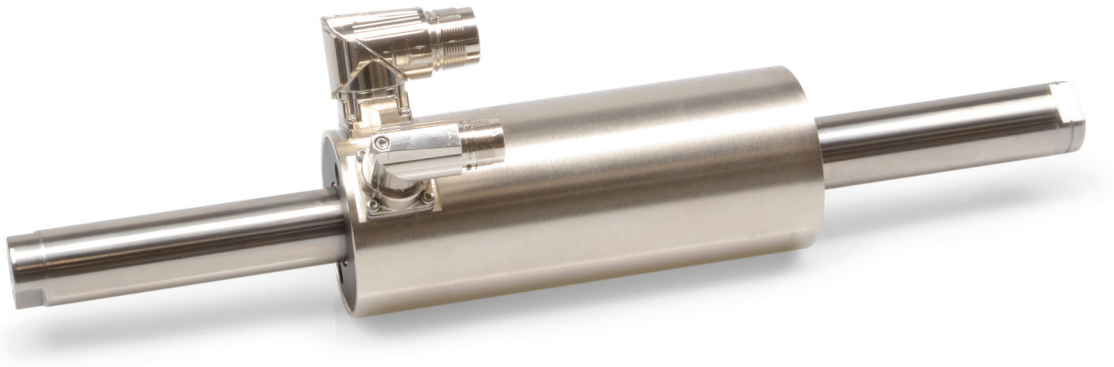
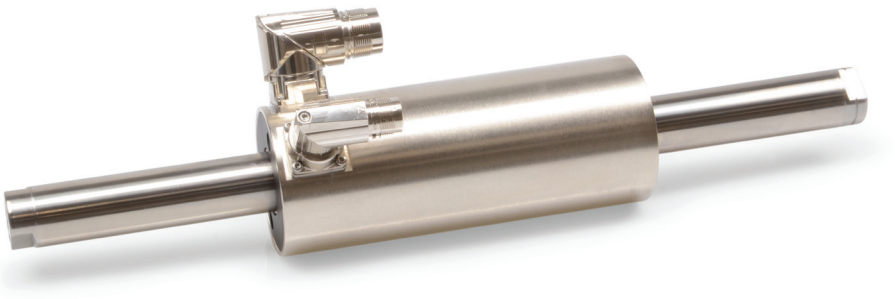
LINEAR MOTORS P10-70X80U



- 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

4

LINEAR MOTORS P10-70x80U

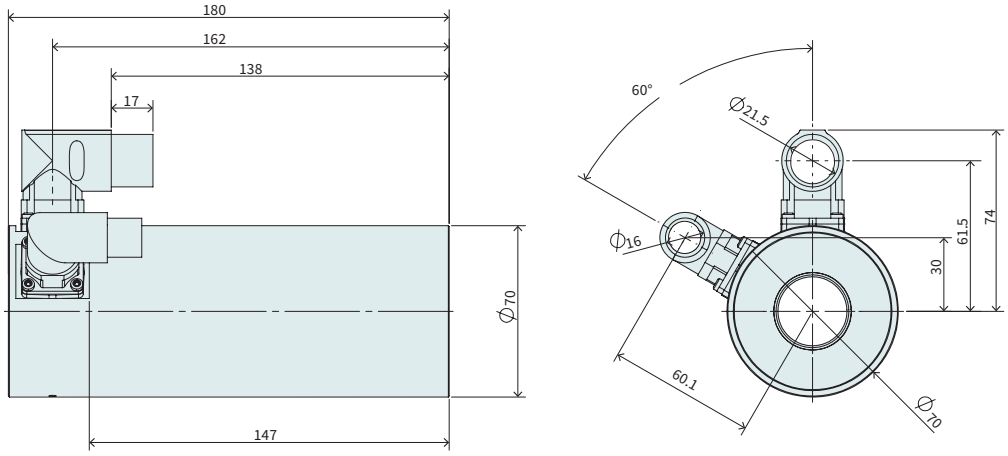


MOTOR FAMILY P10-70x80U

Technical Data				
Stroke				
Max. Stroke (ES)	mm	(in)	1770	(69.7)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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	(249.9)
Position Detection				
Position Resolution	mm	(in)	0.005	(0.0002)
Repeatability	mm	(in)	±0.05	(±0.002)
Position Resolution with ES	mm	(in)	0.001	(0.00004)
Repeatability with ES	mm	(in)	±0.01	(±0.0004)
Linearity with ES	mm	(in)	±0.01	(±0.0004)
Electrical Data				
Max. Current[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		0.93 / 1.4 / 2.5	
Back EMF Constant	V_{pk} / (m/s)	(V_{pk} / (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)
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				
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	
Certification				
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

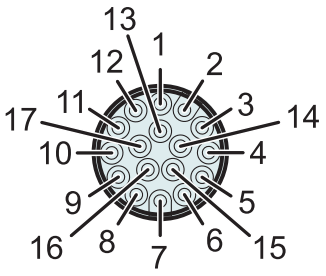


Item	Description	Item-No.	Comment
PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	0150-1291	For use with LinMot Drives
PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	0150-2282	For use with 3rd Party Drives
PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	0150-2360	For use with 3rd Party Drives
PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	0150-2708	For use with 3rd Party Drives

CONNECTOR PS10-70x80U-BL-QJ (INTERFACE FOR LINMOT DRIVES)

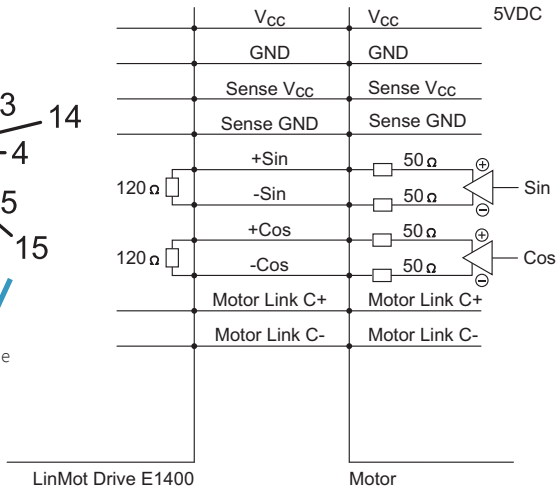
Motor Connector Wiring		Connector Encoder J	Wire Color Motor Cable
+5VDC*	Supply	1	red
GND	Supply	2	black
Sense +5V*	Supply Sense	3	white
Sense GND*	Supply Sense	4	brown
Mot. Link C+	Communication	5	pink
Mot. Link C-	Communication	6	grey
Sin+	Encoder	7	yellow
Sin-	Encoder	8	orange
Cos+	Encoder	9	green
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.

* 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.

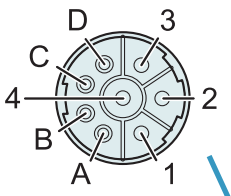


Connector Encoder J

View: Motor connector, plug side

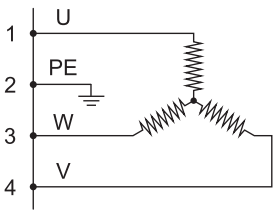


Motor Steckerbelegung	Connector Power Q	Wire Color Motor Cable
Phase U	1	red
PE	2	yellow-green
Phase W	3	black (previously: green)
Phase V	4	blue
n. c.	A	n. c.
n. c.	B	n. c.
n. c.	C	n. c.
n. c.	D	n. c.

