

# LINEAR MOTORS P10-70X400U



- ✓ 3 x 400VAC Technology
- ✓ Peak forces up to 2720 N
- ✓ Extremely high dynamic
- ✓ Separate connector for sensor and power cable
- ✓ Can also be controlled by standard third-party servo drives

**LINEAR MOTORS P10-70x400U**

<b>Technical Data</b>	<b>611</b>
<b>Motor Specifications</b>	
P10-70x400U/50	<b>617</b>
P10-70x400U/150	<b>618</b>
P10-70x400U/250	<b>619</b>
P10-70x400U/350	<b>620</b>
P10-70x400U/450	<b>621</b>
P10-70x400U/650	<b>622</b>
P10-70x400U/850	<b>623</b>
P10-70x400U/1050	<b>624</b>
P10-70x400U/1250	<b>625</b>
P10-70x400U/1450	<b>626</b>
<b>Linear Guides</b>	<b>627</b>
<b>Accessories</b>	<b>629</b>

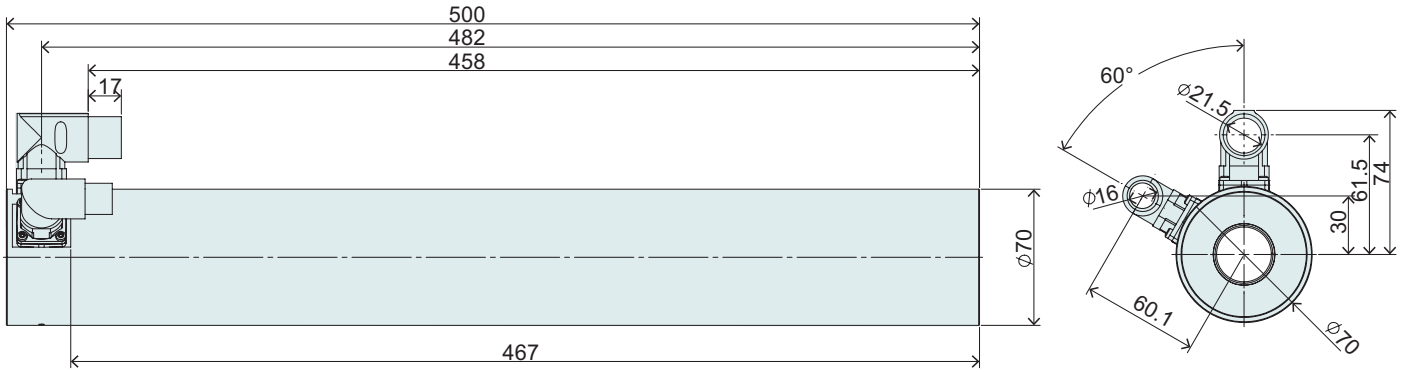


## MOTOR FAMILY P10-70x400U

Technical Data			
<b>Stroke</b>			
Max. Stroke (ES)	mm (in)		1450 (57.1)
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)		2150 (483)
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)		2720 (611)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		320 / 500 / 890 (73 / 110 / 200)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		80 (18)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )		113 (25.4)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)		2.2 (89.9)
Max. Velocity @ 3x400VAC	m/s (in/s)		3.9 (159.9)
<b>Position Detection</b>			
Position Resolution	mm (in)		0.005 (0.0002)
Repeatability	mm (in)		±0.05 (±0.002)
Position Resolution with ES	mm (in)		0.001 (0.00004)
Repeatability with ES	mm (in)		±0.01 (±0.0004)
Linearity with ES	mm (in)		±0.01 (±0.0004)
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		26.8 / 18.9
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		33.9 / 23.9
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		4 / 6.2 / 11
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		2.9 / 4.4 / 7.9
Back EMF Constant	V <sub>pk</sub> / (m/s) (V <sub>pk</sub> / (in/s))		92.4 (2.35)
Terminal Resistance 25 °C / 120 °C	Ohm		6.9 / 9.5
Terminal Inductivity	mH		13
Magnetic Period	mm (in)		40 (1.57)
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.52 / 0.22 / 0.068
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 100
<b>Mechanical Data</b>			
Stator Diameter	mm (in)		70 (2.8)
Stator Length	mm (in)		500 (20)
Stator Mass	g (lb)		8250 (18.15)
Slider Diameter	mm (in)		28 (1.1)
Slider Length	mm (in)		590 - 1990 (23 - 78)
Slider Mass	g (lb)		2770 - 9350 (6.09 - 20.57)
IP Code			IP 65
<b>Certification</b>			
UL	File-No.		E354430

1) Real time calculation of motor winding temperature is required (including monitoring).  
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.

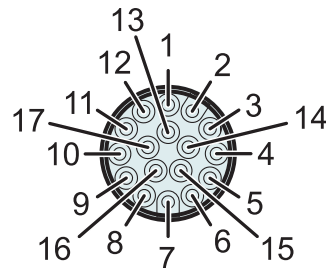
**STATOR**



Item	Description	Item-No.	Comment
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>	For use with LinMot Drives
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>	For use with 3rd Party Drives
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>	For use with 3rd Party Drives
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>	For use with 3rd Party Drives

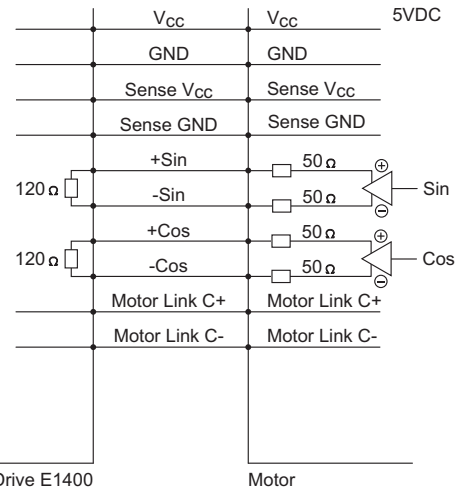
**CONNECTOR PS10-70x400U-BL-QJ (INTERFACE FOR LINMOT DRIVES)**

Motor Connector Wiring	Connector Encoder J	Wire Color Motor Cable
+5VDC*	Supply	1 red
GND	Supply	2 black
Sense +5V*	Supply Sense	3 white
Sense GND*	Supply Sense	4 brown
Mot. Link C+	Communication	5 pink
Mot. Link C-	Communication	6 grey
Sin+	Encoder	7 yellow
Sin-	Encoder	8 orange
Cos+	Encoder	9 green
Cos-	Encoder	10 blue
n. c.	n. c.	11 n. c.
n. c.	n. c.	12 n. c.
n. c.	n. c.	13 n. c.
n. c.	n. c.	14 n. c.
n. c.	n. c.	15 n. c.
n. c.	n. c.	16 n. c.
n. c.	n. c.	17 n. c.



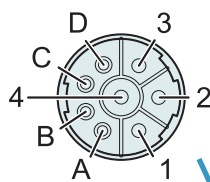
**Connector Encoder J**

View: Motor connector, plug side



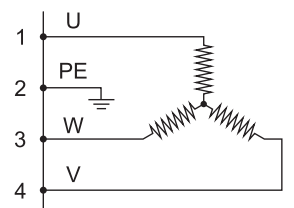
\* The supply voltage at 5V sense supply is approx. 6V. Newer motors are provided with a modified power supply, that does not require sense lines any more. In that case, a supply voltage of 6...9V is permitted.

Motor Connector Wiring	Connector Power Q	Wire Color Motor Cable
Phase U	1	red
PE	2	yellow-green
Phase W	3	black (previously: green)
Phase V	4	blue
n. c.	A	n. c.
n. c.	B	n. c.
n. c.	C	n. c.
n. c.	D	n. c.

