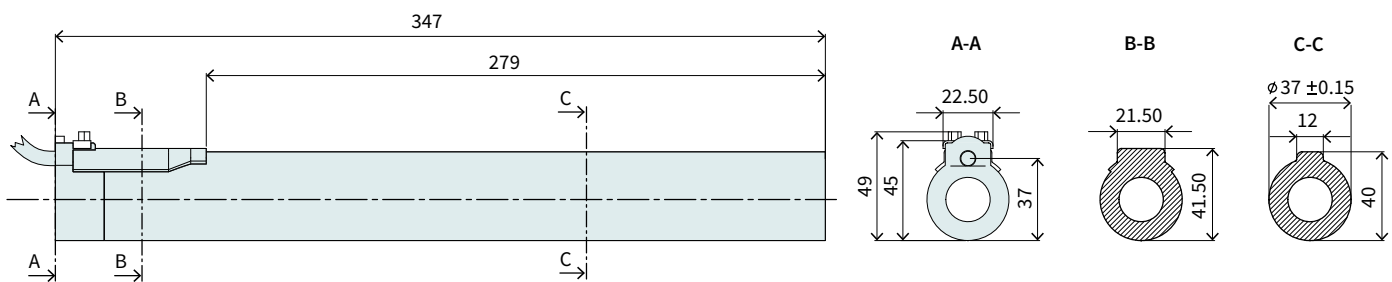
Technical Data				
Stroke				
Standard Stroke (SS)	mm (in)		≤ 1280 (≤ 50.4)	
Extended Stroke (ES)	mm (in)		≤ 1480 (≤ 58.3)	
Force				
Max. Force @ 48VDC	N (lbf)		136 (30.5)	
Max. Force @ 72VDC	N (lbf)		203 (45.7)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		52 / 96 / - (12 / 22 / -)	
Max. Border Force relative	%		≤ 88	
Force Constant	N/A _{pk} (lbf/A _{pk})		40.8 (9.17)	
Velocity				
Max. Velocity @ 48VDC	m/s (in/s)		1.6 (63.9)	
Max. Velocity @ 72VDC	m/s (in/s)		2.3 (95.9)	
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}		3.3	
Max. Current @ 72VDC	A _{pk}		4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}		1.3 / 2.3 / -	
Terminal Resistance 25 °C / 120 °C	Ohm		12 / 16	
Terminal Inductivity	mH		6	
Magnetic Period	mm (in)		40 (1.57)	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 410 / -	
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 (3.0)	
Slider Diameter	mm (in)		20 (0.79)	
Slider Length	mm (in)		240 - 1600 (9.4 - 63)	
Slider Mass	g (lb)		490 - 3620 (1.1 - 7.96)	
IP Code			IP 65	

STATOR CONNECTOR TYPE



Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224

STATOR CABLE TYPE

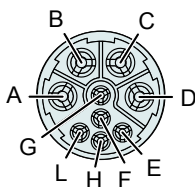


Item	Description	Item-No.
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238

CONNECTOR

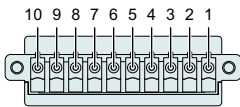
Motor Connector Wiring	PS01-37x240-C PS01-37x240-C20	PS01-37x240	Wire color motor cable
	C-Connector	P-Connector	
Ph 1+	A	1	red
Ph 1-	B	2	pink
Ph 2+	C	3	blue
Ph 2-	D	4	grey
+5VDC	E	5	white
GND	F	6	inner shield
Sin	G	7	yellow
Cos	H	8	green
Temp.	L	9	black
Shield	Housing	10	outer Shield

C-Connector



View: Motor Connector, plug side

P-Connector

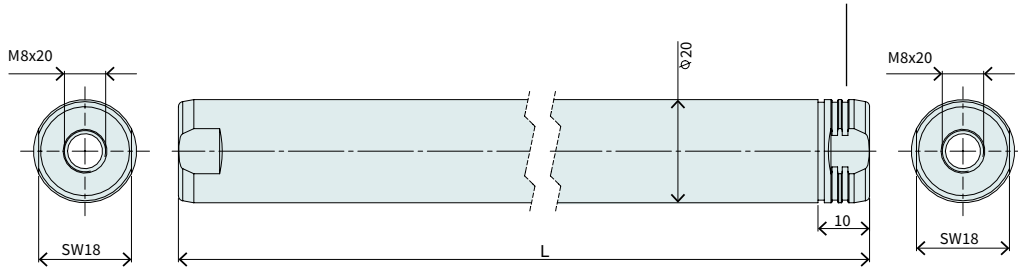


SLIDER

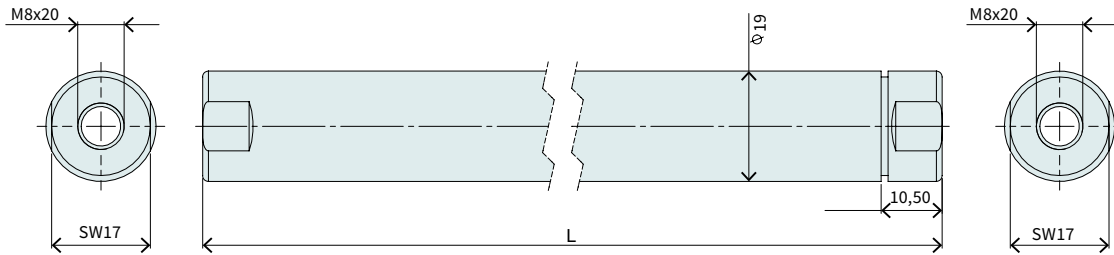
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Slider Standard / Heavy Duty

