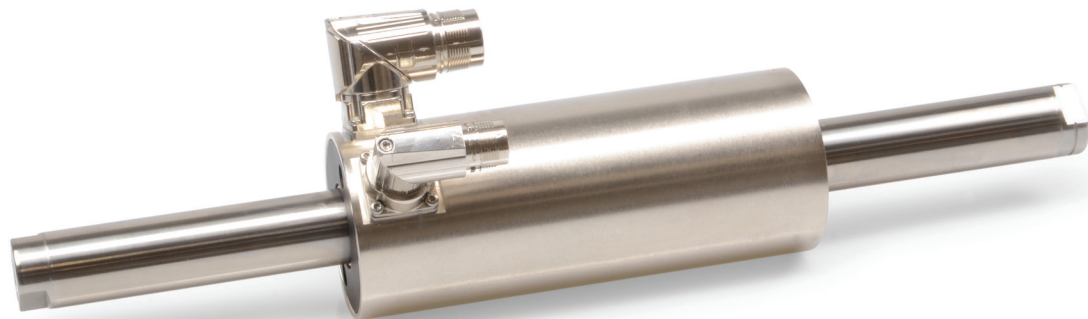


# LINEAR MOTORS P10-70x80U



- ✓ 3 x 400VAC technology
- ✓ Peak forces up to 561 N
- ✓ Extremely high dynamic
- ✓ Separate connector for sensor and power cable
- ✓ Can also be controlled by standard third-party servo drives

**LINEAR MOTORS P10-70x80U**

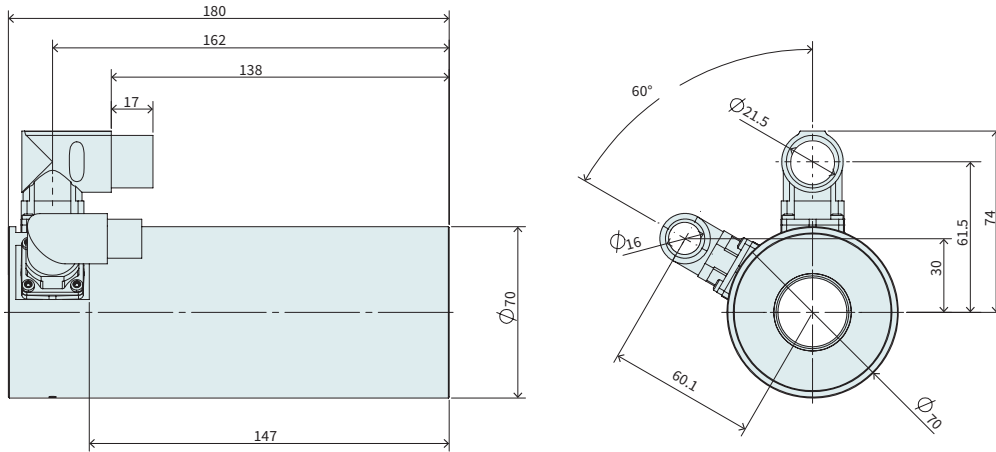
<b>Technical Data</b>	<b>491</b>
<b>Motor Specifications</b>	
P10-70x80U/70	<b>496</b>
P10-70x80U/170	<b>497</b>
P10-70x80U/270	<b>498</b>
P10-70x80U/370	<b>499</b>
P10-70x80U/470	<b>500</b>
P10-70x80U/570	<b>501</b>
P10-70x80U/670	<b>502</b>
P10-70x80U/770	<b>503</b>
P10-70x80U/970	<b>504</b>
P10-70x80U/1170	<b>505</b>
P10-70x80U/1370	<b>506</b>
P10-70x80U/1570	<b>507</b>
P10-70x80U/1770	<b>508</b>
<b>Linear Guides</b>	<b>509</b>
<b>Accessories</b>	<b>511</b>



## MOTOR FAMILY P10-70x80U

Technical Data				
<b>Stroke</b>				
Max. Stroke (ES)	mm	(in)	1770	(69.7)
<b>Force</b>				
Max. Force @ 1x230VAC	N	(lbf)	561	(126)
Max. Force @ 3x400VAC	N	(lbf)	561	(126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	67 / 100 / 180	(15 / 23 / 41)
Max. Border Force relative	%		100	
Force Constant 1	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	51	(11.5)
Force Constant 2	N/A <sub>rms</sub>	(lbf/A <sub>rms</sub> )	72.1	(16.2)
<b>Velocity</b>				
Max. Velocity @ 1x230VAC	m/s	(in/s)	3.5	(139.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	6.1	(249.9)
<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 @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		0.93 / 1.4 / 2.5	
Back EMF Constant	V <sub>pk</sub> / (m/s)	(V <sub>pk</sub> / (in/s))	58.9	(1.5)
Terminal Resistance 25 °C / 120 °C	Ohm		13 / 18	
Terminal Inductivity	mH		25	
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		2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 110	
<b>Mechanical Data</b>				
Stator Diameter	mm	(in)	70	(2.8)
Stator Length	mm	(in)	180	(7.1)
Stator Mass	g	(lb)	2850	(6.27)
Slider Diameter	mm	(in)	28	(1.1)
Slider Length	mm	(in)	290 - 1990	(11 - 78)
Slider Mass	g	(lb)	1360 - 9350	(3 - 20.57)
IP Code			IP 65	
<b>Certification</b>				
UL	File-No.		E354430	

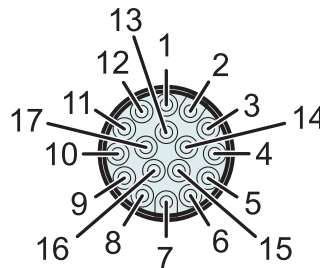
**STATOR**



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>

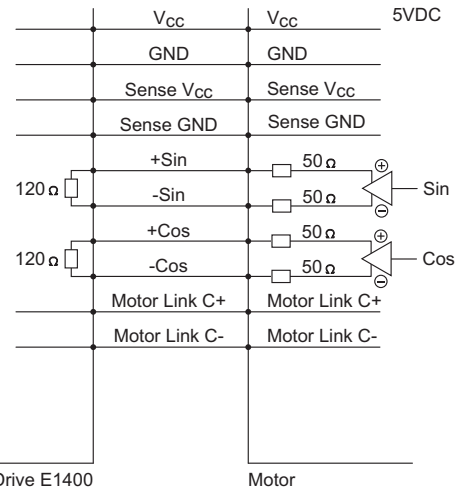
**CONNECTOR PS10-70x80U-BL-QJ**

Motor Connector Wiring		Connector Encoder J	Wire Color Motor Cable
+5 VDC	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.

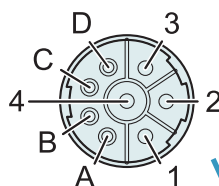


**Connector Encoder J**

View: Motor connector, plug side

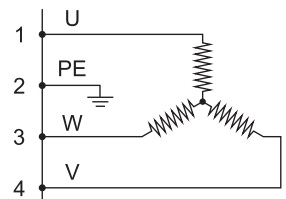


Motor Steckerbelegung	Connector Power Q	Wire Color Motor Cable
Phase U	1	red
PE	2	yellow-green
Phase W	3	green
Phase V	4	blue
n. c.	A	n. c.
n. c.	B	n. c.
n. c.	C	n. c.
n. c.	D	n. c.