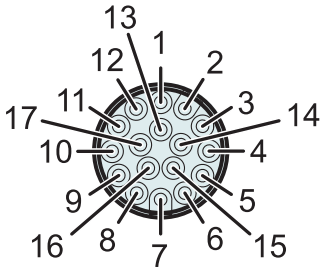


Connector Power Q

View: Motor connector, plug side

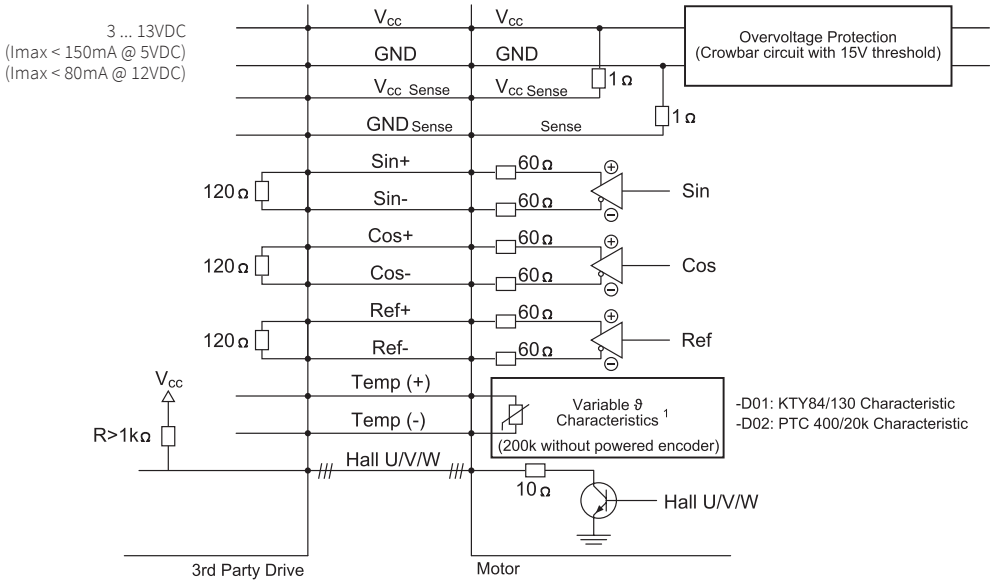


CONNECTOR PS10-70X80U-BL-QJ-D01/02 (INTERFACE FOR 3RD PARTY DRIVES)



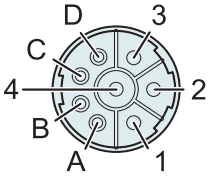
Connector Encoder J

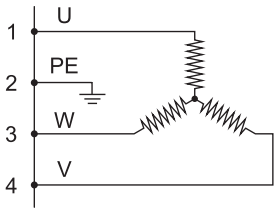
View: Motor connector, plug side



Motor Connector Wiring				
PS10-70x80U-BL-QJ-D01	**PS10-70x80U-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[1]	16	yellow-brown
Temp- (KTY84/130 Char.)	Temp- (PTC 400/20k Char.)	Temperature[1]	17	white-yellow

1) The temperature evaluation circiut 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.



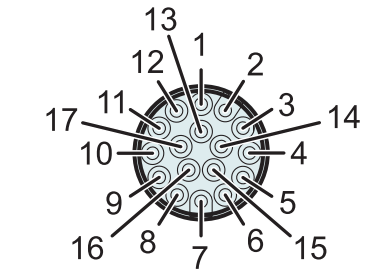


Connector Power Q

View: Motor connector, plug side

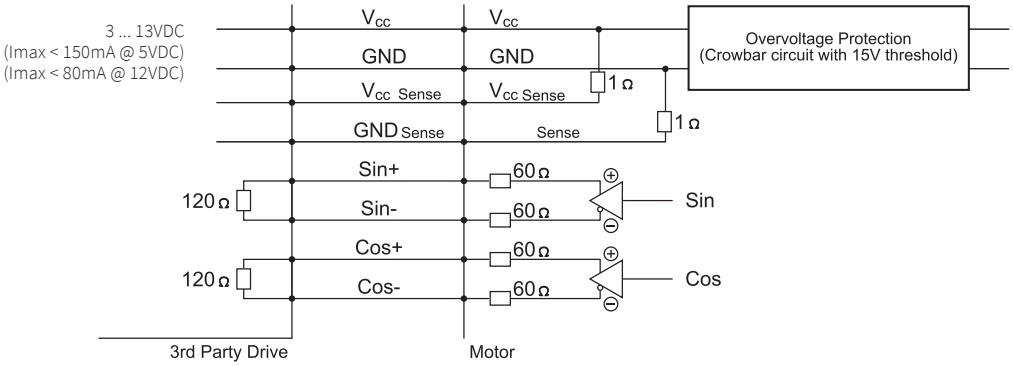
Motor Connector Wiring			
PS10-70x80U-BL-QJ-D01	**PS10-70x80U-BL-QJ-D02**	**Connector Power Q**	**Wire Color Motor Cable**
Phase U	Phase U	1	red
PE	PE	2	yellow-green
Phase W	Phase W	3	black (previously: green)
Phase V	Phase V	4	blue
n. c.	n. c.	A	n. c.
n. c.	n. c.	B	n. c.
n. c.	n. c.	C	n. c.
n. c.	n. c.	D	n. c.

CONNECTOR PS10-70X80U-BL-QJ-D03 (INTERFACE FOR 3RD PARTY DRIVES)

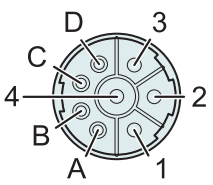


Connector Encoder J

View: Motor connector, plug side

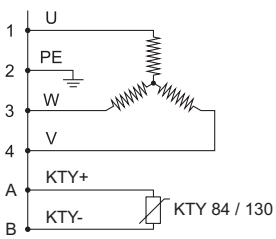


Motor Connector Wiring		Connector Encoder J	Wire Color Motor Cable
3 ... 13 VDC	Supply	1	red
GND	Supply	2	black
Vcc Sense (optional)	Supply Sense	3	white
GND Sense (optional)	Supply Sense	4	brown
Do not connect	–	5	–
Do not connect	–	6	–
Sin+	Encoder 1 Vpp	7	yellow
Sin-	Encoder 1 Vpp	8	orange
Cos+	Encoder 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

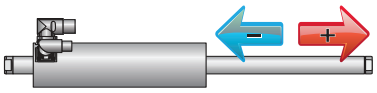
View: Motor connector, plug side



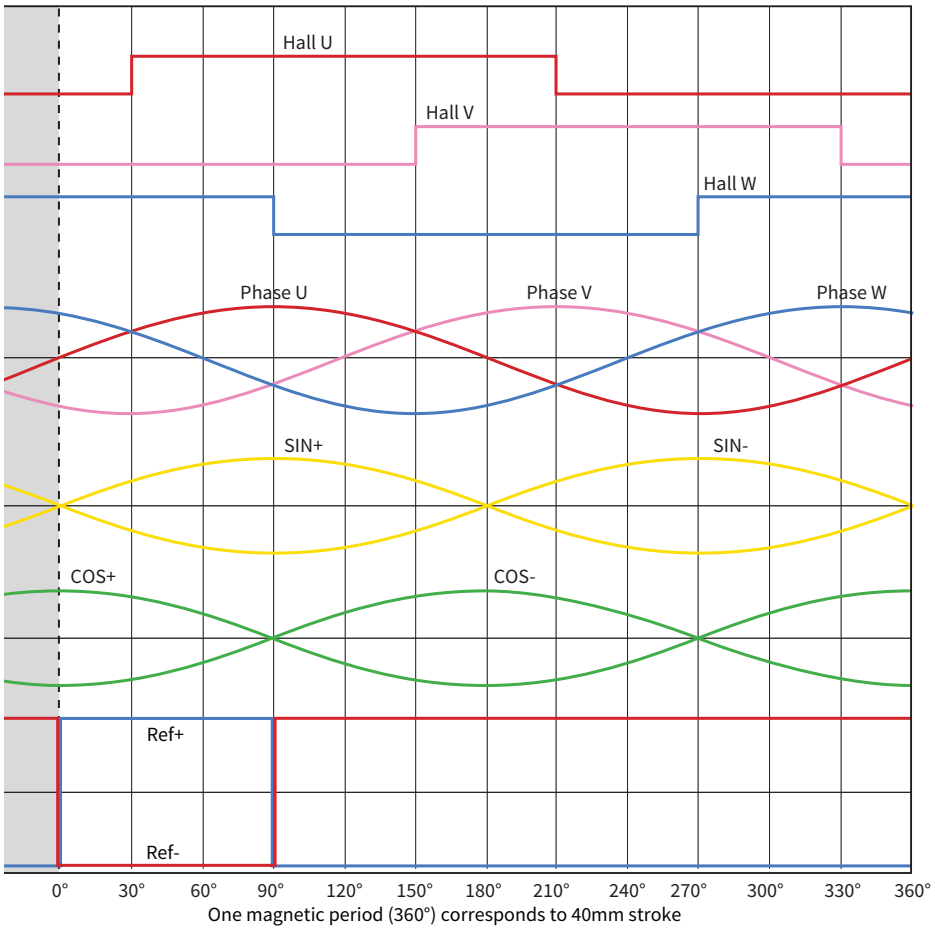
Motor Connector Wiring	Connector Power Q	Wire Color Motor Cable Variant colored (new)	Wire Color Motor Cable Variant black
Phase U	1	red	black 1
PE	2	yellow-green	yellow-green
Phase W	3	black (previously: green)	black 3
Phase V	4	blue	black 2
KTY +	A	purple	black 5
KTY -	B	grey	black 6
n. c.	C	yellow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

D0X 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.



