

LINEAR MOTORS P01-23X80



- Highly dynamic drives
- Wide stroke range
- Available with cable outlet or with rotatable connector
- Optional with air cooling
- Wide range of applications in handling modules as well as in plant and machine construction



LINEAR MOTORS P01-23x80

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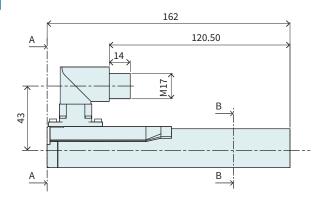


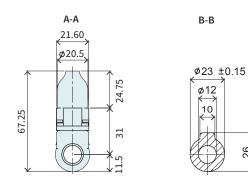
MOTOR FAMILY P01-23x80

Technical Data					
Stroke					
Standard Stroke (SS)	mm	(in)	≤ 720	(≤ 28.3)	
Extended Stroke (ES)	mm	(in)	≤ 780	(≤ 30.69)	
Force					
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)	
Max. Force @ 72VDC	N	(lbf)	44	(9.89)	
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)	
Max. Border Force relative	9	6	≤ 6	3	
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)	
Velocity					
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)	
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)	
Position Detection					
Position Resolution	mm	(in)	0.002	(0.0001)	
Repeatability	mm	(in)	±0.05	(±0.002)	
Position Resolution with ES	mm	(in)	0.001	(0.00004)	
Repeatability with ES	mm	(in)	±0.01	(±0.0004)	
Linearity with ES	mm	(in)	±0.01	(±0.0004)	
Electrical Data					
Max. Current @ 48VDC	А	pk	3.7	7	
Max. Current @ 72VDC	A _{pk}		3.9	ı	
Max. Cont. Current [Passive cooling /Fan / Fluid]	A _{pk}		0.78 / 1	.4 / -	
Terminal Resistance 25 °C / 120 °C	Ohm		10 /	14	
Terminal Inductivity	m	Н	1,4	4	
Magnetic Period	mm	(in)	20	(0.78)	
Thermal Data					
Max. Winding Temperature (Sensor)	٥	С	90		
Thermal Resistance [Passive cooling / Fan / Fluid]	°K,	/W	6.4 / 1	.9 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	9	S	770 / 2	30 / -	
Mechanical Data					
Stator Diameter	mm	(in)	23	(0.91)	
Stator Length [Connector type / Cable type]	mm	(in)	162 / 177	(6.4 / 7)	
Stator Mass	g	(lb)	265	(0.58)	
Slider Diameter	mm	(in)	12	(0.47)	
Slider Length	mm	(in)	130 - 850	(5.1 - 33)	
Slider Mass	g	(lb)	90 - 700	(0.20 - 1.5)	
IP Code			IP 6	55	



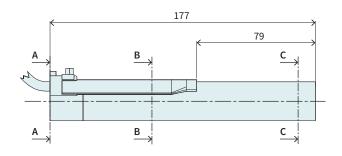
STATOR CONNECTOR TYPE

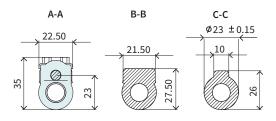




Item	Description	Item-No.
PS01-23x80-R	Stator with IP67 Connector M17/9(m)	0150-1233

STATOR CABLE TYPE





Item	Description	Item-No.
PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	<u>0150-1241</u>
PS01-23x80	Stator, cable 1 m, Connector D-Sub-9(m)	0150-1201

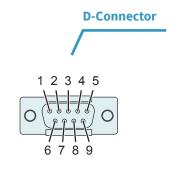
R-Connector

CONNECTOR

Motor Connector	PS01-23x80-R PS01-23x80-R20	PS01-23x80	Wire color	
Wiring	R-Connector	D-Connector	motor cable	
Ph 1+	1	1	red	
Ph 1-	2	6	pink	
Ph 2+	3	2	blue	
Ph 2-	4	7	grey	
+5VDC	А	3	white	
GND	В	8	inner shield	
Sin	С	4	yellow	
Cos	D	9	green	
Temp.	E	5	black	
Shield	Housing	Housing	outer Shield	