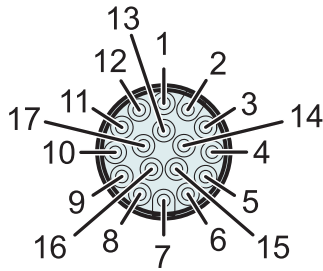


**Connector Power Q**

View: Motor connector, plug side



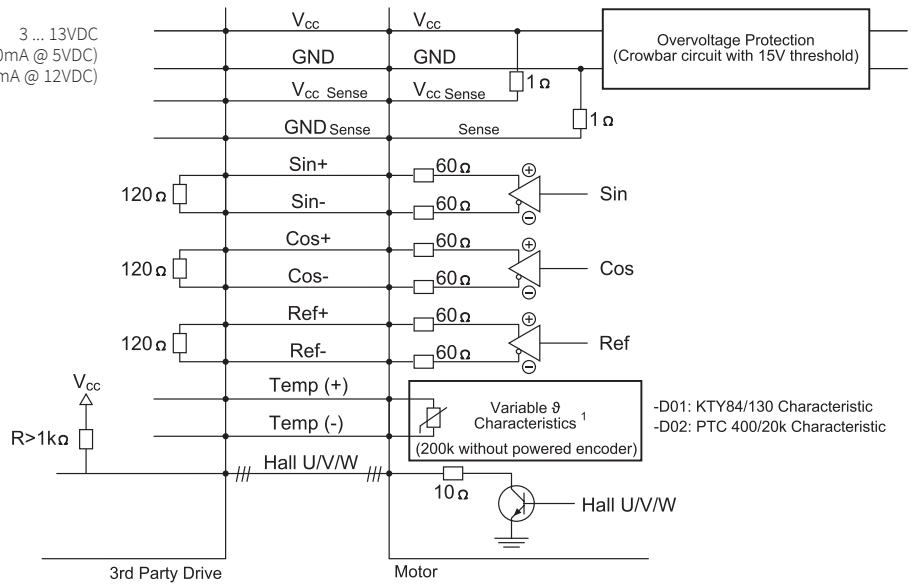
**CONNECTOR PS10-70x400U-BL-QJ-D01/02 (INTERFACE FOR 3RD PARTY DRIVES)**



**Connector Encoder J**

View: Motor connector, plug side

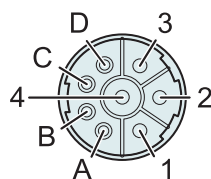
3 ... 13VDC  
( $I_{max} < 150\text{mA}$  @ 5VDC)  
( $I_{max} < 80\text{mA}$  @ 12VDC)



-D01: KTY84/130 Characteristic  
-D02: PTC 400/20k Characteristic

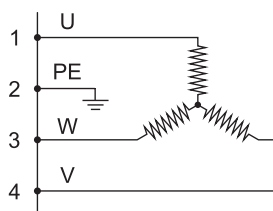
Motor Connector Wiring				
PS10-70x400U-BL-QJ-D01	PS10-70x400U-BL-QJ-D02	Function	Connector Encoder J	Wire Color Motor Cable
3 ... 13 VDC	3 ... 13 VDC	Supply	1	white
GND	GND	Supply	2	brown
Vcc Sense (optional)	Vcc Sense (optional)	Supply Sense	3	green
GND Sense (optional)	GND Sense (optional)	Supply Sense	4	yellow
Do not connect	Do not connect	-	5	-
Do not connect	Do not connect	-	6	-
Sin+	Sin+	Encoder 1 Vpp	7	grey
Sin-	Sin-	Encoder 1 Vpp	8	pink
Cos+	Cos+	Encoder 1 Vpp	9	blue
Cos-	Cos-	Encoder 1 Vpp	10	red
Ref+	Ref+	Encoder 1 Vpp	11	black
Ref-	Ref-	Encoder 1 Vpp	12	violett
Hall U	Hall U	Encoder (open collector)	13	grey-red
Hall V	Hall V	Encoder (open collector)	14	red-blue
Hall W	Hall W	Encoder (open collector)	15	white-green
Temp+ (KTY84/130 Char.)	Temp+ (PTC 400/20k Char.)	Temperature <sup>1</sup>	16	yellow-brown
Temp- (KTY84/130 Char.)	Temp- (PTC 400/20k Char.)	Temperature <sup>1</sup>	17	white-yellow

1) 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, 200k Ohms are measured between Pins 16 and 17. The maximum voltage between Pin 16 and 17 must not exceed 16 VDC. The maximum current must not exceed 15 mA.



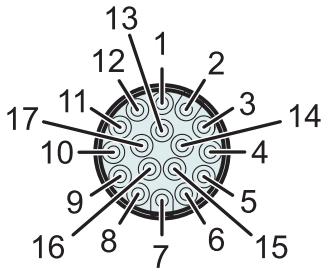
**Connector Power Q**

View: Motor connector, plug side



Mmotor Steckerbelegung			
PS10-70x400U-BL-QJ-D01	PS10-70x400U-BL-QJ-D02	Connector Power Q	Wire Color Motor Cable
Phase U	Phase U	1	red
PE	PE	2	yellow-green
Phase W	Phase W	3	black (previously: green)
Phase V	Phase V	4	blue
n. c.	n. c.	A	n. c.
n. c.	n. c.	B	n. c.
n. c.	n. c.	C	n. c.
n. c.	n. c.	D	n. c.

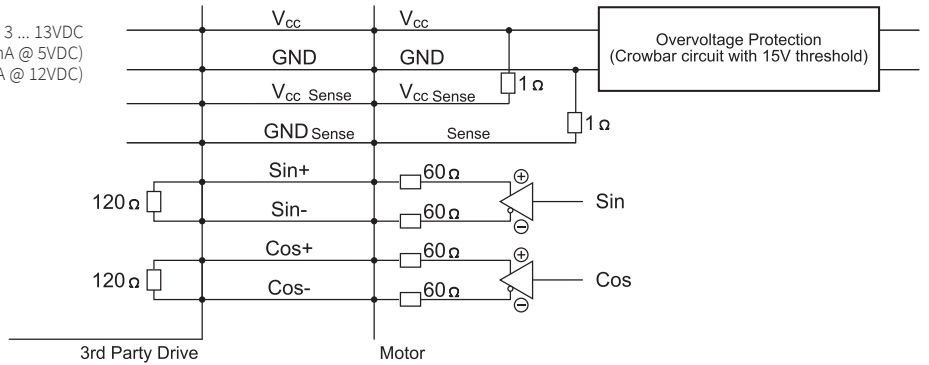
**CONNECTOR PS10-70x400U-BL-QJ-D03 (INTERFACE FOR 3RD PARTY DRIVES)**



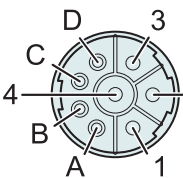
**Connector Encoder J**

View: Motor connector, plug side

3 ... 13VDC  
( $I_{max} < 150\text{mA}$  @ 5VDC)  
( $I_{max} < 80\text{mA}$  @ 12VDC)

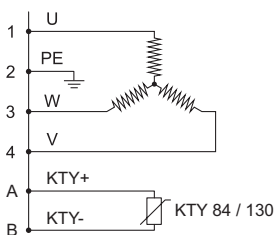


Motor Connector Wiring		Wire Color Motor Cable	Connector Encoder J
3 ... 13VDC	Supply	red	1
GND	Supply	black	2
Vcc Sense (optional)	Supply Sense	white	3
GND Sense (optional)	Supply Sense	brown	4
Do not connect	-	-	5
Do not connect	-	-	6
Sin+	Encoder 1 Vpp	yellow	7
Sin-	Encoder 1 Vpp	orange	8
Cos+	Encoder 1 Vpp	green	9
Cos-	Encoder 1 Vpp	blue	10
n. c.	-	n. c.	11
n. c.	-	n. c.	12
n. c.	-	n. c.	13
Do not connect	-	n. c.	14
n. c.	-	n. c.	15
n. c.	-	n. c.	16
n. c.	-	n. c.	17