One magnetic period (360°) corresponds to 40mm stroke

		P10-70x...-D0x
Output signal period	mm	40
Signal amplitude[3]	V_{pp}	1
Termination[3]	Ohm	120
Supply votage	Vdc	3...13 (w or w/o sense)
Power consumption	mW	< 1000
		(I < 150mA @ 5VDC, I < 80mA @ 12 VDC)[2]
Position repeatability[1]	µm	±20
Linearity over 1m[1]	%	< ±0.025

1) Dependent on the amplifier. Under constant operating and thermal conditions.
2) Power effeciency 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.

D0X 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 controller must disable the motor in order to protect the motor from overheat damages.

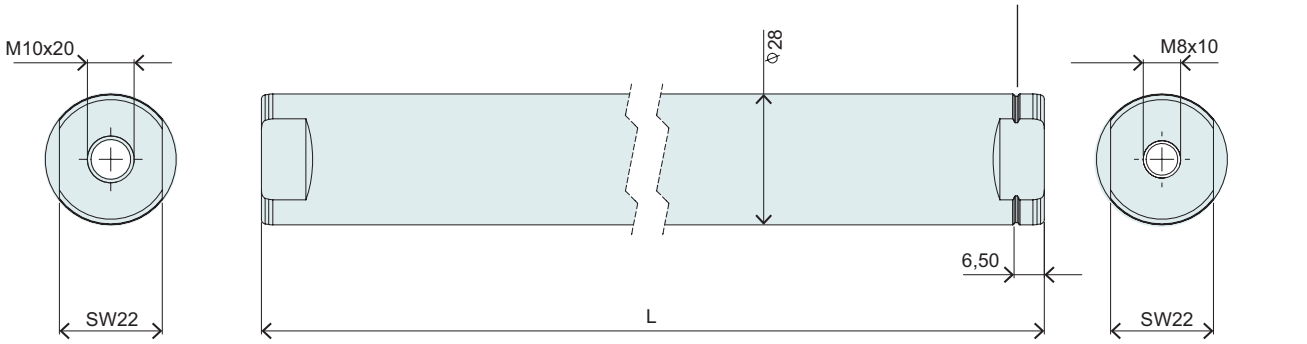
D03

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

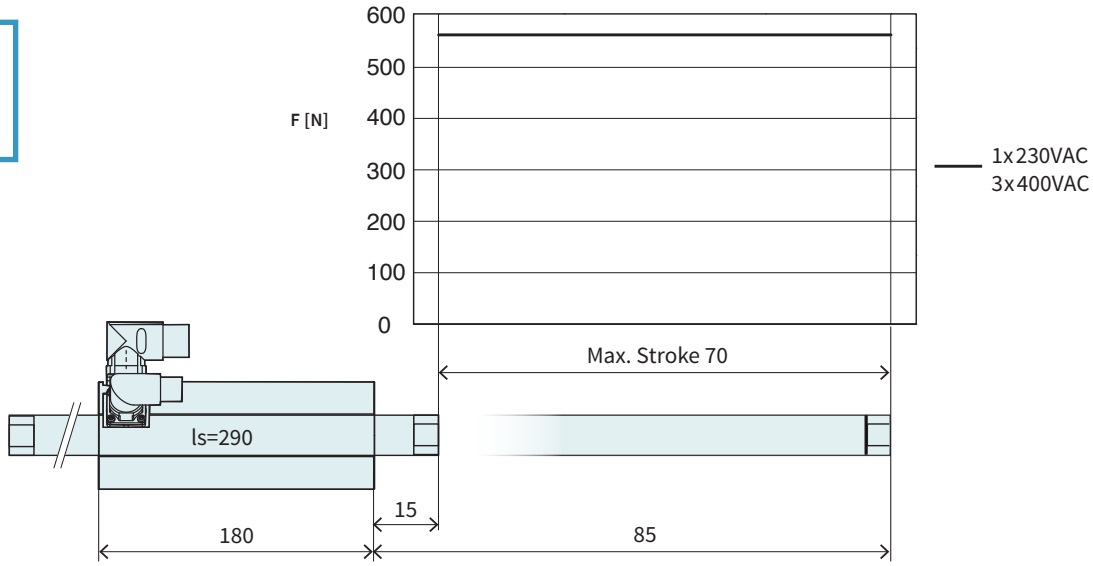
Slider Standard



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

P10-70x80U/70-BL-QJ

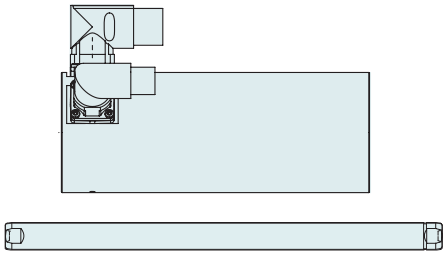
Max. Stroke: 70 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/70				
Stroke				
Max. Stroke	mm	(in)	70	(2.75)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)

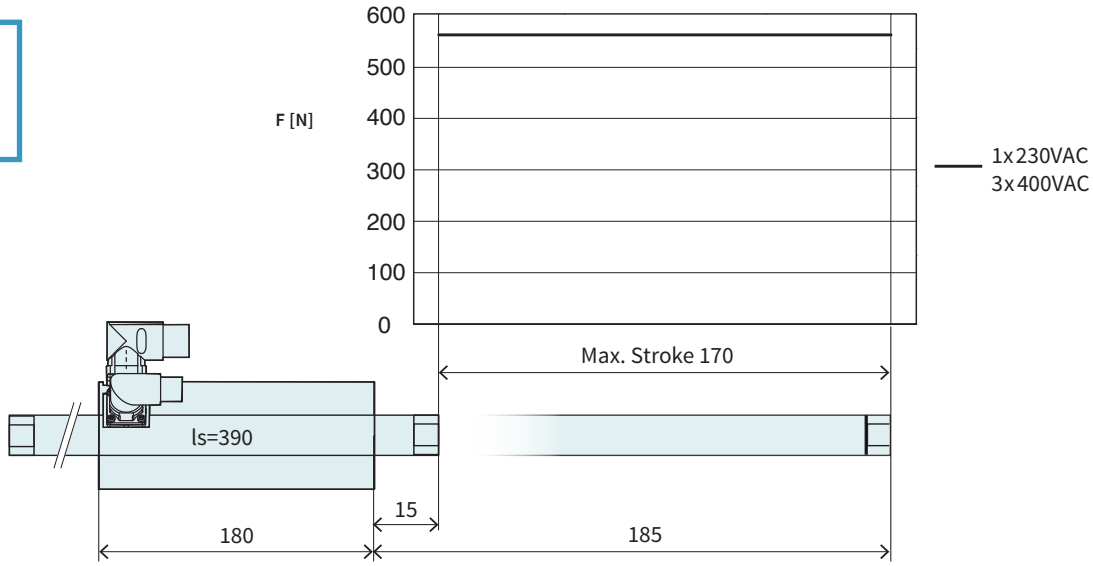
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/170-BL-QJ