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



High-Clearance Slider



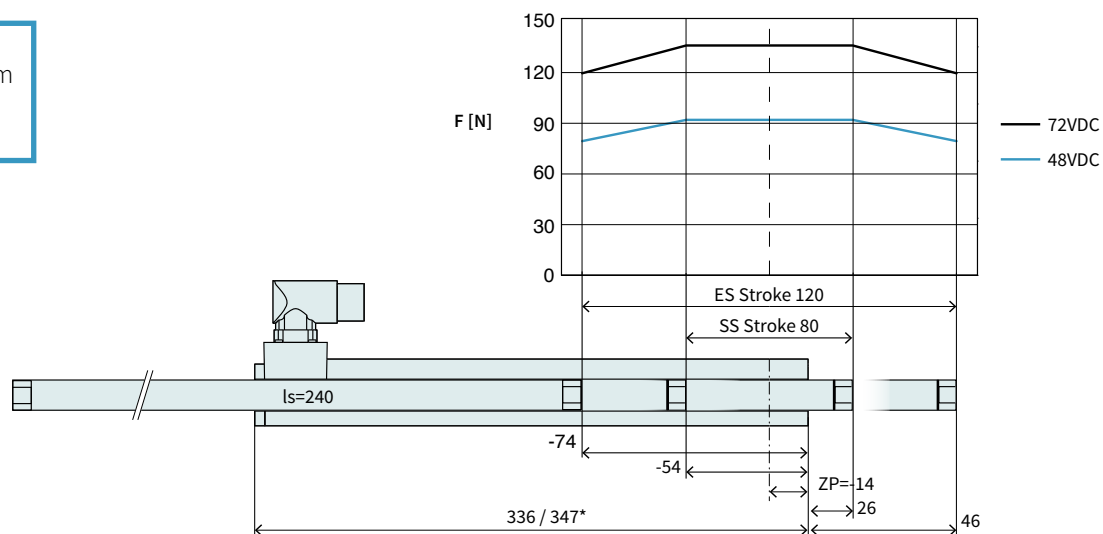
Slider Standard				
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.
PL01-20x240/180-LC	Slider 'standard LC'	120	40	0150-2560
PL01-20x300/240-LC	Slider 'standard LC'	180	100	0150-2561
PL01-20x400/340-LC	Slider 'standard LC'	280	200	0150-2562
PL01-20x500/440-LC	Slider 'standard LC'	380	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

P01-37x240/80x120-LC

Max. Stroke: 120 mm
Peak Force: 136 N

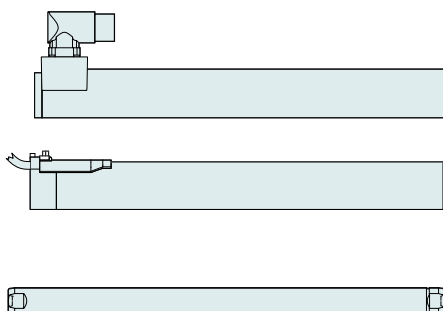


Dimensions in mm

*Cable Type

Technical Data P01-37x240/80x120-LC

Stroke				
Standard Stroke (SS)	mm	(in)	80	(3.14)
Extended Stroke (ES)	mm	(in)	120	(4.71)
Force				
Max. Force @ 48VDC	N	(lbf)	90.4	(20.3)
Max. Force @ 72VDC	N	(lbf)	136	(30.5)
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})	27.2	(6.11)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	1.6	(63.9)
Max. Velocity @ 72VDC	m/s	(in/s)	2.3	(95.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.5	
Electrical Data				
Max. Current @ 48VDC	A _{pk}		3.3	
Max. Current @ 72VDC	A _{pk}		4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}		1.3 / 2.3 / -	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 410 / -	
Mechanical Data				
Slider Length	mm	(in)	240	(9.4)
Slider Mass	g	(lb)	490	(1.08)

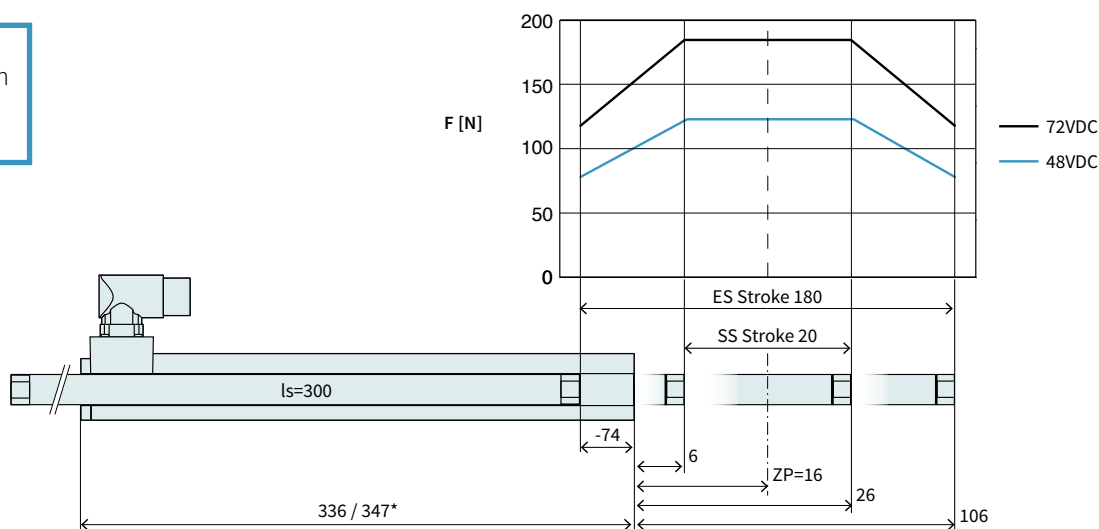


Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x240/180-LC	Slider 'standard LC'	0150-2560
PL02-20x240/180-LC	Slider 'heavy duty LC'	0150-2572
PL01-19x240/160*	Slider 'high clearance'	0150-1448

* With this slider, the motor specifications above change.

