

LINEAR MOTORS P10



The power packages of the LinMot motor family offer the best possible flexibility in the control concept and the stroke range.

Product Description

4

The linear motors of the P10 series are the most powerful motors in the LinMot product family. With their higher performance and peak forces of up to 2700 N, the motors place higher demands on the drive units and servo drives. For this reason, LinMot has developed a completely new concept and relies exclusively on the 3x400VAC technology and servo drives with direct power supply from the grid for this motor series. Depending on the application, the motors can also be operated with rectified 1x230VAC.

The built-in standard encoders ensure better integration of the drives into external control concepts. The motors can thus be controlled by drives of any manufacturer without problems. As with the smaller drives, the motors are equipped with rotatable IP67 plugs. For the different stroke lengths there is a fixed, systematically ordered slider program.



P10-54 Linear Motors

Compact, tubular linear motors with medium power output for dynamic positioning tasks or to replace pneumatics. Optionally equipped with a 1Vpp sin/cos encoder or an A/B incremental encoder, the motors can be controlled by any manufacturer's drives. The P10-54 motors are available in 4 sizes, with peak forces from 350 to 900 N. The extensive selection of sliders produces a closely tiered range of strokes, with a maximum stroke of up to 2000 mm.



P10-70 Linear Motors

The most powerful LinMot motors for dynamic linear motions. They can be actuated by any manufacturer's drives or by the LinMot E1400 Servo Drive. The 70-series motors are available in 5 sizes, with peak forces from 550 to 2700 N. The maximum available stroke is 1770 mm. The motor data, with accelerations from 975 m/s² and a maximum speed of over 7 m/s, leave nothing to be desired in terms of dynamics.

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.

HIGH AND CONTROLLED DYNAMICS

Max. acceleration values over 900 m/s² and travel speeds up to 10 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.

PROCESS STABILITY

Since not only the end positions, 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.

3X400 VAC TECHNOLOGY

LinMot is using 3x400VAC technology for the first time with this series of motors. This has increased the dynamism of the drives several times over, so that accelerations of well over 900 m/s² can be achieved. The three-phase alternating current allows the motors to be even better integrated in the machine environment and used more effectively as a component.

WORKS WITH THIRD-PARTY DRIVES

The P10 series of motors have been deliberately equipped with standard encoders. The position signals are output by an analog 1Vpp sin/cos sensor or by a digital A/B incremental encoder. Both types can be read by nearly all third-party drives, thus enabling optimal integration in existing control concepts. In addition to the position feedback, the outgoing temperature signals can also be interpreted by other drives without a problem. Either PTC/PT1000 or KTY sensors are installed for this purpose.

PLUGS FOR SENSORS AND POWER

Every designer is familiar with the problem of routing motor cables inside machinery. For this reason, LinMot Series P10 linear motors are available with two separate, robust, rotating plug connections with IP67 protection for signals and for power.

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.

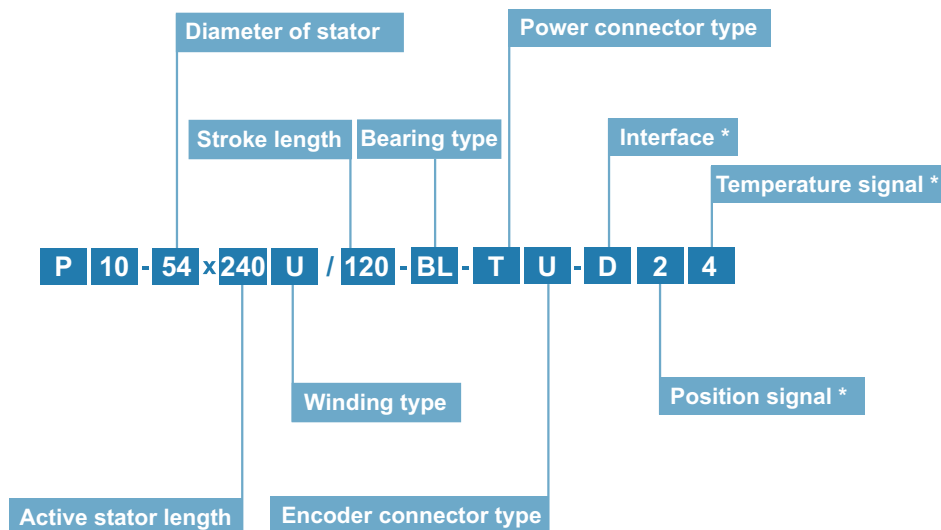
OVERLOAD PROTECTION

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".

* = Only for motors for 3rd party drives

Handwriting practice area with 20 horizontal dotted lines.

LINEAR MOTORS P10-54x120U



- ✓ 230VAC and 3 x 400VAC technology
- ✓ Peak forces up to 335 N
- ✓ LinMot Encoder or Incremental Encoder
- ✓ Extremely high dynamic
- ✓ Rotating push-pull TWIN connector for power and encoder cables
- ✓ Can also be controlled by standard third-party servo drives

LINEAR MOTORS P10-54x120U

Technical Data **397**

Motor Specifications

P10-54x120U/70 **402**

P10-54x120U/130 **403**

P10-54x120U/220 **404**

P10-54x120U/340 **405**

P10-54x120U/430 **406**

P10-54x120U/520 **407**

P10-54x120U/640 **408**

P10-54x120U/730 **409**

P10-54x120U/940 **410**

P10-54x120U/1120 **411**

P10-54x120U/1330 **412**

P10-54x120U/1540 **413**

P10-54x120U/1720 **414**

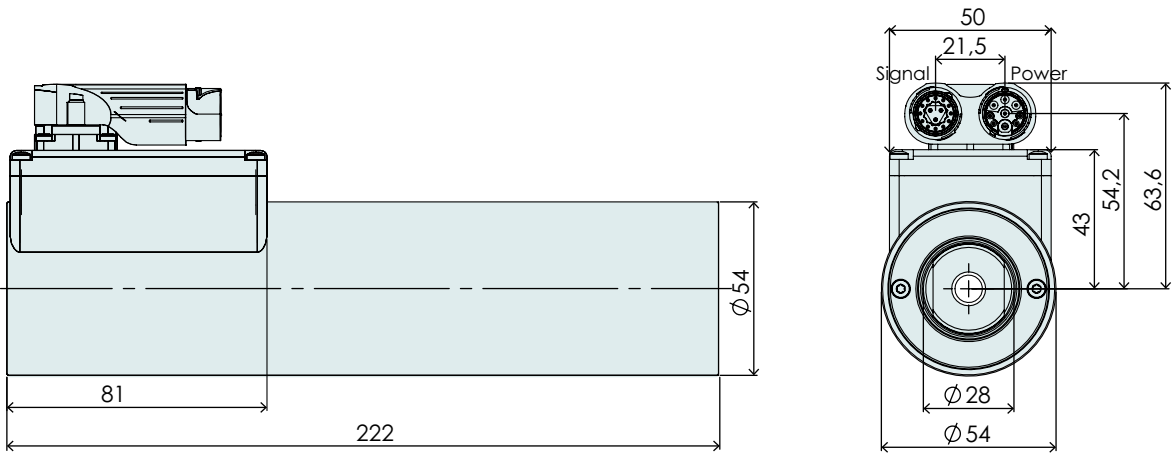
Accessories **415**



MOTOR FAMILY P10-54x120U

Technical Data				
Stroke				
Max. Stroke (ES)	mm	(in)	1720	(67.7)
Force				
Max. Force @ 1x230VAC	N	(lbf)	335	(75.4)
Max. Force @ 3x400VAC	N	(lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	60.8	(13.7)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.3	(289.9)
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 @ 1x230VAC	A _{pk} / A _{rms}		7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		0.99 / 1.3 / 1.8	
Back EMF Constant	V _{pk} / (m/s)	(V _{pk} / (in/s))	49.7	(1.26)
Terminal Resistance 25 °C / 120 °C	Ohm		14 / 19	
Terminal Inductivity	mH		11	
Magnetic Period	mm	(in)	60	(2.35)
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1100 / 600 / 310	
Mechanical Data				
Stator Diameter	mm	(in)	54	(2.1)
Stator Length	mm	(in)	222	(8.7)
Stator Mass	g	(lb)	1730	(3.8)
Slider Diameter	mm	(in)	28	(1.1)
Slider Length	mm	(in)	350 - 2000	(14 - 79)
Slider Mass	g	(lb)	1460 - 9140	(3.21 - 20.1)
IP Code			IP 65	

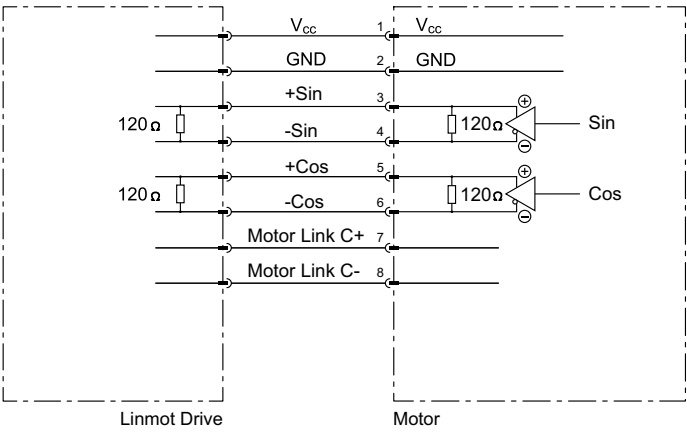
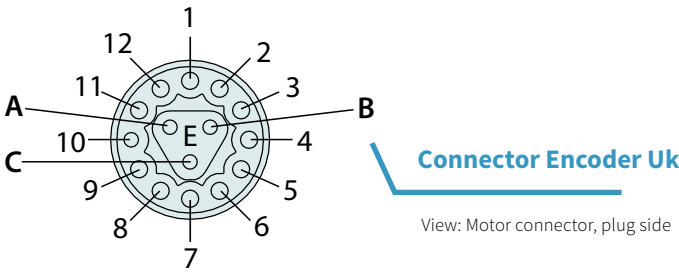
STATOR



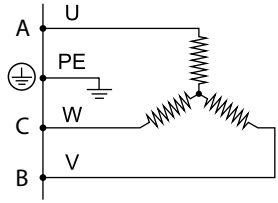
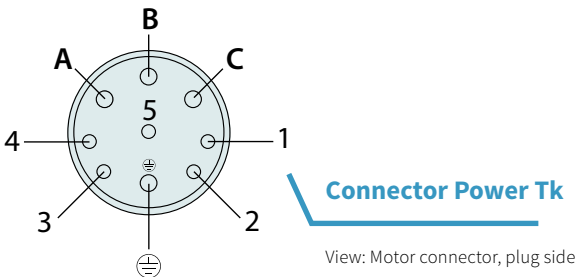
Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782

CONNECTOR PS10-54x120U-BL-TU

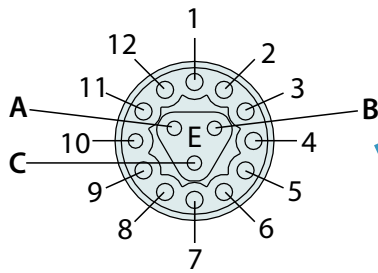
Motor Connector Wiring		Connector Encoder Uk	Wire Color Motor Cable
+Vcc	Supply	1	red
GND	Supply	2	black
Sin+	Encoder	3	yellow
Sin-	Encoder	4	orange
Cos+	Encoder	5	green
Cos-	Encoder	6	blue
Mot. Link C+	Communication	7	pink
Mot. Link C-	Communication	8	grey
n. c.	n. c.	9	n. c.
n. c.	n. c.	10	n. c.
n. c.	n. c.	11	n. c.
n. c.	n. c.	12	n. c.
n. c.	n. c.	A	n. c.
n. c.	n. c.	B	n. c.
n. c.	n. c.	C	n. c.



Motor Connector Wiring	Connector Power Tk	Wire Color Motor Cable
Phase U	A	red
PE	PE	yellow-green
Phase V	B	blue
Phase W	C	green
n. c.	1	n. c.
n. c.	2	n. c.
n. c.	3	n. c.
n. c.	4	n. c.
n. c.	5	n. c.

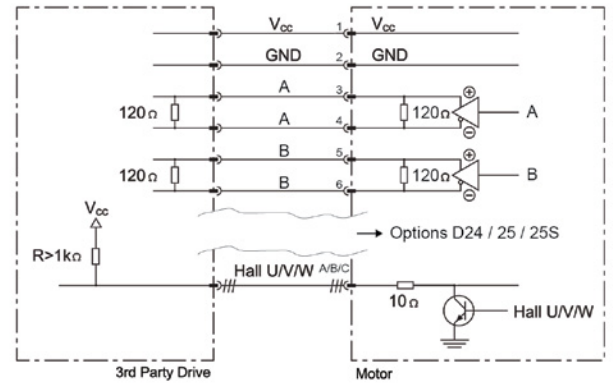


CONNECTOR PS10-54x120U-BL-TU-D24 / 25 / 25S

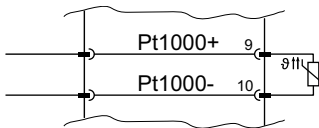


Connector Encoder Uk

View: Motor connector, plug side

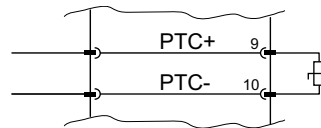


PS10-54x120U-BL-TU-D24



Pt1000 Characteristic
emulated

**PS10-54x120U-BL-TU-D25
PS10-54x120U-BL-TU-D25S**

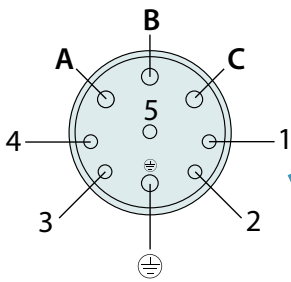


PTC (switching type)
350 Ω / 18 k Ω emulated¹

Motor Connector Wiring				
PS10-54x120U-BL-TU-D24	PS10-54x120U-BL-TU-D25 PS10-54x120U-BL-TU-D25S	Function	Connector Encoder Uk	Wire Color Motor Cable
+Vcc	+Vcc	Supply	1	white
GND	GND	Supply	2	brown
A	A	Encoder	3	grey
/A	/A	Encoder	4	pink
B	B	Encoder	5	blue
/B	/B	Encoder	6	red
-	-	-	7	green (do not connect)
-	-	-	8	yellow (do not connect)
Pt1000+	PTC+	Temp. ²	9	yellow-brown
Pt1000-	PTC-	Temp. ²	10	white-yellow
REF+	REF+	Encoder	11	black
REF-	REF-	Encoder	12	purple
Hall U	Hall U	Encoder	A	grey-red
Hall V	Hall V	Encoder	B	red-blue
Hall W	Hall W	Encoder	C	white-green

1) under 350 Ω = no fault, over 18 k Ω = Fault

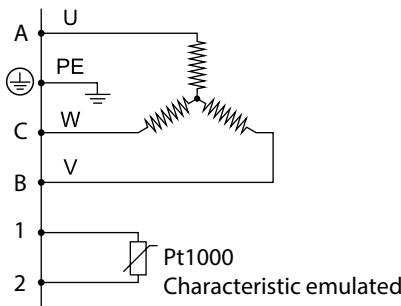
2) The temperature evaluation circuit must be powered from the encoder supply and must be at the same potential. The grounds of the temperature evaluation circuit and the encoder have to be connected. The encoder must have been powered on for at least 50 ms, before valid temperatures can be measured. If the encoder is powered off, 20k Ohms are measured between Pins 9 and 10.



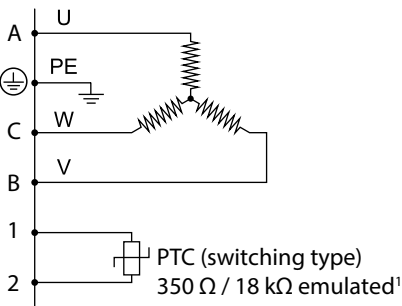
Connector Power Tk

View: Motor connector, plug side

PS10-54x120U-BL-TU-D24



PS10-54x120U-BL-TU-D25
PS10-54x120U-BL-TU-D25S

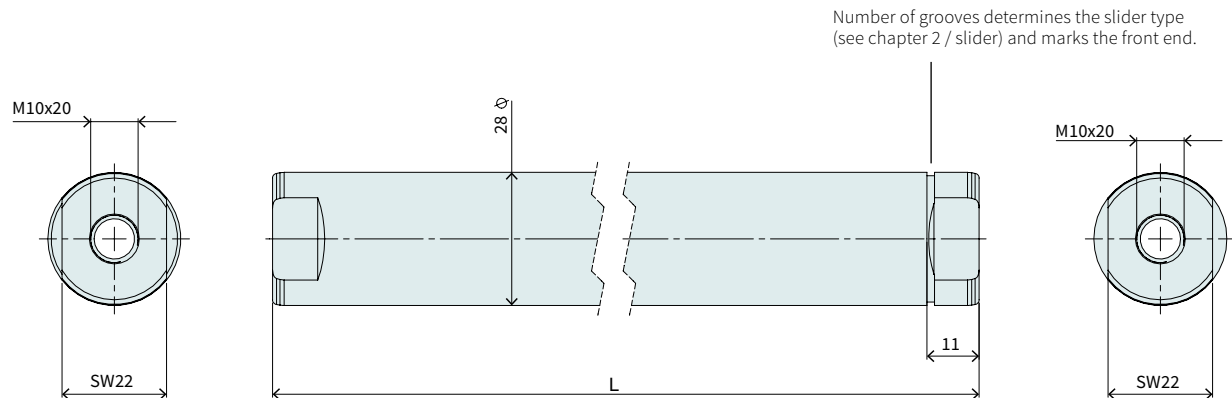


Motor Connector Wiring			
PS10-54x120U-BL-TU-D24	PS10-54x120U-BL-TU-D25 PS10-54x120U-BL-TU-D25S	Connector Power Tk	Wire Color Motor Cable
Phase U	Phase U	A	red
PE	PE	PE	yellow-green
Phase V	Phase V	B	blue
Phase W	Phase W	C	green
Pt1000+	PTC+	1	turquoise
Pt1000-	PTC-	2	grey
n. c.	n. c.	3	n. c.
n. c.	n. c.	4	n. c.
n. c.	n. c.	5	n. c.

1) under 350 Ω = no fault, over 18 Ω = Fault

SLIDER

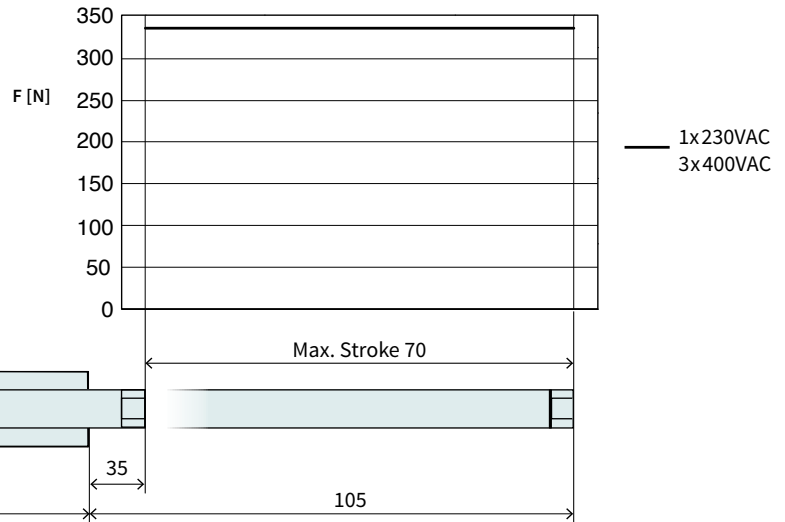
Slider Standard



Slider Standard			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-28x350/270	Slider 'standard'	70	0150-1380
PL01-28x410/330	Slider 'standard'	130	0150-1381
PL01-28x500/420	Slider 'standard'	220	0150-1382
PL01-28x620/540	Slider 'standard'	340	0150-1383
PL01-28x710/630	Slider 'standard'	430	0150-1384
PL01-28x800/720	Slider 'standard'	520	0150-1385
PL01-28x920/840	Slider 'standard'	640	0150-1386
PL01-28x1010/930	Slider 'standard'	730	0150-1387
PL01-28x1220/1140	Slider 'standard'	940	0150-1388
PL01-28x1400/1320	Slider 'standard'	1120	0150-1389
PL01-28x1610/1530	Slider 'standard'	1330	0150-1390
PL01-28x1820/1740	Slider 'standard'	1540	0150-1395
PL01-28x2000/1920	Slider 'standard'	1720	0150-1396

P10-54x120U/70-BL-TU

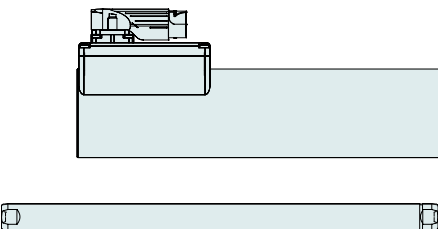
Max. Stroke: 70 mm
Peak Force: 335 N



Dimensions in mm

Technical Data P10-54x120U/70

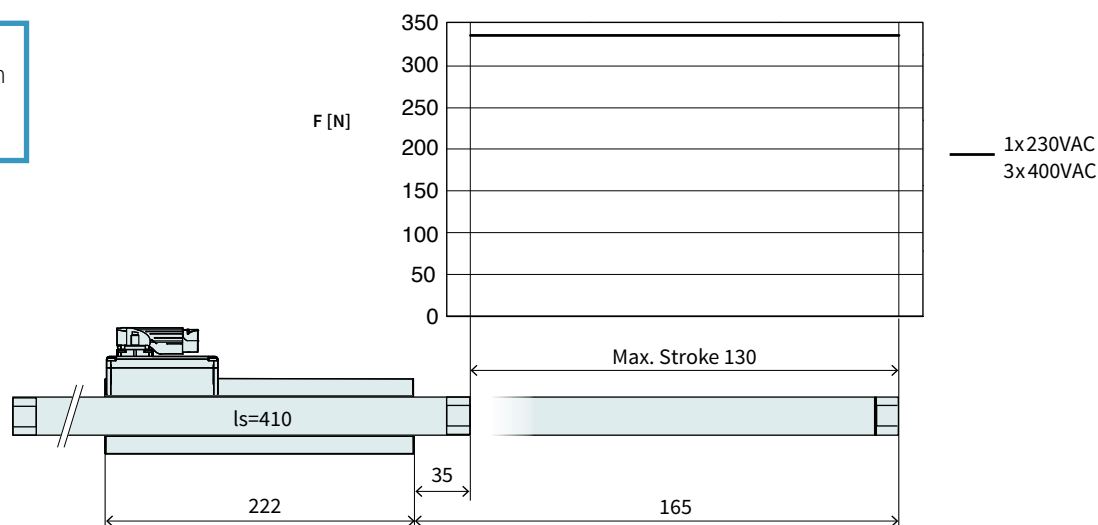
Stroke			
Max. Stroke	mm (in)	70	(2.75)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 1.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	350	(14)
Slider Mass	g (lb)	1460	(3.21)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782
PL01-28x350/270	Slider 'standard'	0150-1380

P10-54x120U/130-BL-TU

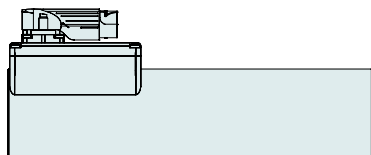
Max. Stroke: 130 mm
Peak Force: 335 N



Dimensions in mm

Technical Data P10-54x120U/130

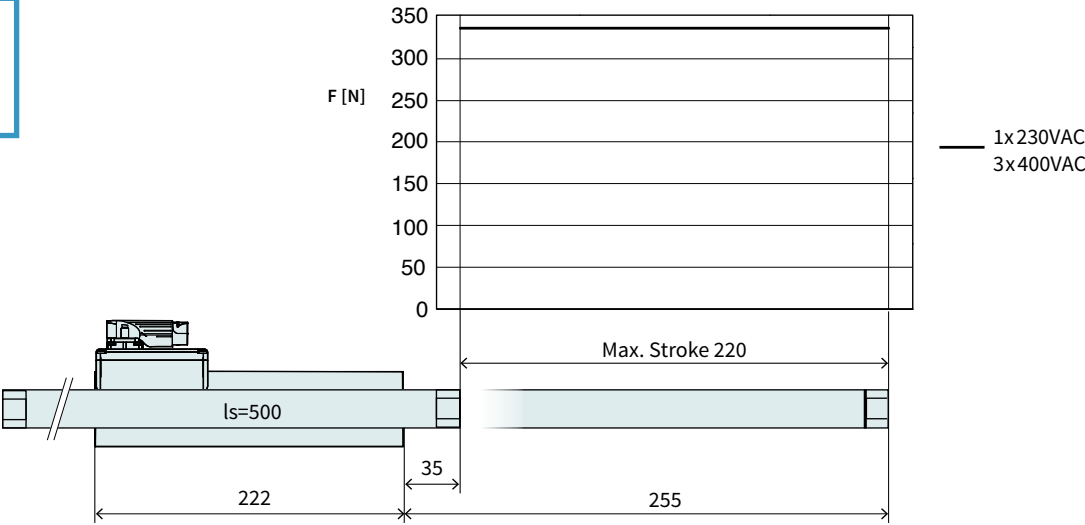
Stroke				
Max. Stroke	mm	(in)	130	(5.12)
Force				
Max. Force @ 1x230VAC	N	(lbf)	335	(75.4)
Max. Force @ 3x400VAC	N	(lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	60.8	(13.7)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.3	(7.3)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.7	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		0.99 / 1.3 / 1.8	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1100 / 600 / 310	
Mechanical Data				
Slider Length	mm	(in)	410	(16)
Slider Mass	g	(lb)	1740	(3.83)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782
PL01-28x410/330	Slider 'standard'	0150-1381

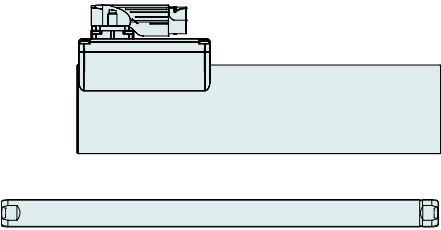
P10-54x120U/220-BL-TU

Max. Stroke: 220 mm
Peak Force: 335 N



Dimensions in mm

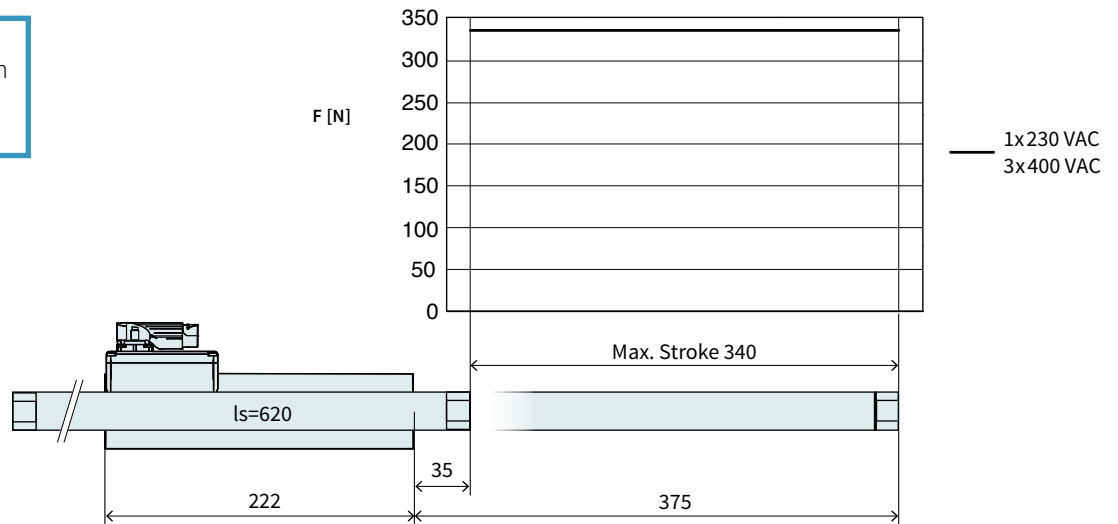
Technical Data P10-54x120U/220			
Stroke			
Max. Stroke	mm (in)	220	(8.65)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.45	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	500	(20)
Slider Mass	g (lb)	2160	(4.75)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2782
PL01-28x500/420	Slider 'standard'	0150-1382