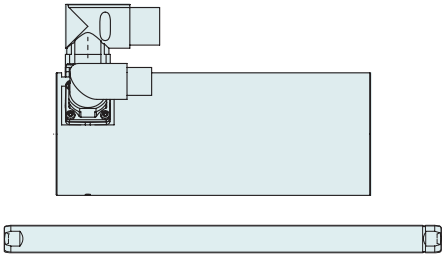
Max. Stroke: 170 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/170				
Stroke				
Max. Stroke	mm	(in)	170	(6.69)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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	%		± 0.4	
Electrical Data				
Max. Current[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)	390	(15)
Slider Mass	g	(lb)	1830	(4.03)

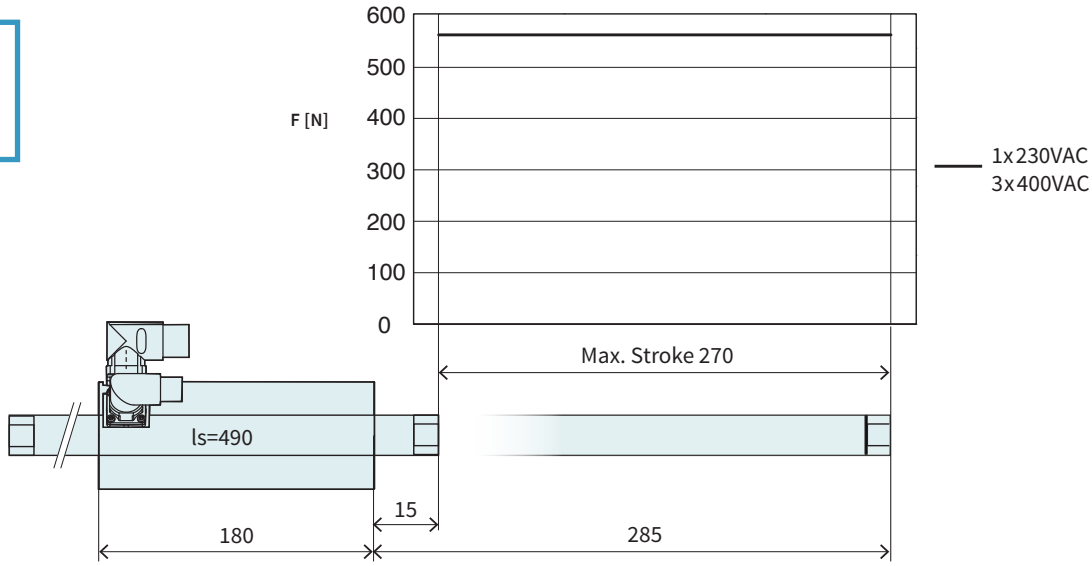
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/270-BL-QJ

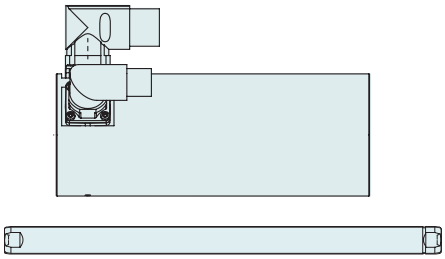
Max. Stroke: 270 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/270				
Stroke				
Max. Stroke	mm	(in)	270	(10.59)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)

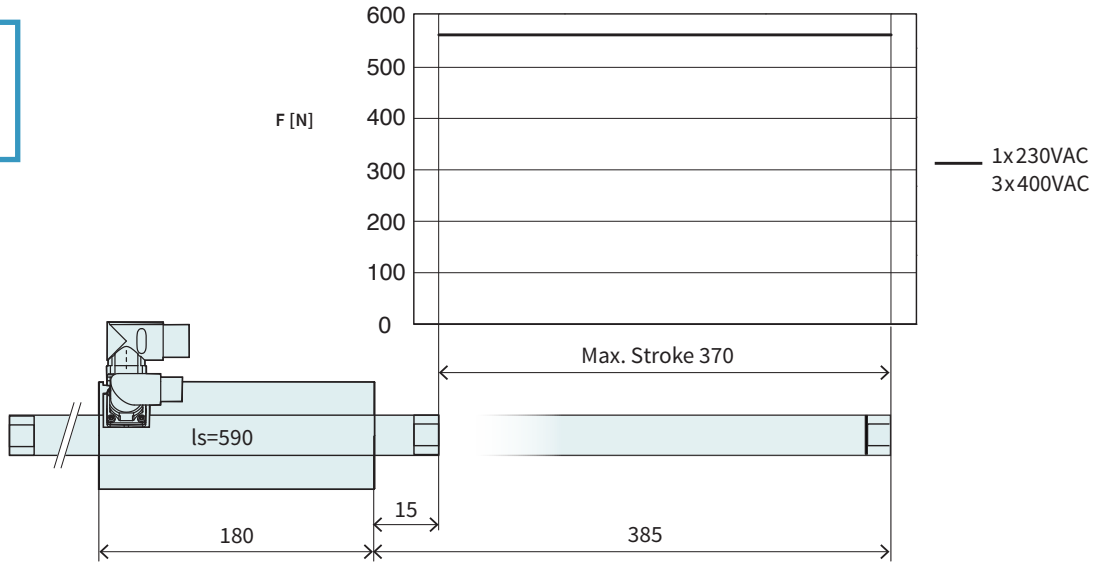
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/370-BL-QJ

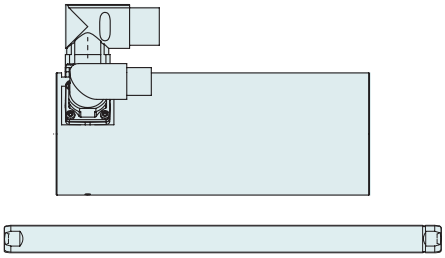
Max. Stroke: 370 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/370				
Stroke				
Max. Stroke	mm	(in)	370	(14.59)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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	%		± 0.25	
Electrical Data				
Max. Current[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)	590	(23)
Slider Mass	g	(lb)	2770	(6.09)

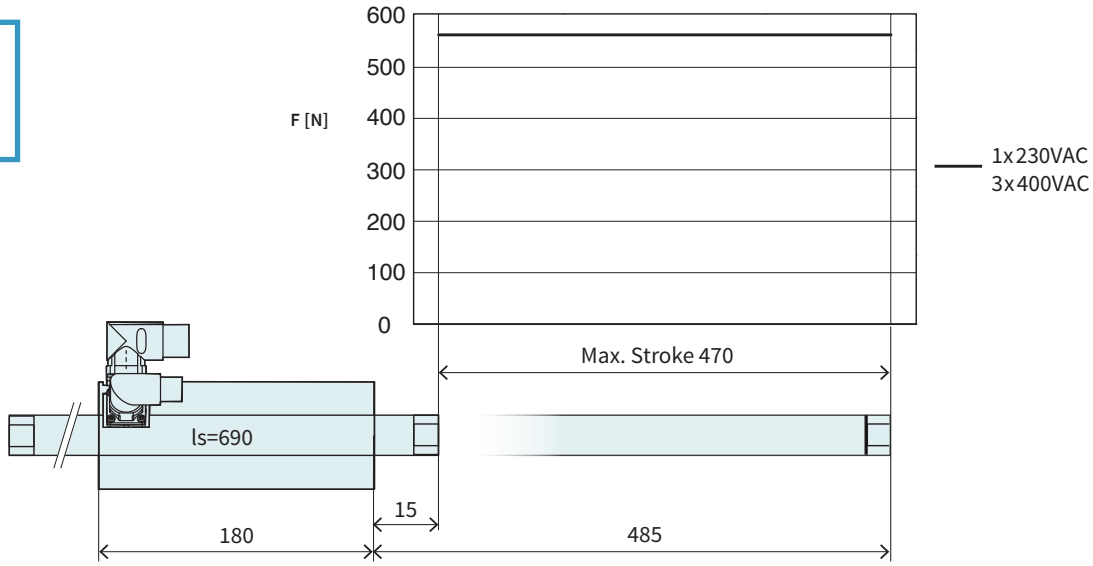
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/470-BL-QJ