3 1 E A 2

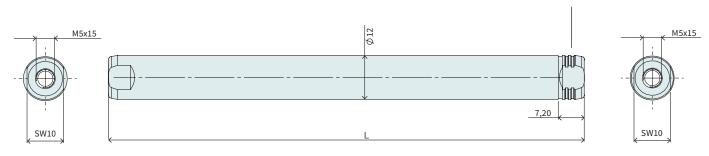
View: Motor Connector, plug side





SLIDER

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



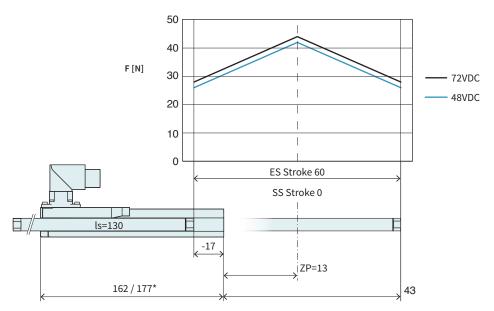
Slider Standard						
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.		
PL01-12x130/90-LC	Slider 'standard LC'	60	0	0150-2580		
PL01-12x170/130-LC	Slider 'standard LC'	100	40	<u>0150-2581</u>		
PL01-12x190/150-LC	Slider 'standard LC'	120	60	0150-2582		
PL01-12x230/190-LC	Slider 'standard LC'	160	100	0150-2598		
PL01-12x290/250-LC	Slider 'standard LC'	220	160	0150-2583		
PL01-12x350/310-LC	Slider 'standard LC'	280	220	0150-2584		
PL01-12x420/380-LC	Slider 'standard LC'	350	290	<u>0150-2585</u>		
PL01-12x480/440-LC	Slider 'standard LC'	410	350	0150-2586		
PL01-12x580/540-LC	Slider 'standard LC'	510	450	0150-2587		
PL01-12x760/720-LC	Slider 'standard LC'	690	630	0150-2589		
PL01-12x850/810-LC	Slider 'standard LC'	780	720	0150-2588		

Slider Heavy Duty						
Item	Description	Max. Stroke [mm]	Standard Stroke [mm]	Item-No.		
PL02-12x130/90-LC	Slider 'heavy duty LC'	60	0	0150-2590		
PL02-12x170/130-LC	Slider 'heavy duty LC'	100	40	<u>0150-2591</u>		
PL02-12x190/150-LC	Slider 'heavy duty LC'	120	60	0150-2592		
PL02-12x230/190-LC	Slider 'heavy duty LC'	160	100	0150-2599		
PL02-12x290/250-LC	Slider 'heavy duty LC'	220	160	0150-2593		
PL02-12x350/310-LC	Slider 'heavy duty LC'	280	220	<u>0150-2594</u>		
PL02-12x420/380-LC	Slider 'heavy duty LC'	350	290	0150-2595		
PL02-12x480/440-LC	Slider 'heavy duty LC'	410	350	0150-2597		
PL02-12x580/540-LC	Slider 'heavy duty LC'	510	450	0150-2596		
PL02-12x760/720-LC	Slider 'heavy duty LC'	690	630	on request		
PL02-12x850/810-LC	Slider 'heavy duty LC'	780	720	on request		



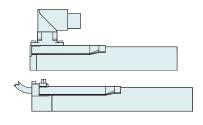
P01-23x80/0x60-LC

Max. Stroke: 60 mm Peak Force: 44 N



Dimensions in mm *Cable Type

Technical Data P01-23x80/0x60-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	0	(0)
Extended Stroke (ES)	mm	(in)	60	(2.35)
Force				
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)
Max. Force @ 72VDC	N	(lbf)	44	(9.89)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)
Max. Border Force relative	9	6	63	3
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	9	6	± 0	.5
Electrical Data				
Max. Current @ 48VDC	А	pk	3.	7
Max. Current @ 72VDC	А	pk	3.9	9
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	pk	0.78 /	1.4 / -
Thermal Data				
Max. Winding Temperature (Sensor)	٥	°C 90)
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W 6.4 / 1.9 / -		9 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	9	5	770 / 230 / -	
Mechanical Data				
Slider Length	mm	(in)	130	(5.1)
Slider Mass	g	(lb)	90	(0.16)



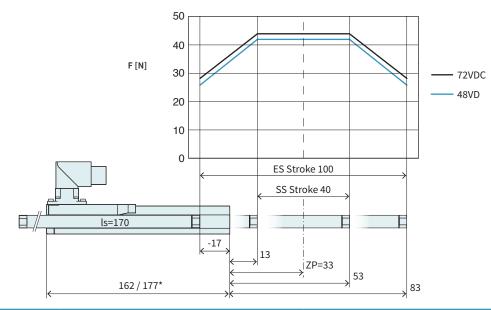
Item	Description	Item-No.
PS01-23x80-R	Stator with IP67 Connector M17/9(m)	<u>0150-1233</u>
PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	<u>0150-1241</u>
PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
PL01-12x130/90-LC	Slider 'standard LC'	0150-2580
PL02-12x130/90-LC	Slider 'heavy duty LC'	0150-2590