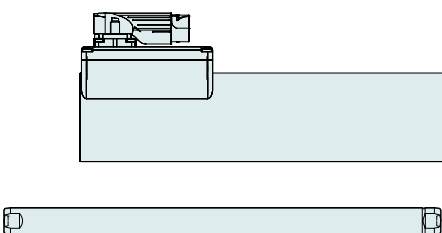
P10-54x120U/340-BL-TU

Max. Stroke: 340 mm
Peak Force: 335 N



Technical Data P10-54x120U/340

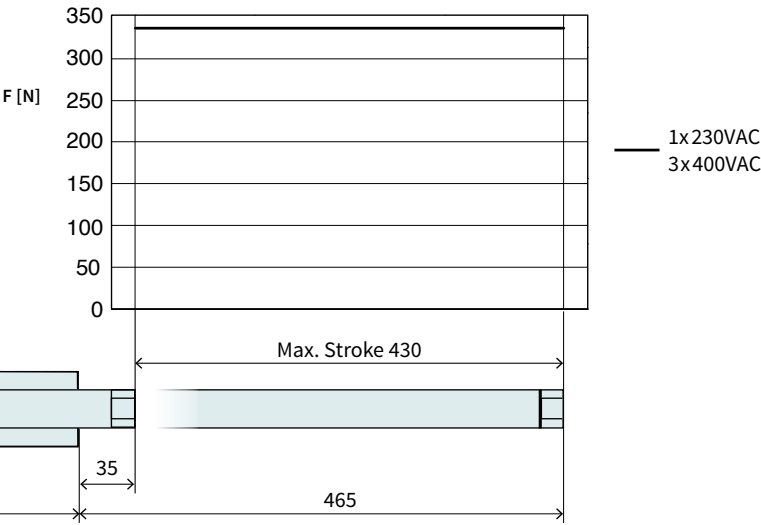
Stroke			
Max. Stroke	mm (in)	340	(13.4)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.3	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	620	(24)
Slider Mass	g (lb)	2720	(5.98)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782
PL01-28x620/540	Slider 'standard'	0150-1383

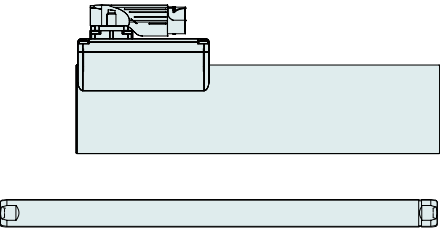
P10-54x120U/430-BL-TU

Max. Stroke: 430 mm
Peak Force: 335 N



Dimensions in mm

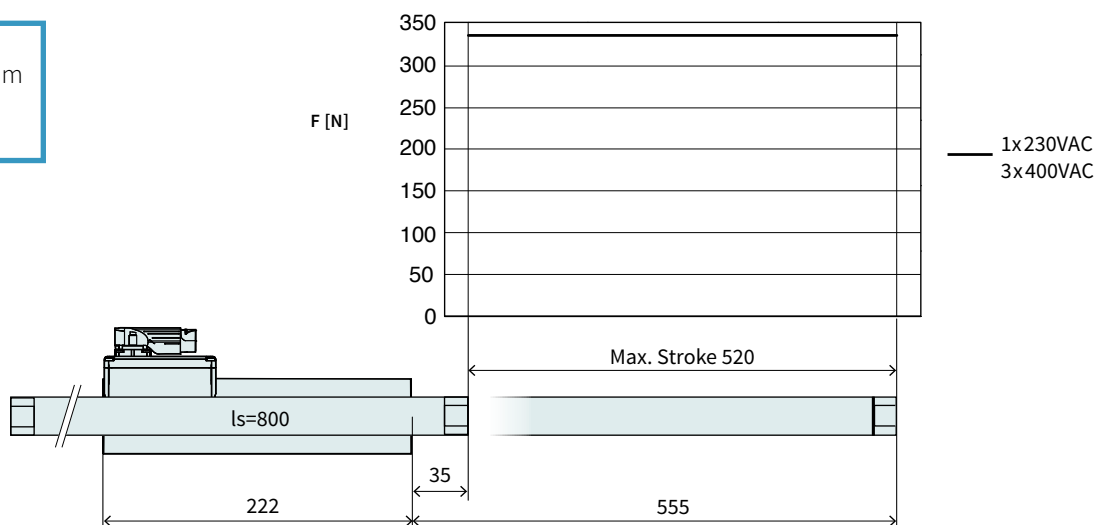
Technical Data P10-54x120U/430				
Stroke				
Max. Stroke	mm (in)		430	(16.89)
Force				
Max. Force @ 1x230VAC	N (lbf)		335	(75.4)
Max. Force @ 3x400VAC	N (lbf)		335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})		43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})		60.8	(13.7)
Velocity				
Max. Velocity @ 1x230VAC	m/s (in/s)		4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)		7.3	(7.3)
Position Detection				
Repeatability	mm (in)		±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		0.99 / 1.3 / 1.8	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1100 / 600 / 310	
Mechanical Data				
Slider Length	mm (in)		710	(28)
Slider Mass	g (lb)		3140	(6.91)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2782
PL01-28x710/630	Slider 'standard'	0150-1384

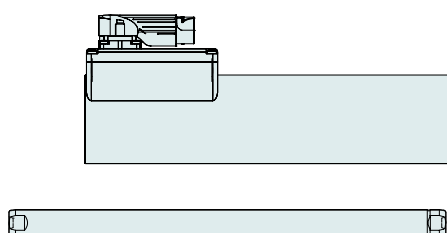
P10-54x120U/520-BL-TU

Max. Stroke: 520 mm
Peak Force: 335 N



Technical Data P10-54x120U/520

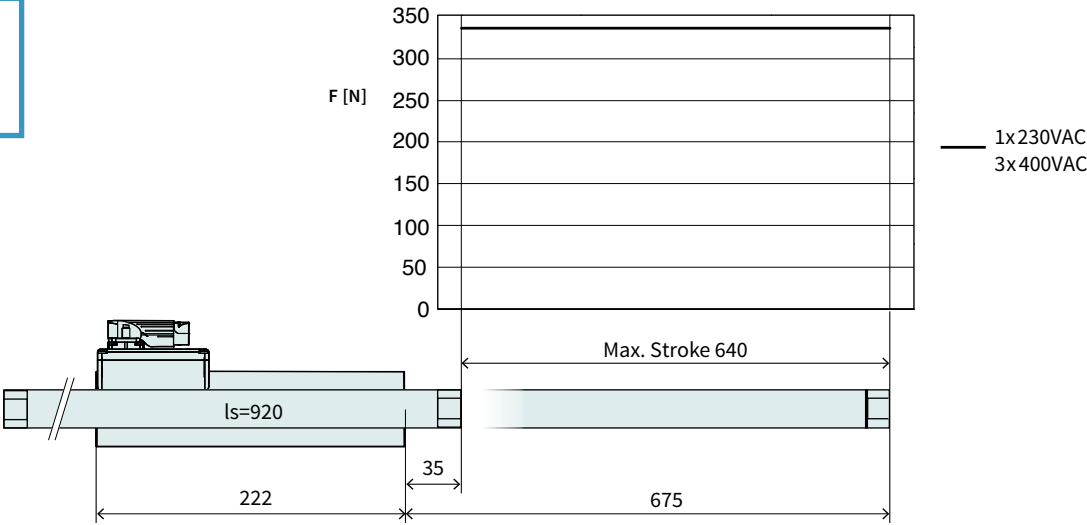
Stroke			
Max. Stroke	mm (in)	520	(20.49)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.25	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	800	(31)
Slider Mass	g (lb)	3560	(7.83)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782
PL01-28x800/720	Slider 'standard'	0150-1385

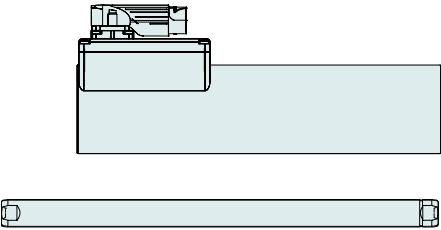
P10-54x120U/640-BL-TU

Max. Stroke: 640 mm
Peak Force: 335 N



Dimensions in mm

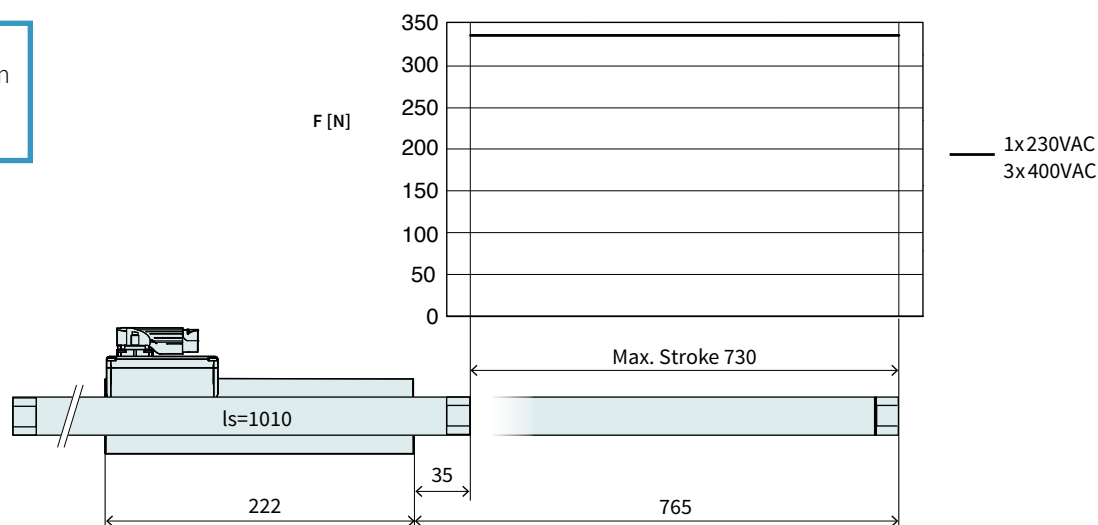
Technical Data P10-54x120U/640			
Stroke			
Max. Stroke	mm (in)	640	(25.19)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	920	(36)
Slider Mass	g (lb)	4120	(9.06)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782
PL01-28x920/840	Slider 'standard'	0150-1386

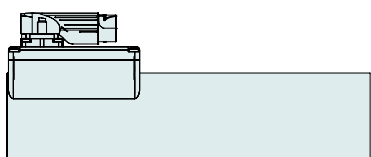
P10-54x120U/730-BL-TU

Max. Stroke: 730 mm
Peak Force: 335 N



Technical Data P10-54x120U/730

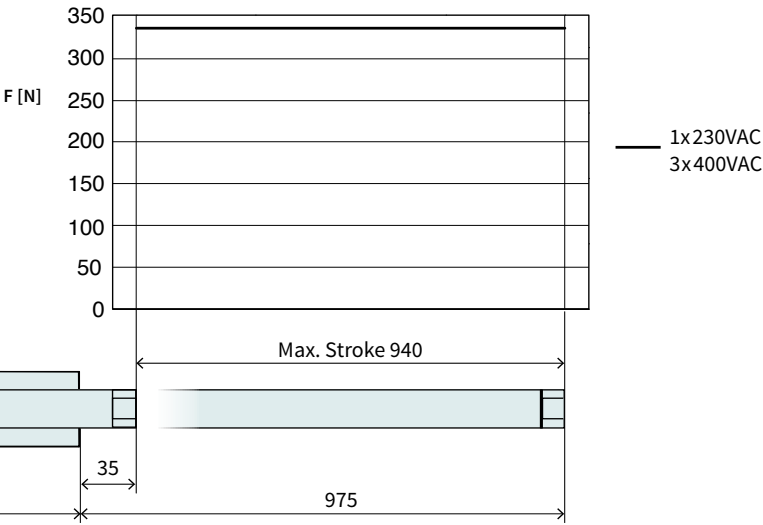
Stroke			
Max. Stroke	mm (in)	730	(28.69)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	1010	(40)
Slider Mass	g (lb)	4540	(10)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782
PL01-28x1010/930	Slider 'standard'	0150-1387

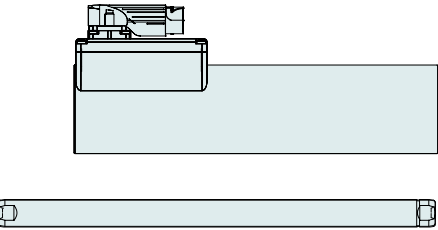
P10-54x120U/940-BL-TU

Max. Stroke: 940 mm
Peak Force: 335 N



Technical Data P10-54x120U/940

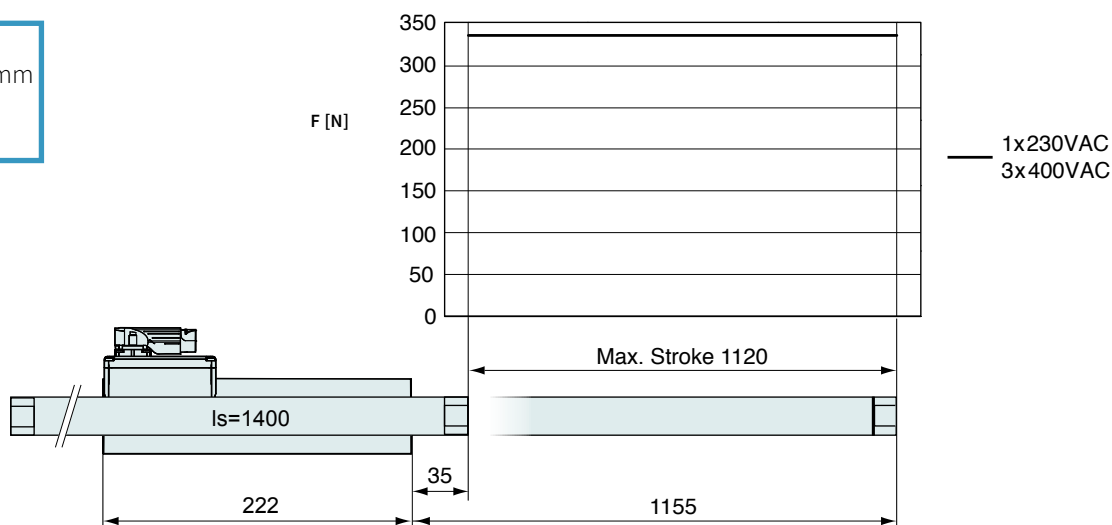
Stroke			
Max. Stroke	mm (in)	940	(36.99)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	1220	(48)
Slider Mass	g (lb)	5510	(12.12)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2782
PL01-28x1220/1140	Slider 'standard'	0150-1388

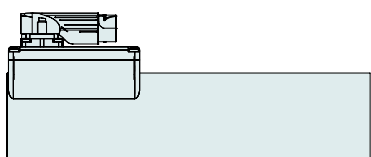
P10-54x120U/1120-BL-TU

Max. Stroke: 1120 mm
Peak Force: 335 N



Technical Data P10-54x120U/1120

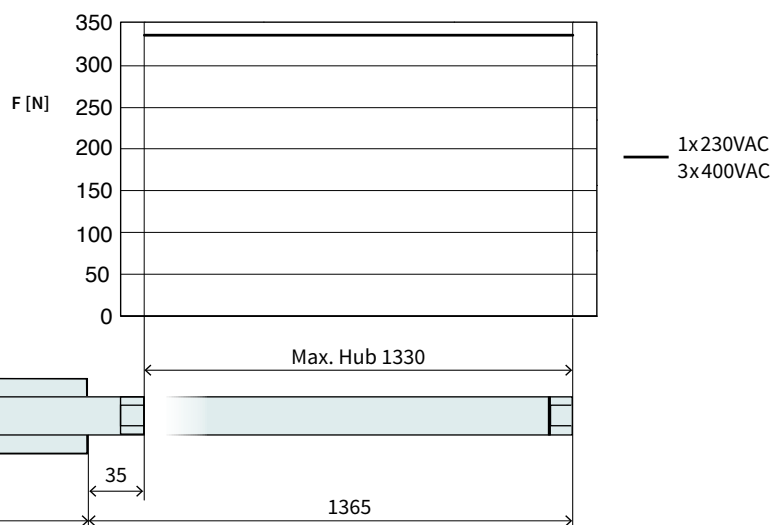
Stroke			
Max. Stroke	mm (in)	1120	(44.1)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	1400	(55)
Slider Mass	g (lb)	6350	(13.97)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782
PL01-28x1400/1320	Slider 'standard'	0150-1389

P10-54x120U/1330-BL-TU

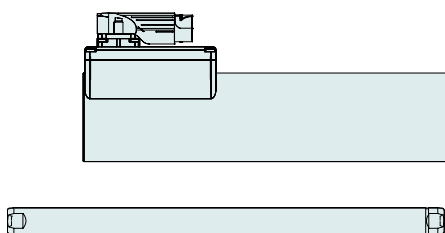
Max. Stroke: 1330 mm
Peak Force: 335 N



Dimensions in mm

Technical Data P10-54x120U/1330

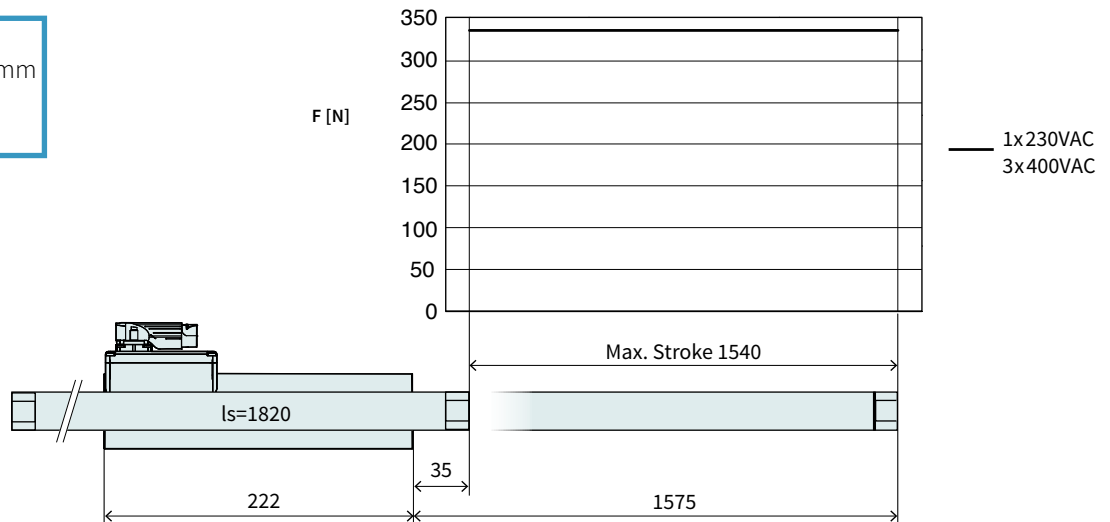
Stroke			
Max. Stroke	mm (in)	1330	(52.39)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	1610	(63)
Slider Mass	g (lb)	7330	(16.13)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2782
PL01-28x1610/1530	Slider 'standard'	0150-1390

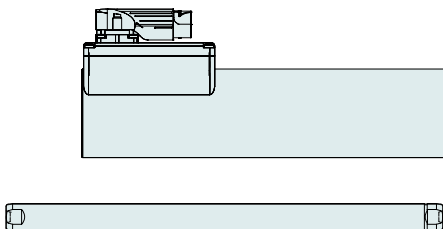
P10-54x120U/1540-BL-TU

Max. Stroke: 1540 mm
Peak Force: 335 N



Dimensions in mm

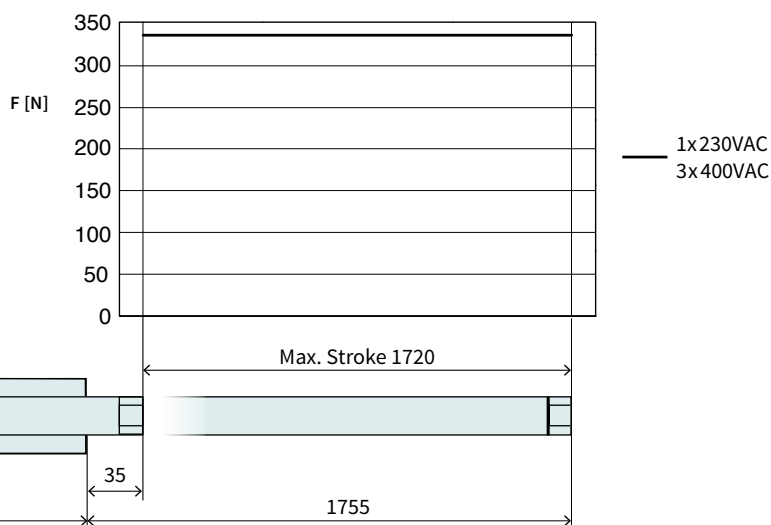
Technical Data P10-54x120U/1540				
Stroke				
Max. Stroke	mm	(in)	1540	(60.6)
Force				
Max. Force @ 1x230VAC	N	(lbf)	335	(75.4)
Max. Force @ 3x400VAC	N	(lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	60.8	(13.7)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.3	(7.3)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		±0.15	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		0.99 / 1.3 / 1.8	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1100 / 600 / 310	
Mechanical Data				
Slider Length	mm	(in)	1820	(72)
Slider Mass	g	(lb)	8300	(18.26)



Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2782
PL01-28x1820/1740	Slider 'standard'	0150-1395

P10-54x120U/1720-BL-TU

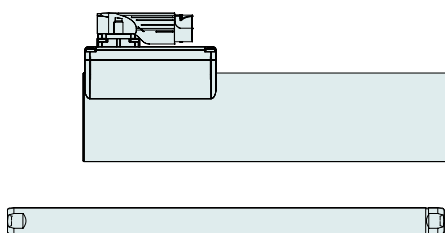
Max. Stroke: 1720 mm
Peak Force: 335 N



Dimensions in mm

Technical Data P10-54x120U/1720

Stroke			
Max. Stroke	mm (in)	1720	(67.7)
Force			
Max. Force @ 1x230VAC	N (lbf)	335	(75.4)
Max. Force @ 3x400VAC	N (lbf)	335	(75.4)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	60 / 81 / 110	(14 / 18 / 25)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	43	(9.67)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	60.8	(13.7)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.2	(169.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.3	(7.3)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	7.7 / 5.5	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	1.4 / 1.9 / 2.6	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	0.99 / 1.3 / 1.8	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.1 / 1.2 / 0.62	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1100 / 600 / 310	
Mechanical Data			
Slider Length	mm (in)	2000	(79)
Slider Mass	g (lb)	9140	(20.11)

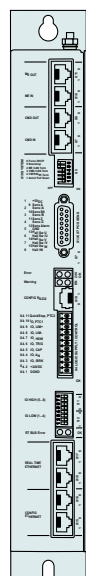


Item	Description	Item-No.
PS10-54x120U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2722
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2748
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2752
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2782
PL01-28x2000/1920	Slider 'standard'	0150-1396

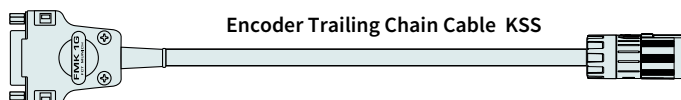
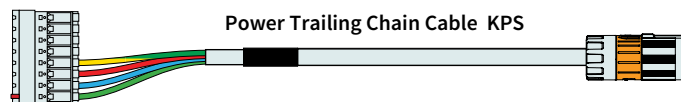
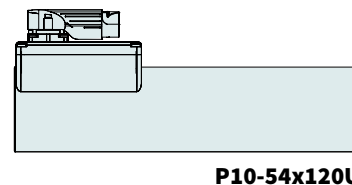
Motor Cable



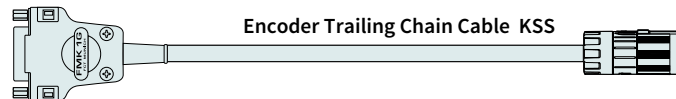
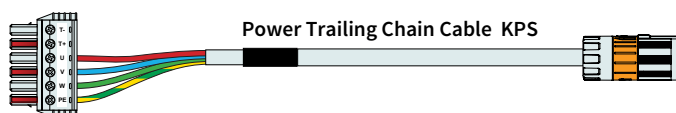
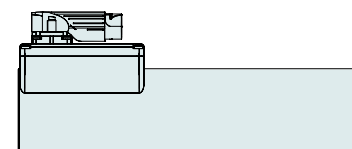
C1400



E1400

B Connector MC10-B/m**D15s** Connector MC01-D15s-45°/f**Uk** Connector MC10-Uk/f

P10-54x120U

L Connector MC10-L/m**D15s** Connector MC01-D15s-45°/f**Tk** Connector MC10-Tk/f**Uk** Connector MC10-Uk/f

P10-54x120U

ORDERING INFORMATION

TRAILING CHAIN CABLE FOR LINMOT DRIVES		
Item	Description	Item-No.
KPS07-04/02-L/Tk-3	Power Trailing Chain Cable E1400/P10-54, 3 m	0150-2670
KPS07-04/02-L/Tk-5	Power Trailing Chain Cable E1400/P10-54, 5 m	0150-2671
KPS07-04/02-L/Tk-8	Power Trailing Chain Cable E1400/P10-54, 8 m	0150-2672
KPS07-04/02-L/Tk-12	Power Trailing Chain Cable E1400/P10-54, 12 m	0150-2673
KPS07-04/02-B/Tk-3	Power Trailing Chain Cable C1400/P10-54, 3 m	0150-3648
KPS07-04/02-B/Tk-5	Power Trailing Chain Cable C1400/P10-54, 5 m	0150-3657
KPS07-04/02-B/Tk-8	Power Trailing Chain Cable C1400/P10-54, 8 m	0150-3658
KPS07-04/02-B/Tk-12	Power Trailing Chain Cable C1400/P10-54, 12 m	0150-3659
KSS 05-02/08-D15s/Uk-3	Encoder Trailing Chain Cable D15s/Uk, 3 m	0150-2650
KSS 05-02/08-D15s/Uk-5	Encoder Trailing Chain Cable D15s/Uk, 5 m	0150-2651
KSS 05-02/08-D15s/Uk-8	Encoder Trailing Chain Cable D15s/Uk, 8 m	0150-2652
KSS 05-02/08-D15s/Uk-12	Encoder Trailing Chain Cable D15s/Uk, 12 m	0150-2653

TRAILING CHAIN CABLES FOR THIRD PARTY DRIVES

Item	Description	Item-No.
KPS07-04/02-./Tk-10	Power Trailing Chain Cable .../Tk, 10 m	0150-3626
KPS07-04/02-./Tk-	Power Trailing Chain Cable .../Tk, Custom length	0150-3622
KSS 05-02/13-./Uk-10	Encoder Trailing Chain Cable ./Uk, 10 m	0150-3627
KSS 05-02/13-./Uk-	Encoder Trailing Chain Cable ./Uk, Custom length	0150-3619

CONNECTOR & CABLE (INDIVIDUAL)

Item	Description	Item-No.
MC10-L/m	Connector Power E1400/X2	0150-3382
MC01-D15/f	Motor Connector D15 (f)	0150-3136
MC10-Tk/f	Connector Power PS10-54	0150-3482
MC10-Uk/f	Connector Encoder PS10-54	0150-3483
KPS07-04/02	Power Trailing Chain Cable P10-54 (per m)	0150-2372
KSS05-02/08	Trailing Chain Cable Encoder LinMot (per m)	0150-2258
KSS05-02/13	Trailing Chain Cable Encoder P10-...-Dxx (per m)	0150-2259

MOTOR FLANGES



Item	Description	Item-No.
PF10-54x140	Flange for PS10-54x120	0150-2733

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".