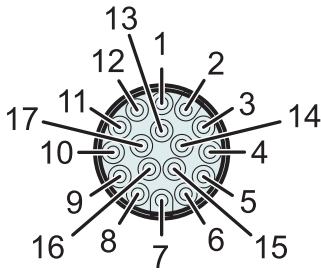


**Connector Power Q**

View: Motor connector, plug side



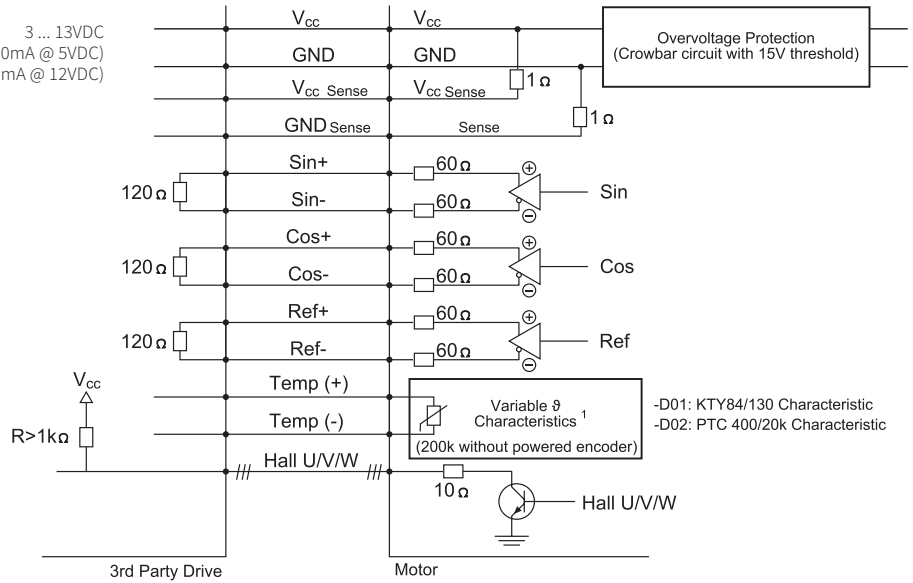
**CONNECTOR PS10-70X80U-BL-QJ-D01/02**



**Connector Encoder J**

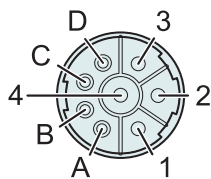
View: Motor connector, plug side

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



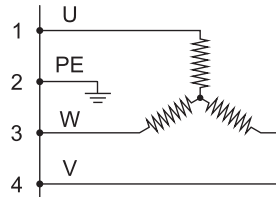
Motor Connector Wiring				
PS10-70x80U-BL-QJ-D01	PS10-70x80U-BL-QJ-D02	Function	Connector Encoder J	Wire Color Motor Cable
3 ... 13VDC	3 ... 13VDC	Supply	1	white
GND	GND	Supply	2	brown
Vcc Sense (optional)	Vcc Sense (optional)	Supply Sense	3	green
GND Sense (optional)	GND Sense (optional)	Supply Sense	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.



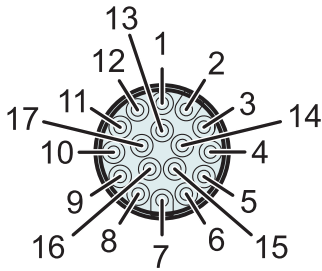
**Connector Power Q**

View: Motor connector, plug side



Motor Connector Wiring			
PS10-70x80U-BL-QJ-D01	PS10-70x80U-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	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.

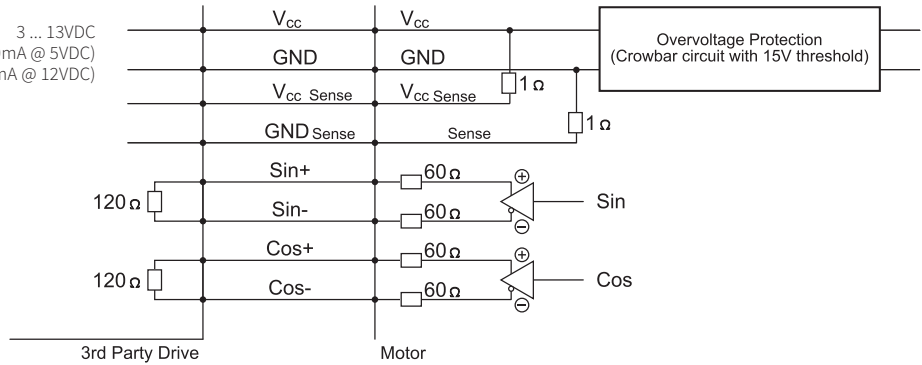
**CONNECTOR PS10-70X80U-BL-QJ-D03**



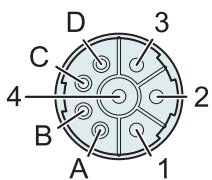
**Connector Encoder J**

View: Motor connector, plug side

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

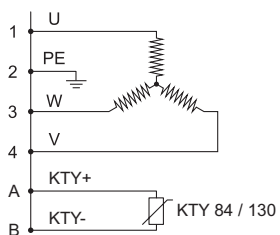


Motor Connector Wiring		Connector Encoder J	Wire Color Motor Cable
3 ... 13VDC	Supply	1	red
GND	Supply	2	black
Vcc Sense (optional)	Supply Sense	3	white
GND Sense (optional)	Supply Sense	4	brown
Do not connect	-	5	-
Do not connect	-	6	-
Sin+	Encoder 1 Vpp	7	yellow
Sin-	Encoder 1 Vpp	8	orange
Cos+	Encoder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



**Connector Power Q**

View: Motor connector, plug side

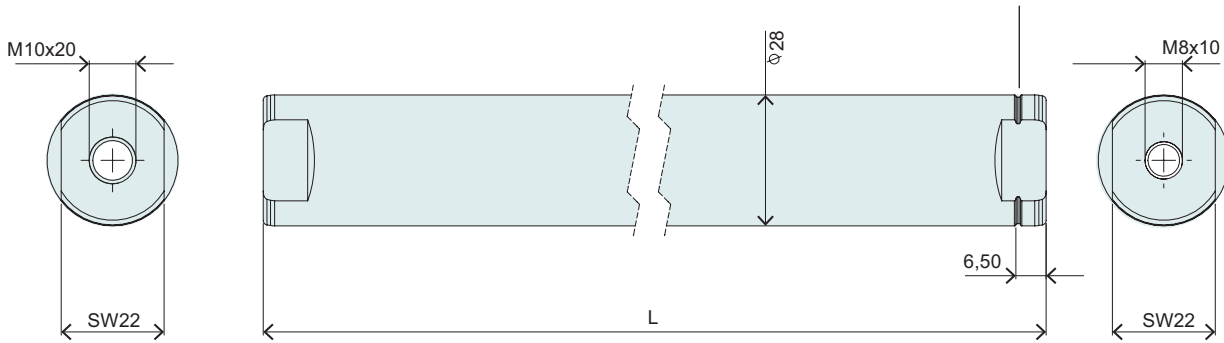


Motor Connector Wiring	Connector Power Q	Wire Color Motor Cable
Phase U	1	red (previously: black 1)
PE	2	yellow-green
Phase W	3	green (previously: black 3)
Phase V	4	blue (previously: black 2)
KTY+	A	purple (previously: black 5)
KTY-	B	grey (previously: black 6)
n. c.	C	yellow (previously: black 7)
n.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

**SLIDER**

**Slider Standard**

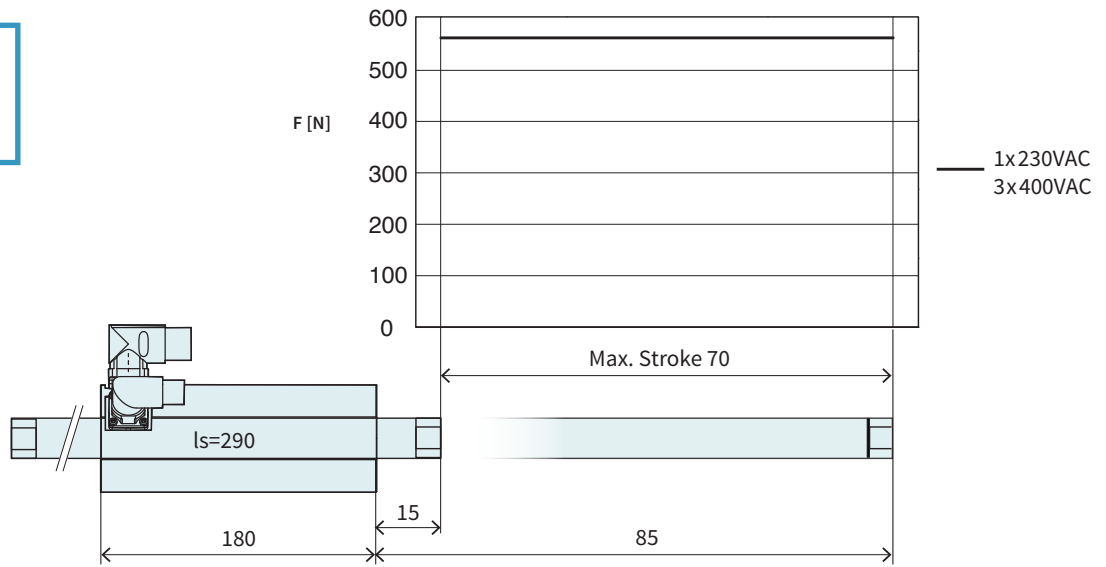
Number of grooves determines the slider type (see chapter 2 / slider) and marks the front end.