**Connector Power Q**

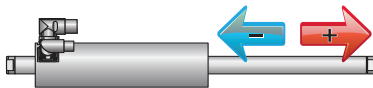
View: Motor connector, plug side



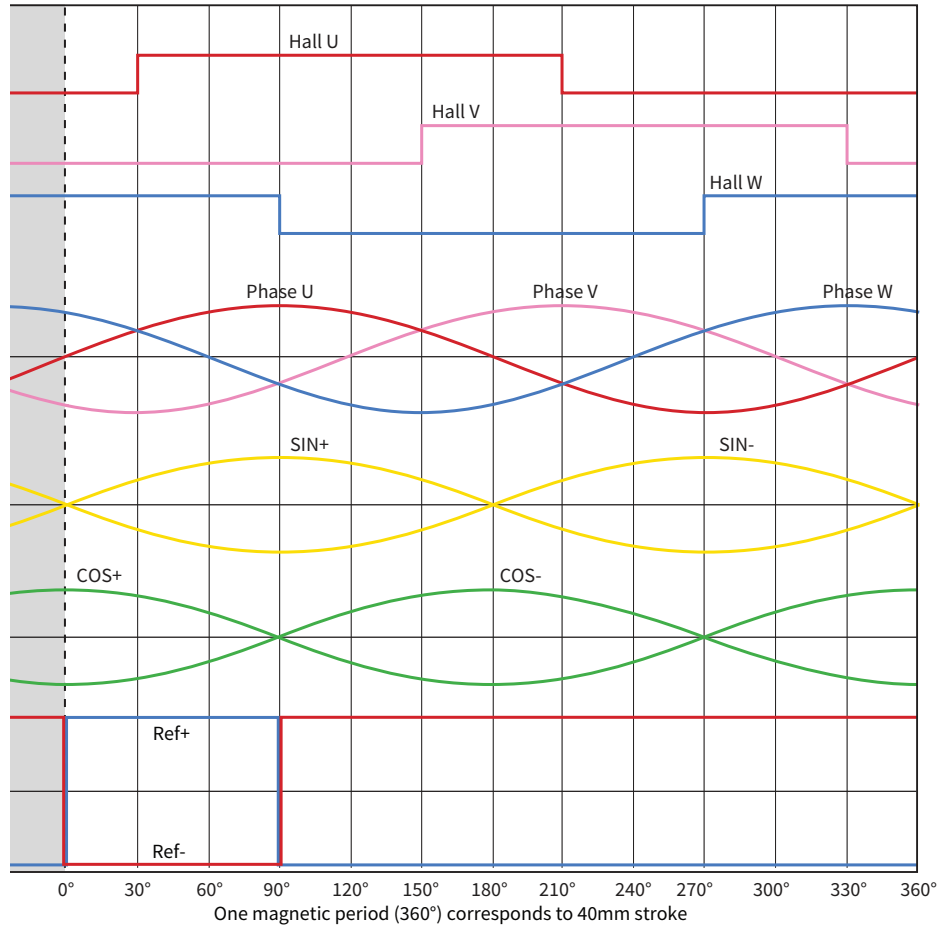
Motor Connector Wiring	Connector Power Q	Wire Color Motor Cable Variant colored (new)	Wire Color Motor Cable Variant black
Phase U	1	red	black 1
PE	2	yellow-green	yellow-green
Phase W	3	black (previously: green)	black 3
Phase V	4	blue	black 2
KTY +	A	purple	black 5
KTY -	B	grey	black 6
n. c.	C	yellow	black 7
n. c.	D	brown	black 8

**DOX POSITION FEEDBACK (SIN / COS INTERFACE FOR 3RD PARTY DRIVES)**

The Linear Motor Series P10-70 has noncontact, integral position feedback. No external encoder is required. Position output is industry standard 1Vpp sin/cos signals with 40mm period. The position sensor outputs analogue, differential sine and cosine signals to provide position feedback. The relation between the phase current and the position sensor output is shown on the right. (SIN+ and SIN- encoder signal is always in phase with motor current phase U).



The arrows indicate the direction of movement of the slider. The stator is locked into position.



		P10-70x...-D0x
Output signal period	mm	40
Signal amplitude <sup>3</sup>	V <sub>pp</sub>	1
Termination <sup>3</sup>	Ohm	120
Supply voltage	V <sub>d</sub> c	3...13 (w or w/o sense)
Power consumption	mW	< 1000
		( I < 150mA @ 5VDC, I < 80mA @ 12 VDC) <sup>2</sup>
Position repeatability <sup>1</sup>	µm	±20
Linearity over 1m <sup>1</sup>	%	< ±0.025

1) Dependent on the amplifier. Under constant operating and thermal conditions.  
 2) Power efficiency of the motor electronics varies with supply voltage  
 3) Applicable for sin+/sin-, cos+/cos- and ref+/ref- signals. Hall U/V/W are open collector signals.

**DOX TEMPERATURE FEEDBACK (SIN / COS INTERFACE FOR 3RD PARTY DRIVES)**

**D01 / D02**

Overheat protection is provided by three internal thermistors embedded in the motor windings. These thermistors are monitored by the motor's electronics. A single thermistor is emulated based on the maximum of the measured temperature values. This is done to accurately monitor the temperature over the whole length of the stator and to react as fast as possible to dynamic changes in a single motor phase. As the motor winding temperature reaches its absolute maximum value, the drive amplifier or servo control-

ler must disable the motor in order to protect the motor from overheat damages.

**D03**

Overheat protection is provided by a single internal temperature sensor embedded in the middle of the motor windings. As the motor winding temperature reaches its absolute maximum value, the drive amplifier or servo controller must disable the motor in order to protect the motor from overheat damages.

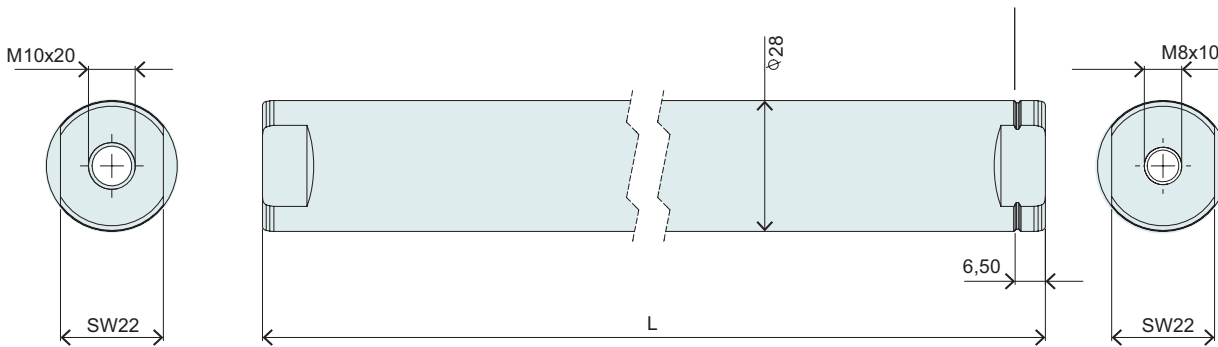


Attention: It is strongly recommended that the motor over-temperature sensor is connected to the drive amplifier or servo controller at all times in order to reduce the risk of damage to the motor due to excessive temperatures. For D01 and D02 motors, the motor encoder has to be powered to ensure correct temperature read-outs.

**SLIDER**

**Slider Standard**

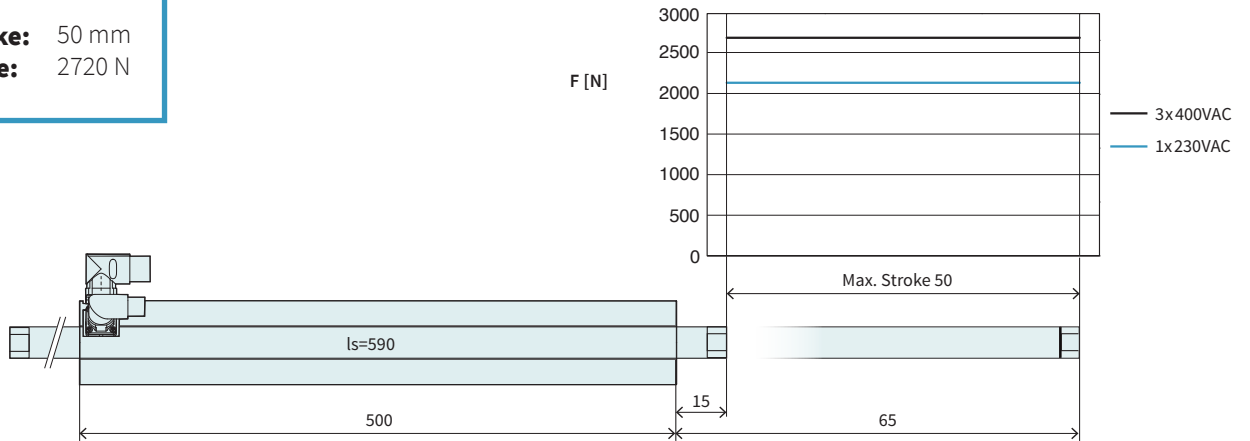
Number of grooves determines the slider type (see chapter 2 / slider) and marks the front end.