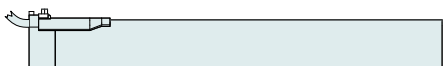
P01-37x240/20x180-LC

Max. Stroke: 180 mm
Peak Force: 186 N



Technical Data P01-37x240/20x180-LC

Stroke				
Standard Stroke (SS)	mm (in)	20	(0.78)	
Extended Stroke (ES)	mm (in)	180	(7.08)	
Force				
Max. Force @ 48VDC	N (lbf)	124	(27.9)	
Max. Force @ 72VDC	N (lbf)	186	(41.9)	
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})	37.4	(8.41)	
Velocity				
Max. Velocity @ 48VDC	m/s (in/s)	1.1	(45.9)	
Max. Velocity @ 72VDC	m/s (in/s)	1.7	(69.9)	
Position Detection				
Repeatability	mm (in)	±0.05	(±0.002)	
Linearity	%	± 0.4		
Electrical Data				
Max. Current @ 48VDC	A _{pk}	3.3		
Max. Current @ 72VDC	A _{pk}	4.9		
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -		
Thermal Data				
Max. Winding Temperature (Sensor)	°C	90		
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -		
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -		
Mechanical Data				
Slider Length	mm (in)	300	(12)	
Slider Mass	g (lb)	630	(1.39)	

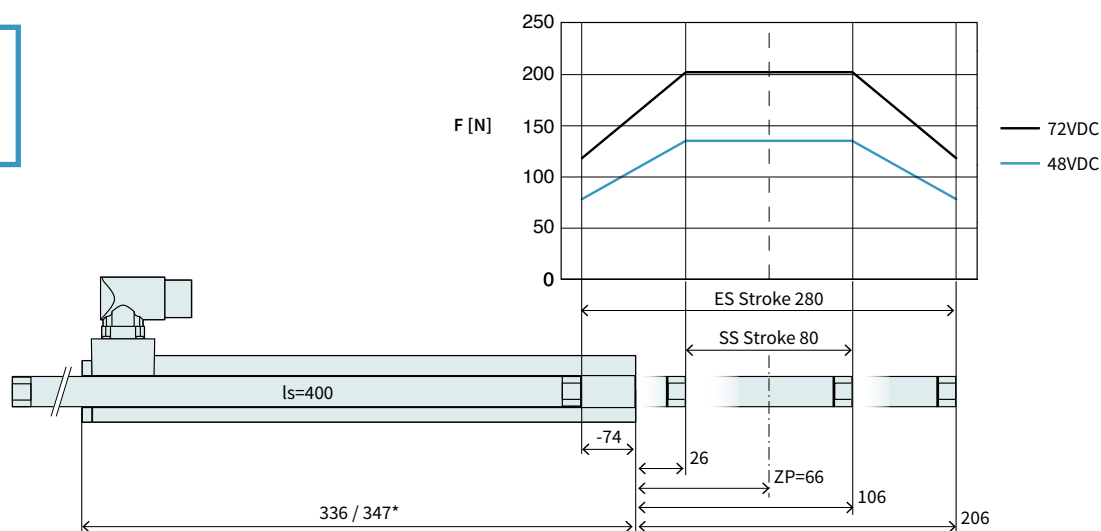


Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x300/240-LC	Slider 'standard LC'	0150-2561
PL02-20x300/240-LC	Slider 'heavy duty LC'	0150-2573
PL01-19x300/220*	Slider 'high clearance'	0150-1449

* With this slider, the motor specifications above change.

P01-37x240/80x280-LC

Max. Stroke: 280 mm
Peak Force: 203 N



Dimensions in mm

*Cable Type

Technical Data P01-37x240/80x280-LC

Stroke			
Standard Stroke (SS)	mm (in)	80 (3.14)	
Extended Stroke (ES)	mm (in)	280 (10.99)	
Force			
Max. Force @ 48VDC	N (lbf)	136 (30.5)	
Max. Force @ 72VDC	N (lbf)	203 (45.7)	
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})	40.8 (9.17)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1 (42.9)	
Max. Velocity @ 72VDC	m/s (in/s)	1.6 (63.9)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.3	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	400 (16)	
Slider Mass	g (lb)	860 (1.9)	



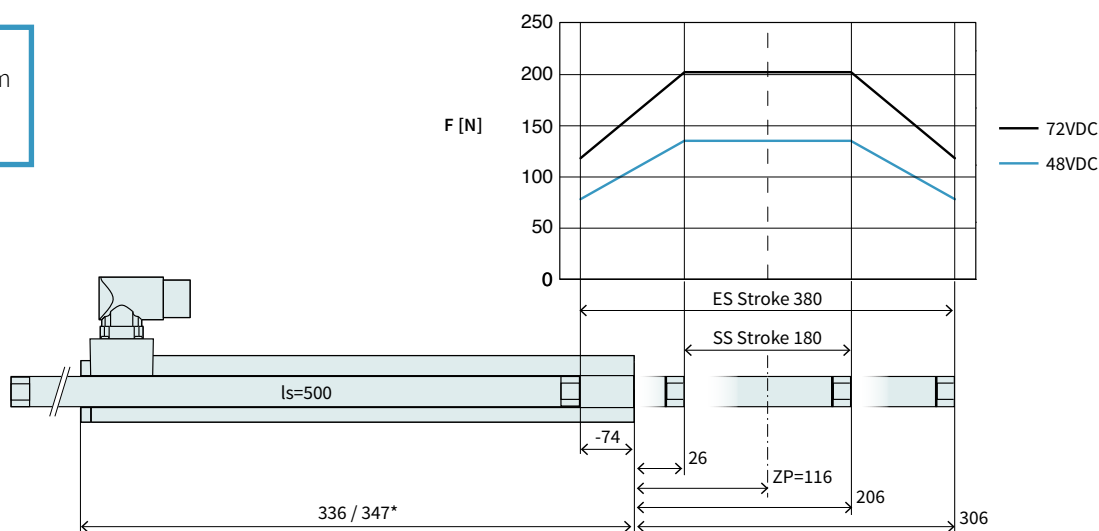
Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x400/340-LC	Slider 'standard LC'	0150-2562
PL02-20x400/340-LC	Slider 'heavy duty LC'	0150-2574
PL01-19x395/320*	Slider 'high clearance'	0150-1452

* With this slider, the motor specifications above change.