P01-23x80/40x100-LC

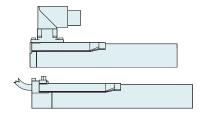
Max. Stroke: 100 mm Peak Force: 44 N



Dimensions in mm *Cable Type

	Technical Data P01-23x80/40x100-LC				
Stroke					
Standard Stroke (SS)	mm	(in)	40	(1.57)	
Extended Stroke (ES)	mm	(in)	100	(3.93)	
Force					
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)	
Max. Force @ 72VDC	N	(lbf)	44	(9.89)	
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)	
Max. Border Force relative	9	6	63	3	
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)	
Velocity					
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)	
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)	
Position Detection					
Repeatability	mm	(in)	±0.05	(±0.002)	
Linearity	%		± 0.35		
Electrical Data					
Max. Current @ 48VDC	А	pk	3. -	7	
Max. Current @ 72VDC	А	pk	3.9	9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	pk	0.78 / 2	1.4 / -	
Thermal Data					
Max. Winding Temperature (Sensor)	٥	°C 90			
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		6.4 / 1.9 / -		
Thermal Time Constant [Passive cooling / Fan / Fluid]	5	5	770 / 230 / -		
Mechanical Data	Mechanical Data				
Slider Length	mm	(in)	170	(6.7)	
Slider Mass	g	(lb)	130	(0.23)	

Item



PS01-23x80-R	Stator with IP67 Connector M17/9(m)	<u>0150-1233</u>
PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	<u>0150-1241</u>
PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
PL01-12x170/130-LC	Slider 'standard LC'	0150-2581

Description

PL02-12x170/130-LC Slider 'heavy duty LC'

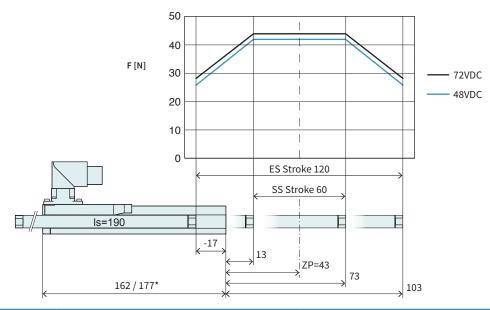


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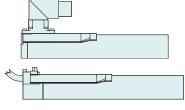
P01-23x80/60x120-LC

Max. Stroke: 120 mm 44 N **Peak Force:**



Dimensions in mm *Cable Type

	Technical Data P01-23x80/60x120-LC				
Stroke					
Standard Stroke (SS)	mm	(in)	60	(2.35)	
Extended Stroke (ES)	mm	(in)	120	(4.71)	
Force					
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)	
Max. Force @ 72VDC	N	(lbf)	44	(9.89)	
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)	
Max. Border Force relative	9	6	63	3	
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)	
Velocity					
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)	
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)	
Position Detection					
Repeatability	mm	(in)	±0.05	(±0.002)	
Linearity	%		± 0.3		
Electrical Data					
Max. Current @ 48VDC	А	pk	3. -	7	
Max. Current @ 72VDC	А	pk	3.9	9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	pk	0.78 / 2	1.4 / -	
Thermal Data					
Max. Winding Temperature (Sensor)	٥	°C 90			
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		6.4 / 1.9 / -		
Thermal Time Constant [Passive cooling / Fan / Fluid]	5	s 770/230/-			
Mechanical Data	Mechanical Data				
Slider Length	mm	(in)	190	(7.5)	
Slider Mass	g	(lb)	145	(0.26)	



fi fi	PL01-12x190/150-LC	Slider 'standard LC'
	PL02-12x190/150-LC	Slider 'heavy duty LC'

Item

PS01-23x80-R

PS01-23x80-R20

PL01-12x190/150-LC Slider 'standard LC' <u>0150-2582</u>	
PL02-12x190/150-LC Slider 'heavy duty LC' <u>0150-2592</u>	

Description

Stator with IP67 Connector M17/9(m)

Stator, 0.2 m cable, IP67 con. M17/9(m)

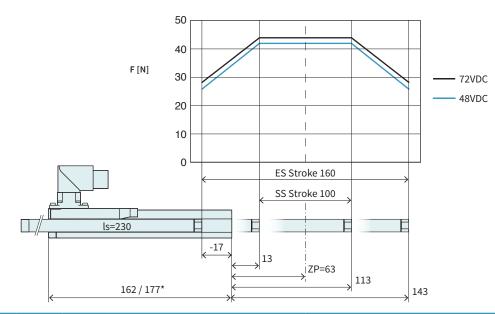
Item-No.

0150-1233



P01-23x80/100x160-LC

Max. Stroke: 160 mm Peak Force: 44 N

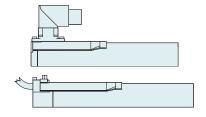


Dimensions in mm *Cable Type

Technical Data P01-23x80/100x160-LC					
Stroke					
Standard Stroke (SS)	mm	(in)	100	(3.93)	
Extended Stroke (ES)	mm	(in)	160	(6.29)	
Force					
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)	
Max. Force @ 72VDC	N	(lbf)	44	(9.89)	
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)	
Max. Border Force relative	9	6	63	3	
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)	
Velocity					
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)	
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)	
Position Detection					
Repeatability	mm	(in)	±0.05	(±0.002)	
Linearity	%		± 0.3	25	
Electrical Data					
Max. Current @ 48VDC	А	pk	3.7	7	
Max. Current @ 72VDC	А	pk	3.9	9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	pk	0.78 / 1	1.4 / -	
Thermal Data					
Max. Winding Temperature (Sensor)	٥	0	90		
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		6.4 / 1.9 / -		
Thermal Time Constant [Passive cooling / Fan / Fluid]	s 770/230/-		30 / -		
Mechanical Data					
Slider Length	mm	(in)	230	(9.1)	
Slider Mass	g	(lb)	180	(0.32)	