Slider Standard			
Item	Description	Max. Stroke [mm]	Item-No.
PL10-28x590/540	Slider for P10-70 'standard'	50	<a href="#">0150-2196</a>
PL10-28x690/640	Slider for P10-70 'standard'	150	<a href="#">0150-2197</a>
PL10-28x790/740	Slider for P10-70 'standard'	250	<a href="#">0150-2198</a>
PL10-28x890/840	Slider for P10-70 'standard'	350	<a href="#">0150-2199</a>
PL10-28x990/940	Slider for P10-70 'standard'	450	<a href="#">0150-2203</a>
PL10-28x1190/1140	Slider for P10-70 'standard'	650	<a href="#">0150-2204</a>
PL10-28x1390/1340	Slider for P10-70 'standard'	850	<a href="#">0150-2205</a>
PL10-28x1590/1540	Slider for P10-70 'standard'	1050	<a href="#">0150-2206</a>
PL10-28x1790/1740	Slider for P10-70 'standard'	1250	<a href="#">0150-2207</a>
PL10-28x1990/1940	Slider for P10-70 'standard'	1450	<a href="#">0150-2208</a>

**P10-70x400U/50-BL-QJ**

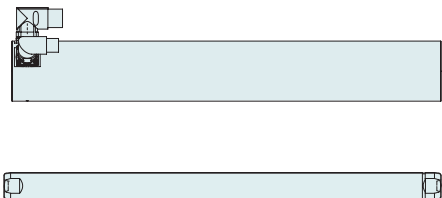
**Max. Stroke:** 50 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/50			
<b>Stroke</b>			
Max. Stroke	mm (in)	50 (1.96)	
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)	2150 (483)	
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)	2720 (611)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	320 / 500 / 890 (73 / 110 / 200)	
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	80 (18)	
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	113 (25.4)	
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	2.2 (89.9)	
Max. Velocity @ 3x400VAC	m/s (in/s)	3.9 (3.9)	
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 1.1	
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	26.8 / 18.9	
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	33.9 / 23.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	4 / 6.2 / 11	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	2.9 / 4.4 / 7.9	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.52 / 0.22 / 0.068	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 100	
<b>Mechanical Data</b>			
Slider Length	mm (in)	590 (23)	
Slider Mass	g (lb)	2770 (6.09)	

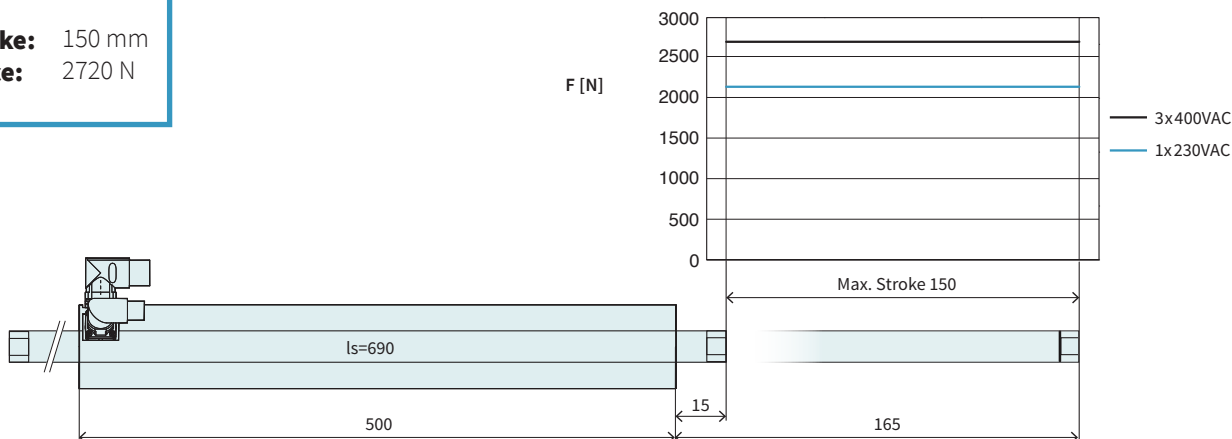
1) Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x590/540</b>	Slider for P10-70 'standard'	<a href="#">0150-2196</a>

**P10-70x400U/150-BL-QJ**

**Max. Stroke:** 150 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/150			
<b>Stroke</b>			
Max. Stroke	mm (in)	150 (5.91)	
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)	2150 (483)	
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)	2720 (611)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	320 / 500 / 890 (73 / 110 / 200)	
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	80 (18)	
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	113 (25.4)	
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	2.2 (89.9)	
Max. Velocity @ 3x400VAC	m/s (in/s)	3.9 (3.9)	
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.45	
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	26.8 / 18.9	
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	33.9 / 23.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	4 / 6.2 / 11	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	2.9 / 4.4 / 7.9	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.52 / 0.22 / 0.068	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 100	
<b>Mechanical Data</b>			
Slider Length	mm (in)	690 (27)	
Slider Mass	g (lb)	3240 (7.13)	

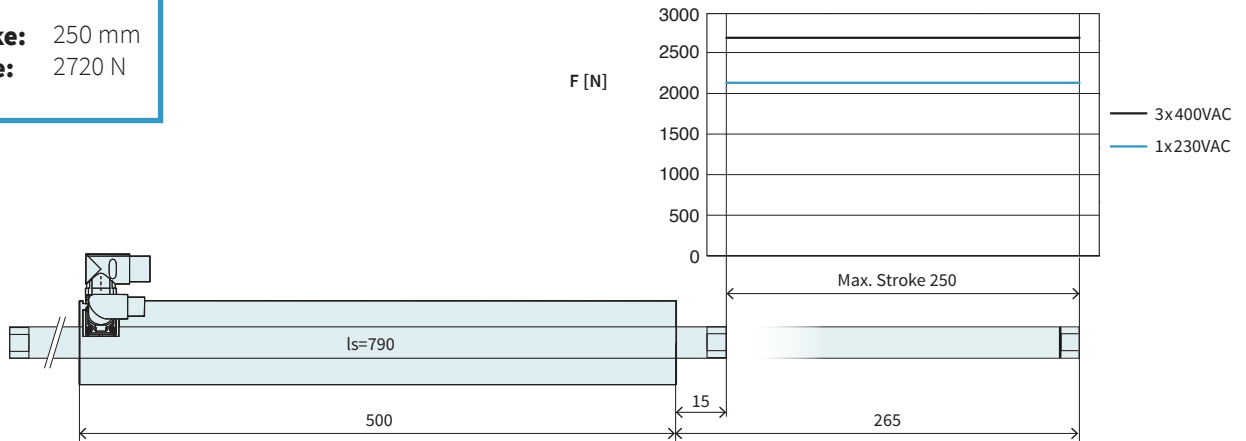
1) Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x690/640</b>	Slider for P10-70 'standard'	<a href="#">0150-2197</a>