P01-37x240/180x380-LC

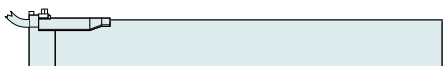
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Max. Stroke: 380 mm
Peak Force: 203 N



Technical Data P01-37x240/180x380-LC

Stroke				
Standard Stroke (SS)	mm (in)	180	(7.08)	
Extended Stroke (ES)	mm (in)	380	(14.99)	
Force				
Max. Force @ 48VDC	N (lbf)	136	(30.5)	
Max. Force @ 72VDC	N (lbf)	203	(45.7)	
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})	40.8	(9.17)	
Velocity				
Max. Velocity @ 48VDC	m/s (in/s)	1.1	(42.9)	
Max. Velocity @ 72VDC	m/s (in/s)	1.6	(63.9)	
Position Detection				
Repeatability	mm (in)	±0.05	(±0.002)	
Linearity	%	± 0.25		
Electrical Data				
Max. Current @ 48VDC	A _{pk}	3.3		
Max. Current @ 72VDC	A _{pk}	4.9		
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -		
Thermal Data				
Max. Winding Temperature (Sensor)	°C	90		
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -		
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -		
Mechanical Data				
Slider Length	mm (in)	500	(20)	
Slider Mass	g (lb)	1090	(2.4)	

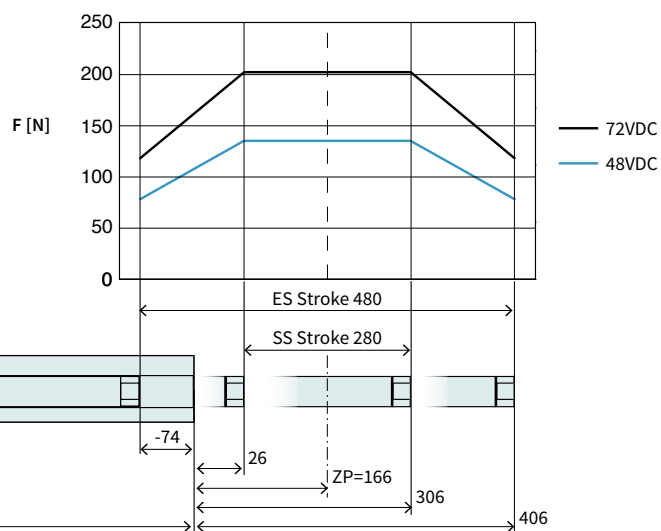


Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x500/440-LC	Slider 'standard LC'	0150-2563
PL02-20x500/440-LC	Slider 'heavy duty LC'	0150-2575
PL01-19x500/420*	Slider 'high clearance'	0150-1455

* With this slider, the motor specifications above change.

P01-37x240/280x480-LC

Max. Stroke: 480 mm
Peak Force: 203 N

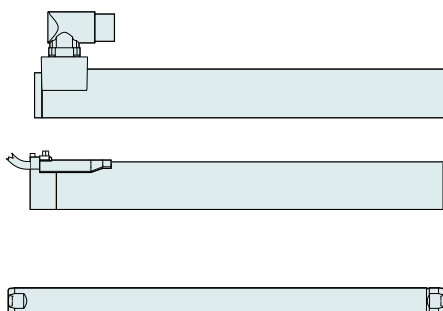


Dimensions in mm

*Cable Type

Technical Data P01-37x240/280x480-LC

Stroke			
Standard Stroke (SS)	mm (in)	280	(10.99)
Extended Stroke (ES)	mm (in)	480	(18.89)
Force			
Max. Force @ 48VDC	N (lbf)	136	(30.5)
Max. Force @ 72VDC	N (lbf)	203	(45.7)
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})	40.8	(9.17)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1	(42.9)
Max. Velocity @ 72VDC	m/s (in/s)	1.6	(63.9)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	600	(24)
Slider Mass	g (lb)	1330	(2.93)



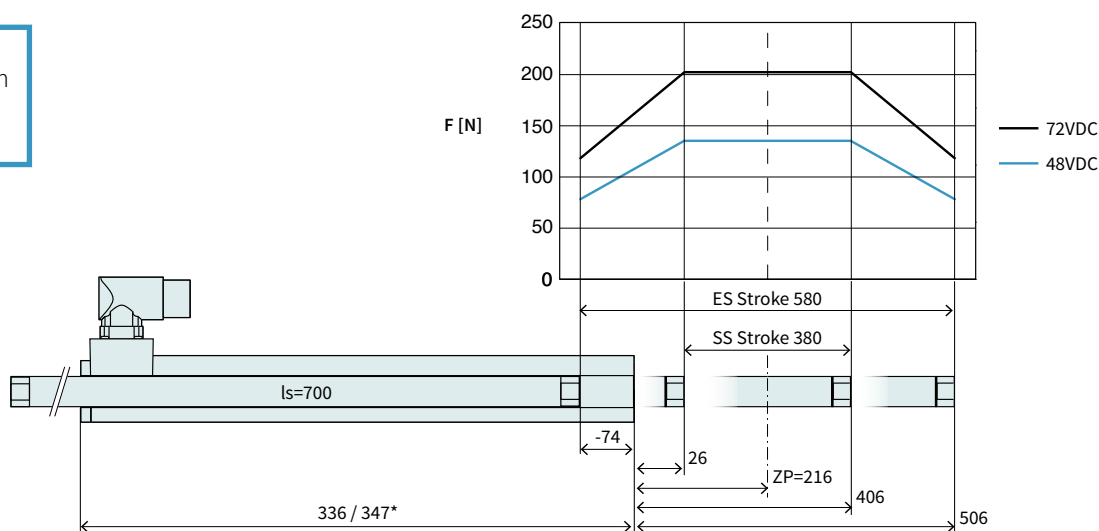
Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x600/540-LC	Slider 'standard LC'	0150-2564
PL02-20x600/540-LC	Slider 'heavy duty LC'	0150-2576
PL01-19x600/520*	Slider 'high clearance'	0150-1456

* With this slider, the motor specifications above change.