Slider Standard			
Item	Description	Max. Stroke [mm]	Item-No.
PL10-28x290/240	Slider for P10-70 'standard'	70	<a href="#">0150-2193</a>
PL10-28x390/340	Slider for P10-70 'standard'	170	<a href="#">0150-2194</a>
PL10-28x490/440	Slider for P10-70 'standard'	270	<a href="#">0150-2195</a>
PL10-28x590/540	Slider for P10-70 'standard'	370	<a href="#">0150-2196</a>
PL10-28x690/640	Slider for P10-70 'standard'	470	<a href="#">0150-2197</a>
PL10-28x790/740	Slider for P10-70 'standard'	570	<a href="#">0150-2198</a>
PL10-28x890/840	Slider for P10-70 'standard'	670	<a href="#">0150-2199</a>
PL10-28x990/940	Slider for P10-70 'standard'	770	<a href="#">0150-2203</a>
PL10-28x1190/1140	Slider for P10-70 'standard'	970	<a href="#">0150-2204</a>
PL10-28x1390/1340	Slider for P10-70 'standard'	1170	<a href="#">0150-2205</a>
PL10-28x1590/1540	Slider for P10-70 'standard'	1370	<a href="#">0150-2206</a>
PL10-28x1790/1740	Slider for P10-70 'standard'	1570	<a href="#">0150-2207</a>
PL10-28x1990/1940	Slider for P10-70 'standard'	1770	<a href="#">0150-2208</a>

**P10-70x80U/70-BL-QJ**

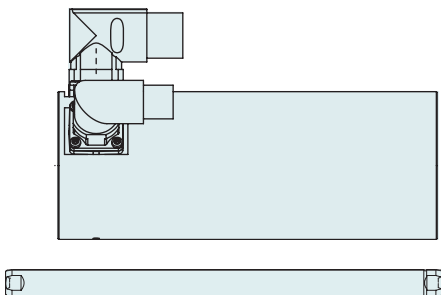
**Max. Stroke:** 70 mm  
**Peak Force:** 561 N



Dimensions in mm

Technical Data P10-70x80U/70

Stroke			
Max. Stroke	mm (in)		70 (2.75)
Force			
Max. Force @ 1x230VAC	N (lbf)		561 (126)
Max. Force @ 3x400VAC	N (lbf)		561 (126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		67 / 100 / 180 (15 / 23 / 41)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		51 (11.5)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )		72.1 (16.2)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)		3.5 (139.9)
Max. Velocity @ 3x400VAC	m/s (in/s)		6.1 (6.1)
Position Detection			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.8
Electrical Data			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		1.3 / 2 / 3.5
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		0.93 / 1.4 / 2.5
Thermal Data			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.6 / 1.1 / 0.36
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 110
Mechanical Data			
Slider Length	mm (in)		290 (11)
Slider Mass	g (lb)		1360 (3)

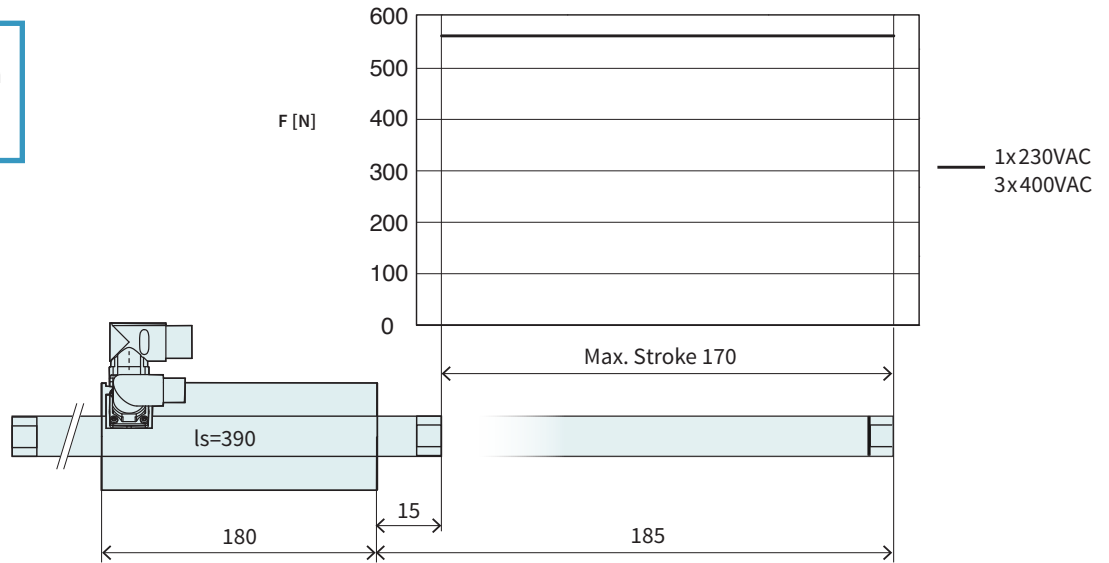


Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x290/240</b>	Slider for P10-70 'standard'	<a href="#">0150-2193</a>



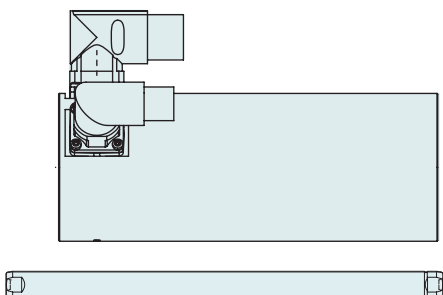
**P10-70x80U/170-BL-QJ**

**Max. Stroke:** 170 mm  
**Peak Force:** 561 N



Dimensions in mm

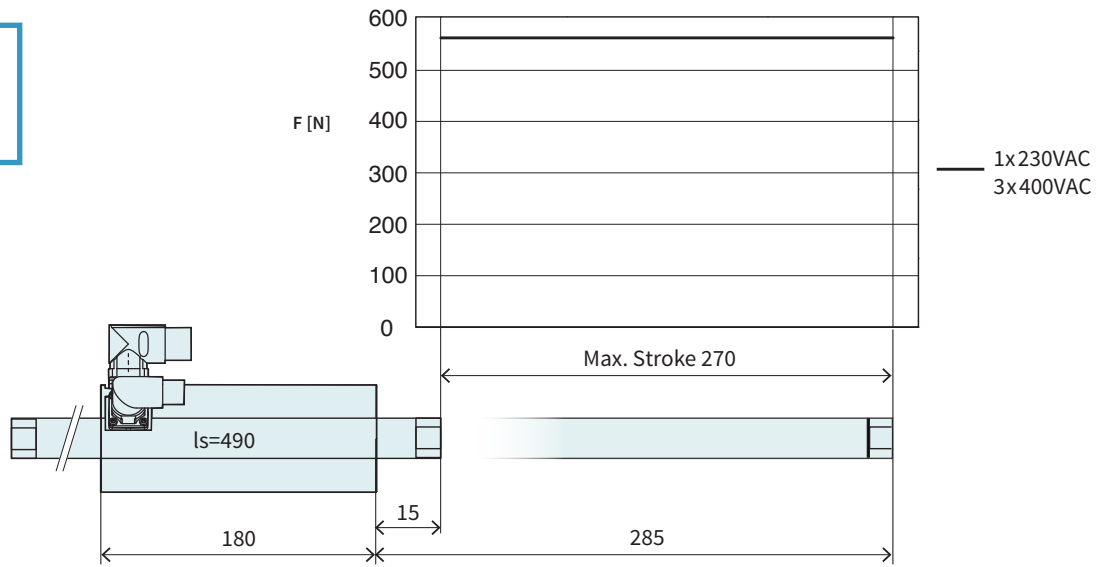
Technical Data P10-70x80U/170			
<b>Stroke</b>			
Max. Stroke	mm (in)	170	(6.69)
<b>Force</b>			
Max. Force @ 1x230VAC	N (lbf)	561	(126)
Max. Force @ 3x400VAC	N (lbf)	561	(126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	67 / 100 / 180	(15 / 23 / 41)
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	51	(11.5)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	72.1	(16.2)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	3.5	(139.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	6.1	(6.1)
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.4	
<b>Electrical Data</b>			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	0.93 / 1.4 / 2.5	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 110	
<b>Mechanical Data</b>			
Slider Length	mm (in)	390	(15)
Slider Mass	g (lb)	1830	(4.03)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x390/340</b>	Slider for P10-70 'standard'	<a href="#">0150-2194</a>

**P10-70x80U/270-BL-QJ**

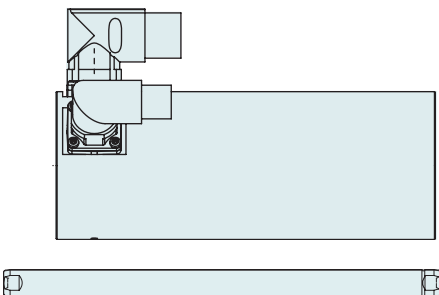
**Max. Stroke:** 270 mm  
**Peak Force:** 561 N