Item

PS01-23x80-R



PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	<u>0150-1241</u>
PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
PL01-12x230/190-LC	Slider 'standard LC'	<u>0150-2598</u>

Description

Stator with IP67 Connector M17/9(m)

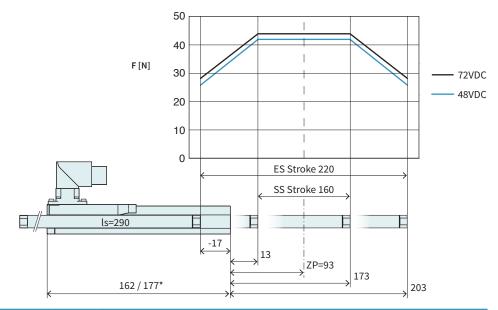


Item-No.



P01-23x80/160x220-LC

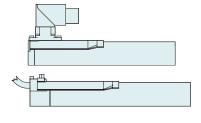
Max. Stroke: 220 mm Peak Force: 44 N



Dimensions in mm *Cable Type

Technical Data P01-23x80/160x220-LC					
Stroke					
Standard Stroke (SS)	mm	(in)	160	(6.29)	
Extended Stroke (ES)	mm	(in)	220	(8.65)	
Force					
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)	
Max. Force @ 72VDC	N	(lbf)	44	(9.89)	
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)	
Max. Border Force relative	9	б	63	3	
Force Constant	N/A _{pk}	$(\mathrm{lbf/A}_{\mathrm{pk}})$	11	(2.47)	
Velocity					
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)	
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)	
Position Detection	Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)	
Linearity	%		± 0.	.2	
Electrical Data					
Max. Current @ 48VDC	А	ok	3.7	7	
Max. Current @ 72VDC	А	sk	3.9	9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	ok	0.78 / 1	1.4 / -	
Thermal Data					
Max. Winding Temperature (Sensor)	٥(3	90)	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		6.4 / 1.9 / -		
Thermal Time Constant [Passive cooling / Fan / Fluid]	s 770 / 230 / -		30 / -		
Mechanical Data					
Slider Length	mm	(in)	290	(11)	
Slider Mass	g	(lb)	230	(0.41)	

Item



PS01-23x80-R	Stator with IP67 Connector M17/9(m)	0150-1233
PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	<u>0150-1241</u>
PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
PL01-12x290/250-LC	Slider 'standard LC'	0150-2583
PL02-12x290/250-LC	Slider 'heavy duty LC'	<u>0150-2593</u>

Description

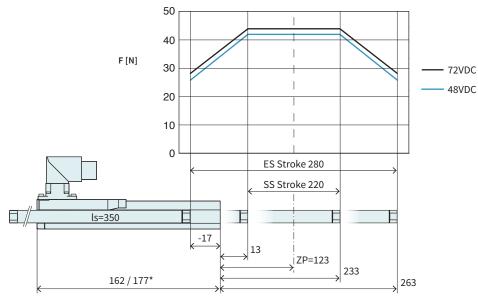


Item-No.



P01-23x80/220x280-LC

Max. Stroke: 280 mm Peak Force: 44 N

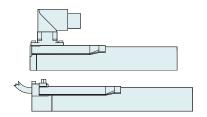


Dimensions in mm *Cable Type

Technical Data P01-23x80/220x280-LC					
Stroke					
Standard Stroke (SS)	mm	(in)	220	(8.65)	
Extended Stroke (ES)	mm	(in)	280	(10.99)	
Force					
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)	
Max. Force @ 72VDC	N	(lbf)	44	(9.89)	
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)	
Max. Border Force relative	9	6	63	3	
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)	
Velocity					
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)	
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)	
Position Detection					
Repeatability	mm	(in)	±0.05	(±0.002)	
Linearity	9	6	± 0	.2	
Electrical Data					
Max. Current @ 48VDC	А	pk	3.	7	
Max. Current @ 72VDC	А	pk	3.9	9	
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	pk	0.78 /	1.4 / -	
Thermal Data					
Max. Winding Temperature (Sensor)	٥	0	90)	
Thermal Resistance [Passive cooling / Fan / Fluid]	°K,	/W	6.4 / 1	9 / -	
Thermal Time Constant [Passive cooling / Fan / Fluid]	\$	5	770 / 2	230 / -	
Mechanical Data					
Slider Length	mm	(in)	350	(14)	
Slider Mass	g	(lb)	280	(0.5)	

Item

PS01-23x80-R



PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	<u>0150-1241</u>
PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
DI 01-12v350/310-I C	Slider 'standard I C'	0150-2584