P01-37x240/380x580-LC

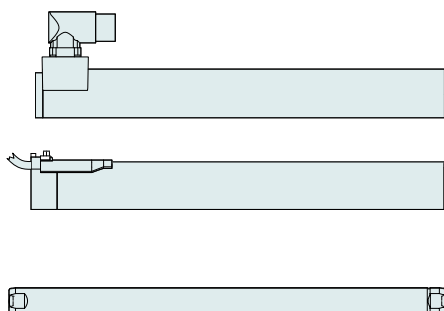
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Max. Stroke: 580 mm
Peak Force: 203 N



Technical Data P01-37x240/380x580-LC

Stroke			
Standard Stroke (SS)	mm (in)	380 (14.99)	
Extended Stroke (ES)	mm (in)	580 (22.8)	
Force			
Max. Force @ 48VDC	N (lbf)	136 (30.5)	
Max. Force @ 72VDC	N (lbf)	203 (45.7)	
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})	40.8 (9.17)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1 (42.9)	
Max. Velocity @ 72VDC	m/s (in/s)	1.6 (63.9)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	700 (28)	
Slider Mass	g (lb)	1560 (3.4)	

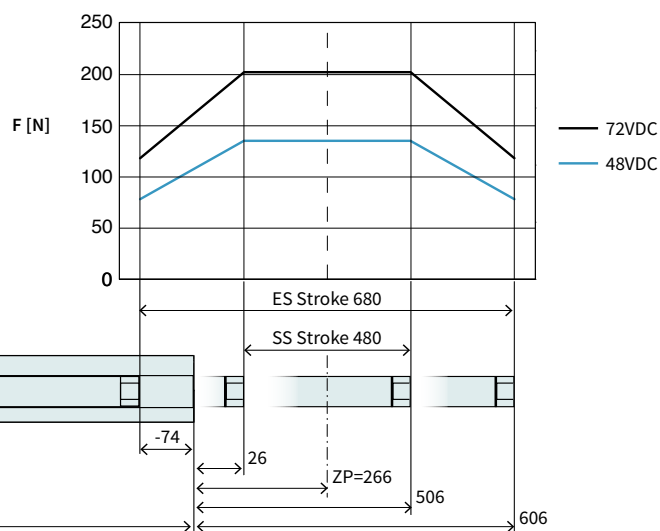


Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x700/640-LC	Slider 'standard LC'	0150-2565
PL02-20x700/640-LC	Slider 'heavy duty LC'	0150-2577
PL01-19x700/620*	Slider 'high clearance'	0150-1457

* With this slider, the motor specifications above change.

P01-37x240/480x680-LC

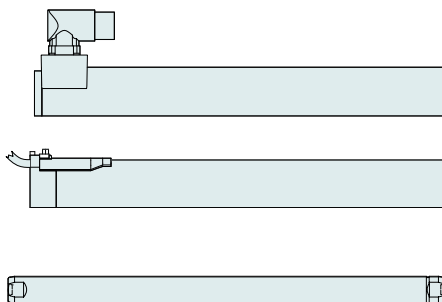
Max. Stroke: 680 mm
Peak Force: 203 N



Dimensions in mm
 *Cable Type

Technical Data P01-37x240/480x680-LC

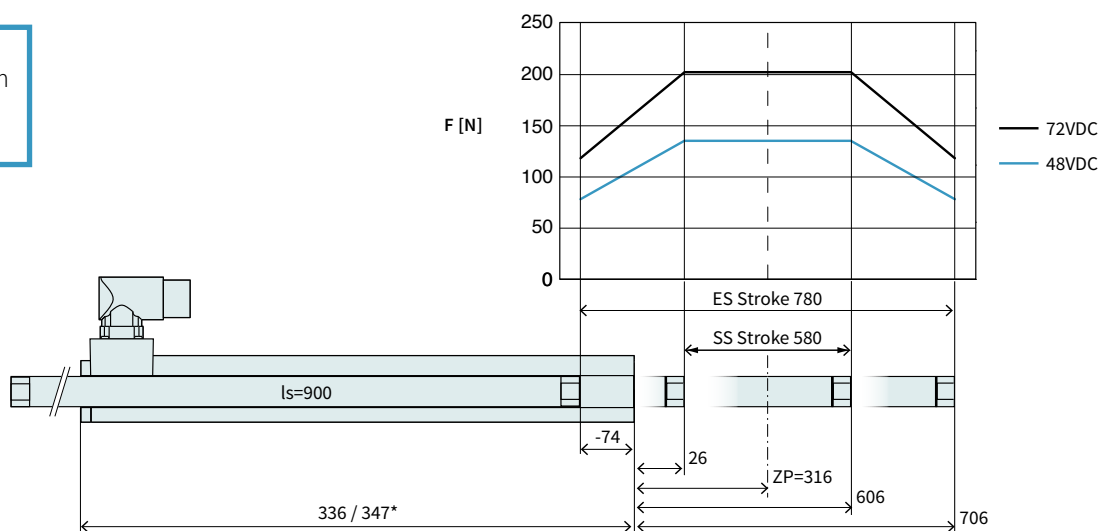
Stroke			
Standard Stroke (SS)	mm (in)	480 (18.89)	
Extended Stroke (ES)	mm (in)	680 (26.8)	
Force			
Max. Force @ 48VDC	N (lbf)	136 (30.5)	
Max. Force @ 72VDC	N (lbf)	203 (45.7)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	52 / 96 / - (12 / 22 / -)	
Max. Border Force relative	%	58	
Force Constant	N/A _{pk} (lbf/A _{pk})	40.8 (9.17)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1 (42.9)	
Max. Velocity @ 72VDC	m/s (in/s)	1.6 (63.9)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	800 (31)	
Slider Mass	g (lb)	1790 (3.94)	



Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x800/740-LC	Slider 'standard LC'	0150-2566
PL02-20x800/740-LC	Slider 'heavy duty LC'	0150-2578