Dimensions in mm

Technical Data P10-70x80U/270

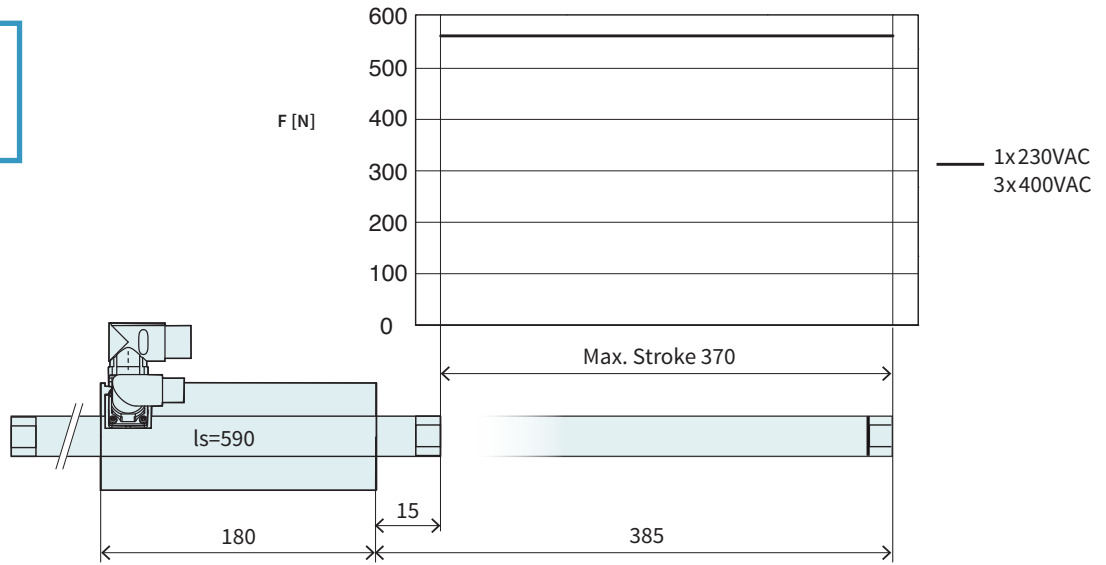
Stroke			
Max. Stroke	mm	(in)	270 (10.59)
Force			
Max. Force @ 1x230VAC	N	(lbf)	561 (126)
Max. Force @ 3x400VAC	N	(lbf)	561 (126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	67 / 100 / 180 (15 / 23 / 41)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	51 (11.5)
Force Constant 2	N/A <sub>rms</sub>	(lbf/A <sub>rms</sub> )	72.1 (16.2)
Velocity			
Max. Velocity @ 1x230VAC	m/s	(in/s)	3.5 (139.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	6.1 (6.1)
Position Detection			
Repeatability	mm	(in)	±0.05 (±0.002)
Linearity	%		± 0.3
Electrical Data			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		1.3 / 2 / 3.5
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		0.93 / 1.4 / 2.5
Thermal Data			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	*K/W		2.6 / 1.1 / 0.36
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 110
Mechanical Data			
Slider Length	mm	(in)	490 (19)
Slider Mass	g	(lb)	2300 (5.06)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x490/440</b>	Slider for P10-70 'standard'	<a href="#">0150-2195</a>

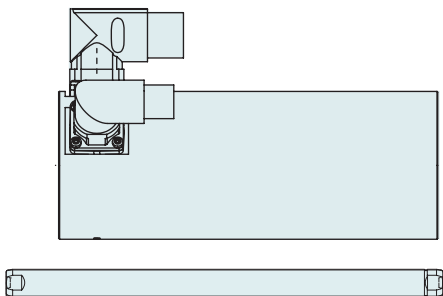
**P10-70x80U/370-BL-QJ**

**Max. Stroke:** 370 mm  
**Peak Force:** 561 N



Dimensions in mm

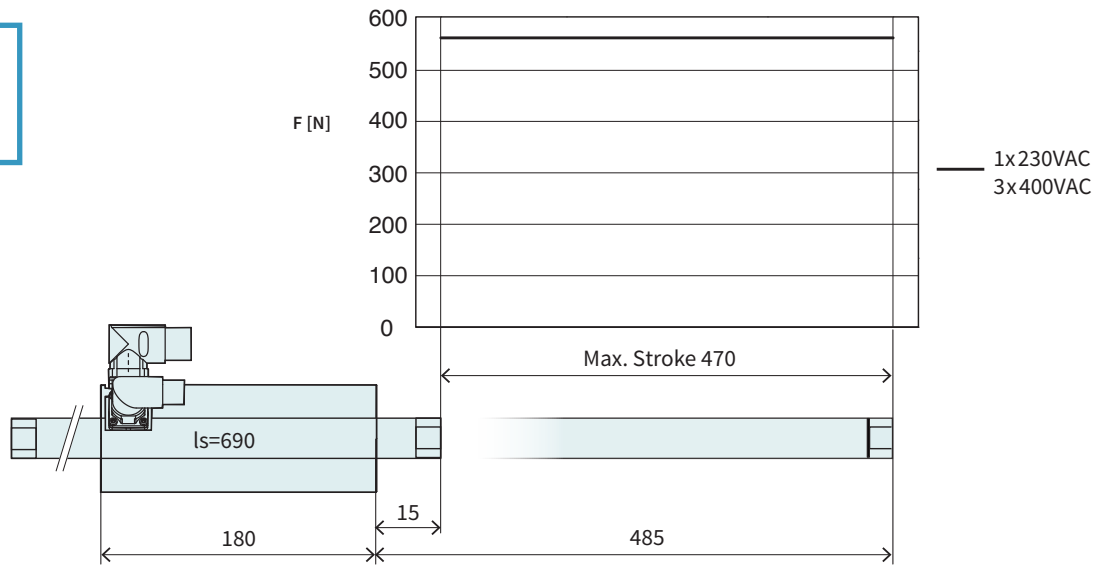
Technical Data P10-70x80U/370			
<b>Stroke</b>			
Max. Stroke	mm (in)		370 (14.59)
<b>Force</b>			
Max. Force @ 1x230VAC	N (lbf)		561 (126)
Max. Force @ 3x400VAC	N (lbf)		561 (126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)		67 / 100 / 180 (15 / 23 / 41)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )		51 (11.5)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )		72.1 (16.2)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)		3.5 (139.9)
Max. Velocity @ 3x400VAC	m/s (in/s)		6.1 (6.1)
<b>Position Detection</b>			
Repeatability	mm (in)		±0.05 (±0.002)
Linearity	%		± 0.25
<b>Electrical Data</b>			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		1.3 / 2 / 3.5
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		0.93 / 1.4 / 2.5
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.6 / 1.1 / 0.36
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 110
<b>Mechanical Data</b>			
Slider Length	mm (in)		590 (23)
Slider Mass	g (lb)		2770 (6.09)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x590/540</b>	Slider for P10-70 'standard'	<a href="#">0150-2196</a>

**P10-70x80U/470-BL-QJ**

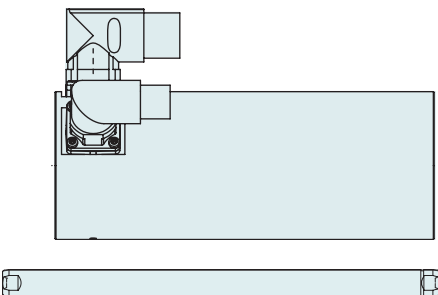
**Max. Stroke:** 470 mm  
**Peak Force:** 561 N



Dimensions in mm

Technical Data P10-70x80U/470

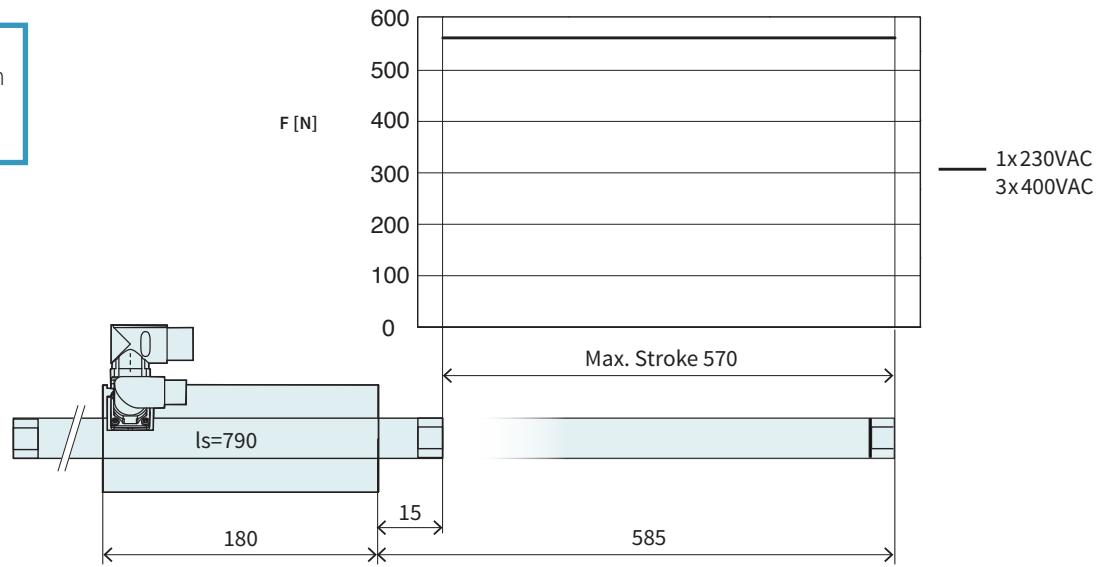
Stroke				
Max. Stroke	mm	(in)	470	(18.49)
Force				
Max. Force @ 1x230VAC	N	(lbf)	561	(126)
Max. Force @ 3x400VAC	N	(lbf)	561	(126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	67 / 100 / 180	(15 / 23 / 41)
Max. Border Force relative	%		100	
Force Constant 1	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	51	(11.5)
Force Constant 2	N/A <sub>rms</sub>	(lbf/A <sub>rms</sub> )	72.1	(16.2)
Velocity				
Max. Velocity @ 1x230VAC	m/s	(in/s)	3.5	(139.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	6.1	(6.1)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.2	
Electrical Data				
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		0.93 / 1.4 / 2.5	
Thermal Data				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 110	
Mechanical Data				
Slider Length	mm	(in)	690	(27)
Slider Mass	g	(lb)	3240	(7.13)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x690/640</b>	Slider for P10-70 'standard'	<a href="#">0150-2197</a>