Description

Stator with IP67 Connector M17/9(m)



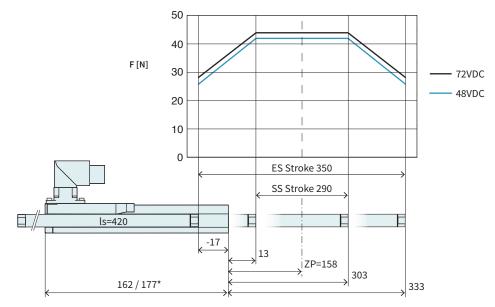
PL01-12x350/310-LC	Slider 'standard LC'	<u>0150-2584</u>
PL02-12x350/310-LC	Slider 'heavy duty LC'	<u>0150-2594</u>

Item-No.



P01-23x80/290x350-LC

Max. Stroke: 350 mm Peak Force: 44 N

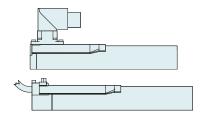


Dimensions in mm *Cable Type

Technical Data P01-23x80/290x350-LC				
Stroke				
Standard Stroke (SS)	mm	(in)	290	(11.4)
Extended Stroke (ES)	mm	(in)	350	(13.8)
Force				
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)
Max. Force @ 72VDC	N	(lbf)	44	(9.89)
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)
Max. Border Force relative	9/	б	63	3
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)
Velocity				
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)
Position Detection				
Repeatability	mm	(in)	±0.05	(±0.002)
Linearity	%		± 0.	15
Electrical Data				
Max. Current @ 48VDC	A	sk	3.	7
Max. Current @ 72VDC	A	A _{pk} 3.9		9
Max. Cont. Current [Passive cooling /Fan / Fluid]	A	ok	0.78 / 2	1.4 / -
Thermal Data				
Max. Winding Temperature (Sensor)	°(3	90)
Thermal Resistance [Passive cooling / Fan / Fluid]	°K,	K/W 6.4 / 1.9 / -		9 / -
Thermal Time Constant [Passive cooling / Fan / Fluid]	S		770 / 230 / -	
Mechanical Data				
Slider Length	mm	(in)	420	(17)
Slider Mass	g	(lb)	340	(0.61)

Item

PS01-23x80-R



PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	<u>0150-1241</u>
PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
PL01-12x420/380-LC	Slider 'standard LC'	<u>0150-2585</u>
PL02-12x420/380-LC	Slider 'heavy duty LC'	0150-2595

Description

Stator with IP67 Connector M17/9(m)

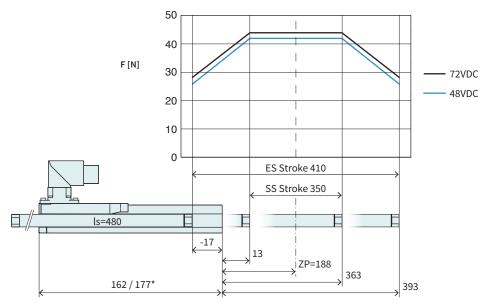
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Item-No.



P01-23x80/350x410-LC

Max. Stroke: 410 mm Peak Force: 44 N



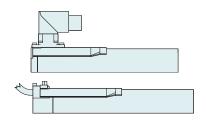
Dimensions in mm *Cable Type

Technical Data P01-23x80/350x410-LC						
Stroke						
Standard Stroke (SS)	mm	(in)	350	(13.8)		
Extended Stroke (ES)	mm	(in)	410	(16.1)		
Force						
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)		
Max. Force @ 72VDC	N	(lbf)	44	(9.89)		
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)		
Max. Border Force relative	9	6	63	3		
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)		
Velocity						
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)		
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)		
Position Detection						
Repeatability	mm	(in)	±0.05	(±0.002)		
Linearity	9	6	± 0.	15		
Electrical Data						
Max. Current @ 48VDC	А	pk	3.	7		
Max. Current @ 72VDC	А	pk	3.9	9		
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	pk	0.78 / 2	1.4 / -		
Thermal Data						
Max. Winding Temperature (Sensor)	٥	0	90)		
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		6.4 / 1	9 / -		
Thermal Time Constant [Passive cooling / Fan / Fluid]	S		770 / 2	30 / -		
Mechanical Data						
Slider Length	mm	(in)	480	(19)		
Slider Mass	g	(lb)	390	(0.7)		

Item

PS01-23x80-R

PS01-23x80-R20 PS01-23x80



PL01-12x480/440-LC	Slider 'standard LC'	0150-2586
PL02-12x480/440-LC	Slider 'heavy duty LC'	<u>0150-2597</u>

Description

Stator with IP67 Connector M17/9(m)

Stator, 0.2 m cable, IP67 con. M17/9(m)

Stator, cable 1m, Connector D-Sub-9(m)



Item-No.