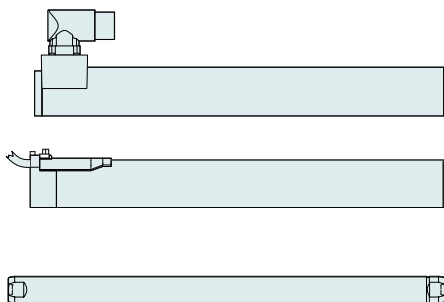
P01-37x240/580x780-LC

Max. Stroke: 780 mm
Peak Force: 203 N



Technical Data P01-37x240/580x780-LC

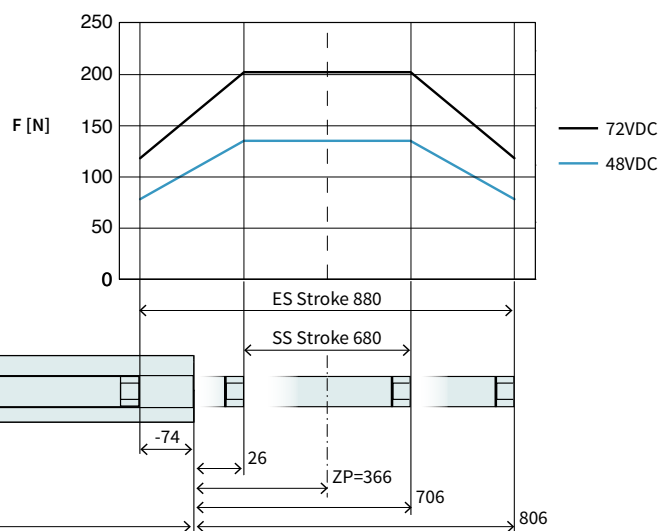
Technical Data P01-37x240/580x780-LC			
Stroke			
Standard Stroke (SS)	mm (in)	580 (22.8)	
Extended Stroke (ES)	mm (in)	780 (30.69)	
Force			
Max. Force @ 48VDC	N (lbf)	136 (30.5)	
Max. Force @ 72VDC	N (lbf)	203 (45.7)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	52 / 96 / -	(12 / 22 / -)
Max. Border Force relative	%	58	
Force Constant	N/A _{pk} (lbf/A _{pk})	40.8 (9.17)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1 (42.9)	
Max. Velocity @ 72VDC	m/s (in/s)	1.6 (63.9)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	900 (35)	
Slider Mass	g (lb)	2020 (4.44)	



Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x900/840-LC	Slider 'standard LC'	0150-2567
PL02-20x900/840-LC	Slider 'heavy duty LC'	0150-2579

P01-37x240/680x880-LC

Max. Stroke: 880 mm
Peak Force: 203 N

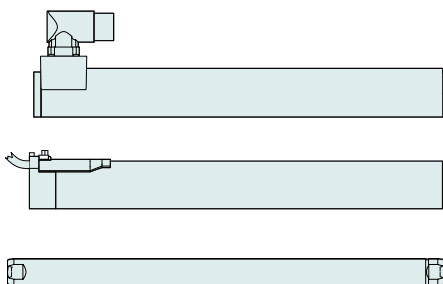


Dimensions in mm

*Cable Type

Technical Data P01-37x240/680x880-LC

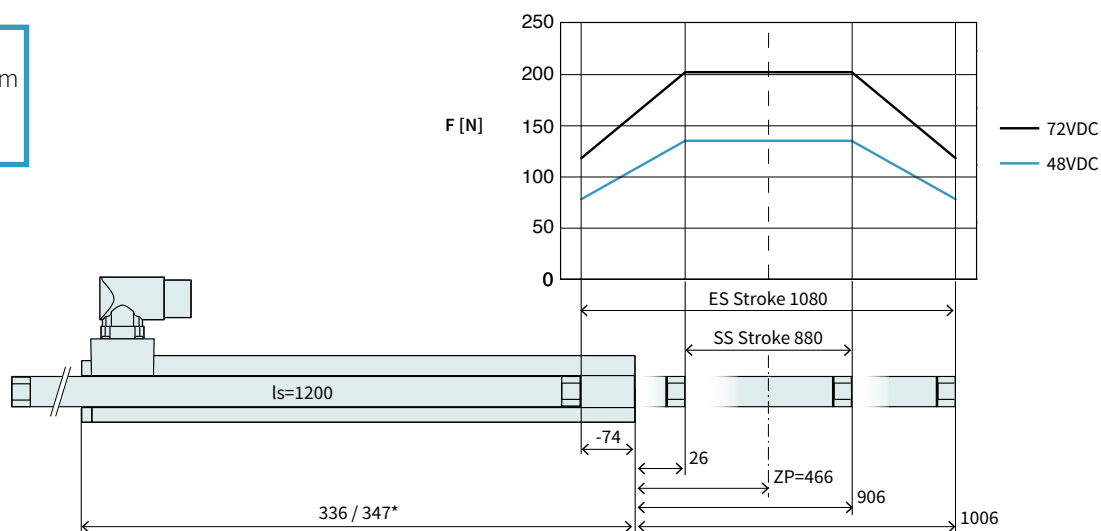
Stroke			
Standard Stroke (SS)	mm (in)	680 (26.8)	
Extended Stroke (ES)	mm (in)	880 (34.6)	
Force			
Max. Force @ 48VDC	N (lbf)	136 (30.5)	
Max. Force @ 72VDC	N (lbf)	203 (45.7)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	52 / 96 / - (12 / 22 / -)	
Max. Border Force relative	%	58	
Force Constant	N/A _{pk} (lbf/A _{pk})	40.8 (9.17)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1 (42.9)	
Max. Velocity @ 72VDC	m/s (in/s)	1.6 (63.9)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	1000 (39)	
Slider Mass	g (lb)	2230 (4.91)	



Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x1000/940-LC	Slider 'standard LC'	0150-2568