**P10-70x400U/250-BL-QJ**

**Max. Stroke:** 250 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/250			
<b>Stroke</b>			
Max. Stroke	mm (in)		250 (9.83)
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)		2150 (483)
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)		2720 (611)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		320 / 500 / 890 (73 / 110 / 200)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		80 (18)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )		113 (25.4)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)		2.2 (89.9)
Max. Velocity @ 3x400VAC	m/s (in/s)		3.9 (3.9)
<b>Position Detection</b>			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.3
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		26.8 / 18.9
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		33.9 / 23.9
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		4 / 6.2 / 11
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		2.9 / 4.4 / 7.9
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.52 / 0.22 / 0.068
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 100
<b>Mechanical Data</b>			
Slider Length	mm (in)		790 (31)
Slider Mass	g (lb)		3710 (8.16)

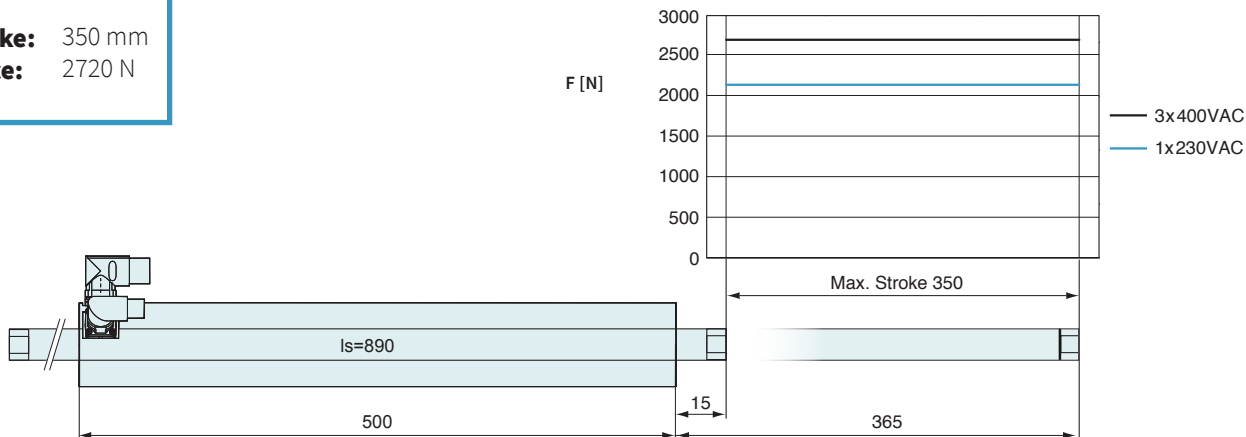
1) Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x790/740</b>	Slider for P10-70 'standard'	<a href="#">0150-2198</a>

**P10-70x400U/350-BL-QJ**

**Max. Stroke:** 350 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/350			
<b>Stroke</b>			
Max. Stroke	mm (in)	350 (13.8)	
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)	2150 (483)	
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)	2720 (611)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	320 / 500 / 890 (73 / 110 / 200)	
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	80 (18)	
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	113 (25.4)	
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	2.2 (89.9)	
Max. Velocity @ 3x400VAC	m/s (in/s)	3.9 (3.9)	
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.25	
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	26.8 / 18.9	
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	33.9 / 23.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	4 / 6.2 / 11	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	2.9 / 4.4 / 7.9	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.52 / 0.22 / 0.068	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 100	
<b>Mechanical Data</b>			
Slider Length	mm (in)	890 (35)	
Slider Mass	g (lb)	4180 (9.2)	

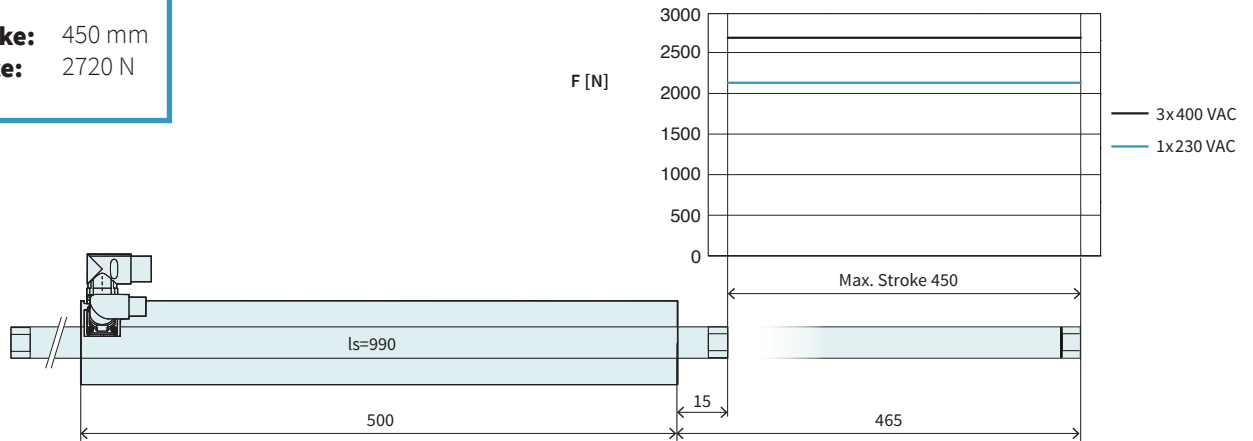
1) Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x890/840</b>	Slider for P10-70 'standard'	<a href="#">0150-2199</a>

**P10-70x400U/450-BL-QJ**

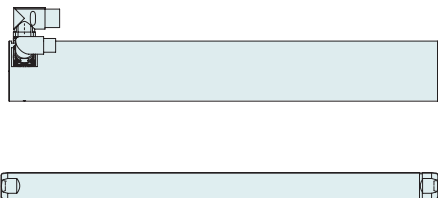
**Max. Stroke:** 450 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/450				
<b>Stroke</b>				
Max. Stroke	mm	(in)	450	(17.69)
<b>Force</b>				
Max. Force <sup>1</sup> @ 1x230VAC	N	(lbf)	2150	(483)
Max. Force <sup>1</sup> @ 3x400VAC	N	(lbf)	2720	(611)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	320 / 500 / 890	(73 / 110 / 200)
Max. Border Force relative			100	
Force Constant 1	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	80	(18)
Force Constant 2	N/A <sub>rms</sub>	(lbf/A <sub>rms</sub> )	113	(25.4)
<b>Velocity</b>				
Max. Velocity @ 1x230VAC	m/s	(in/s)	2.2	(89.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	3.9	(3.9)
<b>Position Detection</b>				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity			± 0.2	
<b>Electrical Data</b>				
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		26.8 / 18.9	
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		33.9 / 23.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		4 / 6.2 / 11	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		2.9 / 4.4 / 7.9	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.52 / 0.22 / 0.068	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 100	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	990	(39)
Slider Mass	g	(lb)	4650	(10.23)

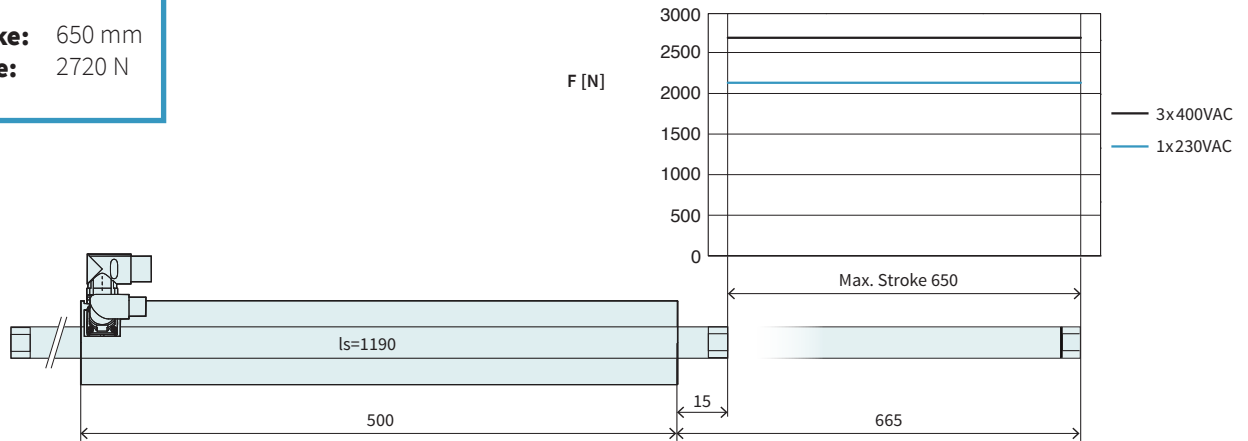
1) Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x990/940</b>	Slider for P10-70 'standard'	<a href="#">0150-2203</a>