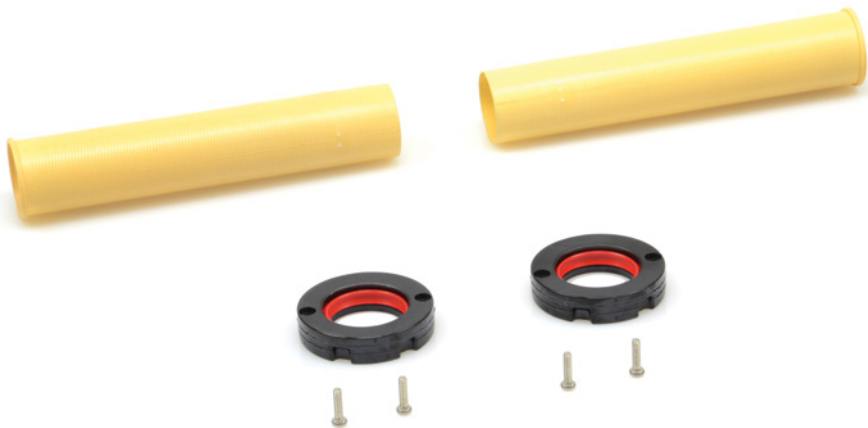
SLIDER MOUNTING



Item	Description	Item-No.
PLF01-28	Fixed Bearing Set for 27/28 mm sliders	0150-3087
PLF01-28-SS	Fixed Bearing Set for 27/28 mm sliders, stainless steel	0150-3297
PLL01-28	Floating Bearing for 28 mm sliders	0150-3094
PLM01-28-MK	Mounting Kit for 28 mm sliders	0150-3095

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KIT



Item	Description	Item-No.
PB10-54x120-L	Bearing kit for PS10-54x120	0150-3671

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-D15/D-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".

LINEAR MOTORS P10-54x180U



- ✓ 230VAC and 3 x 400VAC technology
- ✓ Peak forces up to 502 N
- ✓ LinMot Encoder or Incremental Encoder
- ✓ Extremely high dynamic
- ✓ Rotating push-pull TWIN connector for power and encoder cables
- ✓ Can also be controlled by standard third-party servo drives

LINEAR MOTORS P10-54x180U

Technical Data **421**

Motor Specifications

P10-54x180U/10 **426**

P10-54x180U/70 **427**

P10-54x180U/160 **428**

P10-54x180U/280 **429**

P10-54x180U/370 **430**

P10-54x180U/460 **431**

P10-54x180U/580 **432**

P10-54x180U/670 **433**

P10-54x180U/880 **434**

P10-54x180U/1060 **435**

P10-54x180U/1270 **436**

P10-54x180U/1480 **437**

P10-54x180U/1660 **438**

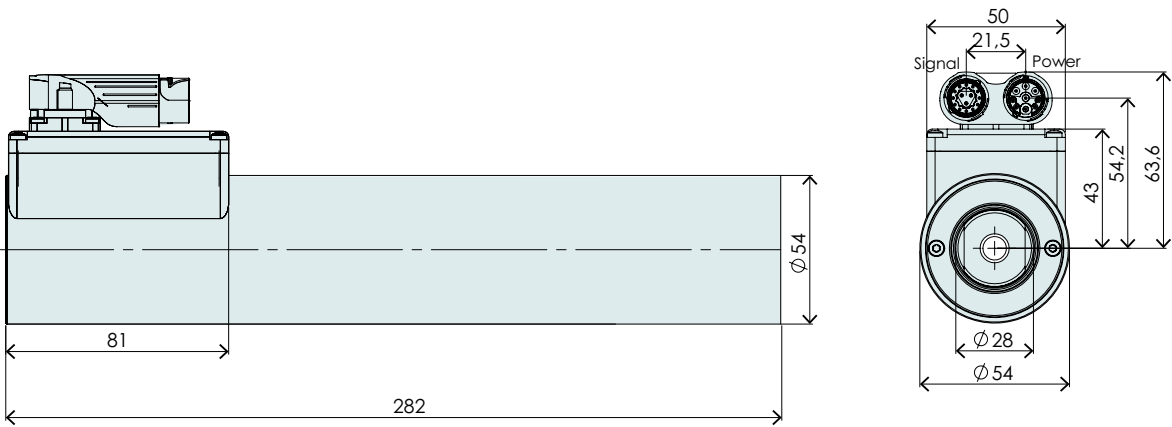
Accessories **439**



MOTOR FAMILY P10-54x180U

Technical Data				
Stroke				
Max. Stroke (ES)	mm	(in)	1660	(65.4)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(379.9)
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 @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Back EMF Constant	V _{pk} / (m/s)	(V _{pk} / (in/s))	38.1	(0.968)
Terminal Resistance 25 °C / 120 °C	Ohm		5.7 / 7.8	
Terminal Inductivity	mH		4.6	
Magnetic Period	mm	(in)	60	(2.35)
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Stator Diameter	mm	(in)	54	(2.1)
Stator Length	mm	(in)	282	(11)
Stator Mass	g	(lb)	2220	(4.88)
Slider Diameter	mm	(in)	28	(1.1)
Slider Length	mm	(in)	350 - 2000	(14 - 79)
Slider Mass	g	(lb)	1460 - 9140	(3.21 - 20.11)
IP Code			IP 65	

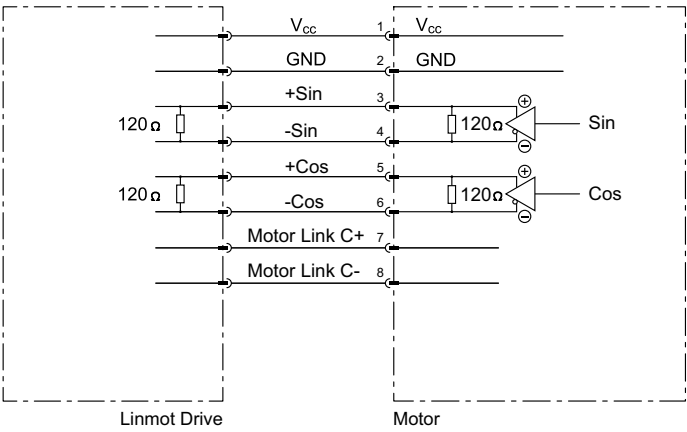
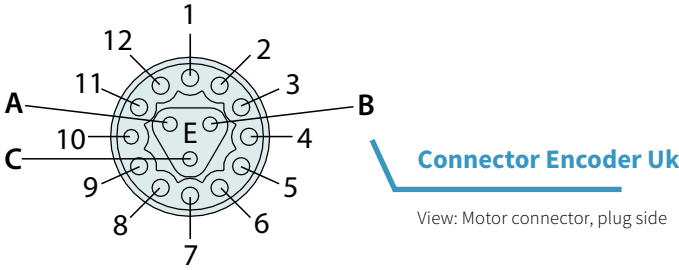
STATOR



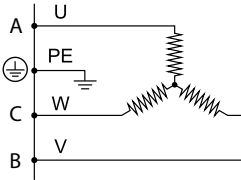
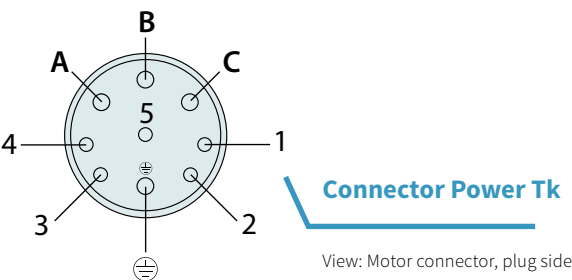
Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x180U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x180U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x180U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783

CONNECTOR PS10-54x180U-BL-TU

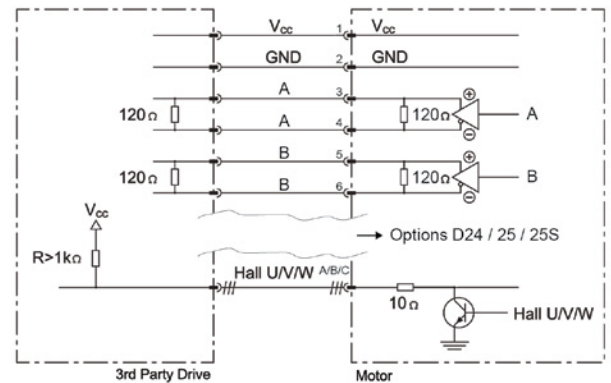
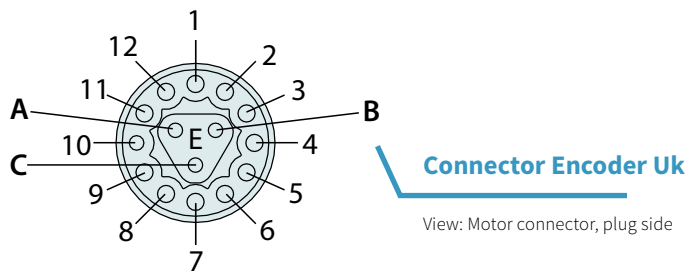
Motor Connector Wiring		Connector Encoder Uk	Wire Color Motor Cable
+Vcc	Supply	1	red
GND	Supply	2	black
Sin+	Encoder	3	yellow
Sin-	Encoder	4	orange
Cos+	Encoder	5	green
Cos-	Encoder	6	blue
Mot. Link C+	Communication	7	pink
Mot. Link C-	Communication	8	grey
n. c.	n. c.	9	n. c.
n. c.	n. c.	10	n. c.
n. c.	n. c.	11	n. c.
n. c.	n. c.	12	n. c.
n. c.	n. c.	A	n. c.
n. c.	n. c.	B	n. c.
n. c.	n. c.	C	n. c.



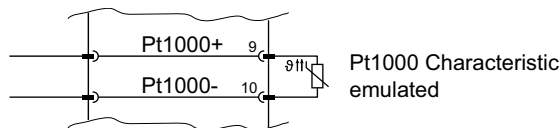
Motor Connector Wiring	Connector Power Tk	Wire Color Motor Cable
Phase U	A	red
PE	PE	yellow-green
Phase V	B	blue
Phase W	C	green
n. c.	1	n. c.
n. c.	2	n. c.
n. c.	3	n. c.
n. c.	4	n. c.
n. c.	5	n. c.



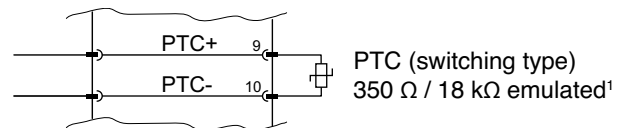
CONNECTOR PS10-54x180U-BL-TU-D24 / 25 / 25S



PS10-54x180U-BL-TU-D24



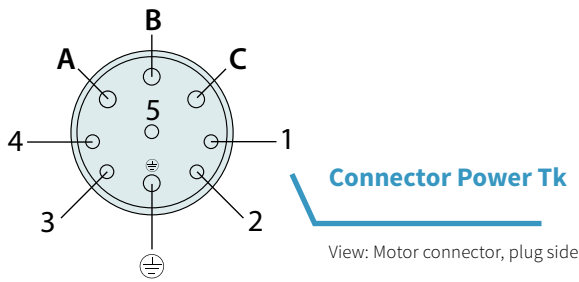
PS10-54x180U-BL-TU-D25 PS10-54x180U-BL-TU-D25S



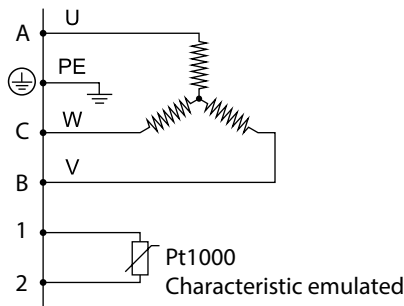
Motor Connector Wiring				
PS10-54x180U-BL-TU-D24	PS10-54x180U-BL-TU-D25 PS10-54x180U-BL-TU-D25S	Function	Connector Encoder Uk	Wire Color Motor Cable
+Vcc	+Vcc	Supply	1	white
GND	GND	Supply	2	brown
A	A	Encoder	3	grey
/A	/A	Encoder	4	pink
B	B	Encoder	5	blue
/B	/B	Encoder	6	red
-	-	-	7	green (do not connect)
-	-	-	8	yellow (do not connect)
Pt1000+	PTC+	Temp. ²	9	yellow-brown
Pt1000-	PTC-	Temp. ²	10	white-yellow
REF+	REF+	Encoder	11	black
REF-	REF-	Encoder	12	purple
Hall U	Hall U	Encoder	A	grey-red
Hall V	Hall V	Encoder	B	red-blue
Hall W	Hall W	Encoder	C	white-green

1) under 350 Ω = no fault, over 18 k Ω = Fault

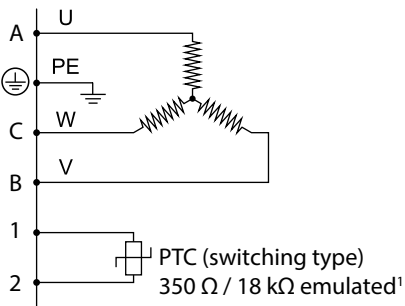
2) The temperature evaluation circuit must be powered from the encoder supply and must be at the same potential. The grounds of the temperature evaluation circuit and the encoder have to be connected. The encoder must have been powered on for at least 50 ms, before valid temperatures can be measured. If the encoder is powered off, 20k Ohms are measured between Pins 9 and 10.



PS10-54x180U-BL-TU-D24



**PS10-54x180U-BL-TU-D25
PS10-54x180U-BL-TU-D25S**



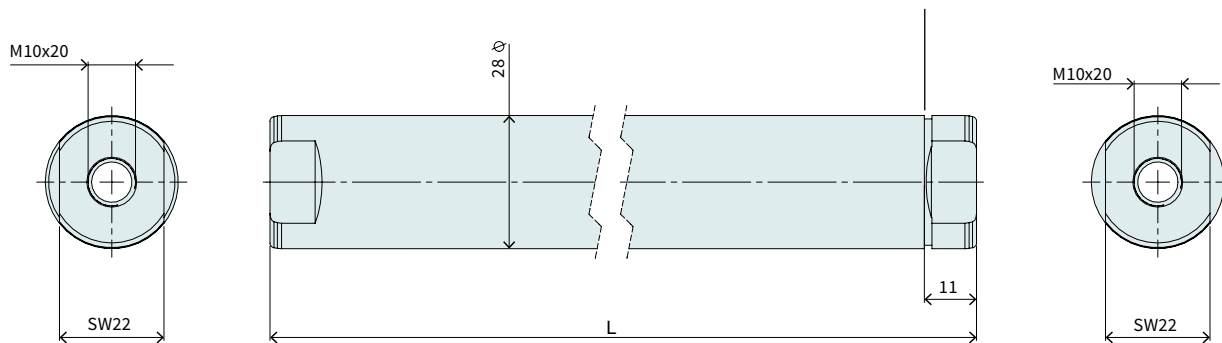
Motor Connector Wiring			
PS10-54x180U-BL-TU-D24	PS10-54x180U-BL-TU-D25 PS10-54x180U-BL-TU-D25S	Connector Power Tk	Wire Color Motor Cable
Phase U	Phase U	A	red
PE	PE	PE	yellow-green
Phase V	Phase V	B	blue
Phase W	Phase W	C	green
Pt1000+	PTC+	1	turquoise
Pt1000-	PTC-	2	grey
n. c.	n. c.	3	n. c.
n. c.	n. c.	4	n. c.
n. c.	n. c.	5	n. c.

1) under 350 Ω = no fault, over 18 Ω = Fault

SLIDER

Slider Standard

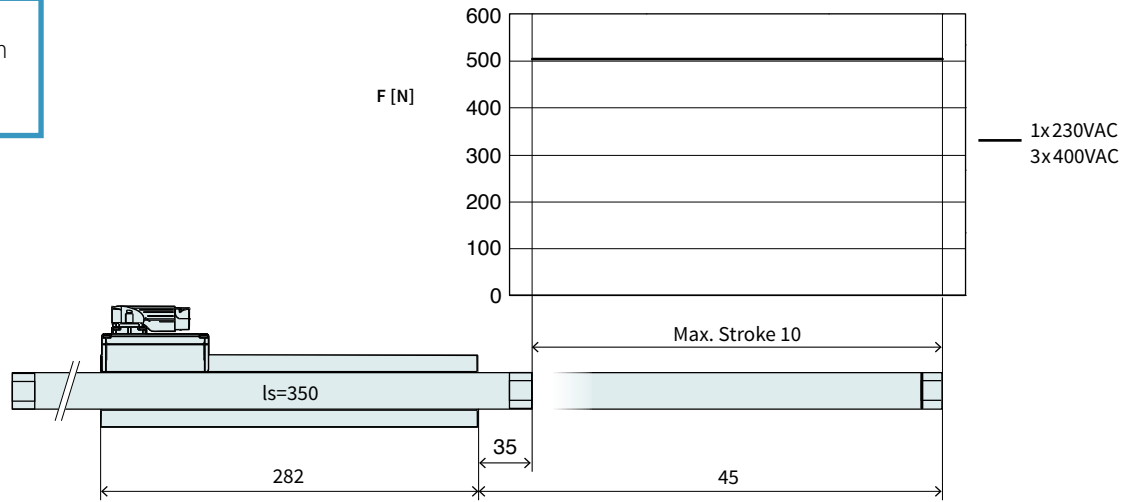
Number of grooves determines the slider type (see chapter 2 / slider) and marks the front end.



Slider Standard			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-28x350/270	Slider 'standard'	10	0150-1380
PL01-28x410/330	Slider 'standard'	70	0150-1381
PL01-28x500/420	Slider 'standard'	160	0150-1382
PL01-28x620/540	Slider 'standard'	280	0150-1383
PL01-28x710/630	Slider 'standard'	370	0150-1384
PL01-28x800/720	Slider 'standard'	460	0150-1385
PL01-28x920/840	Slider 'standard'	580	0150-1386
PL01-28x1010/930	Slider 'standard'	670	0150-1387
PL01-28x1220/1140	Slider 'standard'	880	0150-1388
PL01-28x1400/1320	Slider 'standard'	1060	0150-1389
PL01-28x1610/1530	Slider 'standard'	1270	0150-1390
PL01-28x1820/1740	Slider 'standard'	1480	0150-1395
PL01-28x2000/1920	Slider 'standard'	1660	0150-1396

P10-54x180U/10-BL-TU

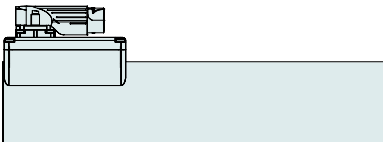
Max. Stroke: 10 mm
Peak Force: 502 N



Dimensions in mm

Technical Data P10-54x180U/10

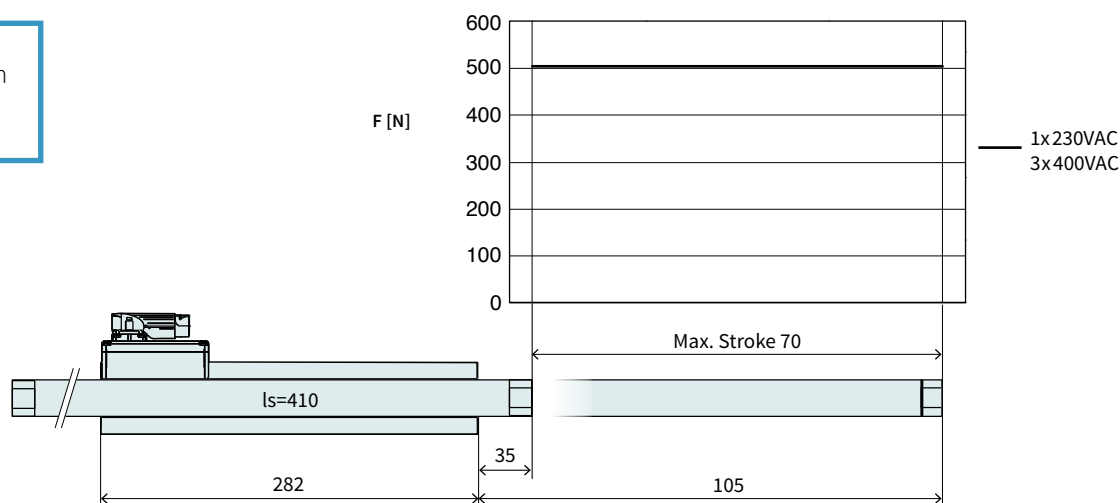
Stroke				
Max. Stroke	mm	(in)	10	(0.39)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(9.5)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 7.6	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Slider Length	mm	(in)	350	(14)
Slider Mass	g	(lb)	1460	(3.21)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2783
PL01-28x350/270	Slider 'standard'	0150-1380

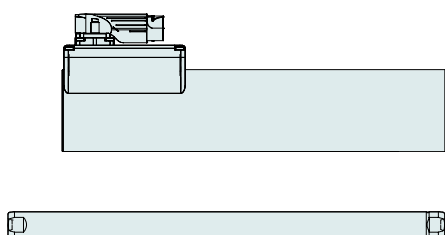
P10-54x180U/70-BL-TU

Max. Stroke: 70 mm
Peak Force: 502 N



Dimensions in mm

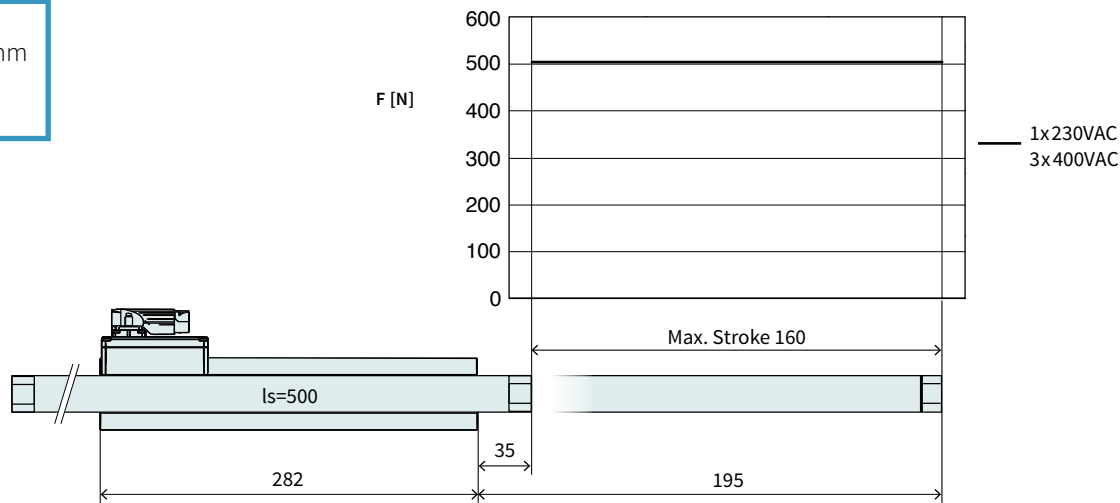
Technical Data P10-54x180U/70				
Stroke				
Max. Stroke	mm	(in)	70	(2.75)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(9.5)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 1.15	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Slider Length	mm	(in)	410	(16)
Slider Mass	g	(lb)	1740	(3.83)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x410/330	Slider 'standard'	0150-1381

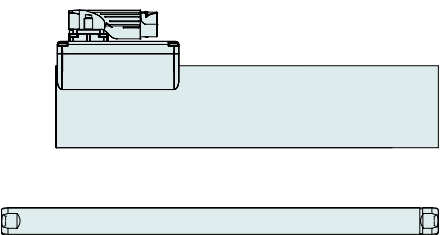
P10-54x180U/160-BL-TU

Max. Stroke: 160 mm
Peak Force: 502 N



Dimensions in mm

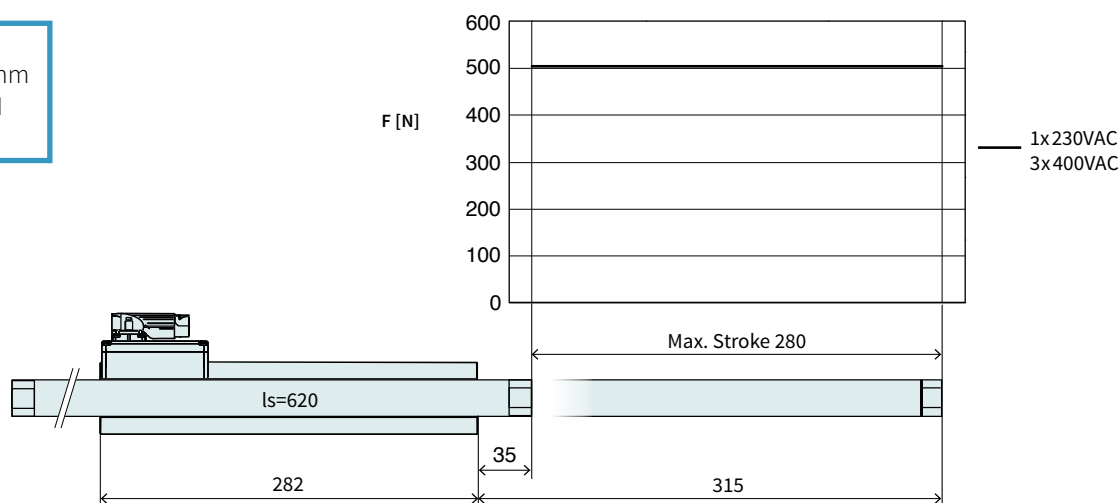
Technical Data P10-54x180U/160				
Stroke				
Max. Stroke	mm	(in)	160	(6.29)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(9.5)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.55	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	2160	(4.75)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2783
PL01-28x500/420	Slider 'standard'	0150-1382