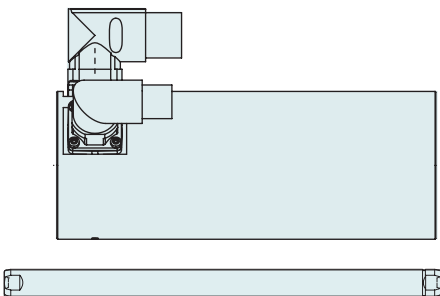
**P10-70x80U/570-BL-QJ**

**Max. Stroke:** 570 mm  
**Peak Force:** 561 N



Dimensions in mm

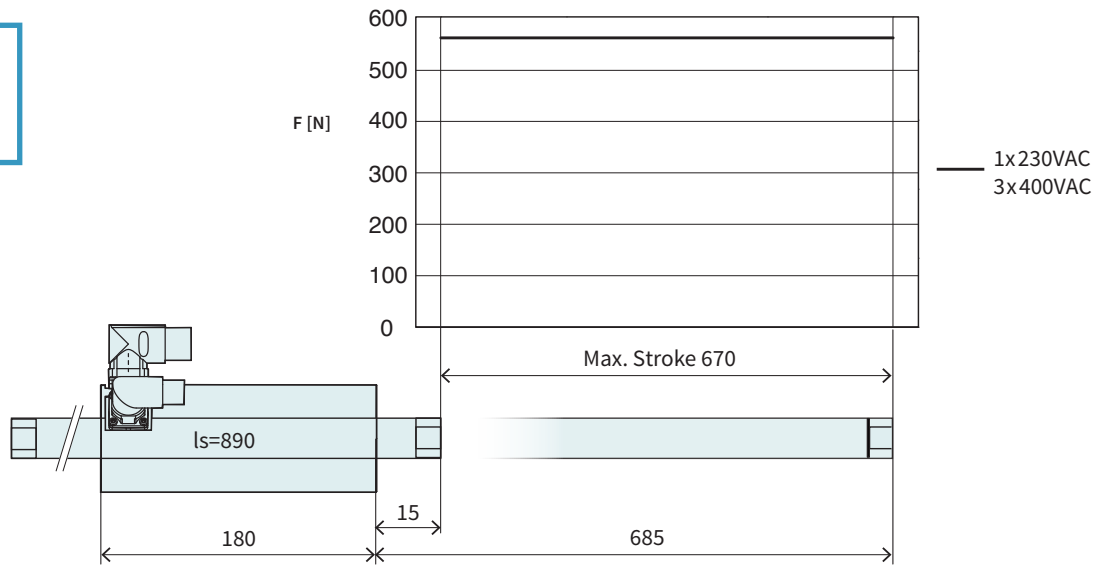
Technical Data P10-70x80U/570			
<b>Stroke</b>			
Max. Stroke	mm (in)	570	(22.39)
<b>Force</b>			
Max. Force @ 1x230VAC	N (lbf)	561	(126)
Max. Force @ 3x400VAC	N (lbf)	561	(126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	67 / 100 / 180	(15 / 23 / 41)
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	51	(11.5)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	72.1	(16.2)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	3.5	(139.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	6.1	(6.1)
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.2	
<b>Electrical Data</b>			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	0.93 / 1.4 / 2.5	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 110	
<b>Mechanical Data</b>			
Slider Length	mm (in)	790	(31)
Slider Mass	g (lb)	3710	(8.16)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x790/740</b>	Slider for P10-70 'standard'	<a href="#">0150-2198</a>

**P10-70x80U/670-BL-QJ**

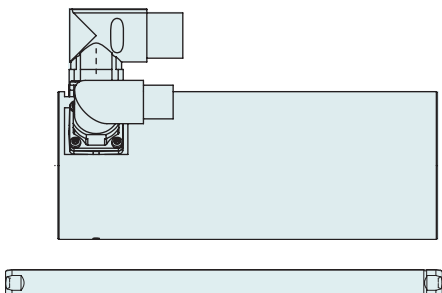
**Max. Stroke:** 670 mm  
**Peak Force:** 561 N



Dimensions in mm

Technical Data P10-70x80U/670

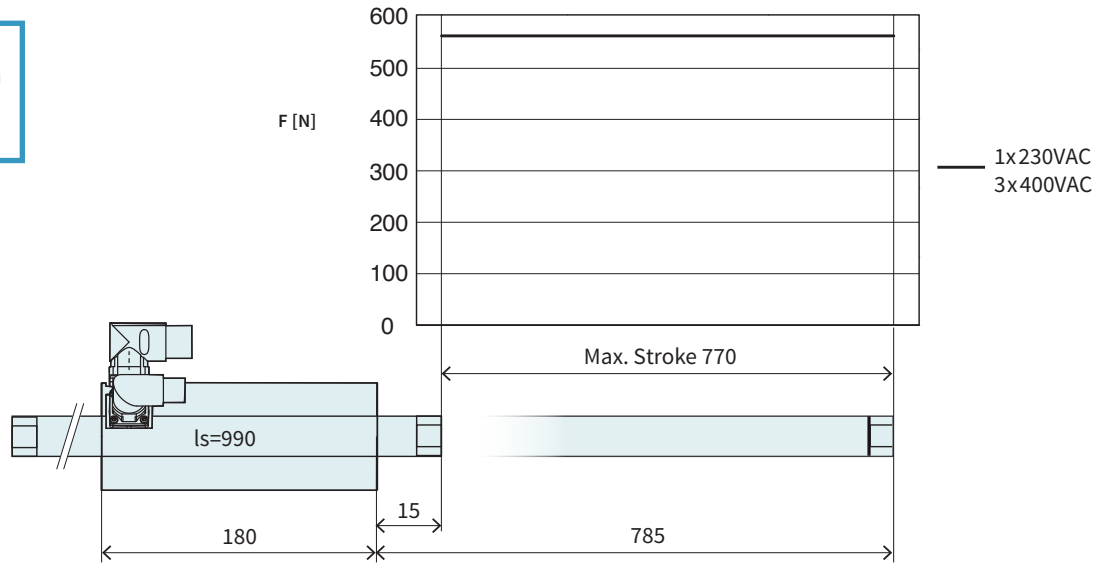
Stroke			
Max. Stroke	mm (in)	670	(26.39)
Force			
Max. Force @ 1x230VAC	N (lbf)	561	(126)
Max. Force @ 3x400VAC	N (lbf)	561	(126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	67 / 100 / 180	(15 / 23 / 41)
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	51	(11.5)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	72.1	(16.2)
Velocity			
Max. Velocity @ 1x230VAC	m/s (in/s)	3.5	(139.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	6.1	(6.1)
Position Detection			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
Electrical Data			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	0.93 / 1.4 / 2.5	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 110	
Mechanical Data			
Slider Length	mm (in)	890	(35)
Slider Mass	g (lb)	4180	(9.2)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x890/840</b>	Slider for P10-70 'standard'	<a href="#">0150-2199</a>