**P10-70x400U/650-BL-QJ**

**Max. Stroke:** 650 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/650

Technical Data P10-70x400U/650			
<b>Stroke</b>			
Max. Stroke	mm (in)		650 (25.6)
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)		2150 (483)
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)		2720 (611)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		320 / 500 / 890 (73 / 110 / 200)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		80 (18)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )		113 (25.4)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)		2.2 (89.9)
Max. Velocity @ 3x400VAC	m/s (in/s)		3.9 (3.9)
<b>Position Detection</b>			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.2
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		26.8 / 18.9
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		33.9 / 23.9
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		4 / 6.2 / 11
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		2.9 / 4.4 / 7.9
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.52 / 0.22 / 0.068
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 100
<b>Mechanical Data</b>			
Slider Length	mm (in)		1190 (47)
Slider Mass	g (lb)		5590 (12.3)

1) Real time calculation of motor winding temperature is required (including monitoring).

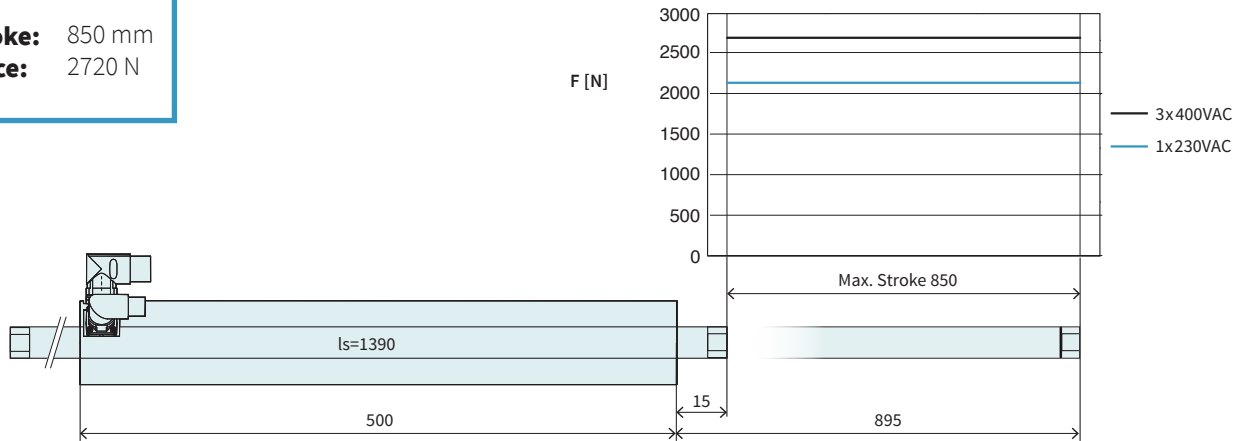
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x1190/1140</b>	Slider for P10-70 'standard'	<a href="#">0150-2204</a>

**P10-70x400U/850-BL-QJ**

**Max. Stroke:** 850 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/850			
<b>Stroke</b>			
Max. Stroke	mm (in)	850	(33.49)
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)	2150	(483)
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)	2720	(611)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	320 / 500 / 890	(73 / 110 / 200)
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	80	(18)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	113	(25.4)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	2.2	(89.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	3.9	(3.9)
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	26.8 / 18.9	
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	33.9 / 23.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	4 / 6.2 / 11	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	2.9 / 4.4 / 7.9	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.52 / 0.22 / 0.068	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 100	
<b>Mechanical Data</b>			
Slider Length	mm (in)	1390	(55)
Slider Mass	g (lb)	6530	(14.37)

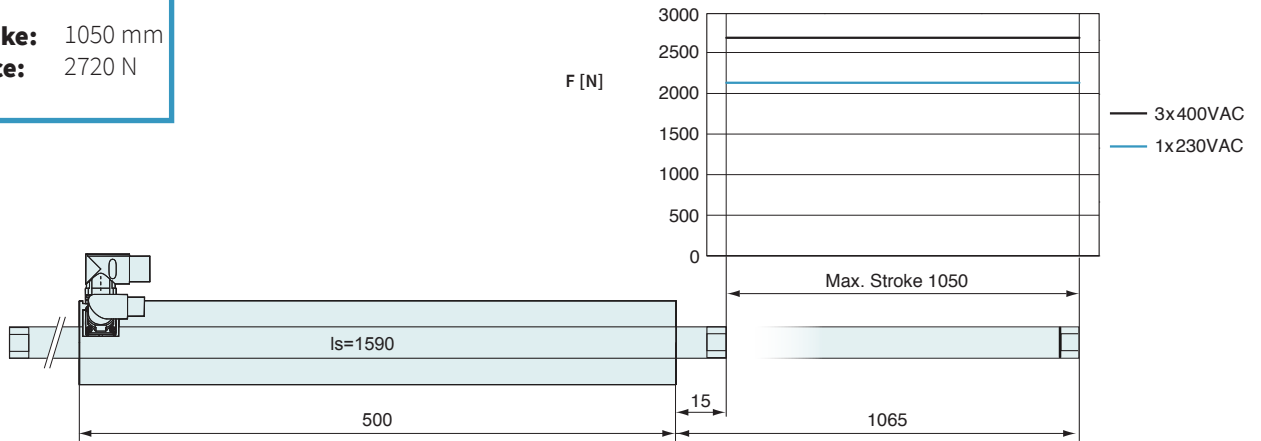
1) Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x1390/1340</b>	Slider for P10-70 'standard'	<a href="#">0150-2205</a>

**P10-70x400U/1050-BL-QJ**

**Max. Stroke:** 1050 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/1050			
<b>Stroke</b>			
Max. Stroke	mm (in)	1050	(41.29)
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)	2150	(483)
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)	2720	(611)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	320 / 500 / 890	(73 / 110 / 200)
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	80	(18)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	113	(25.4)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	2.2	(89.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	3.9	(3.9)
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	26.8 / 18.9	
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	33.9 / 23.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	4 / 6.2 / 11	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	2.9 / 4.4 / 7.9	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.52 / 0.22 / 0.068	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 100	
<b>Mechanical Data</b>			
Slider Length	mm (in)	1590	(63)
Slider Mass	g (lb)	7470	(16.43)

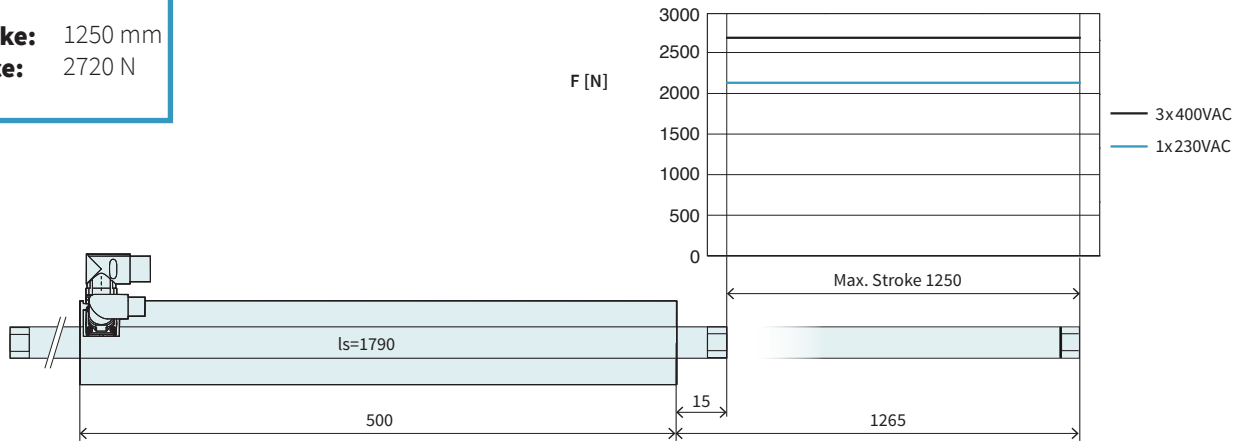
1) Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x1590/1540</b>	Slider for P10-70 'standard'	<a href="#">0150-2206</a>