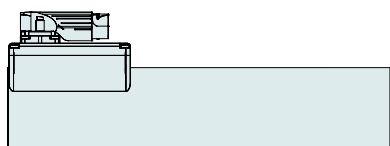
P10-54x180U/280-BL-TU

Max. Stroke: 280 mm
Peak Force: 502 N



Technical Data P10-54x180U/280

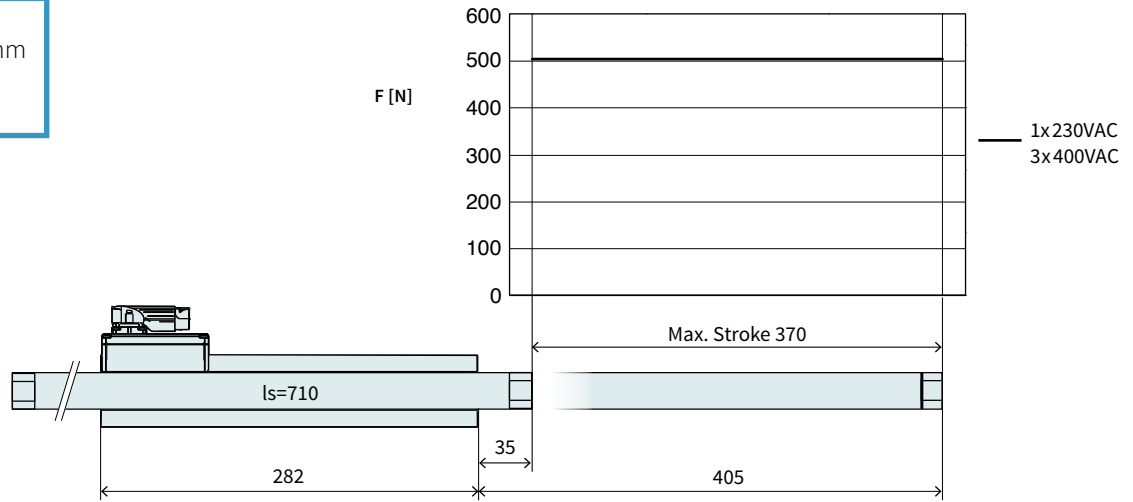
Stroke			
Max. Stroke	mm (in)	280	(10.99)
Force			
Max. Force @ 1x230VAC	N (lbf)	502	(113)
Max. Force @ 3x400VAC	N (lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	46.7	(10.5)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	9.5	(9.5)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.35	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.5	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1200 / 650 / 320	
Mechanical Data			
Slider Length	mm (in)	620	(24)
Slider Mass	g (lb)	2720	(5.98)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x620/540	Slider 'standard'	0150-1383

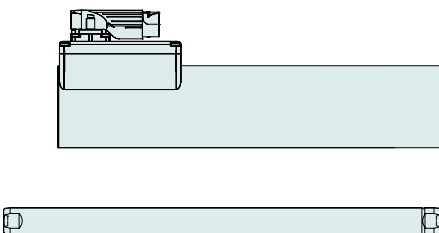
P10-54x180U/370-BL-TU

Max. Stroke: 370 mm
Peak Force: 502 N



Dimensions in mm

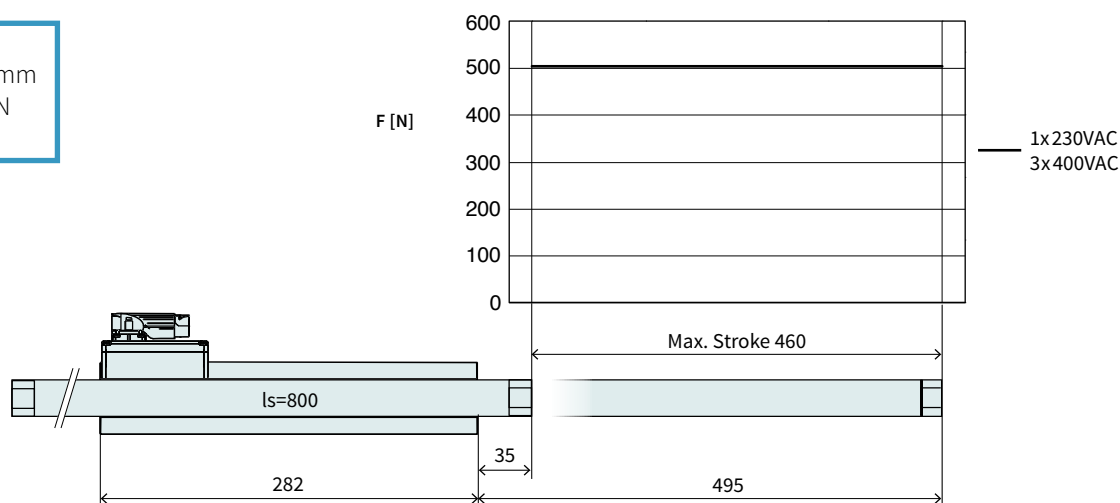
Technical Data P10-54x180U/370				
Stroke				
Max. Stroke	mm	(in)	370	(14.59)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(9.5)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Slider Length	mm	(in)	710	(28)
Slider Mass	g	(lb)	3140	(6.91)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x710/630	Slider 'standard'	0150-1384

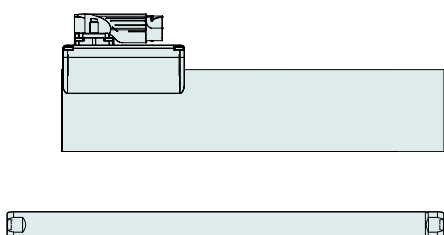
P10-54x180U/460-BL-TU

Max. Stroke: 460 mm
Peak Force: 502 N



Dimensions in mm

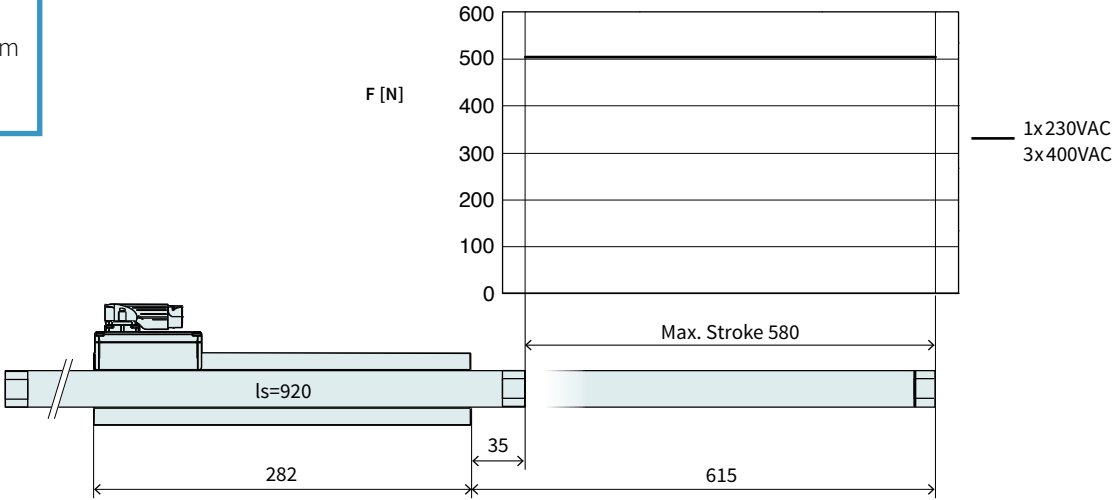
Technical Data P10-54x180U/460			
Stroke			
Max. Stroke	mm (in)	460	(18.1)
Force			
Max. Force @ 1x230VAC	N (lbf)	502	(113)
Max. Force @ 3x400VAC	N (lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	46.7	(10.5)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	9.5	(9.5)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.25	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.5	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1200 / 650 / 320	
Mechanical Data			
Slider Length	mm (in)	800	(31)
Slider Mass	g (lb)	3560	(7.83)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x800/720	Slider 'standard'	0150-1385

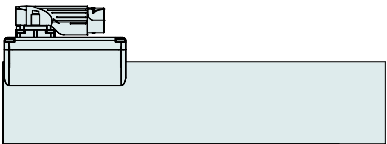
P10-54x180U/580-BL-TU

Max. Stroke: 580 mm
Peak Force: 502 N



Technical Data P10-54x180U/580

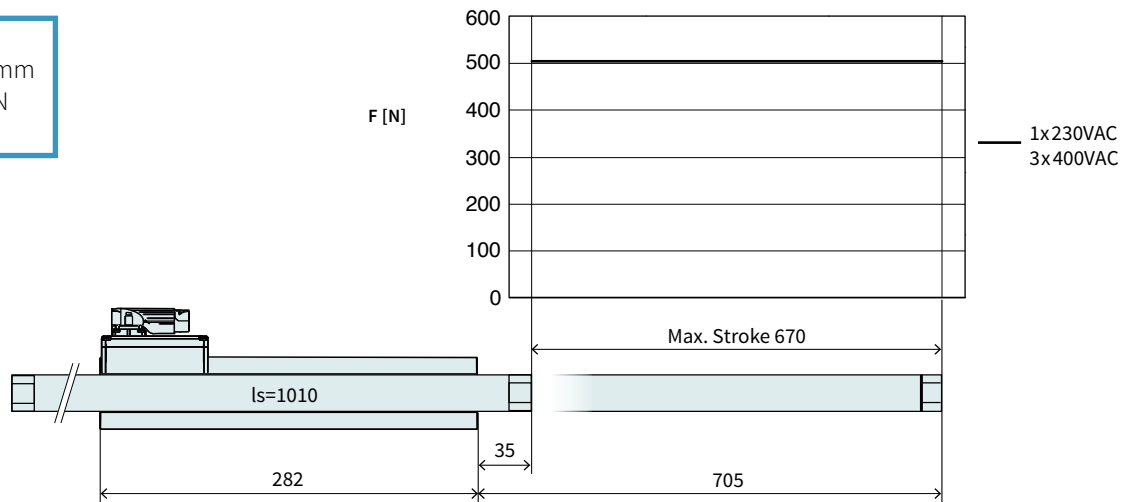
Stroke				
Max. Stroke	mm	(in)	580	(22.8)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(9.5)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Slider Length	mm	(in)	920	(36)
Slider Mass	g	(lb)	4120	(9.06)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2783
PL01-28x920/840	Slider 'standard'	0150-1386

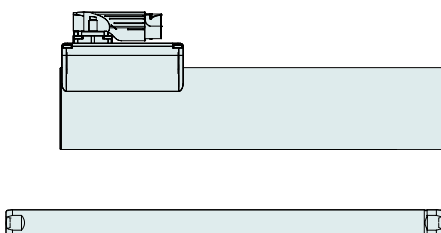
P10-54x180U/670-BL-TU

Max. Stroke: 670 mm
Peak Force: 502 N



Technical Data P10-54x180U/670

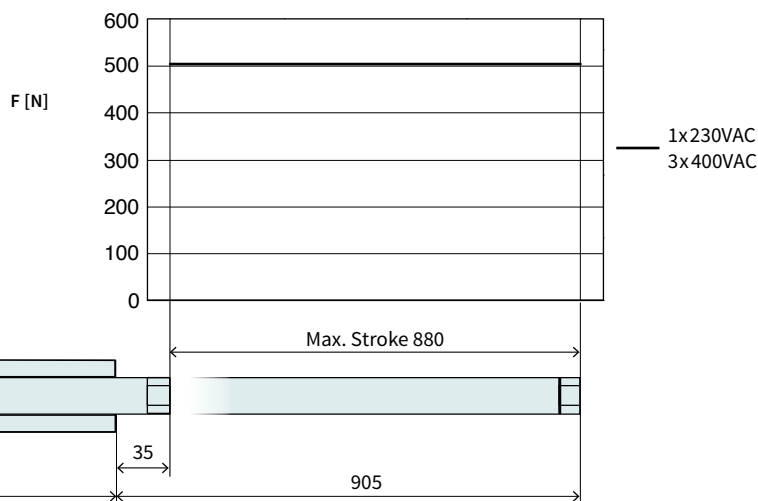
Stroke			
Max. Stroke	mm (in)	670	(26.39)
Force			
Max. Force @ 1x230VAC	N (lbf)	502	(113)
Max. Force @ 3x400VAC	N (lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	46.7	(10.5)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	9.5	(9.5)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.5	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1200 / 650 / 320	
Mechanical Data			
Slider Length	mm (in)	1010	(40)
Slider Mass	g (lb)	4540	(10)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x1010/930	Slider 'standard'	0150-1387

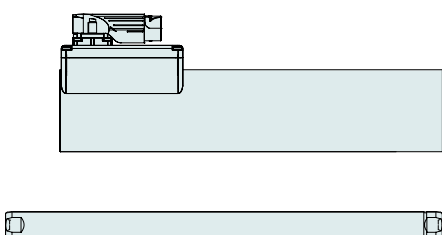
P10-54x180U/880-BL-TU

Max. Stroke: 880 mm
Peak Force: 502 N



Dimensions in mm

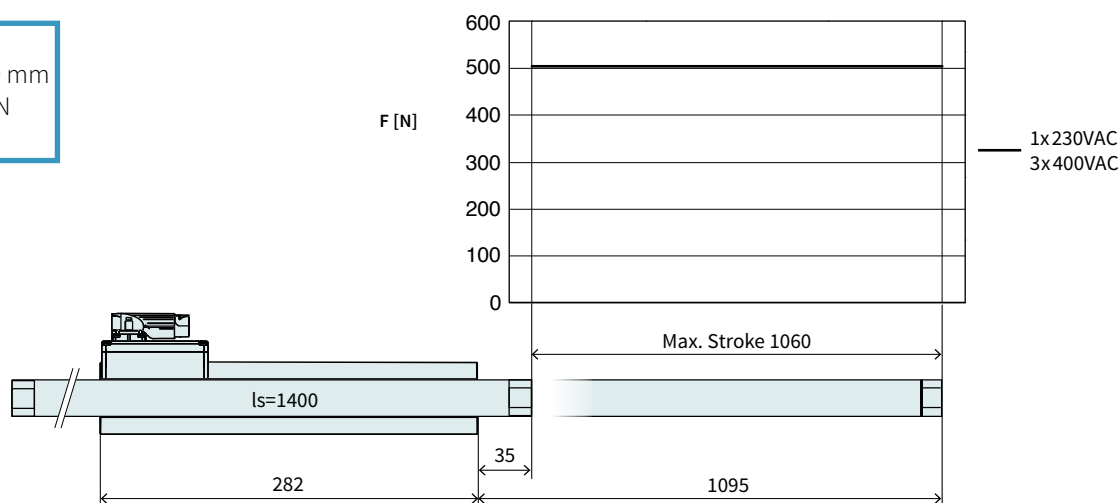
Technical Data P10-54x180U/880				
Stroke				
Max. Stroke	mm	(in)	880	(34.6)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(9.5)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Slider Length	mm	(in)	1220	(48)
Slider Mass	g	(lb)	5510	(12.12)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x1220/1140	Slider 'standard'	0150-1388

P10-54x180U/1060-BL-TU

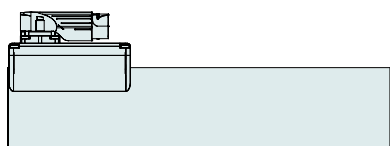
Max. Stroke: 1060 mm
Peak Force: 502 N



Dimensions in mm

Technical Data P10-54x180U/1060

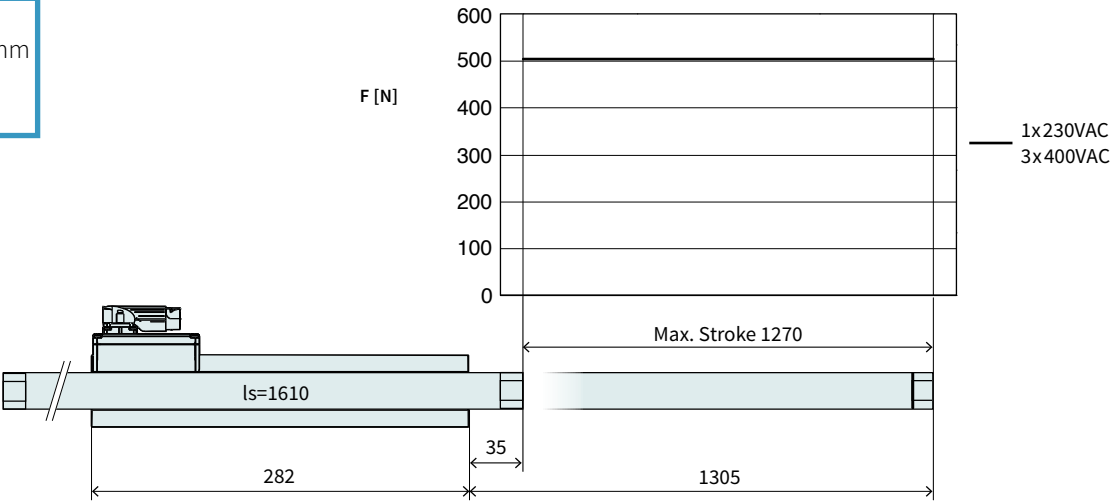
Stroke			
Max. Stroke	mm (in)	1060	(41.7)
Force			
Max. Force @ 1x230VAC	N (lbf)	502	(113)
Max. Force @ 3x400VAC	N (lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	46.7	(10.5)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	9.5	(9.5)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.5	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1200 / 650 / 320	
Mechanical Data			
Slider Length	mm (in)	1400	(55)
Slider Mass	g (lb)	6350	(13.97)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x1400/1320	Slider 'standard'	0150-1389

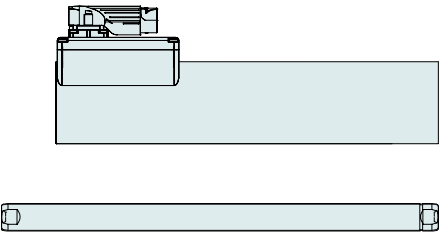
P10-54x180U/1270-BL-TU

Max. Stroke: 1270 mm
Peak Force: 502 N



Dimensions in mm

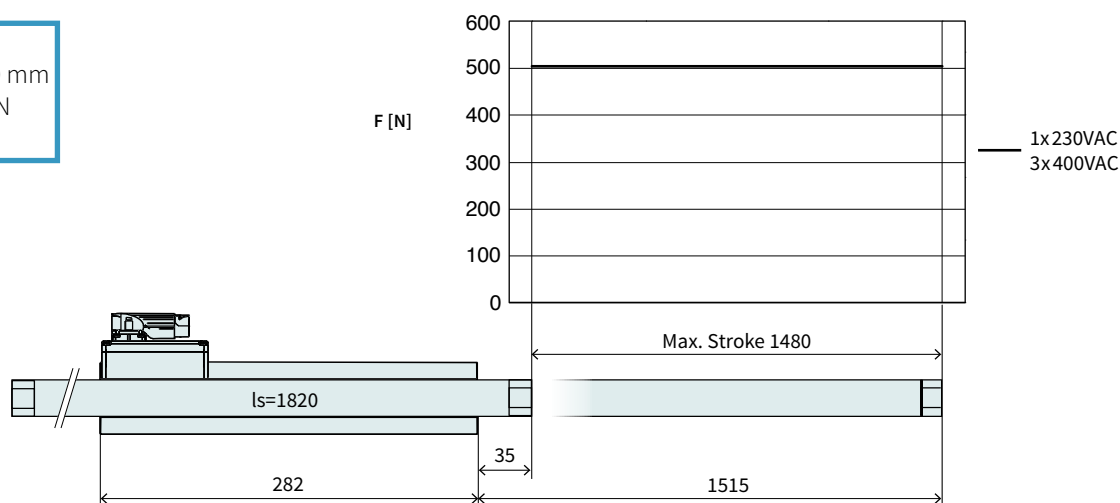
Technical Data P10-54x180U/1270				
Stroke				
Max. Stroke	mm	(in)	1270	(49.99)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(9.5)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Slider Length	mm	(in)	1610	(63)
Slider Mass	g	(lb)	7330	(16.13)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x1610/1530	Slider 'standard'	0150-1390

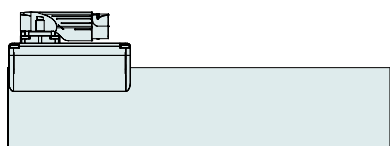
P10-54x180U/1480-BL-TU

Max. Stroke: 1480 mm
Peak Force: 502 N



Dimensions in mm

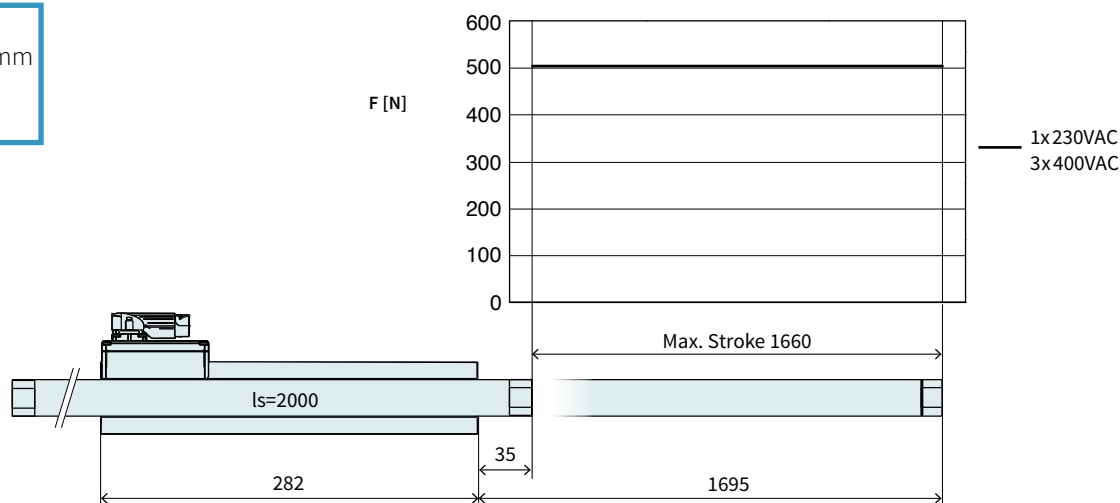
Technical Data P10-54x180U/1480				
Stroke				
Max. Stroke	mm	(in)	1480	(58.29)
Force				
Max. Force @ 1x230VAC	N	(lbf)	502	(113)
Max. Force @ 3x400VAC	N	(lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	46.7	(10.5)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	9.5	(9.5)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		±0.15	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1200 / 650 / 320	
Mechanical Data				
Slider Length	mm	(in)	1820	(72)
Slider Mass	g	(lb)	8300	(18.26)



Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2783
PL01-28x1820/1740	Slider 'standard'	0150-1395

P10-54x180U/1660-BL-TU

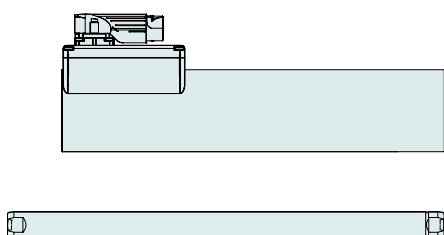
Max. Stroke: 1660 mm
Peak Force: 502 N



Dimensions in mm

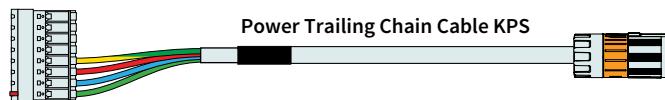
Technical Data P10-54x180U/1660

Stroke			
Max. Stroke	mm (in)	1660	(65.4)
Force			
Max. Force @ 1x230VAC	N (lbf)	502	(113)
Max. Force @ 3x400VAC	N (lbf)	502	(113)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	84 / 110 / 160	(19 / 26 / 36)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	33	(7.42)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	46.7	(10.5)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	5.4	(219.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	9.5	(9.5)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.6 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.5	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.6 / 0.86 / 0.43	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1200 / 650 / 320	
Mechanical Data			
Slider Length	mm (in)	2000	(79)
Slider Mass	g (lb)	9140	(20.11)

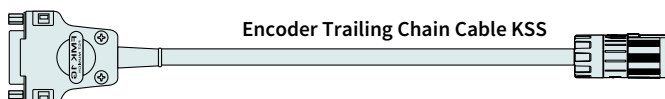


Item	Description	Item-No.
PS10-54x180U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2723
PS10-54x120U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2749
PS10-54x120U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2753
PS10-54x120U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2783
PL01-28x2000/1920	Slider 'standard'	0150-1396

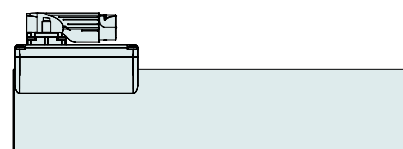
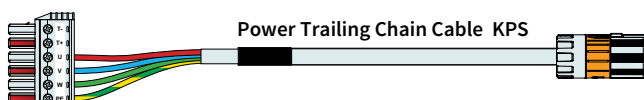
Motor Cable

**C1400****E1400****B** Connector MC10-B/m**Tk** Connector MC10-Tk/f

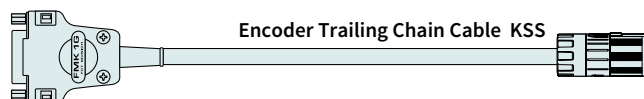
Power Trailing Chain Cable KPS



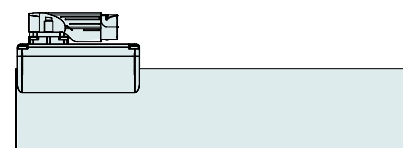
Encoder Trailing Chain Cable KSS

**P10-54x180U****D15s** Connector MC01-D15s-45°/f**Uk** Connector MC10-Uk/f**L** Connector MC10-L/m**Tk** Connector MC10-Tk/f

Power Trailing Chain Cable KPS



Encoder Trailing Chain Cable KSS

**P10-54x180U****D15s** Connector MC01-D15s-45°/f**Uk** Connector MC10-Uk/f

ORDERING INFORMATION

TRAILING CHAIN CABLE FOR LINMOT DRIVES

Item	Description	Item-No.
KPS07-04/02-L/Tk-3	Power Trailing Chain Cable E1400/P10-54, 3 m	0150-2670
KPS07-04/02-L/Tk-5	Power Trailing Chain Cable E1400/P10-54, 5 m	0150-2671
KPS07-04/02-L/Tk-8	Power Trailing Chain Cable E1400/P10-54, 8 m	0150-2672
KPS07-04/02-L/Tk-12	Power Trailing Chain Cable E1400/P10-54, 12 m	0150-2673
KPS07-04/02-B/Tk-3	Power Trailing Chain Cable C1400/P10-54, 3 m	0150-3648
KPS07-04/02-B/Tk-5	Power Trailing Chain Cable C1400/P10-54, 5 m	0150-3657
KPS07-04/02-B/Tk-8	Power Trailing Chain Cable C1400/P10-54, 8 m	0150-3658
KPS07-04/02-B/Tk-12	Power Trailing Chain Cable C1400/P10-54, 12 m	0150-3659
KSS 05-02/08-D15s/Uk-3	Encoder Trailing Chain Cable D15s/Uk, 3 m	0150-2650
KSS 05-02/08-D15s/Uk-5	Encoder Trailing Chain Cable D15s/Uk, 5 m	0150-2651
KSS 05-02/08-D15s/Uk-8	Encoder Trailing Chain Cable D15s/Uk, 8 m	0150-2652
KSS 05-02/08-D15s/Uk-12	Encoder Trailing Chain Cable D15s/Uk, 12 m	0150-2653

TRAILING CHAIN CABLES FOR THIRD PARTY DRIVES

Item	Description	Item-No.
KPS07-04/02-./Tk-10	Power Trailing Chain Cable .../Tk, 10 m	0150-3626
KPS07-04/02-./Tk-	Power Trailing Chain Cable .../Tk, Custom length	0150-3622
KSS 05-02/13-./Uk-10	Encoder Trailing Chain Cable ./Uk, 10 m	0150-3627
KSS 05-02/13-./Uk-	Encoder Trailing Chain Cable ./Uk, Custom length	0150-3619

CONNECTOR & CABLE (INDIVIDUAL)

Item	Description	Item-No.
MC10-L/m	Connector Power E1400/X2	0150-3382
MC01-D15/f	Motor Connector D15 (f)	0150-3136
MC10-Tk/f	Connector Power PS10-54	0150-3482
MC10-Uk/f	Connector Encoder PS10-54	0150-3483
KPS07-04/02	Power Trailing Chain Cable P10-54 (per m)	0150-2372
KSS05-02/08	Trailing Chain Cable Encoder LinMot (per m)	0150-2258
KSS05-02/13	Trailing Chain Cable Encoder P10-...-Dxx (per m)	0150-2259

MOTOR FLANGES



Item	Description	Item-No.
PF10-54x200	Flange for PS10-54x180	0150-2734

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".