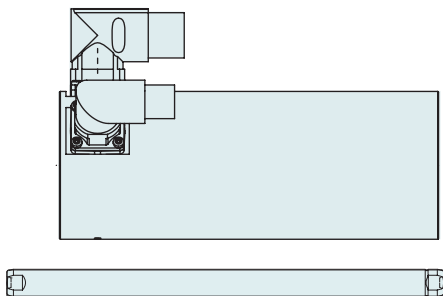
**P10-70x80U/770-BL-QJ**

**Max. Stroke:** 770 mm  
**Peak Force:** 561 N



Dimensions in mm

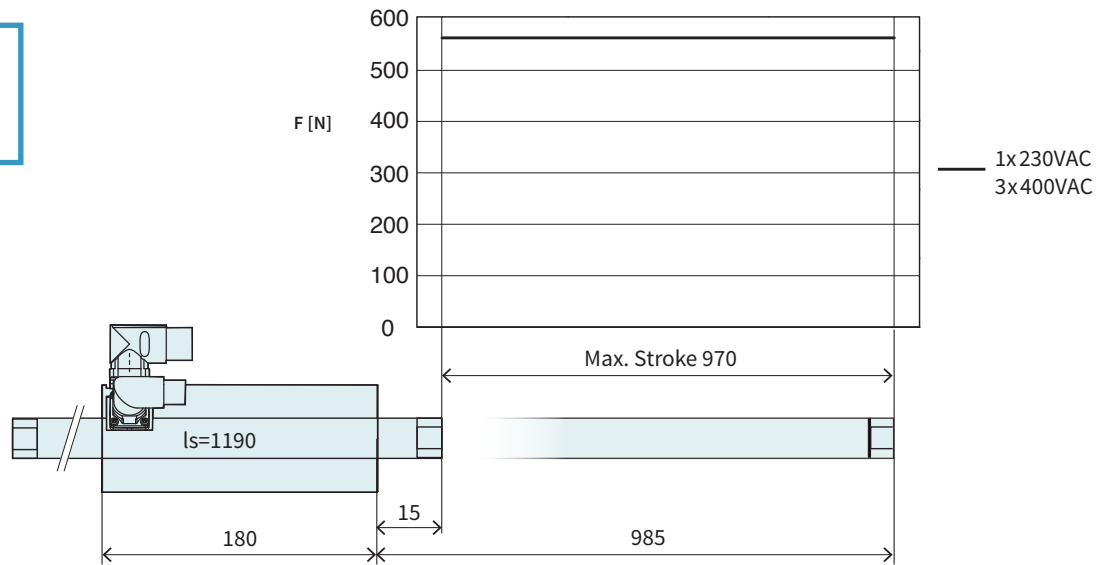
Technical Data P10-70x80U/770				
<b>Stroke</b>				
Max. Stroke	mm	(in)	770	(30.3)
<b>Force</b>				
Max. Force @ 1x230VAC	N	(lbf)	561	(126)
Max. Force @ 3x400VAC	N	(lbf)	561	(126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	67 / 100 / 180	(15 / 23 / 41)
Max. Border Force relative	%		100	
Force Constant 1	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	51	(11.5)
Force Constant 2	N/A <sub>rms</sub>	(lbf/A <sub>rms</sub> )	72.1	(16.2)
<b>Velocity</b>				
Max. Velocity @ 1x230VAC	m/s	(in/s)	3.5	(139.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	6.1	(6.1)
<b>Position Detection</b>				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		±0.15	
<b>Electrical Data</b>				
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		0.93 / 1.4 / 2.5	
<b>Thermal Data</b>				
Max. Winding Temperature (Sensor)	°C		90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 110	
<b>Mechanical Data</b>				
Slider Length	mm	(in)	990	(39)
Slider Mass	g	(lb)	4650	(10.23)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x990/940</b>	Slider for P10-70 'standard'	<a href="#">0150-2203</a>

**P10-70x80U/970-BL-QJ**

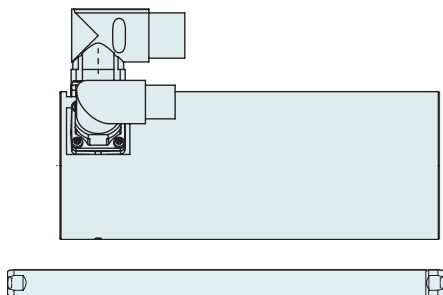
**Max. Stroke:** 970 mm  
**Peak Force:** 561 N



Dimensions in mm

Technical Data P10-70x80U/970

Stroke			
Max. Stroke	mm	(in)	970 (38.2)
Force			
Max. Force @ 1x230VAC	N	(lbf)	561 (126)
Max. Force @ 3x400VAC	N	(lbf)	561 (126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	67 / 100 / 180 (15 / 23 / 41)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	51 (11.5)
Force Constant 2	N/A <sub>rms</sub>	(lbf/A <sub>rms</sub> )	72.1 (16.2)
Velocity			
Max. Velocity @ 1x230VAC	m/s	(in/s)	3.5 (139.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	6.1 (6.1)
Position Detection			
Repeatability	mm	(in)	±0.05 (±0.002)
Linearity	%		± 0.15
Electrical Data			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>		10.9 / 7.7
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>		1.3 / 2 / 3.5
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>		0.93 / 1.4 / 2.5
Thermal Data			
Max. Winding Temperature (Sensor)	°C		90
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		2.6 / 1.1 / 0.36
Thermal Time Constant [Passive cooling / Fan / Fluid]	s		2100 / 500 / 110
Mechanical Data			
Slider Length	mm	(in)	1190 (47)
Slider Mass	g	(lb)	5590 (12.3)

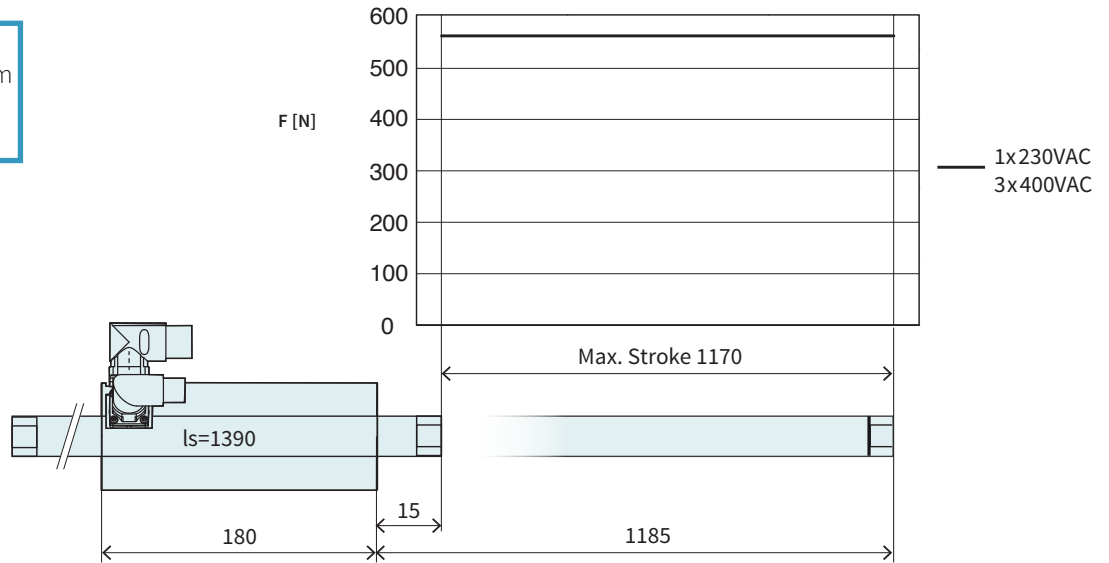


Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x1190/1140</b>	Slider for P10-70 'standard'	<a href="#">0150-2204</a>



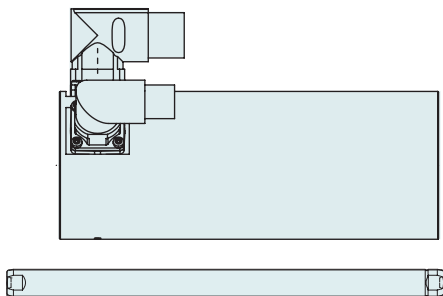
**P10-70x80U/1170-BL-QJ**

**Max. Stroke:** 1170 mm  
**Peak Force:** 561 N



Dimensions in mm

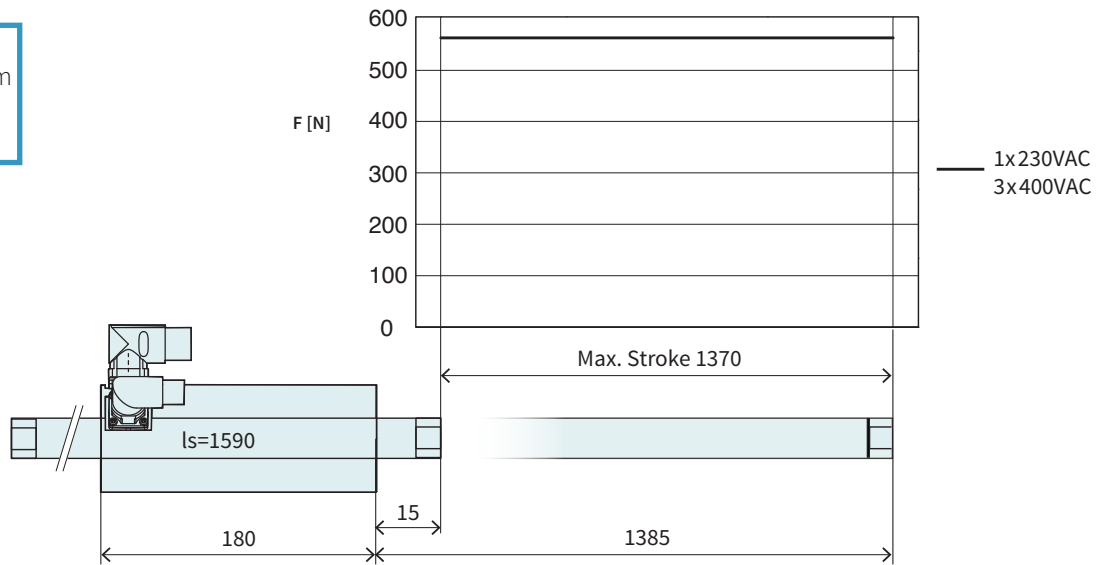
Technical Data P10-70x80U/1170			
<b>Stroke</b>			
Max. Stroke	mm (in)	1170	(46.1)
<b>Force</b>			
Max. Force @ 1x230VAC	N (lbf)	561	(126)
Max. Force @ 3x400VAC	N (lbf)	561	(126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	67 / 100 / 180	(15 / 23 / 41)
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	51	(11.5)
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	72.1	(16.2)
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	3.5	(139.9)
Max. Velocity @ 3x400VAC	m/s (in/s)	6.1	(6.1)
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	± 0.15	
<b>Electrical Data</b>			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	0.93 / 1.4 / 2.5	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 110	
<b>Mechanical Data</b>			
Slider Length	mm (in)	1390	(55)
Slider Mass	g (lb)	6530	(14.37)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x1390/1340</b>	Slider for P10-70 'standard'	<a href="#">0150-2205</a>