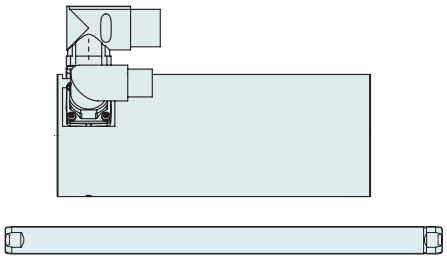
Max. Stroke: 470 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/470				
Stroke				
Max. Stroke	mm	(in)	470	(18.49)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)

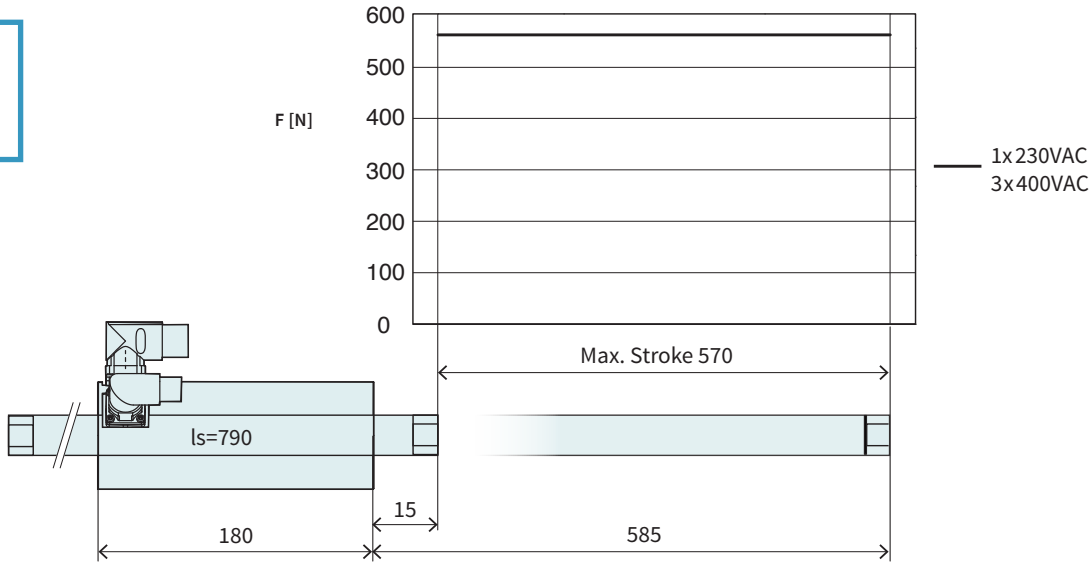
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/570-BL-QJ

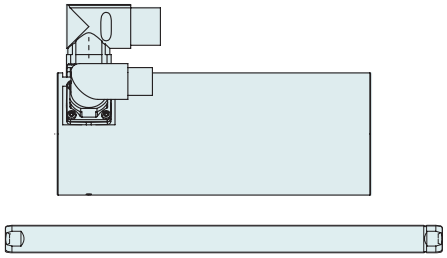
Max. Stroke: 570 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/570				
Stroke				
Max. Stroke	mm	(in)	570	(22.39)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)	790	(31)
Slider Mass	g	(lb)	3710	(8.16)

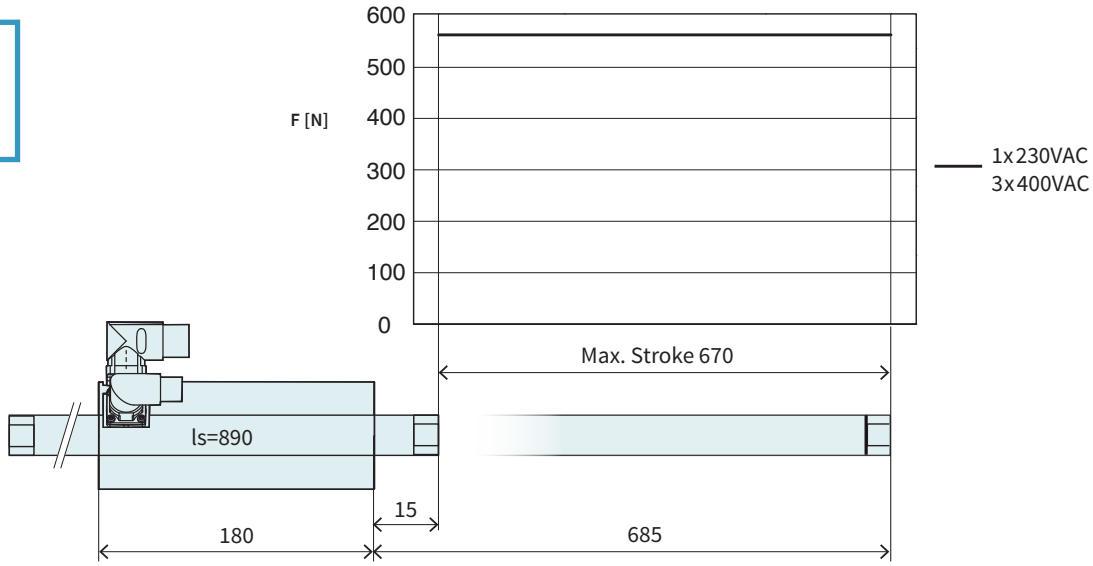
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/670-BL-QJ

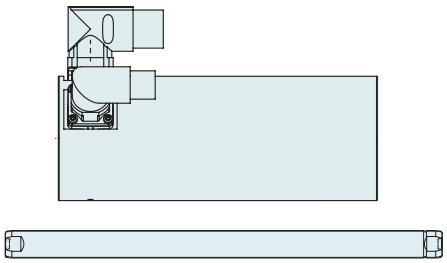
Max. Stroke: 670 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/670				
Stroke				
Max. Stroke	mm	(in)	670	(26.39)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)

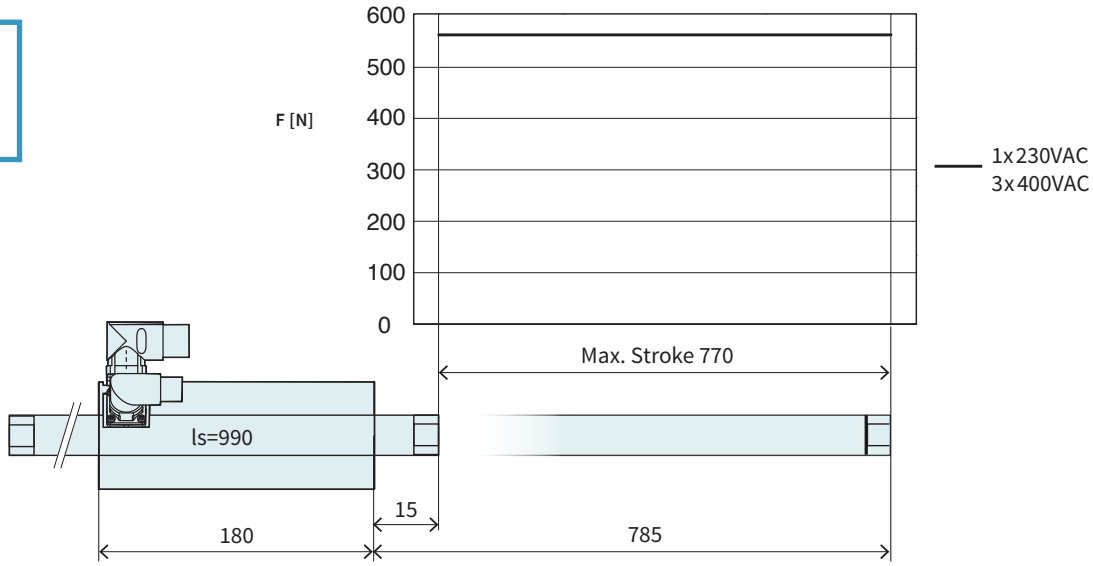
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/770-BL-QJ

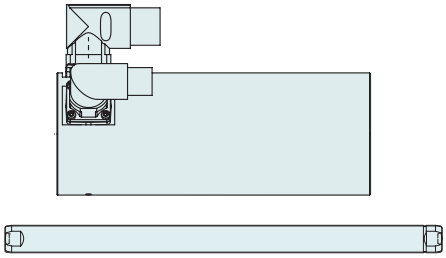
Max. Stroke: 770 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/770				
Stroke				
Max. Stroke	mm	(in)	770	(30.3)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)	990	(39)
Slider Mass	g	(lb)	4650	(10.23)