**P10-70x400U/1250-BL-QJ**

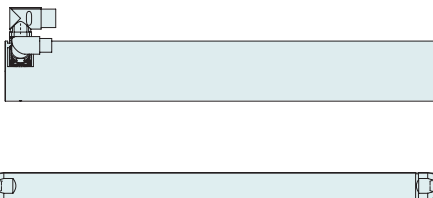
**Max. Stroke:** 1250 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/1250			
<b>Stroke</b>			
Max. Stroke	mm (in)		1250 (49.2)
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)		2150 (483)
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)		2720 (611)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		320 / 500 / 890 (73 / 110 / 200)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		80 (18)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )		113 (25.4)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)		2.2 (89.9)
Max. Velocity @ 3x400VAC	m/s (in/s)		3.9 (3.9)
<b>Position Detection</b>			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.15
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		26.8 / 18.9
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		33.9 / 23.9
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		4 / 6.2 / 11
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		2.9 / 4.4 / 7.9
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		0.52 / 0.22 / 0.068
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 100
<b>Mechanical Data</b>			
Slider Length	mm (in)		1790 (70)
Slider Mass	g (lb)		8413 (18.51)

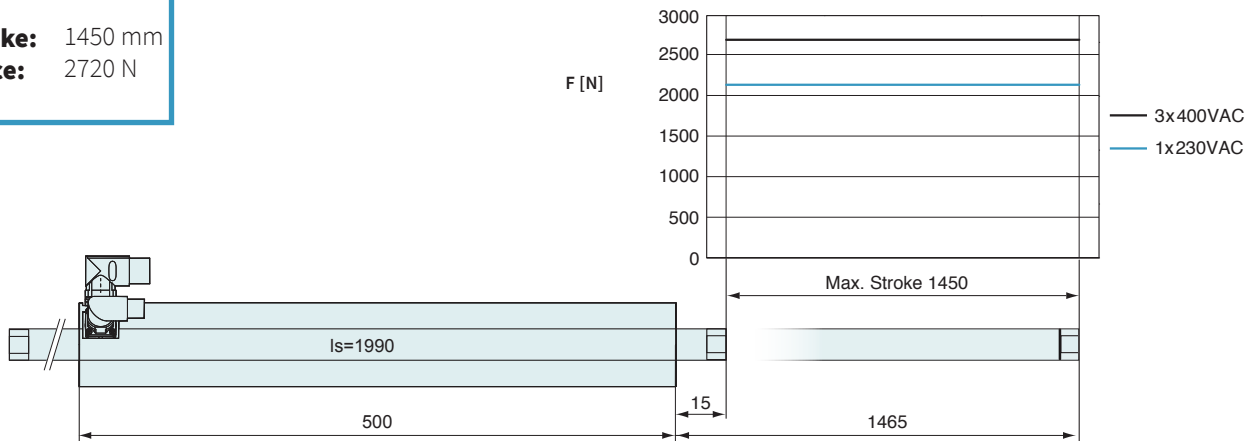
1) Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x1790/1740</b>	Slider for P10-70 'standard'	<a href="#">0150-2207</a>

**P10-70x400U/1450-BL-QJ**

**Max. Stroke:** 1450 mm  
**Peak Force:** 2720 N



Dimensions in mm

Technical Data P10-70x400U/1450			
<b>Stroke</b>			
Max. Stroke	mm (in)	1450	(57.1)
<b>Force</b>			
Max. Force <sup>1</sup> @ 1x230VAC	N (lbf)	2150	(483)
Max. Force <sup>1</sup> @ 3x400VAC	N (lbf)	2720	(611)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	320 / 500 / 890	(73 / 110 / 200)
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	80	(18)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	113	(25.4)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	2.2	(89.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	3.9	(3.9)
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
<b>Electrical Data</b>			
Max. Current <sup>1</sup> @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	26.8 / 18.9	
Max. Current <sup>1</sup> @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	33.9 / 23.9	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	4 / 6.2 / 11	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	2.9 / 4.4 / 7.9	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	0.52 / 0.22 / 0.068	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 100	
<b>Mechanical Data</b>			
Slider Length	mm (in)	1990	(78)
Slider Mass	g (lb)	9350	(20.57)

<sup>1</sup> Real time calculation of motor winding temperature is required (including monitoring).  
 If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



Item	Description	Item-No.
<b>PS10-70x400U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
<b>PS10-70x400U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
<b>PS10-70x400U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
<b>PS10-70x400U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
<b>PL10-28x1990/1940</b>	Slider for P10-70 'standard'	<a href="#">0150-2208</a>

**Linear Guides H10**



4

HM10-70x400/50		Linear Module 70x400 with 50 mm Stroke		
→	H-Guide	H10-70x400/50	H-Guide for P10-70x400, Stroke max. 50 mm	<a href="#">0150-5419</a>
	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
		PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
		PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
		PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
Slider	PL10-28x590/540	Slider for P10-70 'standard'	<a href="#">0150-2196</a>	

HM10-70x400/150		Linear Module 70x400 with 150 mm Stroke		
→	H-Guide	H10-70x400/150	H-Guide for P10-70x400, Stroke max. 150 mm	<a href="#">0150-5420</a>
	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
		PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
		PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
		PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
Slider	PL10-28x690/640	Slider for P10-70 'standard'	<a href="#">0150-2197</a>	

HM10-70x400/250		Linear Module 70x400 with 250 mm Stroke		
→	H-Guide	H10-70x400/250	H-Guide for P10-70x400, Stroke max. 250 mm	<a href="#">0150-5421</a>
	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
		PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
		PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
		PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
Slider	PL10-28x790/740	Slider for P10-70 'standard'	<a href="#">0150-2198</a>	

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

4

**HM10-70x400/350** | Linear Module 70x400 with 350 mm Stroke

→	H-Guide	H10-70x400/350	H-Guide for P10-70x400, Stroke max. 350 mm	<a href="#">0150-5422</a>	
	→	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
			PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
			PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
			PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
→	Slider	PL10-28x890/840	Slider for P10-70 'standard'	<a href="#">0150-2199</a>	

**HM10-70x400/450** | Linear Module 70x400 with 450 mm Stroke

→	H-Guide	H10-70x400/450	H-Guide for P10-70x400, Stroke max. 450 mm	<a href="#">0150-5423</a>	
	→	Stator	PS10-70x400U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1294</a>
			PS10-70x400U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2286</a>
			PS10-70x400U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2363</a>
			PS10-70x400U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2712</a>
→	Slider	PL10-28x990/940	Slider for P10-70 'standard'	<a href="#">0150-2203</a>	

**Accessories**

→	Fan	HV01-37/48	Fan cooling for H01-37/48 & PF02-37/48	<a href="#">0150-5051</a>
---	-----	------------	--	---------------------------

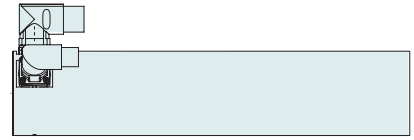
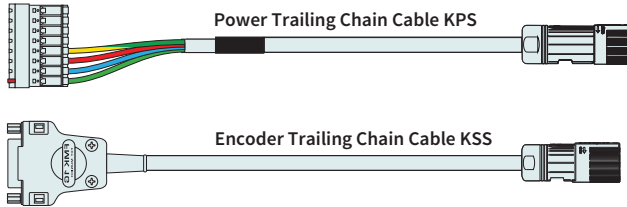
**Motor Cable**