**P10-70x80U/1370-BL-QJ**

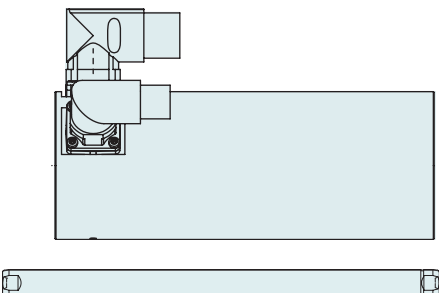
**Max. Stroke:** 1370 mm  
**Peak Force:** 561 N



Dimensions in mm

**Technical Data P10-70x80U/1370**

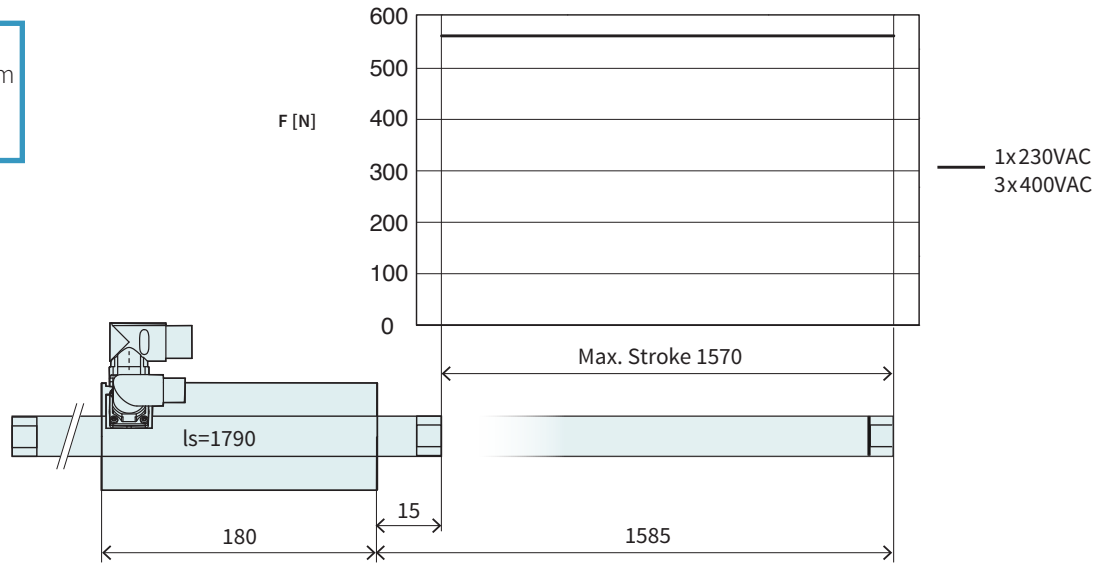
Stroke			
Max. Stroke	mm	(in)	1370 (53.89)
Force			
Max. Force @ 1x230VAC	N	(lbf)	561 (126)
Max. Force @ 3x400VAC	N	(lbf)	561 (126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	67 / 100 / 180 (15 / 23 / 41)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	51 (11.5)
Force Constant 2	N/A <sub>rms</sub>	(lbf/A <sub>rms</sub> )	72.1 (16.2)
Velocity			
Max. Velocity @ 1x230VAC	m/s	(in/s)	3.5 (139.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	6.1 (6.1)
Position Detection			
Repeatability	mm	(in)	±0.05 (±0.002)
Linearity	%		± 0.15
Electrical Data			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	0.93 / 1.4 / 2.5	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 110	
Mechanical Data			
Slider Length	mm	(in)	1590 (63)
Slider Mass	g	(lb)	7470 (16.43)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x1590/1540</b>	Slider for P10-70 'standard'	<a href="#">0150-2206</a>

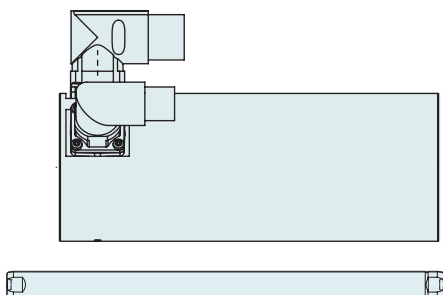
**P10-70x80U/1570-BL-QJ**

**Max. Stroke:** 1570 mm  
**Peak Force:** 561 N



Dimensions in mm

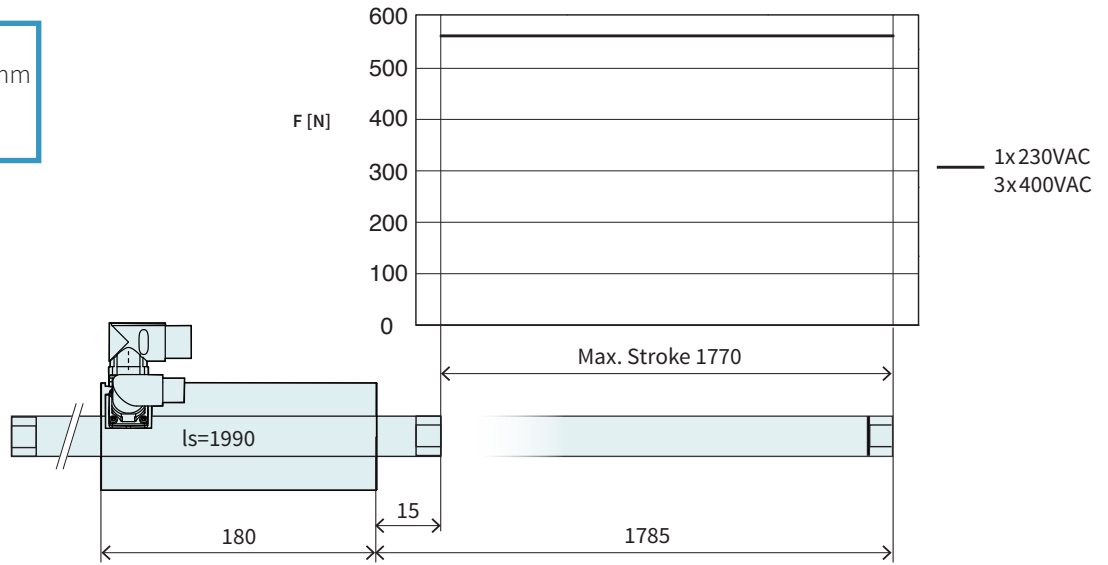
Technical Data P10-70x80U/1570			
<b>Stroke</b>			
Max. Stroke	mm (in)	1570 (61.79)	
<b>Force</b>			
Max. Force @ 1x230VAC	N (lbf)	561 (126)	
Max. Force @ 3x400VAC	N (lbf)	561 (126)	
Max. Cont. Force [Passive cooling / Fan / Fluid]	N (lbf)	67 / 100 / 180 (15 / 23 / 41)	
Max. Border Force relative	%	100	
Force Constant 1	N/A <sub>pk</sub> (lbf/A <sub>pk</sub> )	51 (11.5)	
Force Constant 2	N/A <sub>rms</sub> (lbf/A <sub>rms</sub> )	72.1 (16.2)	
<b>Velocity</b>			
Max. Velocity @ 1x230VAC	m/s (in/s)	3.5 (139.9)	
Max. Velocity @ 3x400VAC	m/s (in/s)	6.1 (6.1)	
<b>Position Detection</b>			
Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	± 0.15	
<b>Electrical Data</b>			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	0.93 / 1.4 / 2.5	
<b>Thermal Data</b>			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 110	
<b>Mechanical Data</b>			
Slider Length	mm (in)	1790 (70)	
Slider Mass	g (lb)	8413 (18.51)	