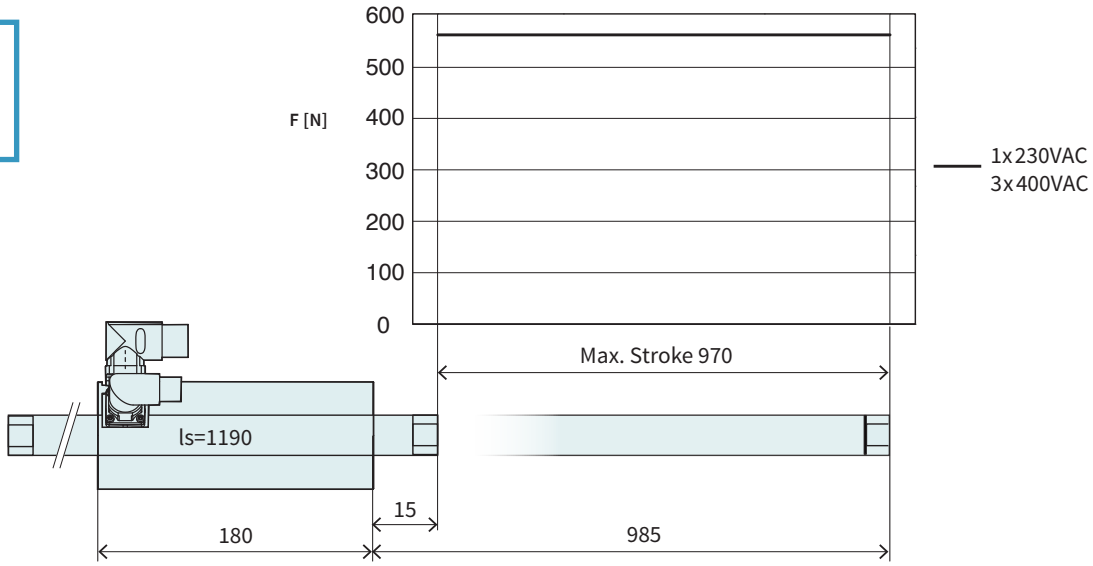
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/970-BL-QJ

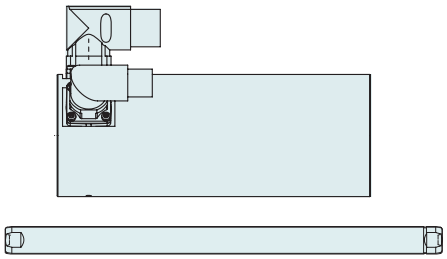
Max. Stroke: 970 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/970				
Stroke				
Max. Stroke	mm	(in)	970	(38.2)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)

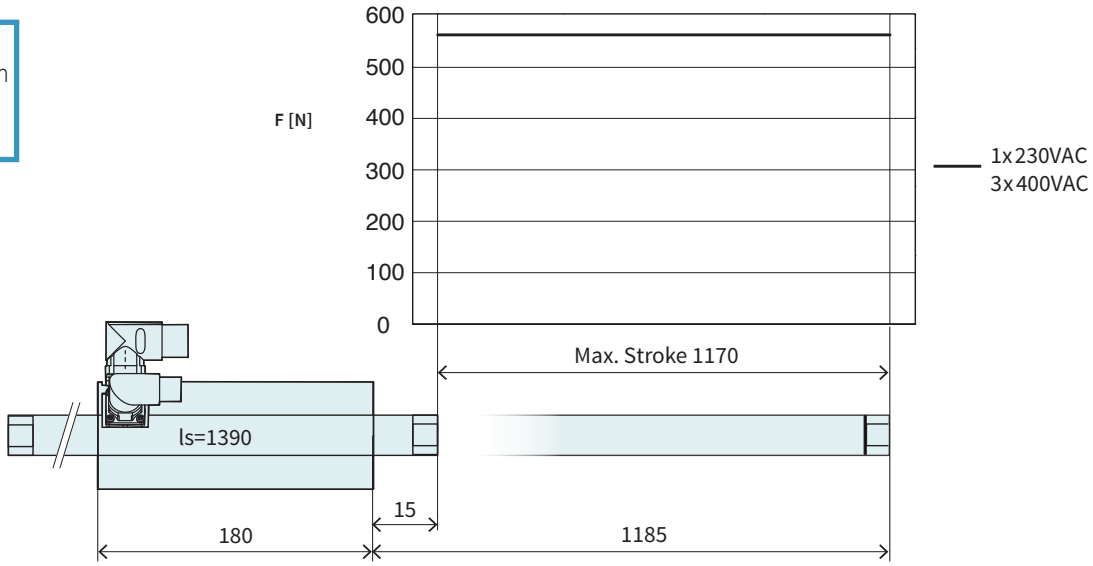
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/1170-BL-QJ

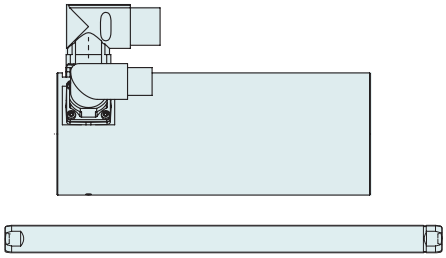
Max. Stroke: 1170 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/1170				
Stroke				
Max. Stroke	mm	(in)	1170	(46.1)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)	1390	(55)
Slider Mass	g	(lb)	6530	(14.37)

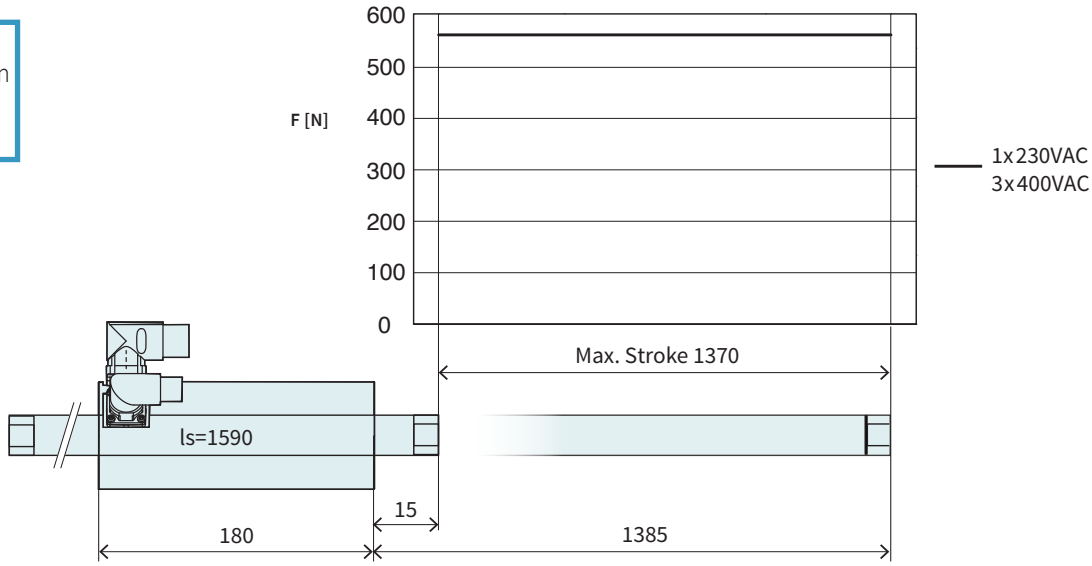
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/1370-BL-QJ

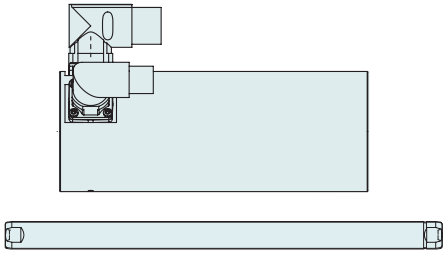
Max. Stroke: 1370 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/1370				
Stroke				
Max. Stroke	mm	(in)	1370	(53.89)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)

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.