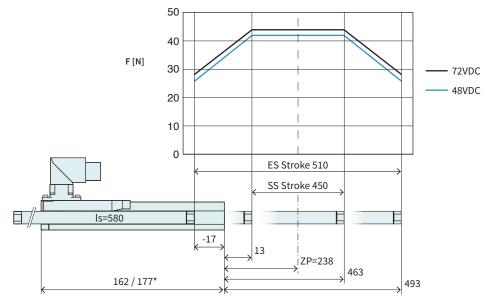
0150-1233

0150-1241



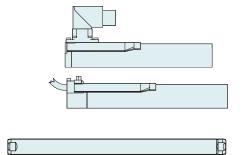
P01-23x80/450x510-LC

Max. Stroke: 510 mm Peak Force: 44 N



Dimensions in mm *Cable Type

Technical Data P01-23x80/450x510-LC						
Stroke						
Standard Stroke (SS)	mm	(in)	450	(17.69)		
Extended Stroke (ES)	mm	(in)	510	(20.1)		
Force						
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)		
Max. Force @ 72VDC	N	(lbf)	44	(9.89)		
Max. Cont. Force [Passive cooling/Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)		
Max. Border Force relative	9/	b	63	3		
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)		
Velocity						
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)		
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)		
Position Detection						
Repeatability	mm	(in)	±0.05	(±0.002)		
Linearity	9/	b	± 0.	15		
Electrical Data						
Max. Current @ 48VDC	A,	sk	3.	7		
Max. Current @ 72VDC	A,	sk	3.9	9		
Max. Cont. Current [Passive cooling /Fan / Fluid]	A	ok	0.78 / 2	1.4 / -		
Thermal Data						
Max. Winding Temperature (Sensor)	°(3	90)		
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		6.4 / 1.9 / -			
Thermal Time Constant [Passive cooling / Fan / Fluid]	S		770 / 230 / -			
Mechanical Data						
Slider Length	mm	(in)	580	(23)		
Slider Mass	g	(lb)	480	(0.86)		

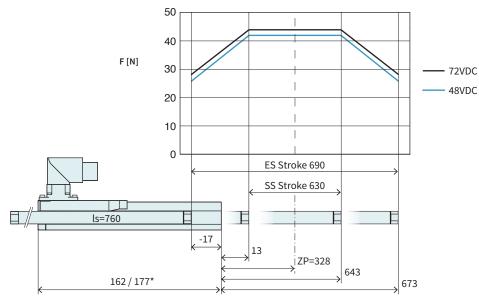


Item	Description	Item-No.
PS01-23x80-R	Stator with IP67 Connector M17/9(m)	<u>0150-1233</u>
PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	0150-1241
PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
PL01-12x580/540-LC	Slider 'standard LC'	<u>0150-2587</u>
PL02-12x580/540-LC	Slider 'heavy duty LC'	<u>0150-2596</u>



P01-23x80/630x690-LC

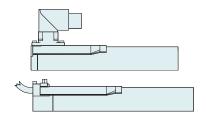
Max. Stroke: 690 mm Peak Force: 44 N



Dimensions in mm *Cable Type

Technical Data P01-23x80/630x690-LC						
Stroke						
Standard Stroke (SS)	mm	(in)	630	(24.8)		
Extended Stroke (ES)	mm	(in)	690	(27.19)		
Force						
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)		
Max. Force @ 72VDC	N	(lbf)	44	(9.89)		
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)		
Max. Border Force relative	9	6	63	3		
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)		
Velocity						
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)		
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)		
Position Detection						
Repeatability	mm	(in)	±0.05	(±0.002)		
Linearity	9	6	± 0.	15		
Electrical Data						
Max. Current @ 48VDC	А	pk	3.	7		
Max. Current @ 72VDC	А	pk	3.	3.9		
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	pk	0.78 /	1.4 / -		
Thermal Data						
Max. Winding Temperature (Sensor)	٥	C	90)		
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		6.4 / 1.9 / -			
Thermal Time Constant [Passive cooling / Fan / Fluid]	9	3	770 / 2	30 / -		
Mechanical Data						
Slider Length	mm	(in)	760	(30)		
Slider Mass	g	(lb)	630	(1.1)		

Item



PS01-23x80-R	Stator with IP67 Connector M17/9(m)	<u>0150-1233</u>
PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	<u>0150-1241</u>
PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
PL01-12x760/720-LC	Slider 'standard LC'	0150-2589

Description

PL01-12x760/720-LC Slider 'heavy duty LC'



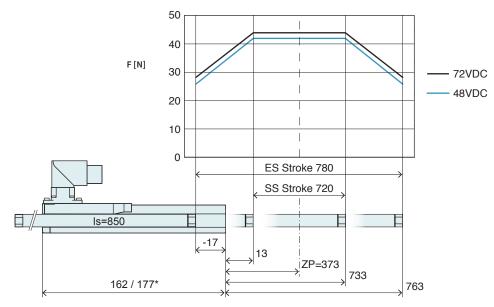
Item-No.