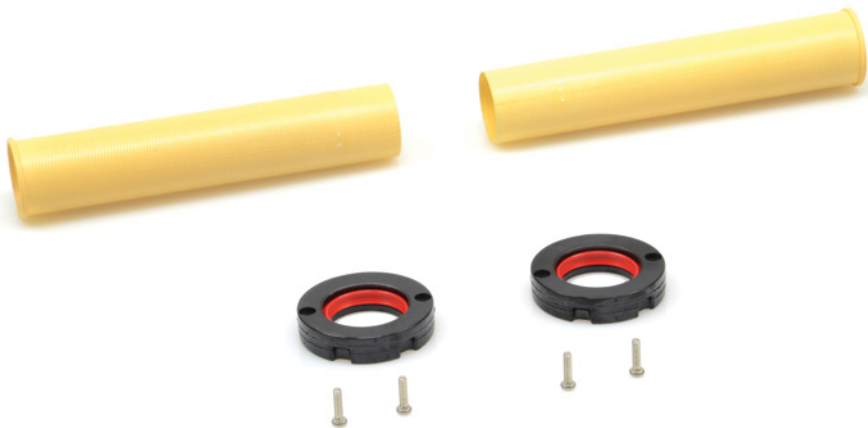
SLIDER MOUNTING



Item	Description	Item-No.
PLF01-28	Fixed Bearing Set for 27/28 mm sliders	0150-3087
PLF01-28-SS	Fixed Bearing Set for 27/28 mm sliders, stainless steel	0150-3297
PLL01-28	Floating Bearing for 28 mm sliders	0150-3094
PLM01-28-MK	Mounting Kit for 28 mm sliders	0150-3095

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KIT



Item	Description	Item-No.
PB10-54x180-L	Bearing Kit for PS10-54x180	0150-3672

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-D15/D-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".

LINEAR MOTORS P10-54x240U



- ✓ 230VAC and 3 x 400VAC technology
- ✓ Peak forces up to 669 N
- ✓ LinMot Encoder or Incremental Encoder
- ✓ Extremely high dynamic
- ✓ Rotating push-pull TWIN connector for power and encoder cables
- ✓ Can also be controlled by standard third-party servo drives

LINEAR MOTORS P10-54x240U

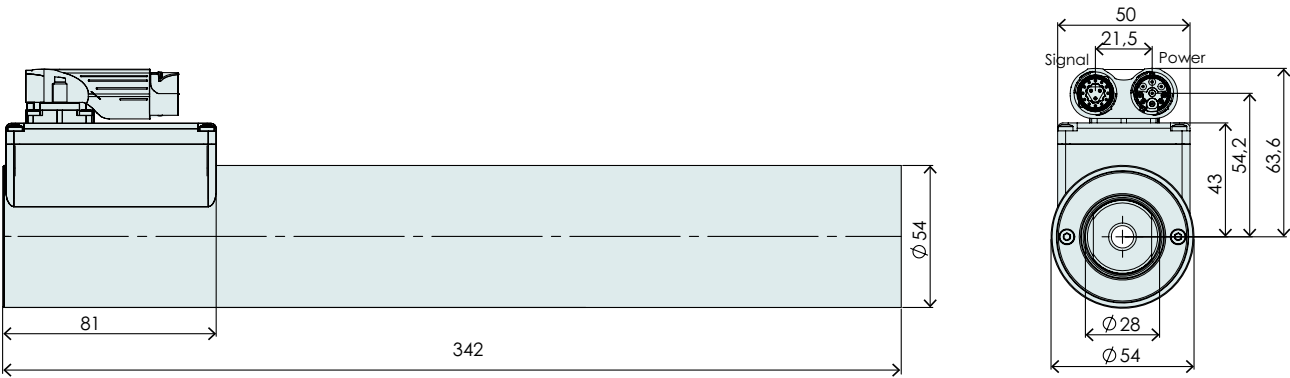
Technical Data	445
Motor Specifications	
P10-54x240U/10	450
P10-54x240U/100	451
P10-54x240U/220	452
P10-54x240U/310	453
P10-54x240U/400	454
P10-54x240U/520	455
P10-54x240U/610	456
P10-54x240U/820	457
P10-54x240U/1000	458
P10-54x240U/1210	459
P10-54x240U/1420	460
P10-54x240U/1600	461
Accessories	462



MOTOR FAMILY P10-54x240U

Technical Data				
Stroke				
Max. Stroke (ES)	mm	(in)	1600	(63)
Force				
Max. Force @ 1x230VAC	N	(lbf)	669	(150)
Max. Force @ 3x400VAC	N	(lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(279.9)
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 @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.4	
Back EMF Constant	V _{pk} / (m/s)	(V _{pk} / (in/s))	50.8	(1.29)
Terminal Resistance 25 °C / 120 °C	Ohm		7.5 / 10	
Terminal Inductivity	mH		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 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 650 / 330	
Mechanical Data				
Stator Diameter	mm	(in)	54	(2.1)
Stator Length	mm	(in)	342	(13)
Stator Mass	g	(lb)	2710	(5.96)
Slider Diameter	mm	(in)	28	(1.1)
Slider Length	mm	(in)	410 - 2000	(16 - 79)
Slider Mass	g	(lb)	1740 - 9140	(3.83 - 20.11)
IP Code			IP 65	

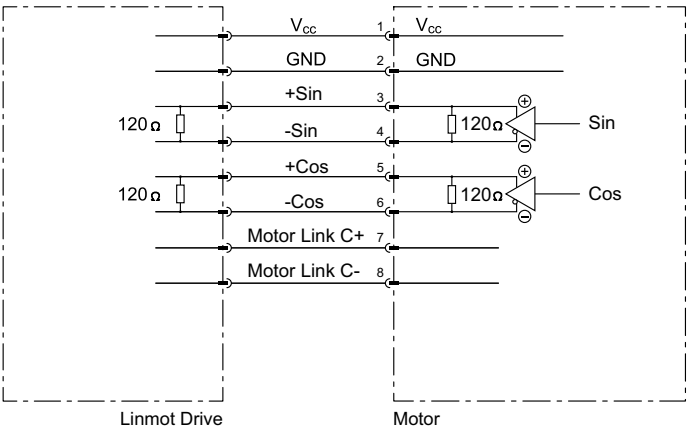
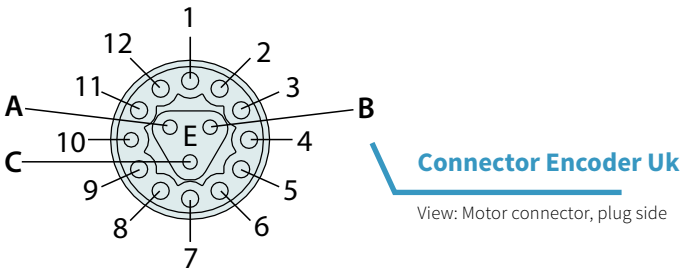
STATOR



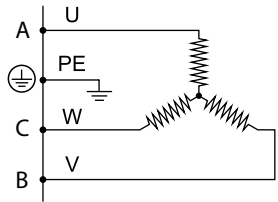
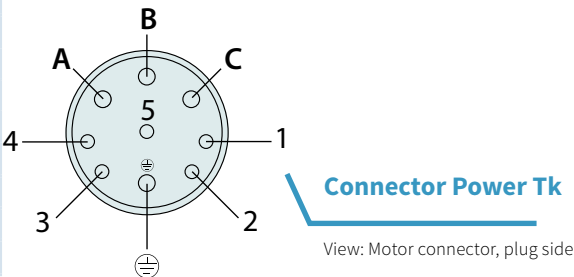
Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784

CONNECTOR PS10-54x240U-BL-TU

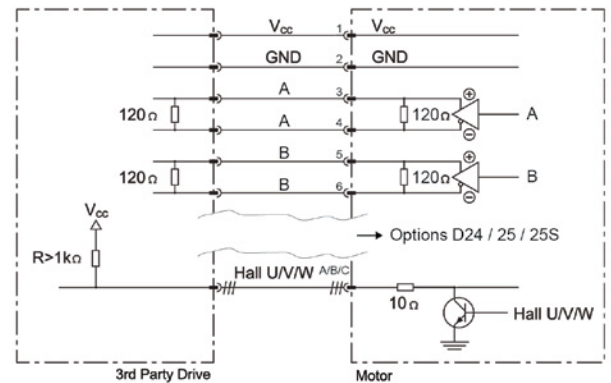
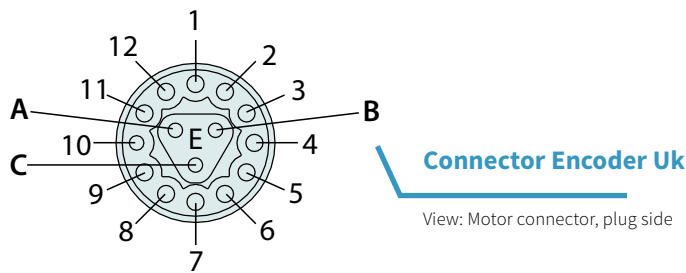
Motor Connector Wiring		Connector Encoder Uk	Wire Color Motor Cable
+Vcc	Supply	1	red
GND	Supply	2	black
Sin+	Encoder	3	yellow
Sin-	Encoder	4	orange
Cos+	Encoder	5	green
Cos-	Encoder	6	blue
Mot. Link C+	Communication	7	pink
Mot. Link C-	Communication	8	grey
n. c.	n. c.	9	n. c.
n. c.	n. c.	10	n. c.
n. c.	n. c.	11	n. c.
n. c.	n. c.	12	n. c.
n. c.	n. c.	A	n. c.
n. c.	n. c.	B	n. c.
n. c.	n. c.	C	n. c.



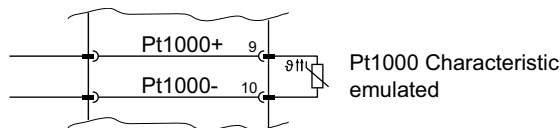
Motor Steckerbelegung	Connector Power Tk	Wire Color Motor Cable
Phase U	A	red
PE	PE	yellow-green
Phase V	B	blue
Phase W	C	green
n. c.	1	n. c.
n. c.	2	n. c.
n. c.	3	n. c.
n. c.	4	n. c.
n. c.	5	n. c.



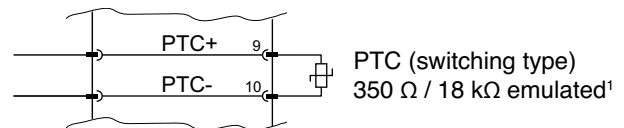
CONNECTOR PS10-54X240U-BL-TU-D24 / 25 / 25S



PS10-54x120U-BL-TU-D24



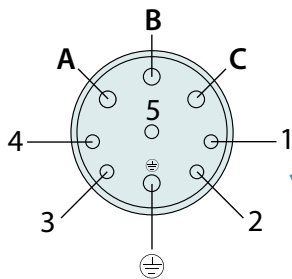
PS10-54x120U-BL-TU-D25 PS10-54x120U-BL-TU-D25S



Motor Connector Wiring				
PS10-54x240U-BL-TU-D24	PS10-54x240U-BL-TU-D25 PS10-54x240U-BL-TU-D25S	Function	Connector Encoder Uk	Wire Color Motor Cable
+Vcc	+Vcc	Supply	1	white
GND	GND	Supply	2	brown
A	A	Encoder	3	grey
/A	/A	Encoder	4	pink
B	B	Encoder	5	blue
/B	/B	Encoder	6	red
-	-	-	7	green (do not connect)
-	-	-	8	yellow (do not connect)
Pt1000+	PTC+	Temp. ²	9	yellow-brown
Pt1000-	PTC-	Temp. ²	10	white-yellow
REF+	REF+	Encoder	11	black
REF-	REF-	Encoder	12	purple
Hall U	Hall U	Encoder	A	grey-red
Hall V	Hall V	Encoder	B	red-blue
Hall W	Hall W	Encoder	C	white-green

1) under 350 Ω = no fault, over 18 k Ω = Fault

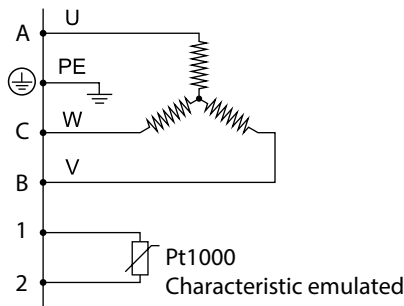
2) The temperature evaluation circuit must be powered from the encoder supply and must be at the same potential. The grounds of the temperature evaluation circuit and the encoder have to be connected. The encoder must have been powered on for at least 50 ms, before valid temperatures can be measured. If the encoder is powered off, 20k Ohms are measured between Pins 9 and 10.



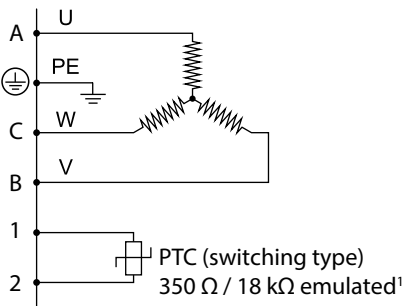
Connector Power Tk

View: Motor connector, plug side

PS10-54x240U-BL-TU-D24



PS10-54x240U-BL-TU-D25
PS10-54x240U-BL-TU-D25S



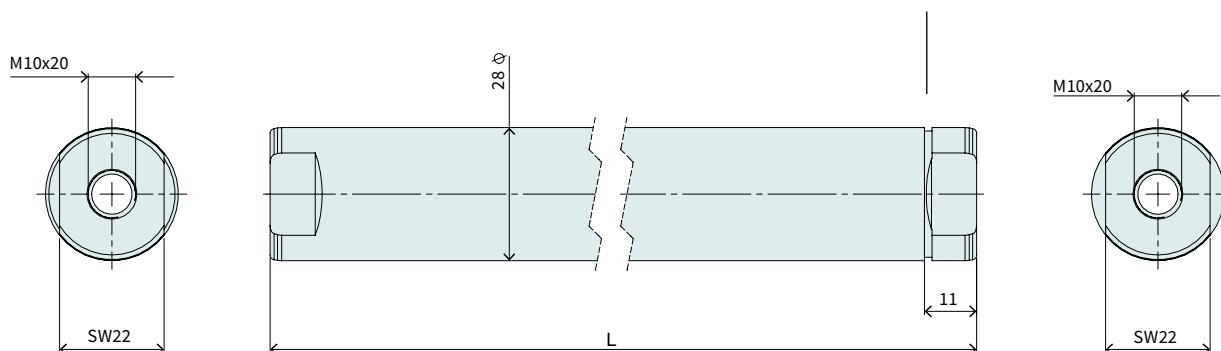
Motor Connector Wiring			
PS10-54x240U-BL-TU-D24	PS10-54x240U-BL-TU-D25 PS10-54x240U-BL-TU-D25S	Connector Power Tk	Wire Color Motor Cable
Phase U	Phase U	A	red
PE	PE	PE	yellow-green
Phase V	Phase V	B	blue
Phase W	Phase W	C	green
Pt1000+	PTC+	1	turquoise
Pt1000-	PTC-	2	grey
n. c.	n. c.	3	n. c.
n. c.	n. c.	4	n. c.
n. c.	n. c.	5	n. c.

1) under 350 Ω = no fault, over 18 Ω = Fault

SLIDER

Slider Standard

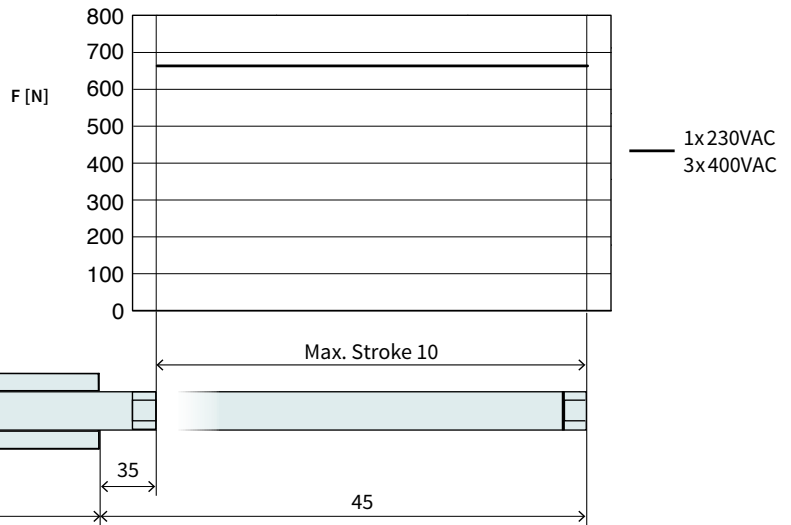
Number of grooves determines the slider type
(see chapter 2 / slider) and marks the front end.



Slider Standard			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-28x410/330	Slider 'standard'	10	0150-1381
PL01-28x500/420	Slider 'standard'	100	0150-1382
PL01-28x620/540	Slider 'standard'	220	0150-1383
PL01-28x710/630	Slider 'standard'	310	0150-1384
PL01-28x800/720	Slider 'standard'	400	0150-1385
PL01-28x920/840	Slider 'standard'	520	0150-1386
PL01-28x1010/930	Slider 'standard'	610	0150-1387
PL01-28x1220/1140	Slider 'standard'	820	0150-1388
PL01-28x1400/1320	Slider 'standard'	1000	0150-1389
PL01-28x1610/1530	Slider 'standard'	1210	0150-1390
PL01-28x1820/1740	Slider 'standard'	1420	0150-1395
PL01-28x2000/1920	Slider 'standard'	1600	0150-1396

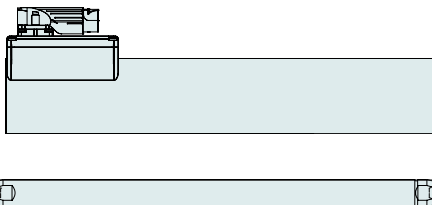
P10-54x240U/10-BL-TU

Max. Stroke: 10 mm
Peak Force: 669 N



Technical Data P10-54x240U/10

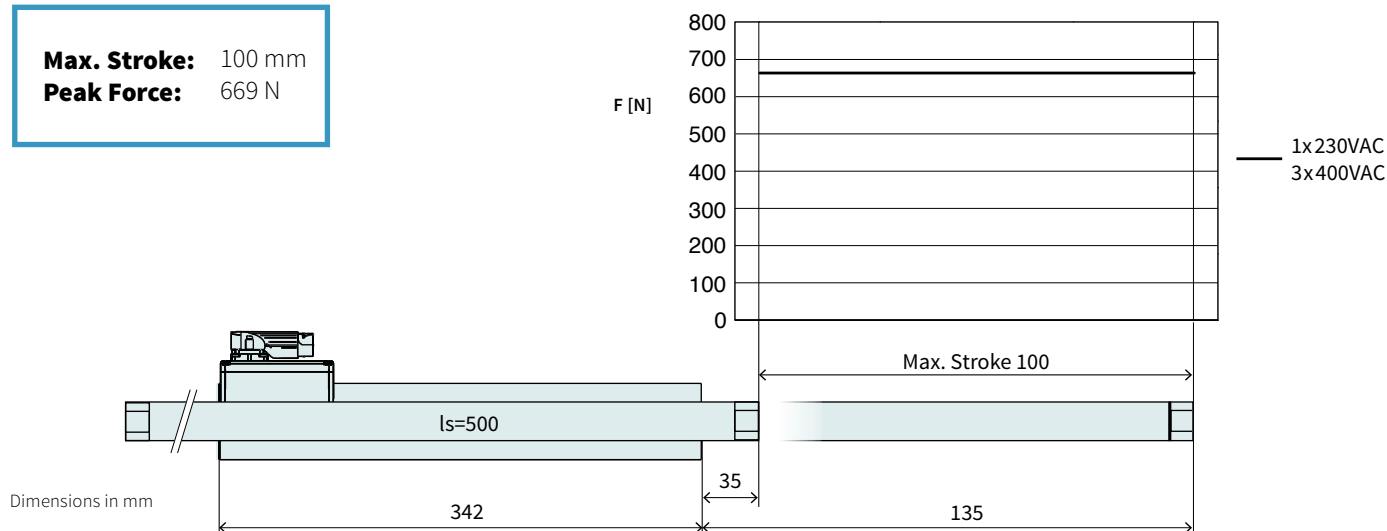
Stroke				
Max. Stroke	mm	(in)	10	(0.39)
Force				
Max. Force @ 1x230VAC	N	(lbf)	669	(150)
Max. Force @ 3x400VAC	N	(lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 7.6	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 650 / 330	
Mechanical Data				
Slider Length	mm	(in)	410	(16)
Slider Mass	g	(lb)	1740	(3.83)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x410/330	Slider 'standard'	0150-1381

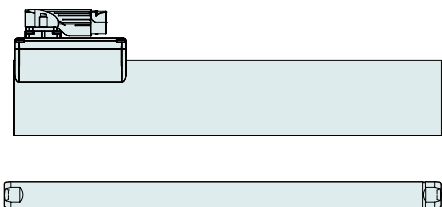
P10-54x240U/100-BL-TU

Max. Stroke: 100 mm
Peak Force: 669 N



Technical Data P10-54x240U/100

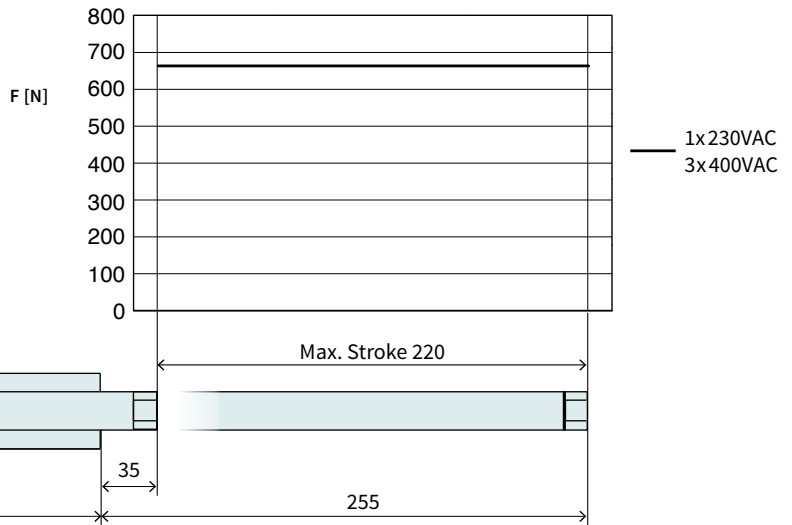
Stroke			
Max. Stroke	mm (in)	100	(3.93)
Force			
Max. Force @ 1x230VAC	N (lbf)	669	(150)
Max. Force @ 3x400VAC	N (lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.85	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1300 / 650 / 330	
Mechanical Data			
Slider Length	mm (in)	500	(20)
Slider Mass	g (lb)	2160	(4.75)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x500/420	Slider 'standard'	0150-1382

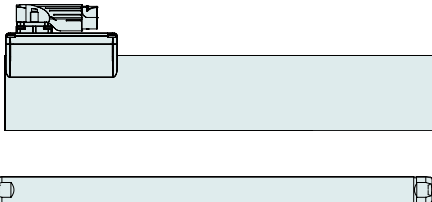
P10-54x240U/220-BL-TU

Max. Stroke: 220 mm
Peak Force: 669 N



Technical Data P10-54x240U/220

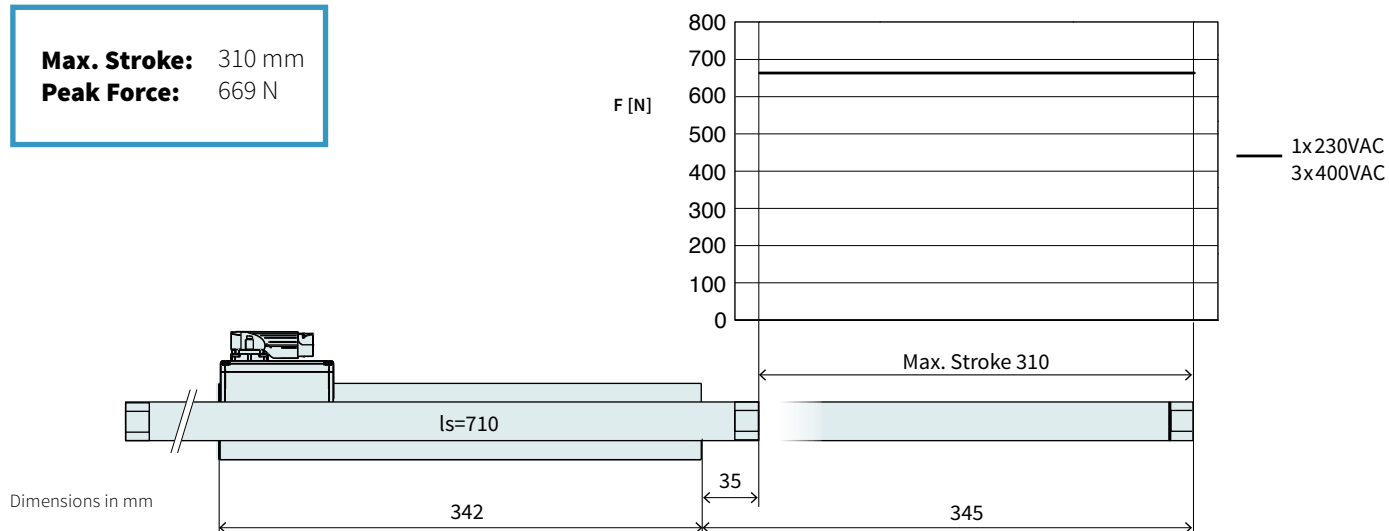
Stroke				
Max. Stroke	mm	(in)	220	(8.65)
Force				
Max. Force @ 1x230VAC	N	(lbf)	669	(150)
Max. Force @ 3x400VAC	N	(lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.45	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 650 / 330	
Mechanical Data				
Slider Length	mm	(in)	620	(24)
Slider Mass	g	(lb)	2720	(5.98)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x620/540	Slider 'standard'	0150-1383