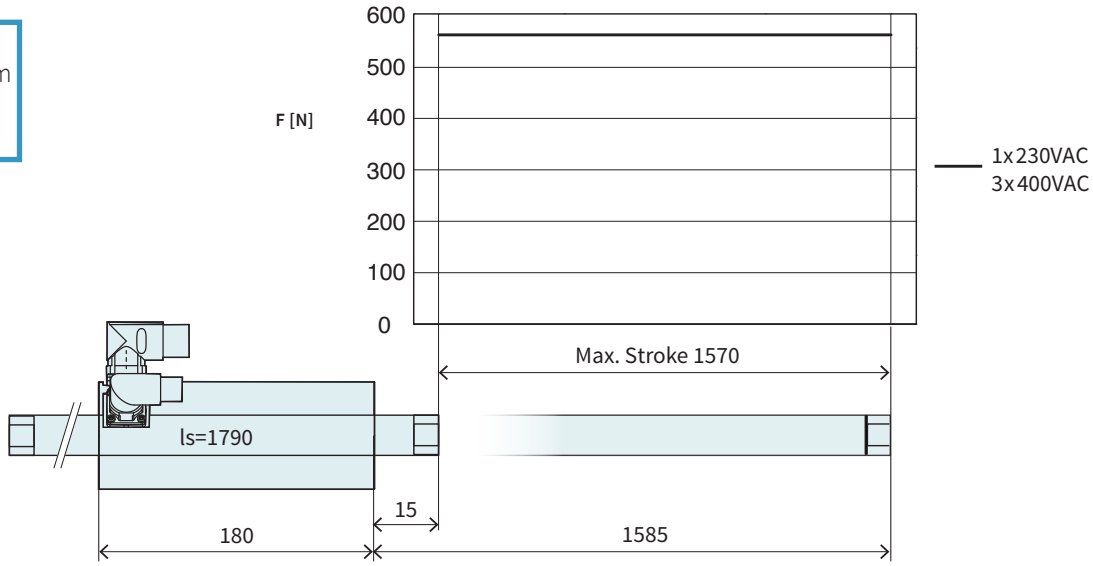


Item	Description	Item-No.
PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	0150-1291
PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	0150-2282
PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	0150-2360
PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power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

P10-70x80U/1570-BL-QJ

4

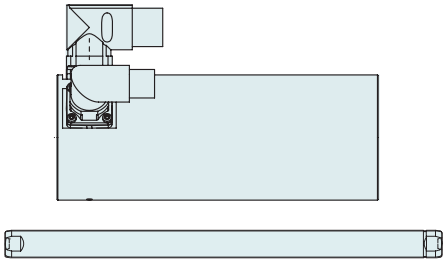
Max. Stroke: 1570 mm
Peak Force: 561 N



Dimensions in mm

Technical Data P10-70x80U/1570				
Stroke				
Max. Stroke	mm	(in)	1570	(61.79)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 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_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)	1790	(70)
Slider Mass	g	(lb)	8413	(18.51)

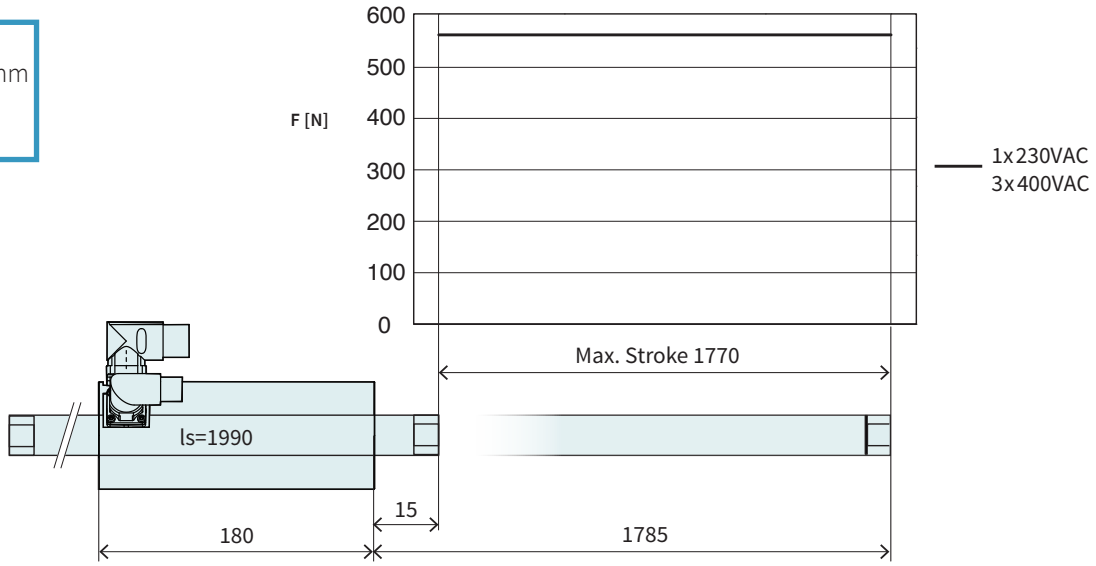
1) Real time calculation of motor winding temperature is required (including monitoring).
If temperature monitoring is only based on temperature sensor signal (missing thermal model calculation), 60 % of the peak value has to be taken instead.



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

P10-70x80U/1770-BL-QJ

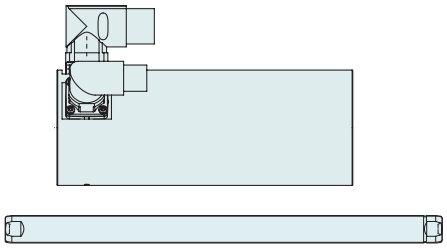
Max. Stroke: 1770 mm
Peak Force: 561 N



Dimensions in mm

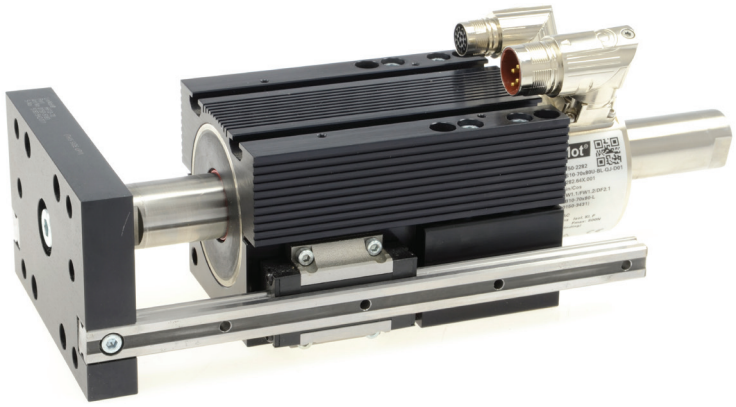
Technical Data P10-70x80U/1770				
Stroke				
Max. Stroke	mm	(in)	1770	(69.7)
Force				
Max. Force[1] @ 1x230VAC	N	(lbf)	561	(126)
Max. Force[1] @ 3x400VAC	N	(lbf)	561	(126)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	67 / 100 / 180	(15 / 23 / 41)
Max. Border Force relative	%		100	
Force Constant 1	N/A_{pk}	(lbf/A_{pk})	51	(11.5)
Force Constant 2	N/A_{rms}	(lbf/A_{rms})	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[1] @ 1x230VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Current[1] @ 3x400VAC	A_{pk} / A_{rms}		10.9 / 7.7	
Max. Cont. Current 1 [Passive cooling /Fan / Fluid]	A_{pk}		1.3 / 2 / 3.5	
Max. Cont. Current 2 [Passive cooling /Fan / Fluid]	A_{rms}		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)

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.
PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	0150-1291
PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	0150-2282
PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	0150-2360
PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	0150-2708
PL10-28x1990/1940	Slider for P10-70 'standard'	0150-2208

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	0150-5404
→	Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	0150-1291
		PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	0150-2282
		PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	0150-2360
		PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	0150-2708
→	Slider	PL10-28x290/240	Slider for P10-70 'standard'	0150-2193
HM10-70x80/170	**Linear Module 70x80 with 170 mm Stroke**			
→	H-Guide	H10-70x80/170	H-Guide for P10-70x80, Stroke max. 170 mm	0150-5405
→	Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	0150-1291
		PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	0150-2282
		PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	0150-2360
		PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	0150-2708
→	Slider	PL10-28x390/340	Slider for P10-70 'standard'	0150-2194
HM10-70x80/270	**Linear Module 70x80 with 270 mm Stroke**			
→	H-Guide	H10-70x80/270	H-Guide for P10-70x80, Stroke max. 270 mm	0150-5406
→	Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	0150-1291
		PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	0150-2282
		PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	0150-2360
		PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	0150-2708
→	Slider	PL10-28x590/540	Slider for P10-70 'standard'	0150-2196

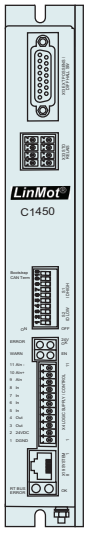
FIND MORE PRODUCT DETAILS IN THE CHAPTER "LINEAR GUIDES".