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x1790/1740</b>	Slider for P10-70 'standard'	<a href="#">0150-2207</a>

**P10-70x80U/1770-BL-QJ**

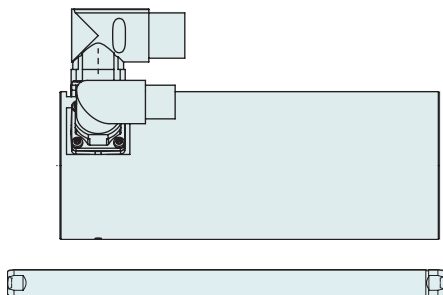
**Max. Stroke:** 1770 mm  
**Peak Force:** 561 N



Dimensions in mm

**Technical Data P10-70x80U/1770**

Stroke			
Max. Stroke	mm	(in)	1770 (69.7)
Force			
Max. Force @ 1x230VAC	N	(lbf)	561 (126)
Max. Force @ 3x400VAC	N	(lbf)	561 (126)
Max. Cont. Force [Passive cooling / Fan / Fluid]	N	(lbf)	67 / 100 / 180 (15 / 23 / 41)
Max. Border Force relative	%		100
Force Constant 1	N/A <sub>pk</sub>	(lbf/A <sub>pk</sub> )	51 (11.5)
Force Constant 2	N/A <sub>rms</sub>	(lbf/A <sub>rms</sub> )	72.1 (16.2)
Velocity			
Max. Velocity @ 1x230VAC	m/s	(in/s)	3.5 (139.9)
Max. Velocity @ 3x400VAC	m/s	(in/s)	6.1 (6.1)
Position Detection			
Repeatability	mm	(in)	±0.05 (±0.002)
Linearity	%		± 0.15
Electrical Data			
Max. Current @ 1x230VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Current @ 3x400VAC	A <sub>pk</sub> / A <sub>rms</sub>	10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling / Fan / Fluid]	A <sub>pk</sub>	1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling / Fan / Fluid]	A <sub>rms</sub>	0.93 / 1.4 / 2.5	
Thermal Data			
Max. Winding Temperature (Sensor)	°C	90	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W	2.6 / 1.1 / 0.36	
Thermal Time Constant [Passive cooling / Fan / Fluid]	s	2100 / 500 / 110	
Mechanical Data			
Slider Length	mm	(in)	1990 (78)
Slider Mass	g	(lb)	9350 (20.57)



Item	Description	Item-No.
<b>PS10-70x80U-BL-QJ</b>	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
<b>PS10-70x80U-BL-QJ-D01</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
<b>PS10-70x80U-BL-QJ-D02</b>	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
<b>PS10-70x80U-BL-QJ-D03</b>	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
<b>PL10-28x1990/1940</b>	Slider for P10-70 'standard'	<a href="#">0150-2208</a>

**Linear Guides H10**



**HM10-70x80/70 | Linear Module 70x80 with 70 mm Stroke**

→	H-Guide	H10-70x80/70	H-Guide for P10-70x80, Stroke max. 70 mm	<a href="#">0150-5404</a>
	Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
		PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
		PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
		PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
Slider	PL10-28x290/240	Slider for P10-70 'standard'	<a href="#">0150-2193</a>	

**HM10-70x80/170 | Linear Module 70x80 with 170 mm Stroke**

→	H-Guide	H10-70x80/170	H-Guide for P10-70x80, Stroke max. 170 mm	<a href="#">0150-5405</a>
	Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
		PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
		PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
		PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
Slider	PL10-28x390/340	Slider for P10-70 'standard'	<a href="#">0150-2194</a>	

**HM10-70x80/270 | Linear Module 70x80 with 270 mm Stroke**

→	H-Guide	H10-70x80/270	H-Guide for P10-70x80, Stroke max. 270 mm	<a href="#">0150-5406</a>
	Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
		PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
		PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
		PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
Slider	PL10-28x590/540	Slider for P10-70 'standard'	<a href="#">0150-2196</a>	

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

4

**HM10-70x80/370** | Linear Module 70x80 with 370 mm Stroke

→	H-Guide	H10-70x80/370	H-Guide for P10-70x80, Stroke max. 370 mm	<a href="#">0150-5407</a>	
	→	Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
			PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
			PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
			PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
→	Slider	PL10-28x490/440	Slider for P10-70 'standard'	<a href="#">0150-2195</a>	

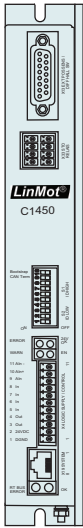
**HM10-70x80/470** | Linear Module 70x80 with 470 mm Stroke

→	H-Guide	H10-70x80/470	H-Guide for P10-70x80, Stroke max. 470 mm	<a href="#">0150-5408</a>	
	→	Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	<a href="#">0150-1291</a>
			PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	<a href="#">0150-2282</a>
			PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	<a href="#">0150-2360</a>
			PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	<a href="#">0150-2708</a>
→	Slider	PL10-28x690/640	Slider for P10-70 'standard'	<a href="#">0150-2196</a>	

**Accessories**

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

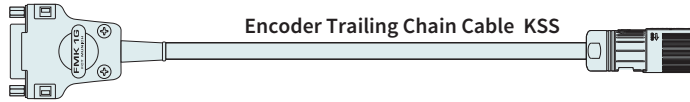
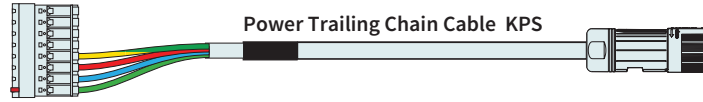


**C1400**



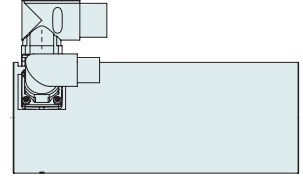
**E1400**

**B** Connector MC10-B/m



**D15** Connector MC01-D15/f

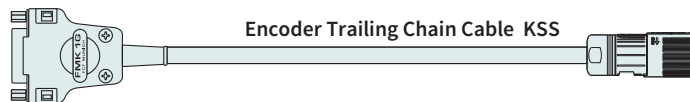
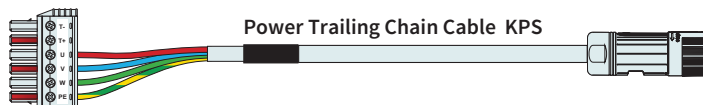
**Q** Connector MC10-Q/f



**P10-70x80U**

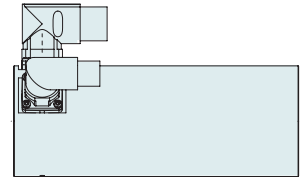
**J** Connector MC10-J/f

**L** Connector MC10-L/m



**D15** Connector MC01-D15/f

**Q** Connector MC10-Q/f



**P10-70x80U**

**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>

<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>PF10-70x110</b>	Flange for PS10-70x80	<a href="#">0150-2272</a>



Item	Description	Item-No.
<b>PF10-70x110-FC</b>	Flange for PS10-70x80 fluid cooling	<a href="#">0150-2291</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>PB10-70x80-L</b>	Bearing Kit for PS10-70x80	<a href="#">0150-3431</a>

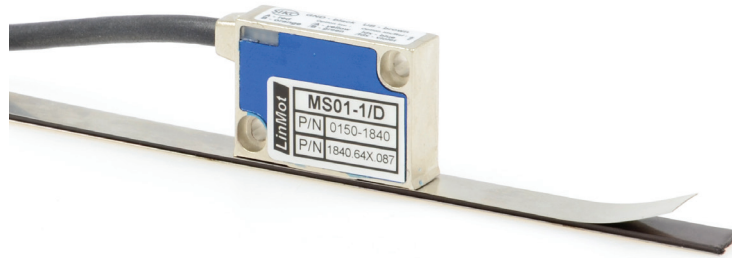
FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

**LUBRICANT RESERVOIR**



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

**EXTERNAL POSITION SENSORS**



Item	Description	Item-No.
<b>MS01-1/D</b>	Linear Encoder 1µm, A/B (for incremental strip)	<a href="#">0150-1840</a>
<b>MB01-1000</b>	Magnetic incremental strip for MS01-1/D, per cm	<a href="#">0150-1963</a>
<b>KS025-D15/D-Encoder</b>	Encoder Cable (Length in m)	<a href="#">0150-3168</a>

**FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".**



Item	Description	Item-No.
<b>MS01-1/D-SSI</b>	Linear Encoder 1µm, A/B (for absolute strip)	<a href="#">0150-2095</a>
<b>MB01-1000-ABS</b>	Magnetic absolute strip for MS01-1/D-SSI (per cm)	<a href="#">0150-2096</a>
<b>EC01-ABS/ENC-12-S</b>	MS01-1/D-SSI Encoder connector straight	<a href="#">0150-3616</a>
<b>KSS01-12-D15/ABS-ENC</b>	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".**