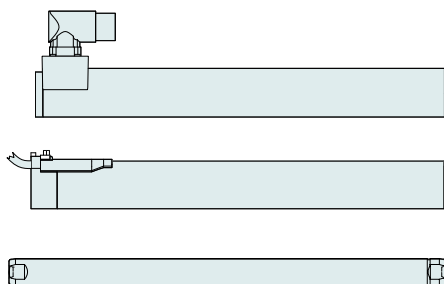
P01-37x240/880x1080-LC

Max. Stroke: 1080 mm
Peak Force: 203 N



Technical Data P01-37x240/880x1080-LC

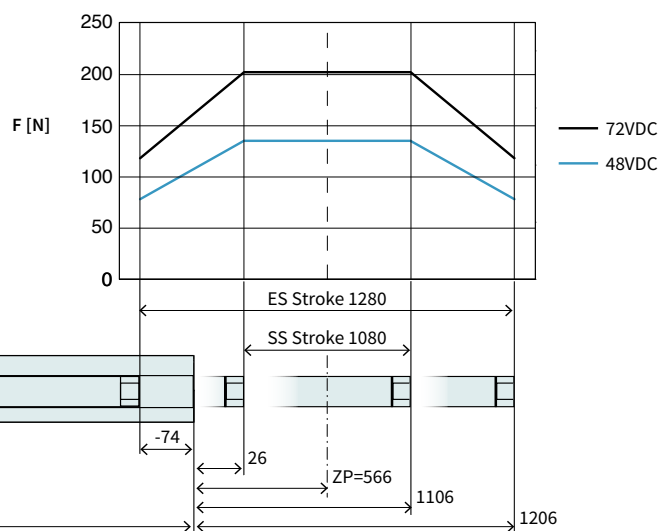
Stroke			
Standard Stroke (SS)	mm (in)	880 (34.6)	
Extended Stroke (ES)	mm (in)	1080 (42.49)	
Force			
Max. Force @ 48VDC	N (lbf)	136 (30.5)	
Max. Force @ 72VDC	N (lbf)	203 (45.7)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	52 / 96 / - (12 / 22 / -)	
Max. Border Force relative	%	58	
Force Constant	N/A _{pk} (lbf/A _{pk})	40.8 (9.17)	
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1 (42.9)	
Max. Velocity @ 72VDC	m/s (in/s)	1.6 (63.9)	
Position Detection			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	*K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	1200 (47)	
Slider Mass	g (lb)	2690 (5.92)	



Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x1200/1140-LC	Slider 'standard LC'	0150-2569

P01-37x240/1080x1280-LC

Max. Stroke: 1280 mm
Peak Force: 203 N

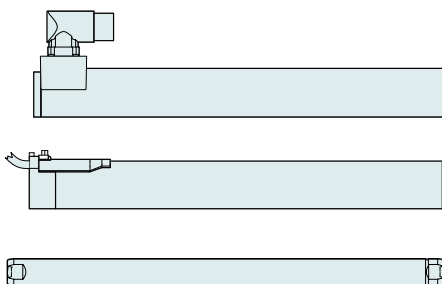


Dimensions in mm

*Cable Type

Technical Data P01-37x240/1080x1280-LC

Stroke			
Standard Stroke (SS)	mm (in)	1080	(42.49)
Extended Stroke (ES)	mm (in)	1280	(50.39)
Force			
Max. Force @ 48VDC	N (lbf)	136	(30.5)
Max. Force @ 72VDC	N (lbf)	203	(45.7)
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})	40.8	(9.17)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1	(42.9)
Max. Velocity @ 72VDC	m/s (in/s)	1.6	(63.9)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	1400	(55)
Slider Mass	g (lb)	3160	(6.95)

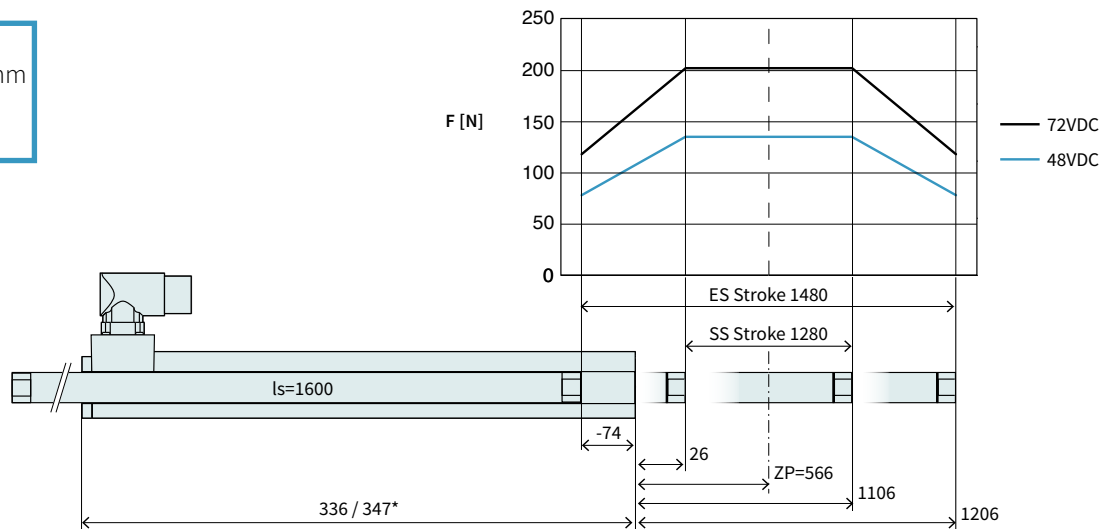


Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x1400/1340-LC	Slider 'standard LC'	0150-2570

P01-37x240/1280x1480-LC

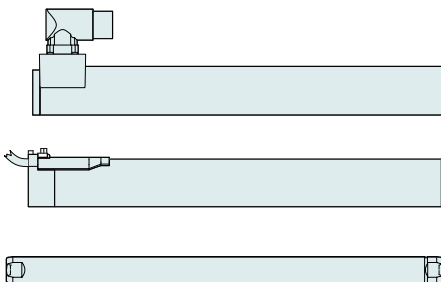
3

Max. Stroke: 1480 mm
Peak Force: 203 N



Technical Data P01-37x240/1280x1480-LC

Stroke			
Standard Stroke (SS)	mm (in)	1280	(50.39)
Extended Stroke (ES)	mm (in)	1480	(58.29)
Force			
Max. Force @ 48VDC	N (lbf)	136	(30.5)
Max. Force @ 72VDC	N (lbf)	203	(45.7)
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})	40.8	(9.17)
Velocity			
Max. Velocity @ 48VDC	m/s (in/s)	1.1	(42.9)
Max. Velocity @ 72VDC	m/s (in/s)	1.6	(63.9)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 48VDC	A _{pk}	3.3	
Max. Current @ 72VDC	A _{pk}	4.9	
Max. Cont. Current [Passive cooling / Fan / Fluid]	A _{pk}	1.3 / 2.3 / -	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 0.61 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 410 / -	
Mechanical Data			
Slider Length	mm (in)	1600	(63)
Slider Mass	g (lb)	3620	(7.9)