HM10-70x80/370	Linear Module 70x80 with 370 mm Stroke		
H-Guide	H10-70x80/370	H-Guide for P10-70x80, Stroke max. 370 mm	0150-5407
Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	0150-1291
	PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	0150-2282
	PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	0150-2360
	PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	0150-2708
Slider	PL10-28x490/440	Slider for P10-70 'standard'	0150-2195

HM10-70x80/470	Linear Module 70x80 with 470 mm Stroke		
H-Guide	H10-70x80/470	H-Guide for P10-70x80, Stroke max. 470 mm	0150-5408
Stator	PS10-70x80U-BL-QJ	Stator 3x400VAC, LinMot Encoder	0150-1291
	PS10-70x80U-BL-QJ-D01	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, KTY	0150-2282
	PS10-70x80U-BL-QJ-D02	Stator 3x400VAC, Sin/Cos Encoder 1Vpp, PTC	0150-2360
	PS10-70x80U-BL-QJ-D03	Stator 3x400VAC, Sin/Cos 1Vpp, KTY on power connector	0150-2708
Slider	PL10-28x690/640	Slider for P10-70 'standard'	0150-2196

Accessories			
Fan	HV01-37/48	Fan cooling for H01-37/48 &PF02-37/48	0150-5051

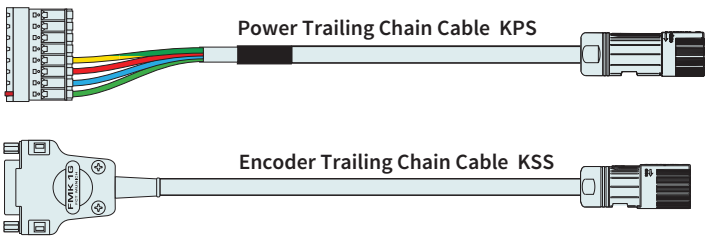
Motor Cable

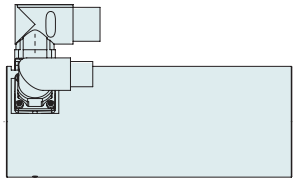


C1400

B Connector MC10-B/m

Q Connector MC10-Q/f





P10-70x80U

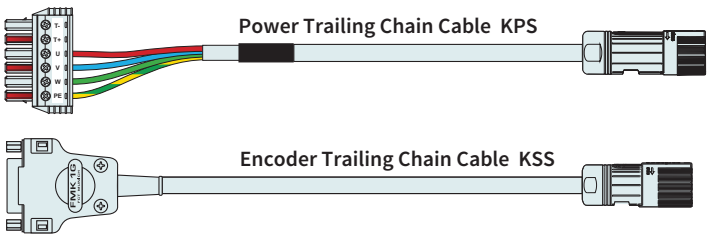
D15 Connector MC01-D15/f

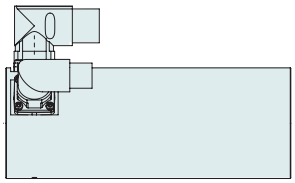
J Connector MC10-J/f

E1400

L Connector MC10-L/m

Q Connector MC10-Q/f





P10-70x80U

D15 Connector MC01-D15/f

J Connector MC10-J/f

ORDERING INFORMATION

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

KSS 05-02/08-D15/J-3	Encoder Trailing Chain Cable D15/J, 3 m	0150-2263
KSS 05-02/08-D15/J-5	Encoder Trailing Chain Cable D15/J, 5 m	0150-2262
KSS 05-02/08-D15/J-8	Encoder Trailing Chain Cable D15/J, 8 m	0150-2264
KSS 05-02/08-D15/J-12	Encoder Trailing Chain Cable D15/J, 12 m	0150-2265
KSS 05-02/08-D15(f)-45°/J-	Encoder Trailing Chain Cable D15/J-, Custom length	0150-3389

TRAILING CHAIN CABLE FOR STATOR SERIES D01 / D02		
Item	**Description**	**Item-No.**
KPS15-04-..../Q-10	Power Trailing Chain Cable .../Q, 10 m for D0x	0150-2376
KPS15-04-./Q-	Power Trailing Chain Cable .../Q, for D0x, Custom length	0150-3491
KSS05-02/13-./J-10	Encoder Trailing Chain Cable ./J, 10 m for D0x	0150-2377
KSS05-02/13-./J-	Encoder Trailing Chain Cable ./J, for D0x, Custom length	0150-3492
KPS15-04	Power Trailing Chain Cable P10-70 (per m)	0150-2257
KSS05-02/13	Trailing Chain Cable Encoder P10-...-Dxx (per m)	0150-2259

TRAILING CHAIN CABLE FOR STATOR SERIES D03		
Item	**Description**	**Item-No.**
KPS15-04/04..../Q-10	Power Trailing Chain Cable .../Q, 10 m for D03	0150-3654
KPS15-04/04-./Q-	Power Trailing Chain Cable .../Q, for D03, Custom length	0150-3579
KSS05-02/06-./J-10	Encoder Trailing Chain Cable ./J, 10 m for D03	0150-3655
KSS05-02/06-./J-	Encoder Trailing Chain Cable ./J, for D03, Custom length	0150-3611
KPS15-04/04	Power Trailing Chain Cable P10-...-Dx3 (per m)	0150-2269
KSS05-02/06	Trailing Chain Cable Encoder P10-...-Dx3 (per m)	0150-2490

CONNECTOR		
Item	**Description**	**Item-No.**
MC10-L/m	Connector Power E1400/X2	0150-3382
MC01-D15/f	Motor Connector D15 (f)	0150-3136
MC10-Q/f	Connector Power PS10-70	0150-2268
MC10-J/f	Connector Encoder PS10-70	0150-2269

MOTOR FLANGES

Item	Description	Item-No.
PF10-70x110	Flange for PS10-70x80	0150-2272

Item	Description	Item-No.
PF10-70x110-FC	Flange for PS10-70x80 fluid cooling	0150-2291

Item	Description	Item-No.
PF11-70x110-FC	Flange for PS10-70x80 fluid cooling	0150-2822

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

FANS

Item	Description	Item-No.
HV01-37/48	Fan cooling for H01-37/48 &PF02-37/48	0150-5051

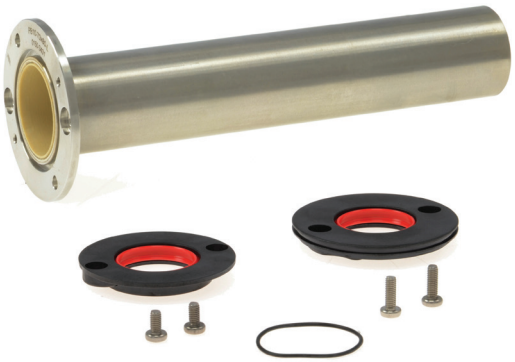
FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

SLIDER MOUNTING

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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

BEARING KIT



Item	Description	Item-No.
PB10-70x80-L	Bearing Kit for PS10-70x80	0150-3431

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	0150-3543

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

EXTERNAL POSITION SENSORS

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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

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

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".