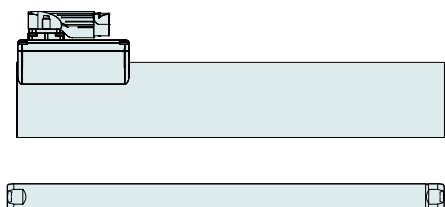
P10-54x240U/310-BL-TU

Max. Stroke: 310 mm
Peak Force: 669 N



Technical Data P10-54x240U/310

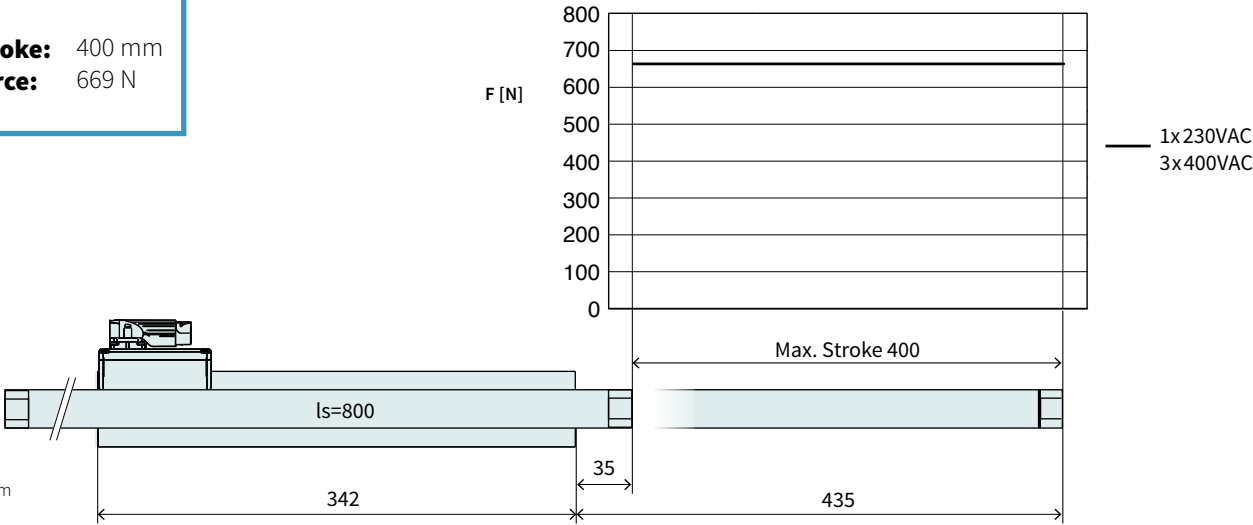
Stroke			
Max. Stroke	mm (in)	310	(12.19)
Force			
Max. Force @ 1x230VAC	N (lbf)	669	(150)
Max. Force @ 3x400VAC	N (lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.35	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1300 / 650 / 330	
Mechanical Data			
Slider Length	mm (in)	710	(28)
Slider Mass	g (lb)	3140	(6.91)



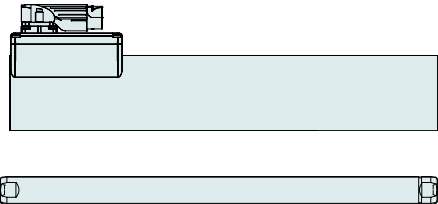
Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2784
PL01-28x710/630	Slider 'standard'	0150-1384

P10-54x240U/400-BL-TU

Max. Stroke: 400 mm
Peak Force: 669 N



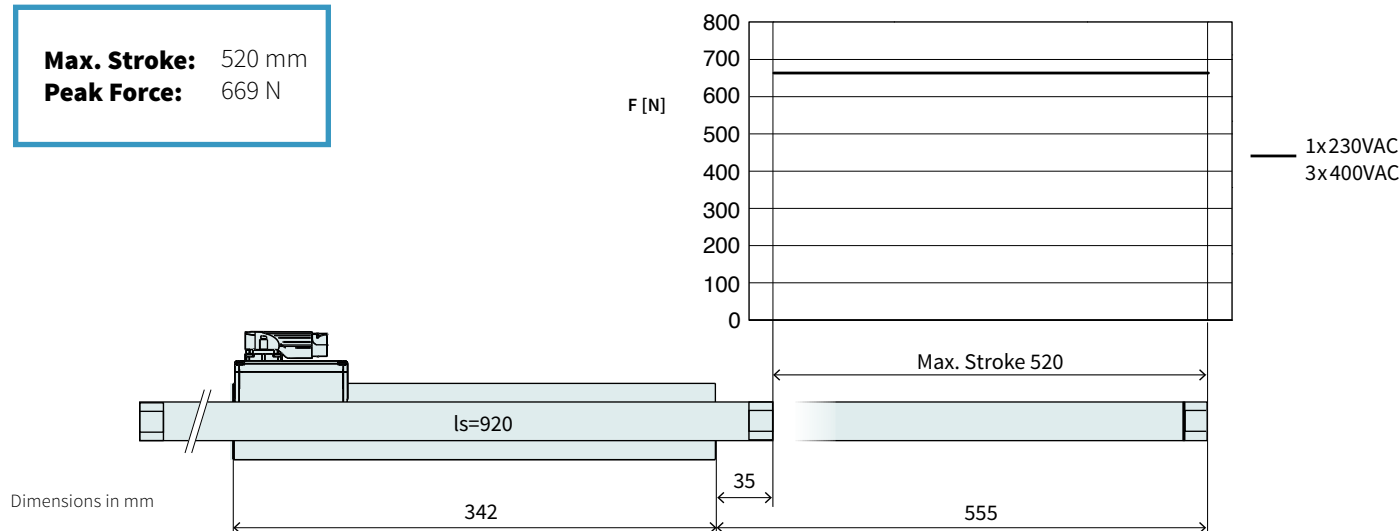
Technical Data P10-54x240U/400				
Stroke				
Max. Stroke	mm	(in)	400	(15.69)
Force				
Max. Force @ 1x230VAC	N	(lbf)	669	(150)
Max. Force @ 3x400VAC	N	(lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.3	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 650 / 330	
Mechanical Data				
Slider Length	mm	(in)	800	(31)
Slider Mass	g	(lb)	3560	(7.83)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x800/720	Slider 'standard'	0150-1385

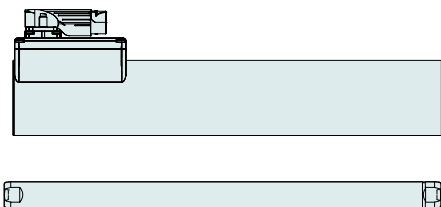
P10-54x240U/520-BL-TU

Max. Stroke: 520 mm
Peak Force: 669 N



Technical Data P10-54x240U/520

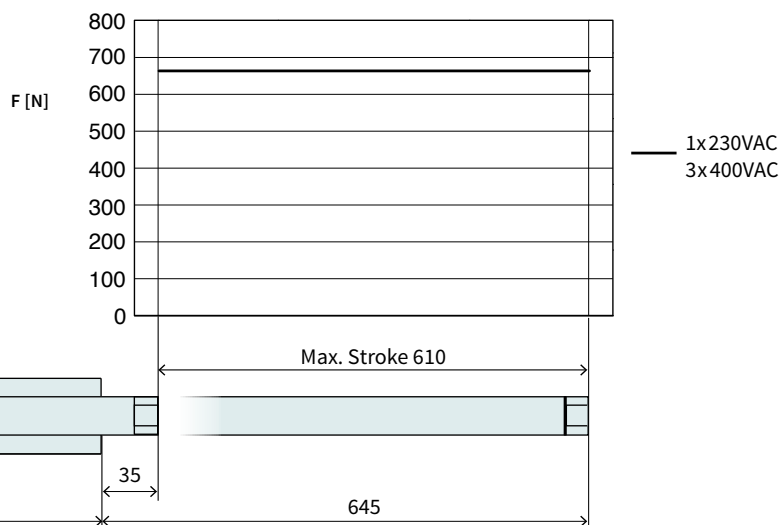
Stroke			
Max. Stroke	mm (in)	520	(20.49)
Force			
Max. Force @ 1x230VAC	N (lbf)	669	(150)
Max. Force @ 3x400VAC	N (lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.25	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1300 / 650 / 330	
Mechanical Data			
Slider Length	mm (in)	920	(36)
Slider Mass	g (lb)	4120	(9.06)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x920/840	Slider 'standard'	0150-1386

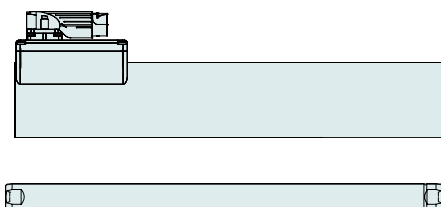
P10-54x240U/610-BL-TU

Max. Stroke: 610 mm
Peak Force: 669 N



Technical Data P10-54x240U/610

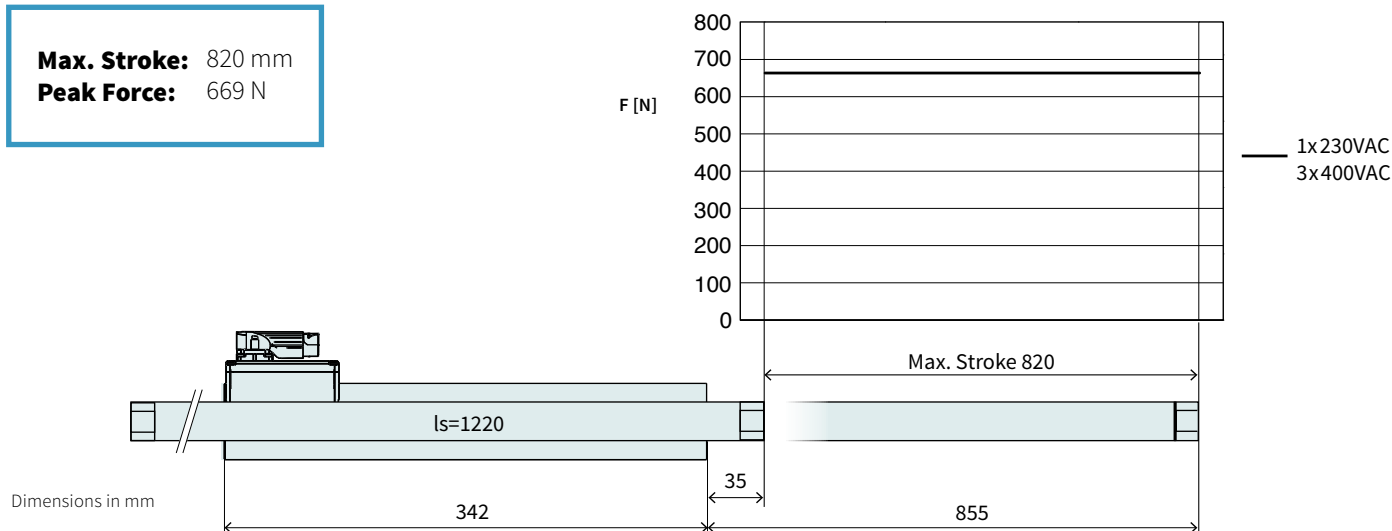
Stroke				
Max. Stroke	mm	(in)	610	(23.99)
Force				
Max. Force @ 1x230VAC	N	(lbf)	669	(150)
Max. Force @ 3x400VAC	N	(lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 650 / 330	
Mechanical Data				
Slider Length	mm	(in)	1010	(40)
Slider Mass	g	(lb)	4540	(10)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x1010/930	Slider 'standard'	0150-1387

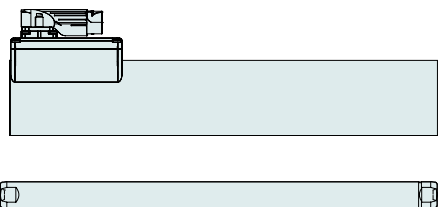
P10-54x240U/820-BL-TU

Max. Stroke: 820 mm
Peak Force: 669 N



Technical Data P10-54x240U/820

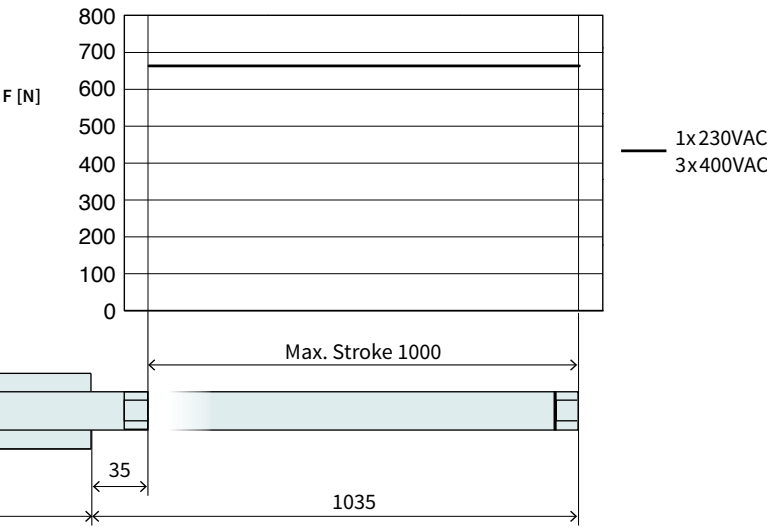
Stroke			
Max. Stroke	mm (in)	820	(32.29)
Force			
Max. Force @ 1x230VAC	N (lbf)	669	(150)
Max. Force @ 3x400VAC	N (lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1300 / 650 / 330	
Mechanical Data			
Slider Length	mm (in)	1220	(48)
Slider Mass	g (lb)	5510	(12.12)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x1220/1140	Slider 'standard'	0150-1388

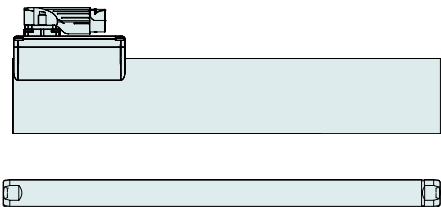
P10-54x240U/1000-BL-TU

Max. Stroke: 1000 mm
Peak Force: 669 N



Technical Data P10-54x240U/1000

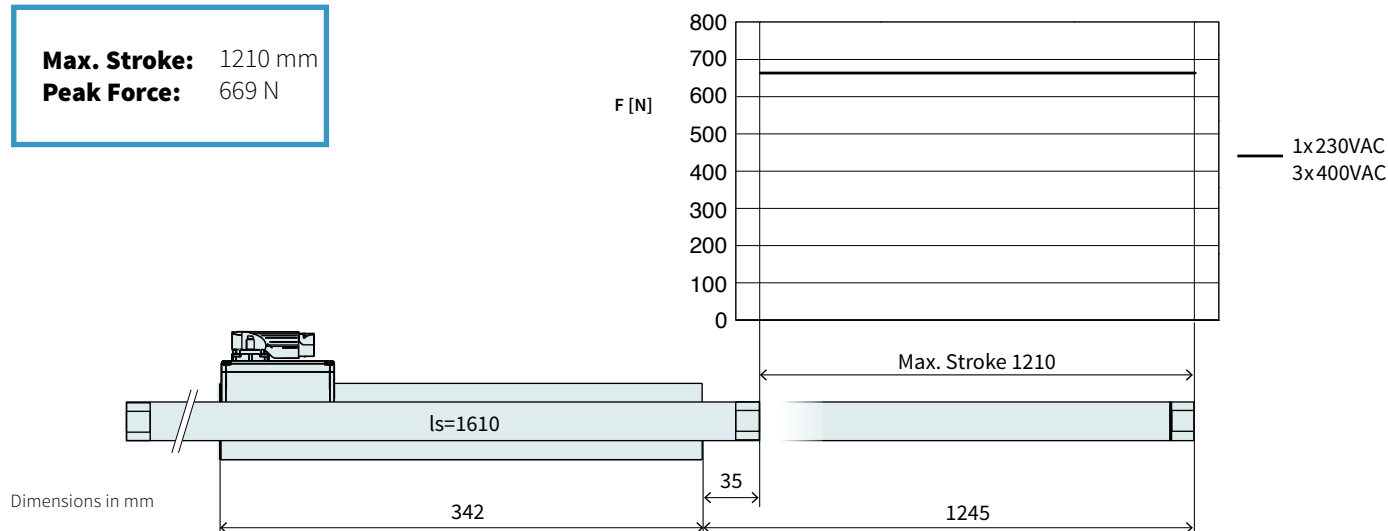
Stroke			
Max. Stroke	mm (in)	1000	(39.39)
Force			
Max. Force @ 1x230VAC	N (lbf)	669	(150)
Max. Force @ 3x400VAC	N (lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1300 / 650 / 330	
Mechanical Data			
Slider Length	mm (in)	1400	(55)
Slider Mass	g (lb)	6350	(13.97)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x1400/1320	Slider 'standard'	0150-1389

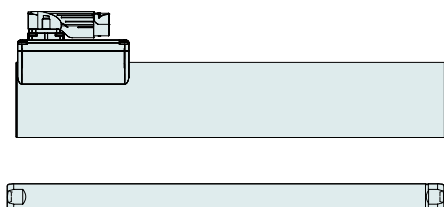
P10-54x240U/1210-BL-TU

Max. Stroke: 1210 mm
Peak Force: 669 N



Technical Data P10-54x240U/1210

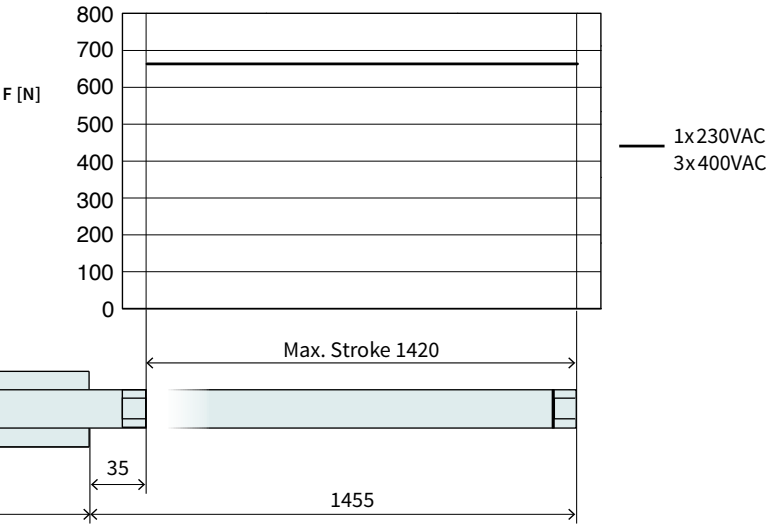
Stroke			
Max. Stroke	mm (in)	1210	(47.6)
Force			
Max. Force @ 1x230VAC	N (lbf)	669	(150)
Max. Force @ 3x400VAC	N (lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1300 / 650 / 330	
Mechanical Data			
Slider Length	mm (in)	1610	(63)
Slider Mass	g (lb)	7330	(16.13)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2784
PL01-28x1610/1530	Slider 'standard'	0150-1390

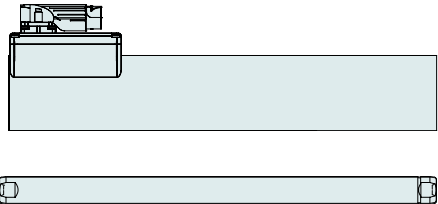
P10-54x240U/1420-BL-TU

Max. Stroke: 1420 mm
Peak Force: 669 N



Dimensions in mm

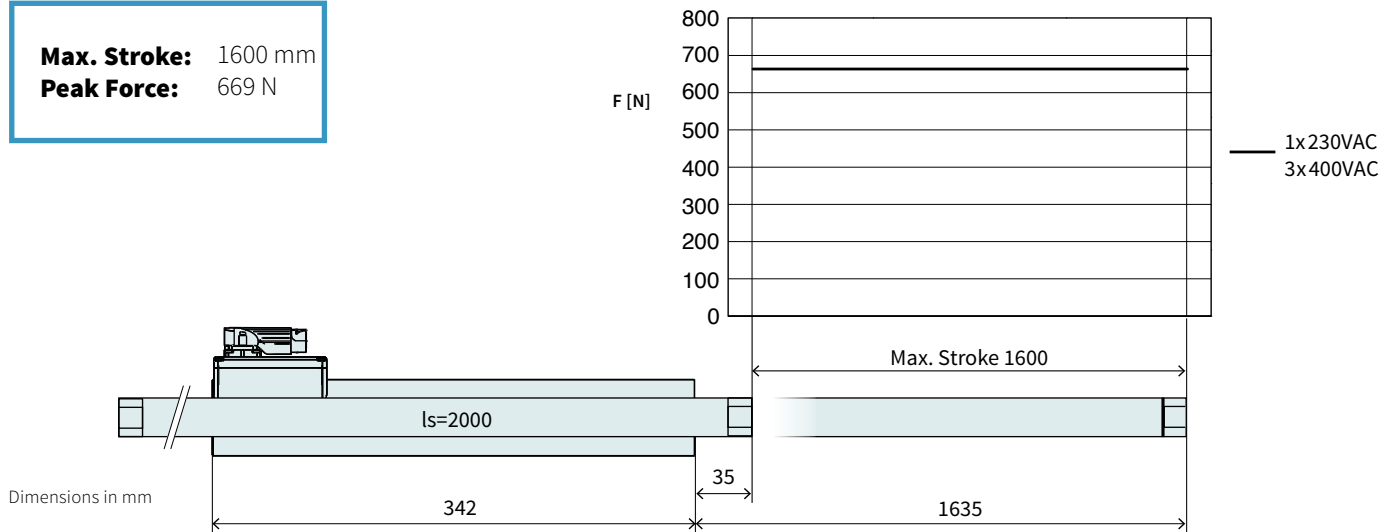
Technical Data P10-54x240U/1420				
Stroke				
Max. Stroke	mm	(in)	1420	(55.89)
Force				
Max. Force @ 1x230VAC	N	(lbf)	669	(150)
Max. Force @ 3x400VAC	N	(lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		1.8 / 2.4 / 3.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1300 / 650 / 330	
Mechanical Data				
Slider Length	mm	(in)	1820	(72)
Slider Mass	g	(lb)	8300	(18.26)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2784
PL01-28x1820/1740	Slider 'standard'	0150-1395

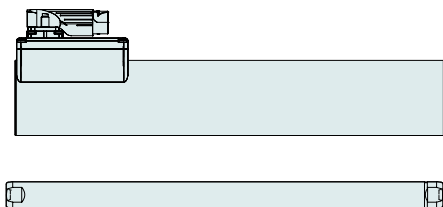
P10-54x240U/1600-BL-TU

Max. Stroke: 1600 mm
Peak Force: 669 N



Technical Data P10-54x240U/1600

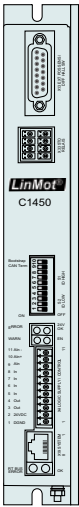
Stroke			
Max. Stroke	mm (in)	1600	(62.99)
Force			
Max. Force @ 1x230VAC	N (lbf)	669	(150)
Max. Force @ 3x400VAC	N (lbf)	669	(150)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	110 / 150 / 210	(25 / 34 / 48)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	15.1 / 10.6	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	2.5 / 3.5 / 4.9	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	1.8 / 2.4 / 3.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.3 / 0.65 / 0.33	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1300 / 650 / 330	
Mechanical Data			
Slider Length	mm (in)	2000	(79)
Slider Mass	g (lb)	9140	(20.11)



Item	Description	Item-No.
PS10-54x240U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2724
PS10-54x240U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2750
PS10-54x240U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2754
PS10-54x240U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2784
PL01-28x2000/1920	Slider 'standard'	0150-1396

Motor Cable

4



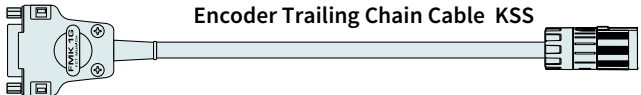
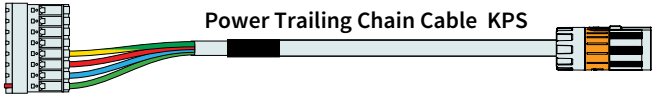
C1400



E1400

B Connector MC10-B/m

Tk Connector MC10-Tk/f



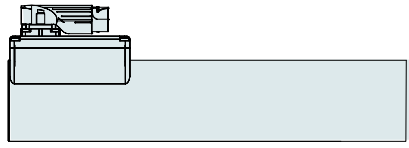
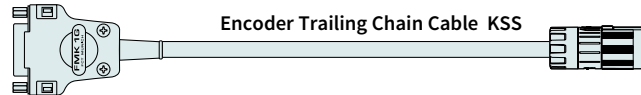
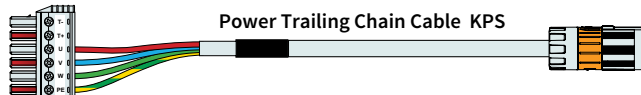
P10-54x240U

D15s Connector MC01-D15s-45°/f

Uk Connector MC10-Uk/f

L Connector MC10-L/m

Tk Connector MC10-Tk/f



P10-54x240U

D15s Connector MC01-D15s-45°/f

Uk Connector MC10-Uk/f

ORDERING INFORMATION

TRAILING CHAIN CABLE FOR LINMOT DRIVES

Item	Description	Item-No.
KPS07-04/02-L/Tk-3	Power Trailing Chain Cable E1400/P10-54, 3 m	0150-2670
KPS07-04/02-L/Tk-5	Power Trailing Chain Cable E1400/P10-54, 5 m	0150-2671
KPS07-04/02-L/Tk-8	Power Trailing Chain Cable E1400/P10-54, 8 m	0150-2672
KPS07-04/02-L/Tk-12	Power Trailing Chain Cable E1400/P10-54, 12 m	0150-2673
KPS07-04/02-B/Tk-3	Power Trailing Chain Cable C1400/P10-54, 3 m	0150-3648
KPS07-04/02-B/Tk-5	Power Trailing Chain Cable C1400/P10-54, 5 m	0150-3657
KPS07-04/02-B/Tk-8	Power Trailing Chain Cable C1400/P10-54, 8 m	0150-3658
KPS07-04/02-B/Tk-12	Power Trailing Chain Cable C1400/P10-54, 12 m	0150-3659
KSS 05-02/08-D15s/Uk-3	Encoder Trailing Chain Cable D15s/Uk, 3 m	0150-2650
KSS 05-02/08-D15s/Uk-5	Encoder Trailing Chain Cable D15s/Uk, 5 m	0150-2651
KSS 05-02/08-D15s/Uk-8	Encoder Trailing Chain Cable D15s/Uk, 8 m	0150-2652
KSS 05-02/08-D15s/Uk-12	Encoder Trailing Chain Cable D15s/Uk, 12 m	0150-2653

TRAILING CHAIN CABLES FOR THIRD PARTY DRIVES		
Item	Description	Item-No.
KPS07-04/02-./Tk-10	Power Trailing Chain Cable .../Tk, 10 m	0150-3626
KPS07-04/02-./Tk-	Power Trailing Chain Cable .../Tk, Custom length	0150-3622
KSS 05-02/13-./Uk-10	Encoder Trailing Chain Cable ./Uk, 10 m	0150-3627
KSS 05-02/13-./Uk-	Encoder Trailing Chain Cable ./Uk, Custom length	0150-3619

CONNECTOR & CABLE (INDIVIDUAL)		
Item	Description	Item-No.
MC10-L/m	Connector Power E1400/X2	0150-3382
MC01-D15/f	Motor Connector D15 (f)	0150-3136
MC10-Tk/f	Connector Power PS10-54	0150-3482
MC10-Uk/f	Connector Encoder PS10-54	0150-3483
KPS07-04/02	Power Trailing Chain Cable P10-54 (per m)	0150-2372
KSS05-02/08	Trailing Chain Cable Encoder LinMot (per m)	0150-2258
KSS05-02/13	Trailing Chain Cable Encoder P10-...-Dxx (per m)	0150-2259

MOTOR FLANGES



Item	Description	Item-No.
PF10-54x260	Flange for PS10-54x240	0150-2735

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".