on request



P01-23x80/720x780-LC

Max. Stroke: 780 mm 44 N **Peak Force:**



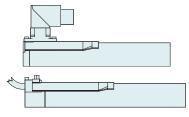
Dimensions in mm *Cable Type

	Technical Data P01-23x80/720x780-LC					
Stroke						
Standard Stroke (SS)	mm	(in)	720	(28.3)		
Extended Stroke (ES)	mm	(in)	780	(30.69)		
Force						
Max. Force @ 48VDC	N	(lbf)	41.6	(9.35)		
Max. Force @ 72VDC	N	(lbf)	44	(9.89)		
Max. Cont. Force [Passive cooling/ Fan / Fluid]	N	(lbf)	8.6 / 16 / -	(1.9 / 3.5 / -)		
Max. Border Force relative	ce relative % 63		3			
Force Constant	N/A _{pk}	(lbf/A _{pk})	11	(2.47)		
Velocity						
Max. Velocity @ 48VDC	m/s	(in/s)	3.9	(159.9)		
Max. Velocity @ 72VDC	m/s	(in/s)	5.9	(239.9)		
Position Detection						
Repeatability	mm	(in)	±0.05	(±0.002)		
Linearity	%		± 0.	15		
Electrical Data						
Max. Current @ 48VDC	А	'pk	3.	7		
Max. Current @ 72VDC	А	'pk	3.9			
Max. Cont. Current [Passive cooling /Fan / Fluid]	А	'pk	0.78 / 2	1.4 / -		
Thermal Data						
Max. Winding Temperature (Sensor)	٥	С	90			
Thermal Resistance [Passive cooling / Fan / Fluid]	°K/W		6.4 / 1.9 / -			
Thermal Time Constant [Passive cooling / Fan / Fluid]	s 770/230/-		30 / -			
Mechanical Data						
Slider Length	mm	(in)	850	(33)		
Slider Mass	g	(lb)	700	(1.3)		

Item

PS01-23x80-R

PS01-23x80-R20



PS01-23x80	Stator, cable 1m, Connector D-Sub-9(m)	<u>0150-1201</u>
PL01-12x850/810-LC	Slider 'standard LC'	0150-2588
PL02-12x850/810-LC	Slider 'heavy duty LC'	on request

Stator with IP67 Connector M17/9(m)

Stator, 0.2 m cable, IP67 con. M17/9(m)

Description

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Item-No.