Item	Description	Item-No.
PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
PL01-20x1600/1540-LC	Slider 'standard LC'	0150-2571

Linear Guides H01

3



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	PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
		PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
		PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
→	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	PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
		PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
		PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
→	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	PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
		PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
		PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
→	Slider	PL01-20x600/540-LC	Slider 'standard LC'	0150-2564

Accessories				
→	Brake	HB01-37	Pneumatic brake for H01-37 guides	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

3



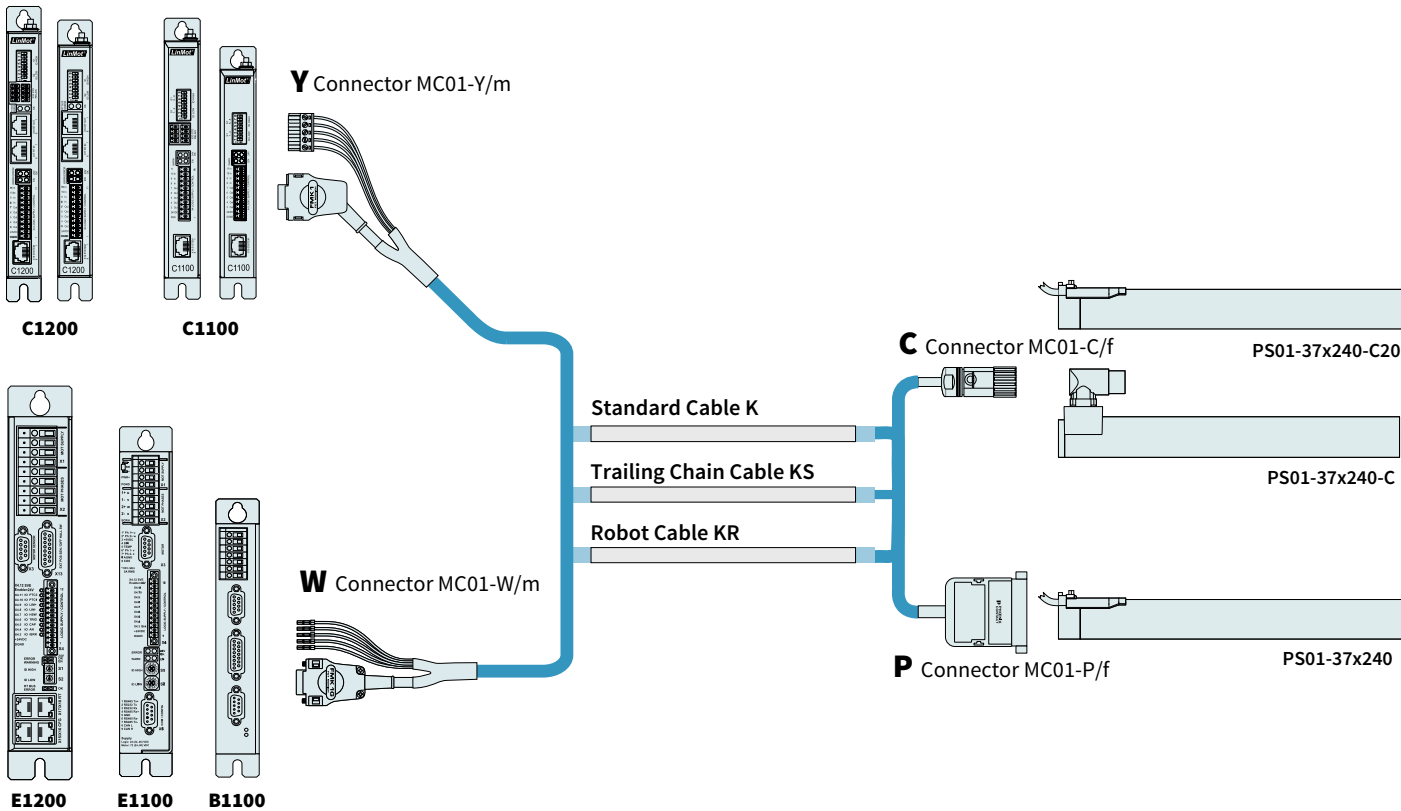
BM01-37x240/140 Bridge Module 37x240 with 140 mm Stroke ¹⁾				
→	B-Guide	B01-37x286/140	B-Guide for P01-37x240, Stroke max 140mm	0150-5144
		B01-37x286/140-GF	B-Guide for P01-37x240, Stroke max 140mm	0150-5147
→	Stator	PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
		PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
		PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
→	Slider	PL01-19x500/420	Slider 'high clearance' B01-37x286/140	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	PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
		PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
		PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
→	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	PS01-37x240-C	Stator with IP67 Connector M23/9(m)	0150-1224
		PS01-37x240	Stator, 1.5m Cable, Connector P/10(m)	0150-1203
		PS01-37x240-C20	Stator, 0.2m Cable, IP67 St. M23/9(m)	0150-1238
→	Slider	PL01-19x700/620	Slider 'high clearance'	0150-1457
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

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

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

Motor Cable

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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-W/P	Motor Cable W/P, Custom length	0150-3113
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-W/P-	Trailing Chain Cable W/P, Custom length	0150-3114
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-Fe/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
MC01-P/f	Motor Connector P/f	0150-3021
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 H01-37/48 & PF02-37/48	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".

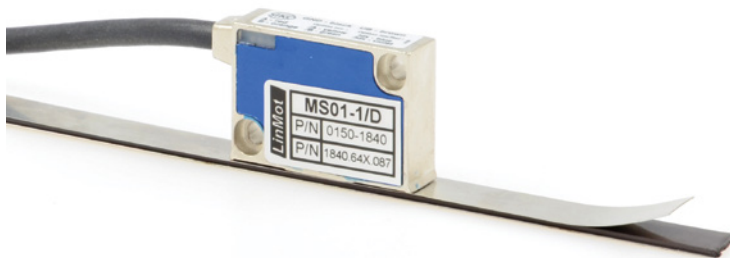
WIPERS



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 Typ	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".