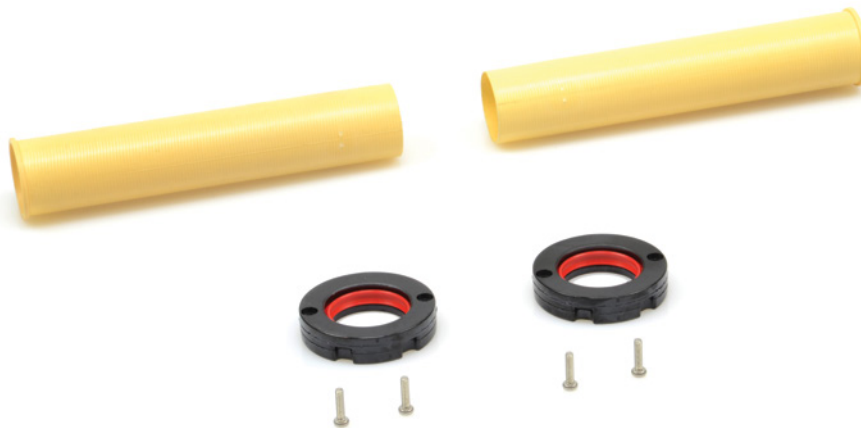
SLIDER MOUNTING



Item	Description	Item-No.
PLF01-28	Fixed Bearing Set for 27/28 mm sliders	0150-3087
PLF01-28-SS	Fixed Bearing Set for 27/28 mm sliders, stainless steel	0150-3297
PLL01-28	Floating Bearing for 28 mm sliders	0150-3094
PLM01-28-MK	Mounting Kit for 28 mm sliders	0150-3095

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KIT



Item	Description	Item-No.
PB10-54x240-L	Bearing Kit for PS10-54x240	0150-3673

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-D15/D-Encoder	Encoder Cable (Length in m)	0150-3168

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

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LINEAR MOTORS P10-54x300U



- ✓ 230VAC and 3 x 400VAC technology
- ✓ Peak forces up to 871 N
- ✓ LinMot Encoder or Incremental Encoder
- ✓ Extremely high dynamic
- ✓ Rotating push-pull TWIN connector for power and encoder cables
- ✓ Can also be controlled by standard third-party servo drives

LINEAR MOTORS P10-54x300U

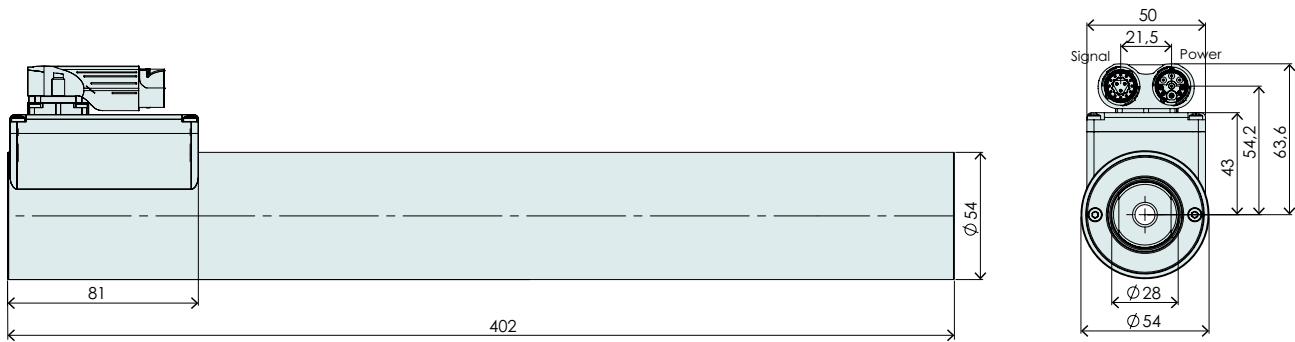
Technical Data	469
Motor Specifications	
P10-54x300U/40	474
P10-54x300U/160	475
P10-54x300U/250	476
P10-54x300U/340	477
P10-54x300U/460	478
P10-54x300U/550	479
P10-54x300U/760	480
P10-54x300U/940	481
P10-54x300U/1150	482
P10-54x300U/1360	483
P10-54x300U/1540	484
Accessories	485



MOTOR FAMILY P10-54x300U

Technical Data				
Stroke				
Max. Stroke (ES)	mm	(in)	1540	(60.6)
Force				
Max. Force @ 1x230VAC	N	(lbf)	871	(196)
Max. Force @ 3x400VAC	N	(lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(279.9)
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 @ 1x230VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		2.2 / 3.1 / 4.4	
Back EMF Constant	V _{pk} / (m/s)	(V _{pk} / (in/s))	50.8	(1.29)
Terminal Resistance 25 °C / 120 °C	Ohm		5.7 / 7.8	
Terminal Inductivity	mH		4.8	
Magnetic Period	mm	(in)	60	(2.35)
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 660 / 340	
Mechanical Data				
Stator Diameter	mm	(in)	54	(2.1)
Stator Length	mm	(in)	402	(16)
Stator Mass	g	(lb)	3200	(7.04)
Slider Diameter	mm	(in)	28	(1.1)
Slider Length	mm	(in)	500 - 2000	(20 - 79)
Slider Mass	g	(lb)	2160 - 9140	(4.75 - 20.11)
IP Code			IP 65	

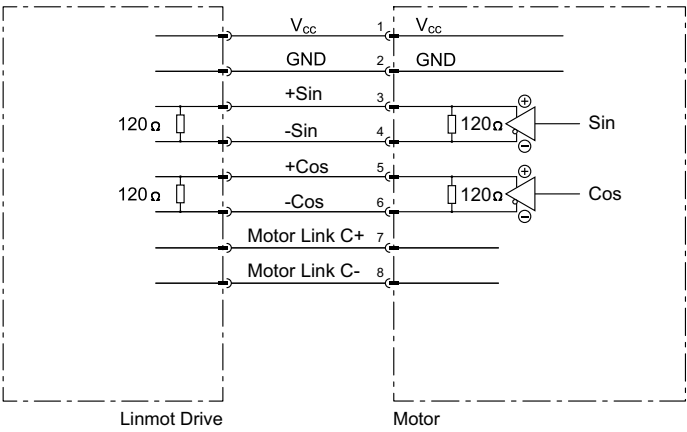
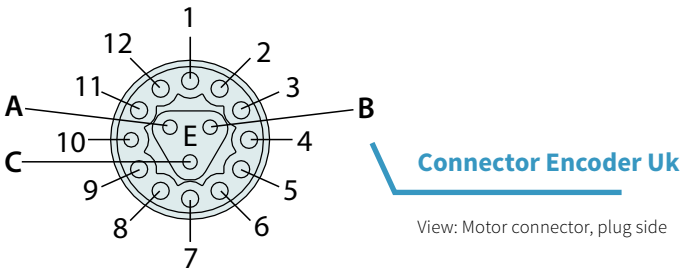
STATOR



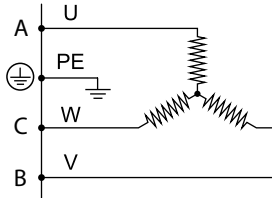
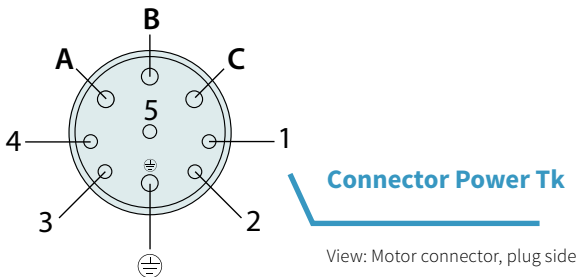
Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2785

CONNECTOR PS10-54x240U-BL-TU

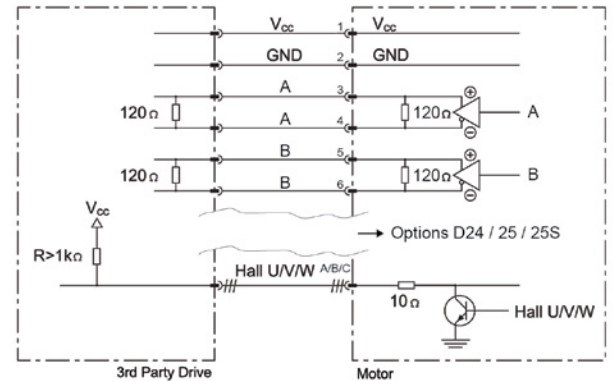
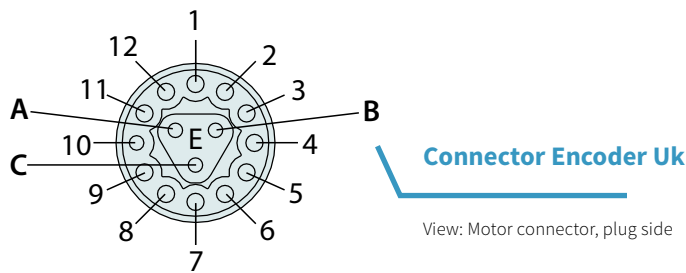
Motor Connector Wiring		Connector Encoder Uk	Wire Color Motor Cable
+Vcc	Supply	1	red
GND	Supply	2	black
Sin+	Encoder	3	yellow
Sin-	Encoder	4	orange
Cos+	Encoder	5	green
Cos-	Encoder	6	blue
Mot. Link C+	Communication	7	pink
Mot. Link C-	Communication	8	grey
n. c.	n. c.	9	n. c.
n. c.	n. c.	10	n. c.
n. c.	n. c.	11	n. c.
n. c.	n. c.	12	n. c.
n. c.	n. c.	A	n. c.
n. c.	n. c.	B	n. c.
n. c.	n. c.	C	n. c.



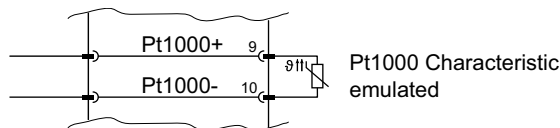
Motor Steckerbelegung	Connector Power Tk	Wire Color Motor Cable
Phase U	A	red
PE	PE	yellow-green
Phase V	B	blue
Phase W	C	green
n. c.	1	n. c.
n. c.	2	n. c.
n. c.	3	n. c.
n. c.	4	n. c.
n. c.	5	n. c.



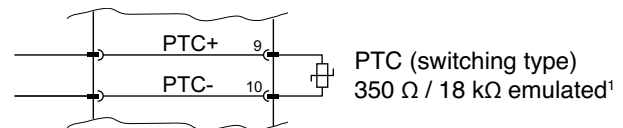
CONNECTOR PS10-54X300U-BL-TU-D24 / 25 / 25S



PS10-54x300U-BL-TU-D24



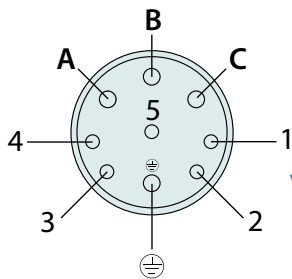
PS10-54x300U-BL-TU-D25 PS10-54x300U-BL-TU-D25S



Motor Connector Wiring				
PS10-54x300U-BL-TU-D24	PS10-54x300U-BL-TU-D25 PS10-54x300U-BL-TU-D25S	Function	Connector Encoder Uk	Wire Color Motor Cable
+Vcc	+Vcc	Supply	1	white
GND	GND	Supply	2	brown
A	A	Encoder	3	grey
/ A	/ A	Encoder	4	pink
B	B	Encoder	5	blue
/ B	/ B	Encoder	6	red
-	-	-	7	green (do not connect)
-	-	-	8	yellow (do not connect)
Pt1000+	PTC+	Temp. ²	9	yellow-brown
Pt1000-	PTC-	Temp. ²	10	white-yellow
REF+	REF+	Encoder	11	black
REF-	REF-	Encoder	12	purple
Hall U	Hall U	Encoder	A	grey-red
Hall V	Hall V	Encoder	B	red-blue
Hall W	Hall W	Encoder	C	white-green

1) under 350 Ω = no fault, over 18 kΩ = Fault

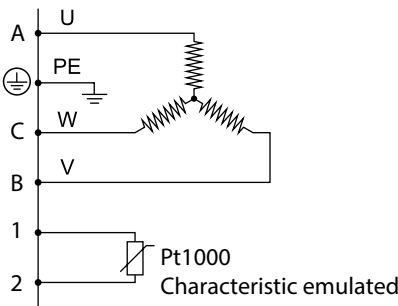
2) The temperature evaluation circuit must be powered from the encoder supply and must be at the same potential. The grounds of the temperature evaluation circuit and the encoder have to be connected. The encoder must have been powered on for at least 50 ms, before valid temperatures can be measured. If the encoder is powered off, 20k Ohms are measured between Pins 9 and 10.



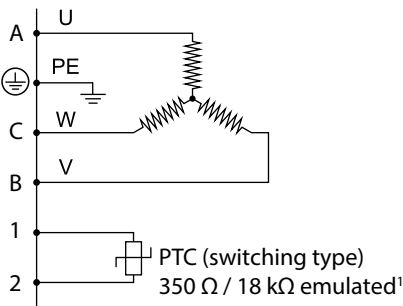
Connector Power Tk

View: Motor connector, plug side

PS10-54x300U-BL-TU-D24



PS10-54x300U-BL-TU-D25
PS10-54x300U-BL-TU-D25S

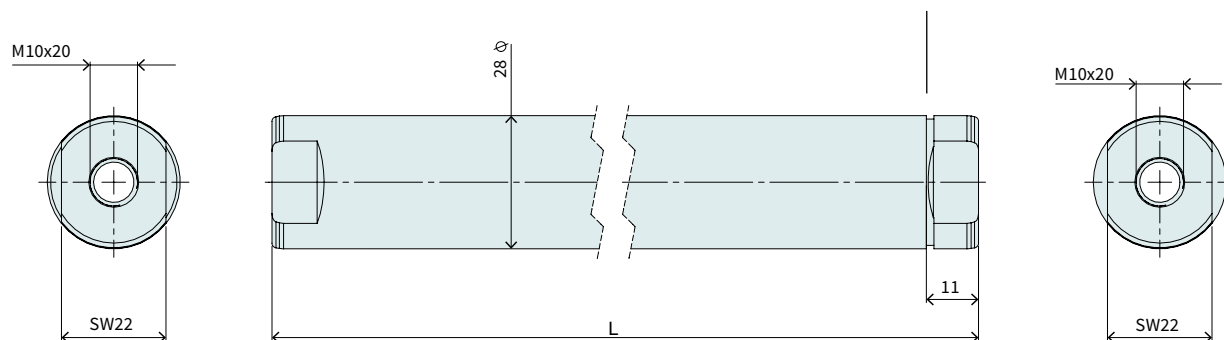


Motor Connector Wiring			
PS10-54x300U-BL-TU-D24	PS10-54x300U-BL-TU-D25 PS10-54x300U-BL-TU-D25S	Connector Power Tk	Wire Color Motor Cable
Phase U	Phase U	A	red
PE	PE	PE	yellow-green
Phase V	Phase V	B	blue
Phase W	Phase W	C	green
Pt1000+	PTC+	1	turquoise
Pt1000-	PTC-	2	grey
n. c.	n. c.	3	n. c.
n. c.	n. c.	4	n. c.
n. c.	n. c.	5	n. c.

1) under 350 Ω = no fault, over 18 Ω = Fault

SLIDER

Slider Standard

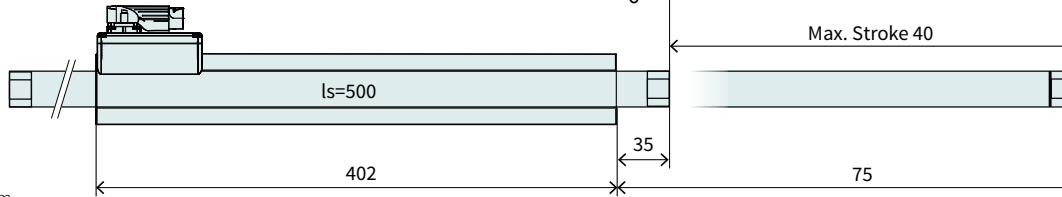
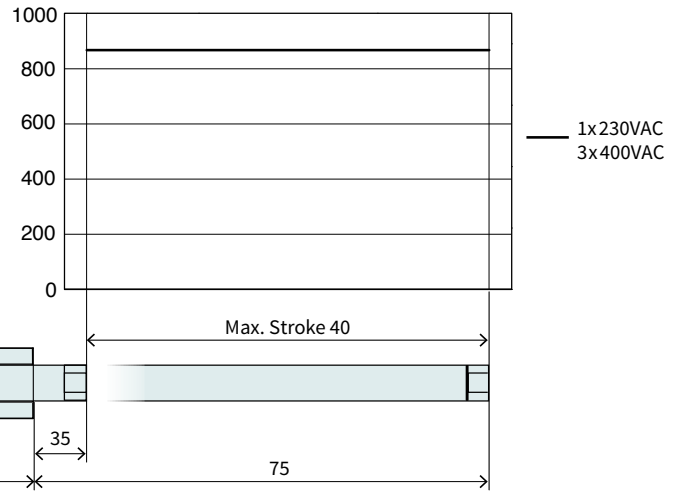


Slider Standard			
Item	Description	Max. Stroke [mm]	Item-No.
PL01-28x500/420	Slider 'standard'	40	0150-1382
PL01-28x620/540	Slider 'standard'	160	0150-1383
PL01-28x710/630	Slider 'standard'	250	0150-1384
PL01-28x800/720	Slider 'standard'	340	0150-1385
PL01-28x920/840	Slider 'standard'	460	0150-1386
PL01-28x1010/930	Slider 'standard'	550	0150-1387
PL01-28x1220/1140	Slider 'standard'	760	0150-1388
PL01-28x1400/1320	Slider 'standard'	940	0150-1389
PL01-28x1610/1530	Slider 'standard'	1150	0150-1390
PL01-28x1820/1740	Slider 'standard'	1360	0150-1395
PL01-28x2000/1920	Slider 'standard'	1540	0150-1396

P10-54x300U/40-BL-TU

Max. Stroke: 40 mm
Peak Force: 871 N

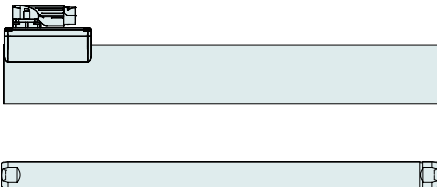
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Dimensions in mm

Technical Data P10-54x300U/40

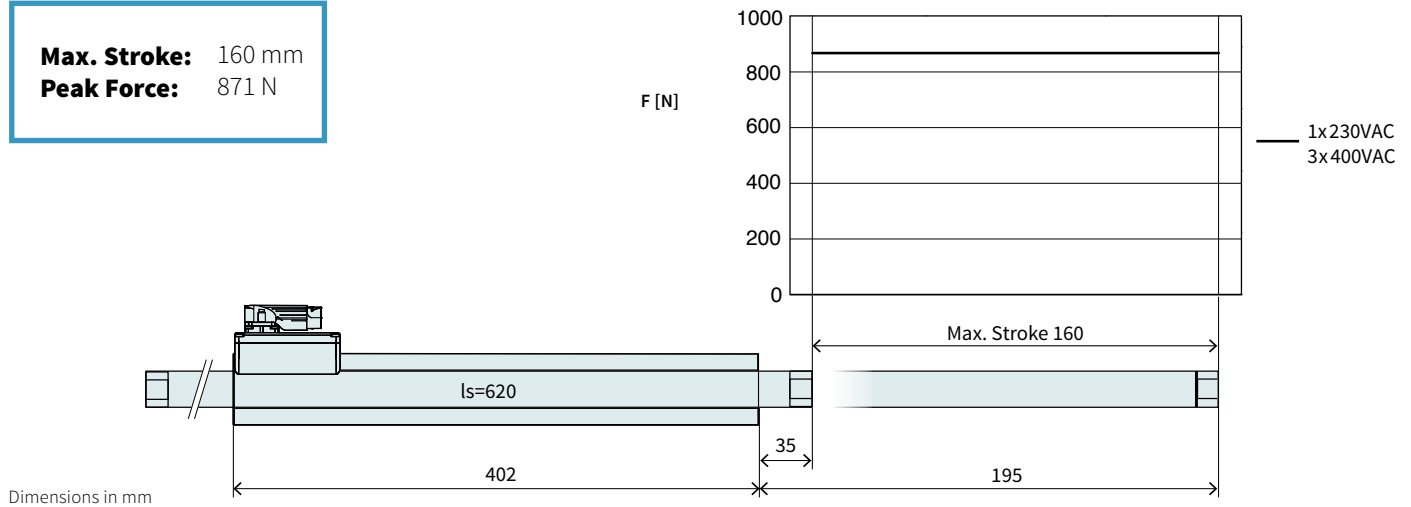
Stroke				
Max. Stroke	mm	(in)	40	(1.57)
Force				
Max. Force @ 1x230VAC	N	(lbf)	871	(196)
Max. Force @ 3x400VAC	N	(lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 2	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		2.2 / 3.1 / 4.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 660 / 340	
Mechanical Data				
Slider Length	mm	(in)	500	(20)
Slider Mass	g	(lb)	2160	(4.75)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2785
PL01-28x500/420	Slider 'standard'	0150-1382

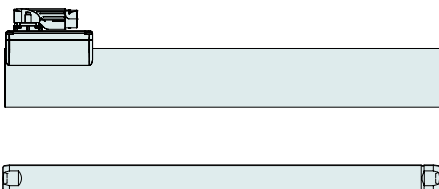
P10-54x300U/160-BL-TU

Max. Stroke: 160 mm
Peak Force: 871 N



Technical Data P10-54x300U/160

Stroke			
Max. Stroke	mm (in)	160	(6.29)
Force			
Max. Force @ 1x230VAC	N (lbf)	871	(196)
Max. Force @ 3x400VAC	N (lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.55	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	2.2 / 3.1 / 4.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 660 / 340	
Mechanical Data			
Slider Length	mm (in)	620	(24)
Slider Mass	g (lb)	2720	(5.98)

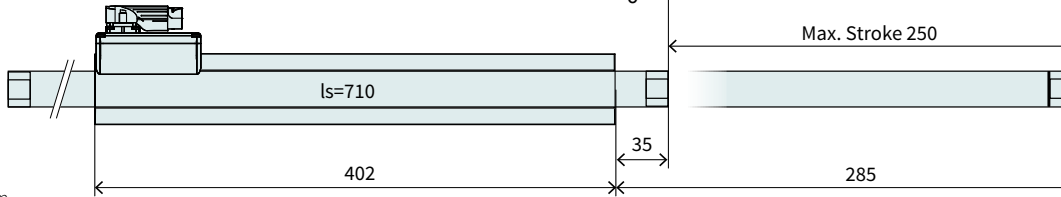
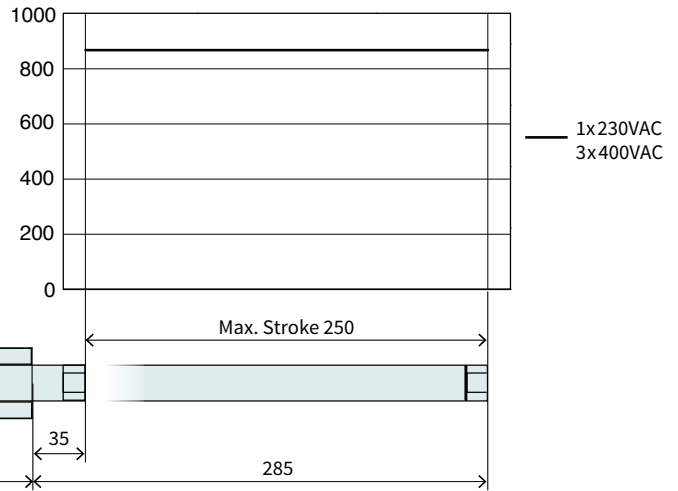


Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2785
PL01-28x620/540	Slider 'standard'	0150-1383

P10-54x300U/250-BL-TU

Max. Stroke: 250 mm
Peak Force: 871 N

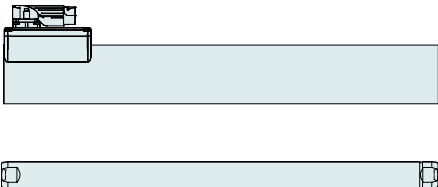
F [N]



Dimensions in mm

Technical Data P10-54x300U/250

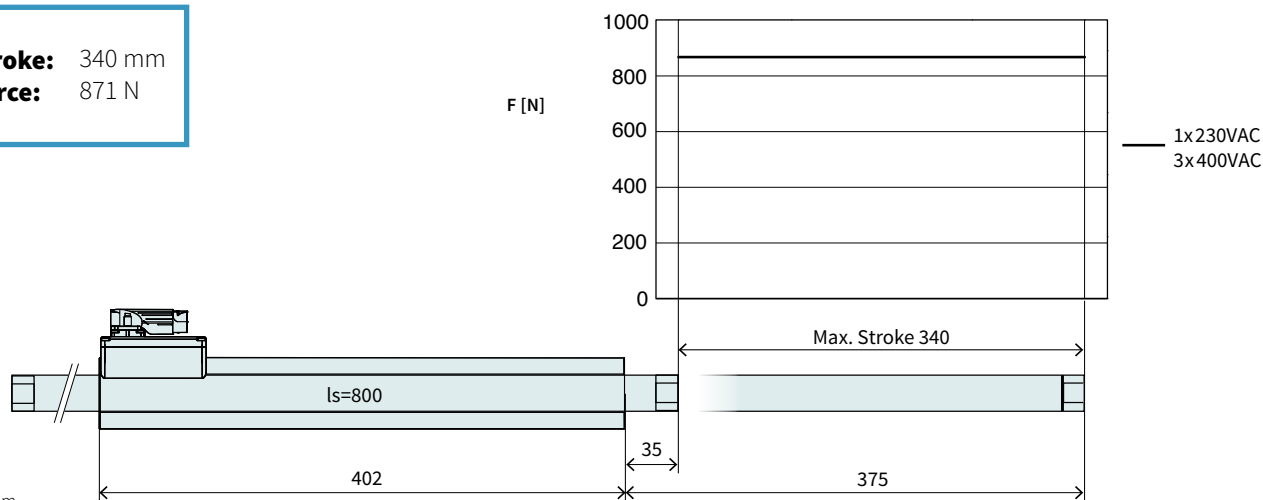
Stroke				
Max. Stroke	mm	(in)	250	(9.83)
Force				
Max. Force @ 1x230VAC	N	(lbf)	871	(196)
Max. Force @ 3x400VAC	N	(lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.4	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		2.2 / 3.1 / 4.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 660 / 340	
Mechanical Data				
Slider Length	mm	(in)	710	(28)
Slider Mass	g	(lb)	3140	(6.91)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2785
PL01-28x710/630	Slider 'standard'	0150-1384

P10-54x300U/340-BL-TU

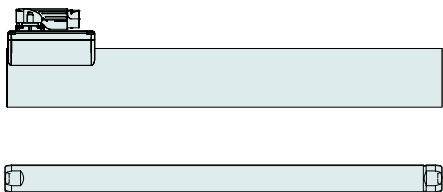
Max. Stroke: 340 mm
Peak Force: 871 N



Dimensions in mm

Technical Data P10-54x300U/340

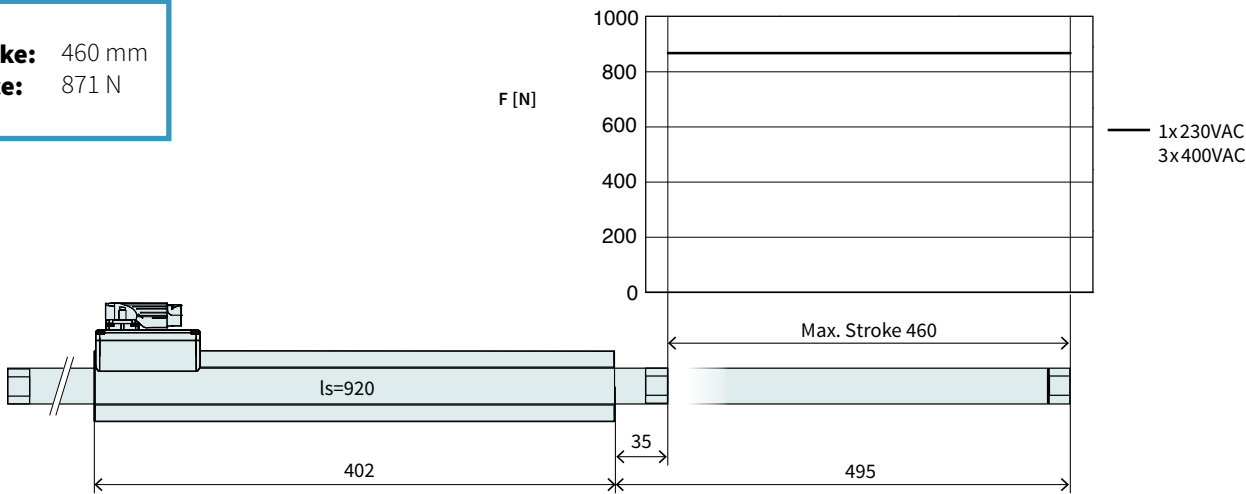
Stroke			
Max. Stroke	mm (in)	340	(13.4)
Force			
Max. Force @ 1x230VAC	N (lbf)	871	(196)
Max. Force @ 3x400VAC	N (lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.3	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	2.2 / 3.1 / 4.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 660 / 340	
Mechanical Data			
Slider Length	mm (in)	800	(31)
Slider Mass	g (lb)	3560	(7.83)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2785
PL01-28x800/720	Slider 'standard'	0150-1385