**C1400**

**B** Connector MC10-B/m

**Q** Connector MC10-Q/f



**P10-70x400U**

**D15** Connector MC01-D15/f

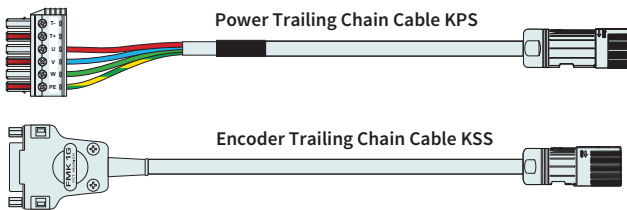
**J** Connector MC10-J/f



**E1400**

**L** Connector MC10-L/m

**Q** Connector MC10-Q/f



**P10-70x400U**

**D15** Connector MC01-D15/f

**J** Connector MC10-J/f

**ORDERING INFORMATION**

TRAILING CHAIN CABLE FOR LINMOT DRIVES		
Item	Description	Item-No.
<b>KPS15-04-L/Q-3</b>	Power Trailing Chain Cable E1400/P10-70, 3 m	<a href="#">0150-2266</a>
<b>KPS15-04-L/Q-5</b>	Power Trailing Chain Cable E1400/P10-70, 5 m	<a href="#">0150-2261</a>
<b>KPS15-04-L/Q-8</b>	Power Trailing Chain Cable E1400/P10-70, 8 m	<a href="#">0150-2267</a>
<b>KPS15-04-L/Q-12</b>	Power Trailing Chain Cable E1400/P10-70, 12 m	<a href="#">0150-2268</a>
<b>KPS15-04-L/Q-</b>	Power Trailing Chain Cable L/Q-, Custom length	<a href="#">0150-3388</a>
<b>KPS15-04-B/Q-3</b>	Power Trailing Chain Cable C1400/P10-70, 3 m	<a href="#">0150-3660</a>
<b>KPS15-04-B/Q-5</b>	Power Trailing Chain Cable C1400/P10-70, 5 m	<a href="#">0150-3661</a>
<b>KPS15-04-B/Q-8</b>	Power Trailing Chain Cable C1400/P10-70, 8 m	<a href="#">0150-3662</a>
<b>KPS15-04-B/Q-12</b>	Power Trailing Chain Cable C1400/P10-70, 12 m	<a href="#">0150-3663</a>
<b>KPS15-04-B/Q-</b>	Power Trailing Chain Cable B/Q-, Custom length	<a href="#">0150-3608</a>

## TRAILING CHAIN CABLE FOR LINMOT DRIVES

Item	Description	Item-No.
<b>KSS 05-02/08-D15/J-3</b>	Encoder Trailing Chain Cable D15/J, 3 m	<a href="#">0150-2263</a>
<b>KSS 05-02/08-D15/J-5</b>	Encoder Trailing Chain Cable D15/J, 5 m	<a href="#">0150-2262</a>
<b>KSS 05-02/08-D15/J-8</b>	Encoder Trailing Chain Cable D15/J, 8 m	<a href="#">0150-2264</a>
<b>KSS 05-02/08-D15/J-12</b>	Encoder Trailing Chain Cable D15/J, 12 m	<a href="#">0150-2265</a>
<b>KSS 05-02/08-D15(f)-45°/J-</b>	Encoder Trailing Chain Cable D15/J-, Custom length	<a href="#">0150-3389</a>

## TRAILING CHAIN CABLE FOR STATOR SERIES D01 / D02

Item	Description	Item-No.
<b>KPS15-04-.../Q-10</b>	Power Trailing Chain Cable .../Q, 10 m for D0x	<a href="#">0150-2376</a>
<b>KPS15-04-./Q-</b>	Power Trailing Chain Cable .../Q, for D0x, Custom length	<a href="#">0150-3491</a>
<b>KSS05-02/13-./J-10</b>	Encoder Trailing Chain Cable ./J, 10 m for D0x	<a href="#">0150-2377</a>
<b>KSS05-02/13-./J-</b>	Encoder Trailing Chain Cable ./J, for D0x, Custom length	<a href="#">0150-3492</a>
<b>KPS15-04</b>	Power Trailing Chain Cable P10-70 (per m)	<a href="#">0150-2257</a>
<b>KSS05-02/13</b>	Trailing Chain Cable Encoder P10-...-Dxx (per m)	<a href="#">0150-2259</a>

## TRAILING CHAIN CABLE FOR STATOR SERIES D03

Item	Description	Item-No.
<b>KPS15-04/04.../Q-10</b>	Power Trailing Chain Cable .../Q, 10 m for D03	<a href="#">0150-3654</a>
<b>KPS15-04/04-./Q-</b>	Power Trailing Chain Cable .../Q, for D03, Custom length	<a href="#">0150-3579</a>
<b>KSS05-02/06-./J-10</b>	Encoder Trailing Chain Cable ./J, 10 m for D03	<a href="#">0150-3655</a>
<b>KSS05-02/06-./J-</b>	Encoder Trailing Chain Cable ./J, for D03, Custom length	<a href="#">0150-3611</a>
<b>KPS15-04/04</b>	Power Trailing Chain Cable P10-...-Dx3 (per m)	<a href="#">0150-2269</a>
<b>KSS05-02/06</b>	Trailing Chain Cable Encoder P10-...-Dx3 (per m)	<a href="#">0150-2490</a>

## CONNECTOR

Item	Description	Item-No.
<b>MC10-L/m</b>	Connector Power E1400/X2	<a href="#">0150-3382</a>
<b>MC01-D15/f</b>	Motor Connector D15 (f)	<a href="#">0150-3136</a>
<b>MC10-Q/f</b>	Connector Power PS10-70	<a href="#">0150-2268</a>
<b>MC10-J/f</b>	Connector Encoder PS10-70	<a href="#">0150-2269</a>

**MOTOR FLANGES**



Item	Description	Item-No.
<b>PF10-70x430</b>	Flange for PS10-70x400	<a href="#">0150-2276</a>



Item	Description	Item-No.
<b>PF10-70x430-FC</b>	Flange for PS10-70x400 fluid cooling	<a href="#">0150-2295</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



Item	Description	Item-No.
<b>PF11-70x430-FC</b>	Flange for PS10-70x400 fluid cooling	<a href="#">0150-2826</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

**FANS**



Item	Description	Item-No.
<b>HV01-37/48</b>	Fan cooling for H01-37/48 & PF02-37/48	<a href="#">0150-5051</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

**SLIDER MOUNTING**



Item	Description	Item-No.
<b>PLF01-28</b>	Fixed Bearing Set for 27/28 mm sliders	<a href="#">0150-3087</a>
<b>PLF01-28-SS</b>	Fixed Bearing Set for 27/28 mm sliders, stainless steel	<a href="#">0150-3297</a>
<b>PLL01-28</b>	Floating Bearing for 28 mm sliders	<a href="#">0150-3094</a>
<b>PLM01-28-MK</b>	Mounting Kit for 28 mm sliders	<a href="#">0150-3095</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

**BEARING KIT**



Item	Description	Item-No.
<b>PB10-70x400-L</b>	Bearing Kit for PS10-70x400	<a href="#">0150-3435</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

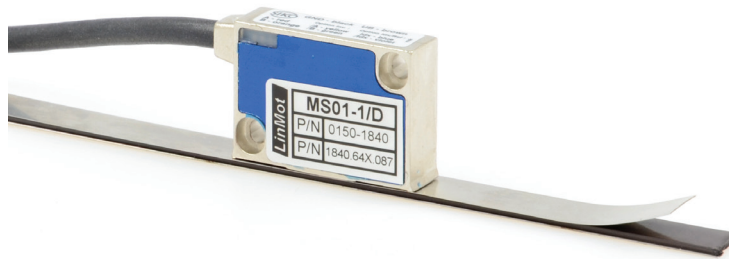
**LUBRICANT RESERVOIR**



Item	Description	Item-No.
PA10-70/28	Lubricant reservoir for PS10-70 with lubricating nipple	<a href="#">0150-3543</a>

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)	<a href="#">0150-1840</a>
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	<a href="#">0150-1963</a>
KS025-D15/D-Encoder	Encoder Cable (Length in m)	<a href="#">0150-3168</a>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

A series of horizontal dotted lines for taking notes.