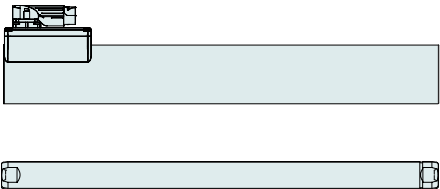
P10-54x300U/460-BL-TU

Max. Stroke: 460 mm
Peak Force: 871 N



Dimensions in mm

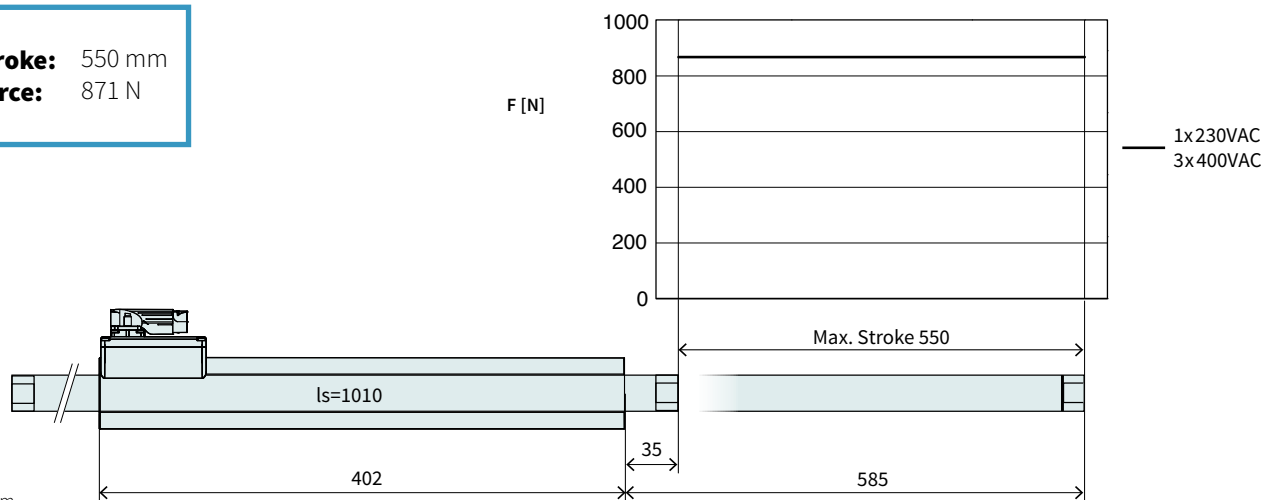
Technical Data P10-54x300U/460				
Stroke				
Max. Stroke	mm	(in)	460	(18.1)
Force				
Max. Force @ 1x230VAC	N	(lbf)	871	(196)
Max. Force @ 3x400VAC	N	(lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		2.2 / 3.1 / 4.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 660 / 340	
Mechanical Data				
Slider Length	mm	(in)	920	(36)
Slider Mass	g	(lb)	4120	(9.06)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2785
PL01-28x920/840	Slider 'standard'	0150-1386

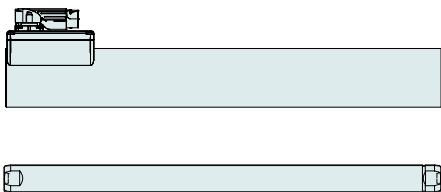
P10-54x300U/550-BL-TU

Max. Stroke: 550 mm
Peak Force: 871 N



Technical Data P10-54x300U/550

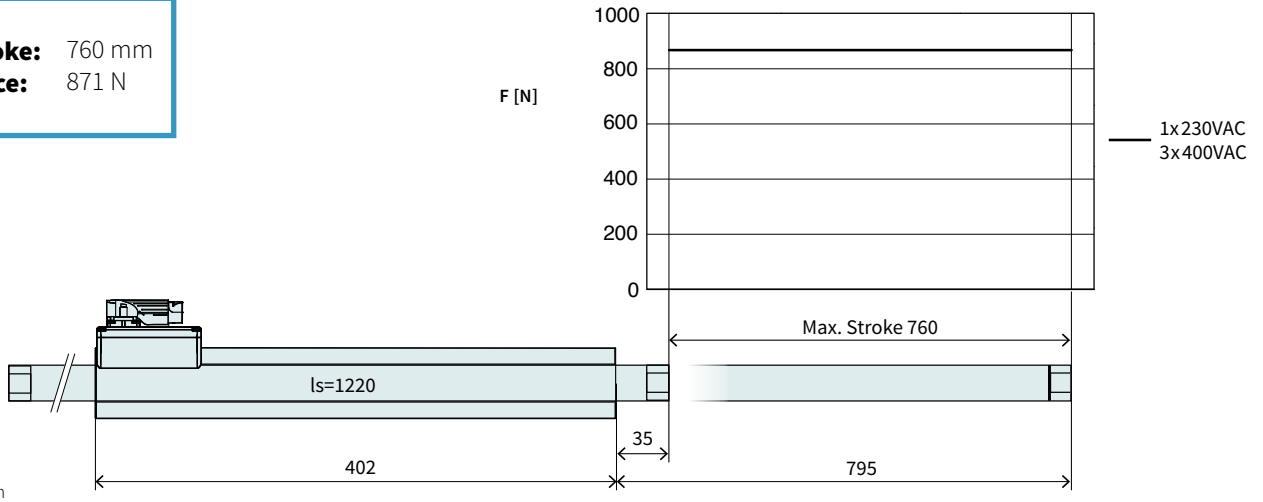
Stroke				
Max. Stroke	mm	(in)	550	(21.69)
Force				
Max. Force @ 1x230VAC	N	(lbf)	871	(196)
Max. Force @ 3x400VAC	N	(lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.25	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		2.2 / 3.1 / 4.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 660 / 340	
Mechanical Data				
Slider Length	mm	(in)	1010	(40)
Slider Mass	g	(lb)	4540	(10)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2785
PL01-28x1010/930	Slider 'standard'	0150-1387

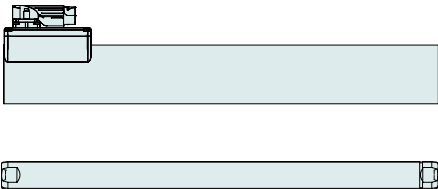
P10-54x300U/760-BL-TU

Max. Stroke: 760 mm
Peak Force: 871 N



Technical Data P10-54x300U/760

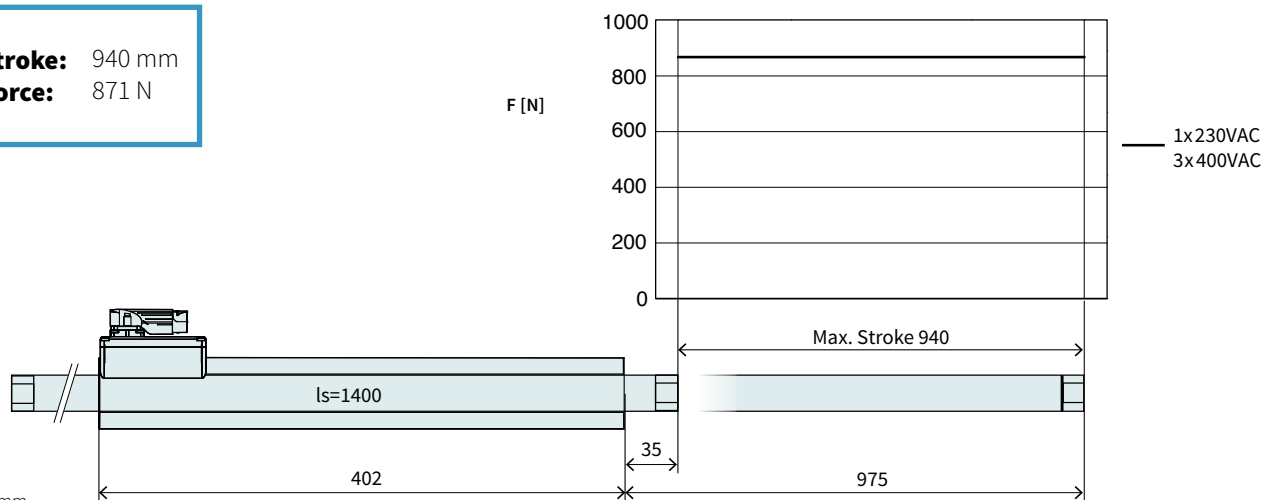
Stroke				
Max. Stroke	mm	(in)	760	(29.89)
Force				
Max. Force @ 1x230VAC	N	(lbf)	871	(196)
Max. Force @ 3x400VAC	N	(lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		2.2 / 3.1 / 4.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 660 / 340	
Mechanical Data				
Slider Length	mm	(in)	1220	(48)
Slider Mass	g	(lb)	5510	(12.12)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2785
PL01-28x1220/1140	Slider 'standard'	0150-1388

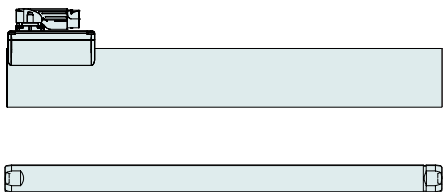
P10-54x300U/940-BL-TU

Max. Stroke: 940 mm
Peak Force: 871 N



Technical Data P10-54x300U/940

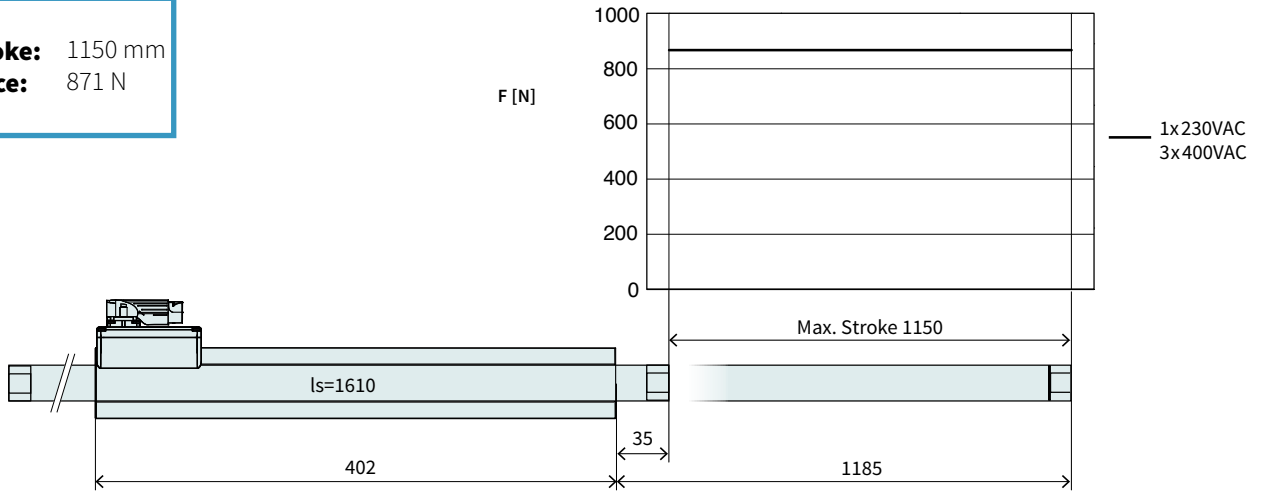
Stroke			
Max. Stroke	mm (in)	940	(36.99)
Force			
Max. Force @ 1x230VAC	N (lbf)	871	(196)
Max. Force @ 3x400VAC	N (lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	2.2 / 3.1 / 4.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 660 / 340	
Mechanical Data			
Slider Length	mm (in)	1400	(55)
Slider Mass	g (lb)	6350	(13.97)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2785
PL01-28x1400/1320	Slider 'standard'	0150-1389

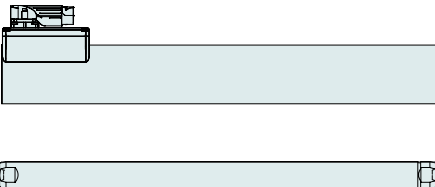
P10-54x300U/1150-BL-TU

Max. Stroke: 1150 mm
Peak Force: 871 N



Technical Data P10-54x300U/1150

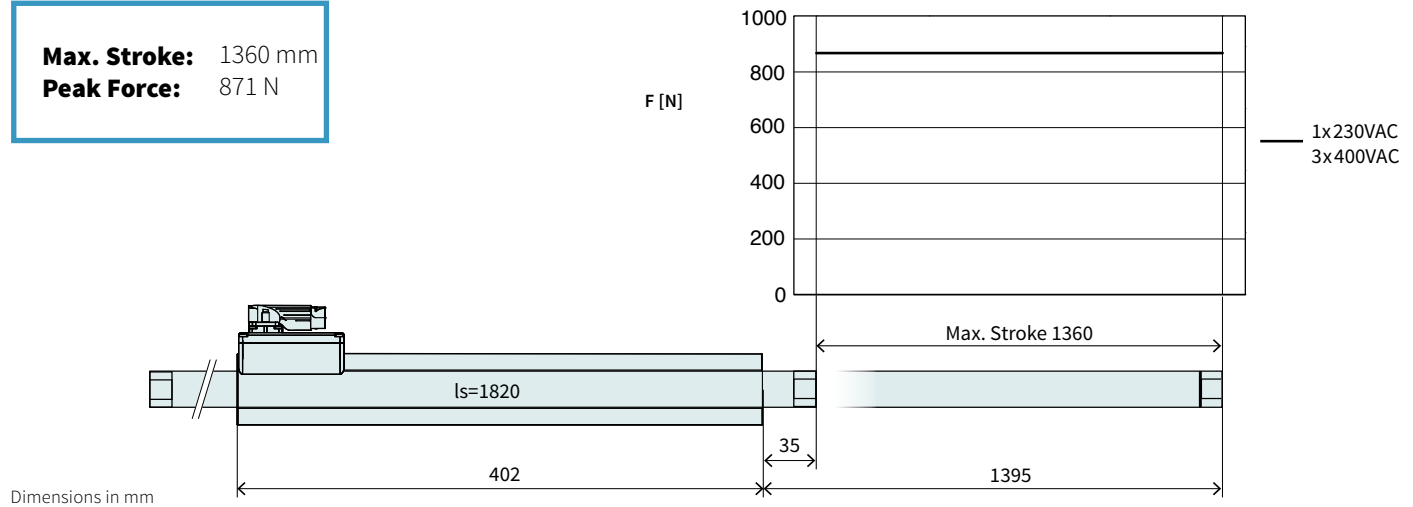
Stroke				
Max. Stroke	mm	(in)	1150	(45.29)
Force				
Max. Force @ 1x230VAC	N	(lbf)	871	(196)
Max. Force @ 3x400VAC	N	(lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		2.2 / 3.1 / 4.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 660 / 340	
Mechanical Data				
Slider Length	mm	(in)	1610	(63)
Slider Mass	g	(lb)	7330	(16.13)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder Sum, PTC	0150-2785
PL01-28x1610/1530	Slider 'standard'	0150-1390

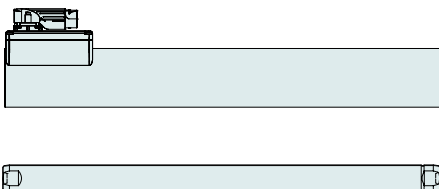
P10-54x300U/1360-BL-TU

Max. Stroke: 1360 mm
Peak Force: 871 N



Technical Data P10-54x300U/1360

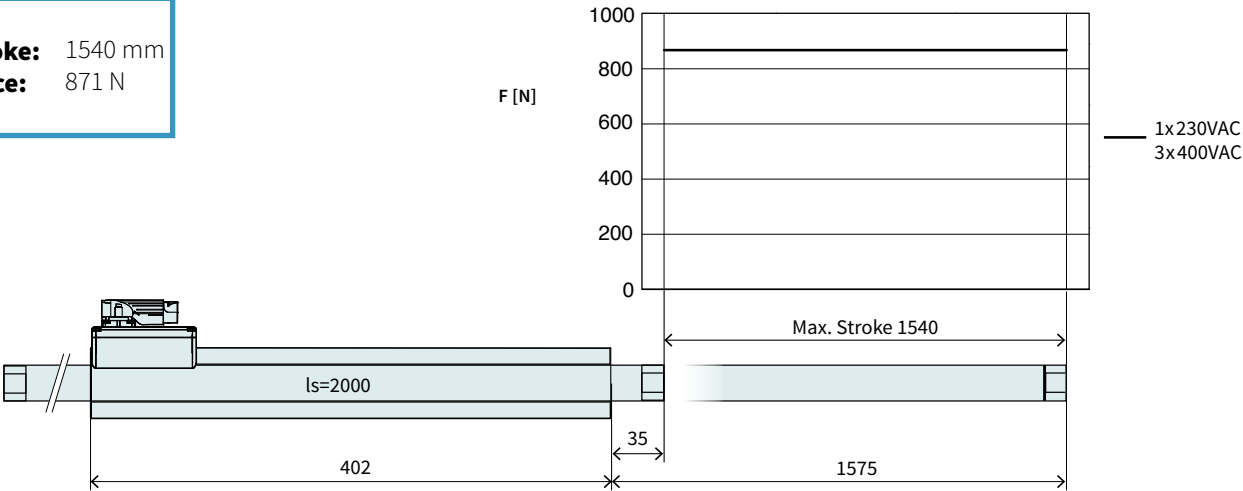
Stroke			
Max. Stroke	mm (in)	1360	(53.49)
Force			
Max. Force @ 1x230VAC	N (lbf)	871	(196)
Max. Force @ 3x400VAC	N (lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%	100	
Force Constant 1	N/A _{pk} (lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms} (lbf/A _{rms})	62.2	(14)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	7.1	(7.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.15	
Electrical Data			
Max. Current @ 1x230VAC	A _{pk} / A _{rms}	19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}	19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}	3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}	2.2 / 3.1 / 4.4	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	1400 / 660 / 340	
Mechanical Data			
Slider Length	mm (in)	1820	(72)
Slider Mass	g (lb)	8300	(18.26)



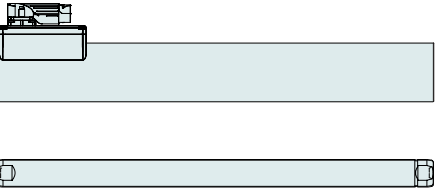
Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2785
PL01-28x1820/1740	Slider 'standard'	0150-1395

P10-54x300U/1540-BL-TU

Max. Stroke: 1540 mm
Peak Force: 871 N

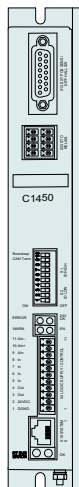


Technical Data P10-54x300U/1540				
Stroke				
Max. Stroke	mm	(in)	1540	(60.6)
Force				
Max. Force @ 1x230VAC	N	(lbf)	871	(196)
Max. Force @ 3x400VAC	N	(lbf)	871	(196)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	140 / 190 / 270	(31 / 44 / 61)
Max. Border Force relative	%		100	
Force Constant 1	N/A _{pk}	(lbf/A _{pk})	44	(9.89)
Force Constant 2	N/A _{rms}	(lbf/A _{rms})	62.2	(14)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	4.1	(159.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	7.1	(7.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.15	
Electrical Data				
Max. Current @ 1x230VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Current @ 3x400VAC	A _{pk} / A _{rms}		19.7 / 13.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A _{pk}		3.1 / 4.4 / 6.2	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A _{rms}		2.2 / 3.1 / 4.4	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		1.1 / 0.53 / 0.27	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		1400 / 660 / 340	
Mechanical Data				
Slider Length	mm	(in)	2000	(79)
Slider Mass	g	(lb)	9140	(20.11)



Item	Description	Item-No.
PS10-54x300U-BL-TU	Stator 3x400VAC, LinMot Encoder	0150-2725
PS10-54x300U-BL-TU-D24	Stator 3x400VAC, A/B Encoder, Pt1000	0150-2751
PS10-54x300U-BL-TU-D25	Stator 3x400VAC, A/B Encoder, PTC	0150-2755
PS10-54x300U-BL-TU-D25S	Stator 3x400VAC, A/B Encoder 5um, PTC	0150-2785
PL01-28x2000/1920	Slider 'standard'	0150-1396

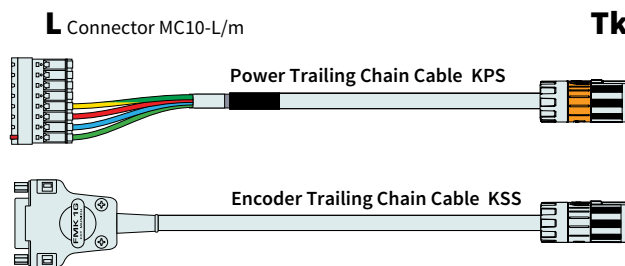
Motor Cable



C1400



E1400

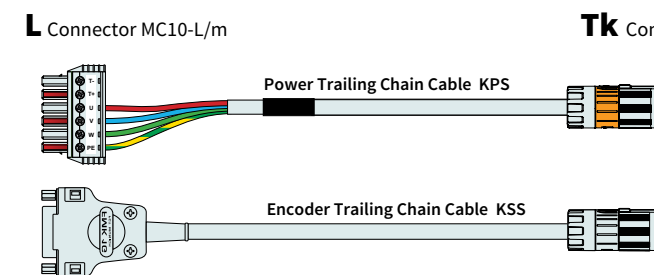


D15s Connector MC01-D15s-45°/f

Tk Connector MC10-Tk/f



P10-54x300U



D15s Connector MC01-D15s-45°/f

Tk Connector MC10-Tk/f



P10-54x300U

ORDERING INFORMATION

TRAILING CHAIN CABLE FOR LINMOT DRIVES		
Item	Description	Item-No.
KPS07-04/02-L/Tk-3	Power Trailing Chain Cable E1400/P10-54, 3 m	0150-2670
KPS07-04/02-L/Tk-5	Power Trailing Chain Cable E1400/P10-54, 5 m	0150-2671
KPS07-04/02-L/Tk-8	Power Trailing Chain Cable E1400/P10-54, 8 m	0150-2672
KPS07-04/02-L/Tk-12	Power Trailing Chain Cable E1400/P10-54, 12 m	0150-2673
KPS07-04/02-B/Tk-3	Power Trailing Chain Cable C1400/P10-54, 3 m	0150-3648
KPS07-04/02-B/Tk-5	Power Trailing Chain Cable C1400/P10-54, 5 m	0150-3657
KPS07-04/02-B/Tk-8	Power Trailing Chain Cable C1400/P10-54, 8 m	0150-3658
KPS07-04/02-B/Tk-12	Power Trailing Chain Cable C1400/P10-54, 12 m	0150-3659
KSS 05-02/08-D15s/Uk-3	Encoder Trailing Chain Cable D15s/Uk, 3 m	0150-2650
KSS 05-02/08-D15s/Uk-5	Encoder Trailing Chain Cable D15s/Uk, 5 m	0150-2651
KSS 05-02/08-D15s/Uk-8	Encoder Trailing Chain Cable D15s/Uk, 8 m	0150-2652
KSS 05-02/08-D15s/Uk-12	Encoder Trailing Chain Cable D15s/Uk, 12 m	0150-2653

TRAILING CHAIN CABLES FOR THIRD PARTY DRIVES

Item	Description	Item-No.
KPS07-04/02-./Tk-10	Power Trailing Chain Cable .../Tk, 10 m	0150-3626
KPS07-04/02-./Tk-	Power Trailing Chain Cable .../Tk, Custom length	0150-3622
KSS05-02/13-./Uk-10	Encoder Trailing Chain Cable ./Uk, 10 m	0150-3627
KSS05-02/13-./Uk-	Encoder Trailing Chain Cable ./Uk, Custom length	0150-3619

CONNECTOR & CABLE (INDIVIDUAL)

Item	Description	Item-No.
MC10-L/m	Connector Power E1400/X2	0150-3382
MC01-D15/f	Motor Connector D15 (f)	0150-3136
MC10-Tk/f	Connector Power PS10-54	0150-3482
MC10-Uk/f	Connector Encoder PS10-54	0150-3483
KPS07-04/02	Power Trailing Chain Cable P10-54 (per m)	0150-2372
KSS05-02/08	Trailing Chain Cable Encoder LinMot (per m)	0150-2258
KSS05-02/13	Trailing Chain Cable Encoder P10-...-Dxx (per m)	0150-2259

MOTOR FLANGES



Item	Description	Item-No.
PF10-54x320	Flange for PS10-54x300	0150-2736

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".

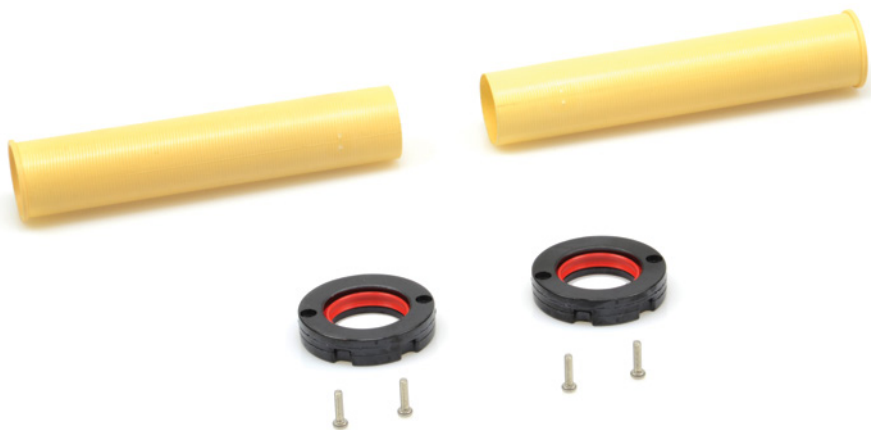
SLIDER MOUNTING



Item	Description	Item-No.
PLF01-28	Fixed Bearing Set for 27/28 mm sliders	0150-3087
PLF01-28-SS	Fixed Bearing Set for 27/28 mm sliders, stainless steel	0150-3297
PLL01-28	Floating Bearing for 28 mm sliders	0150-3094
PLM01-28-MK	Mounting Kit for 28 mm sliders	0150-3095

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KIT



Item	Description	Item-No.
PB10-54x300-L	Bearing Kit for PS10-54x300	0150-3674

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-D15/D-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".