0150-1233



Linear Guides H01

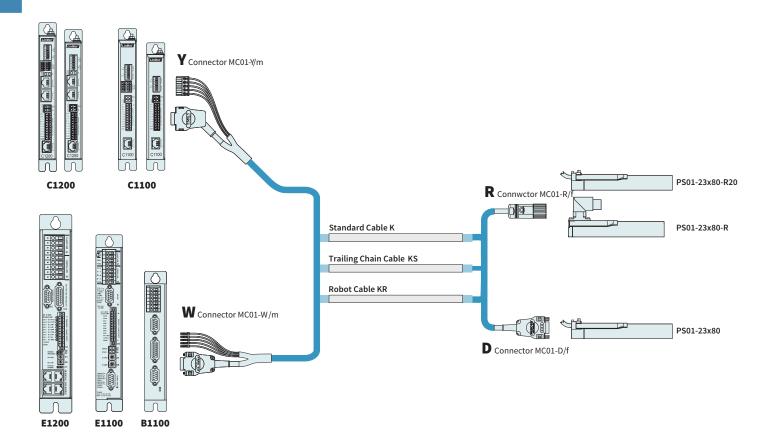


			th 60 mm Stroke		
	\rightarrow	II Cuida	1101 22:00/00	LL Cuide for DO1 22:00 Charles apply CO appe	0150 5014
		H-Guide	H01-23x86/60	H-Guide for P01-23x80, Stroke max 60 mm	0150-5014
			H01-23x86/60-GF	H-Guide for P01-23x80, Stroke max 60 mm	0150-5074
	\rightarrow	Stator	PS01-23x80-R	Stator with IP67 connector M17/9(m)	0150-1233
			PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	0150-1241
			PS01-23x80	Stator, cable 1 m, connector D-Sub-9(m)	0150-1201
	\vdash	Slider	PL01-12x190/150-LC	Slider 'standard LC'	0150-2582
M01-23x80/160		Linear Module 23x80 wi	th 160mm Strake		
MU1-23X8U/16U		Linear Module 23x80 Wi	tn 160mm Stroke		
	\rightarrow	H-Guide	H01-23x86/160	H-Guide for P01-23x80, Stroke max 160 mm	<u>0150-5015</u>
			H01-23x86/160-GF	H-Guide for P01-23x80, Stroke max 160 mm	0150-5075
		Stator	PS01-23x80-R	Stator with IP67 connector M17/9(m)	0150-1233
		Statol	PS01-23x80-R20	Stator, 0.2 m cable, IP67 con. M17/9(m)	0150-1241
			PS01-23x80 PS01-23x80	Stator, cable 1 m, connector D-Sub-9(m)	0150-1201
				,	
	\hookrightarrow	Slider	PL01-12x290/250-LC	Slider 'standard LC'	0150-2583
M01-23x80/260		Linear Module 23x80 wi	th 260mm Stroke		
·					
	\rightarrow	H-Guide	H01-23x86/260	H-Guide for P01-23x80, Stroke max 260 mm	0150-5016
			H01-23x86/260-GF	H-Guide for P01-23x80, Stroke max 260 mm	0150-5076
	\rightarrow	Stator	PS01-23x80-R	Stator with IP67 connector M17/9(m)	0150-1233
		Clator	PS01-23x80-R20	Stator, 0.2m cable, IP67 con. M17/9(m)	0150-1241
			PS01-23x80	Stator, cable 1m, connector D-Sub-9(m)	0150-1201
	\rightarrow	Slider	PL01-12x420/380-LC	Slider 'standard LC'	0150-2585
cessories					
	\rightarrow	Fan	HV01-23	Fan cooling for H01-23	0150-5050
	\rightarrow	MagSpring	MF01-20/H23	Flange MagSpring 20 / H-Guide 23	0250-2306
			MA01-20/H23	Adapter MagSpring 20 / H-Guide 23	0250-0116
	$ \mathrel{\sqsubseteq} $	Centering sleeve	HC01-09/04	Centering sleeve D9x4 mm	0150-3251
	\rightarrow	Centering sleeve	HC01-09/04	Centering sleeve D9x4 mm	0150-3251

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



MOTOR CABLE



ORDERING INFORMATION

STANDARD CABLE					
Item	Description	Item-No.			
K05-W/R-2	Motor Cable W/R, 2 m	0150-2119			
K05-W/R-4	Motor Cable W/R, 4 m	0150-2120			
K05-W/R-6	Motor Cable W/R, 6 m	<u>0150-2121</u>			
K05-W/R-8	Motor Cable W/R, 8 m	0150-2122			
K05-W/R-	Motor Cable W/R, Custom length	0150-3262			
K05-W/D-0.4	Motor Cable W/D, 0.4 m	0150-1947			
K05-Y/R-2	Motor Cable Y/R, 2 m	<u>0150-2421</u>			
K05-Y/R-4	Motor Cable Y/R, 4 m	<u>0150-2422</u>			
K05-Y/R-6	Motor Cable Y/R, 6 m	0150-2423			
K05-Y/R-8	Motor Cable Y/R, 8 m	0150-2424			
K05-Y-Fe/R-	Motor Cable Y/R, Custom length	0150-3501			
K05-Y-Fe/D-	Motor Cable Y-Fe/D, Custom length	0150-1947			



TRAILING CHAIN CABLE						
Item	Description	Item-No.				
KS05-W/R-4	Trailing Chain Cable W/R, 4 m	0150-2106				
KS05-W/R-6	Trailing Chain Cable W/R, 6 m	0150-2131				
KS05-W/R-8	Trailing Chain Cable W/R, 8 m	0150-2107				
KS05-W/R-	Trailing Chain Cable W/R, Custom length	0150-3256				
KS05-Y/R-4	Trailing Chain Cable Y/R, 4 m	0150-2433				
KS05-Y/R-6	Trailing Chain Cable Y/R, 6 m	0150-2434				
KS05-Y/R-8	Trailing Chain Cable Y/R, 8 m	0150-2435				
KS05-Y-Fe/R-	Trailing Chain Cable Y-Fe/R, Custom length	0150-3507				
KS05-Y-Fe/D-	Trailing Chain Cable Y-Fe/D, Custom length	0150-3556				

ROBOT CABLE			
Item	Description	Item-No.	
KR05-W/R-	Robot Cable KR05-W/R, Custom length	0150-3336	
KR05-Y-Fe/R-	Robot Cable KR05-Y-Fe/R, Custom length	0150-3512	

CONNECTOR & CABLE (INDIVIDUAL)			
Item	Description	Item-No.	
MC01-W/m	Motor Connector W/m	0150-3140	
MC01-Y-Fe/m	Motor Connector Y-Fe/m	0150-3289	
MC01-R/f	Motor Connector R/f	0150-3129	
MC01-D/f	Motor Connector D/f	<u>0150-3025</u>	
K05-04/05	Motor Cable per m	0150-1920	
KS05-04/05	Trailing Chain Cable per m	0150-1938	
KR05-04/05	Robot Cable per m	0150-1846	



MOTOR FLANGES



Item	Description	Item-No.
PF02-23x50	Flange 23x50 mm	0150-2102
PF02-23x90	Flange 23x90 mm	<u>0150-2146</u>

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

FANS



Item	Description	Item-No.
HV01-23	Fan cooling for H01-23 and PF02-23	0150-5050

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

SLIDER MOUNTING





Item	Description	Item-No.
PLF01-12	Fixed End Washer Set for 12 mm sliders	0150-3085
PLF01-12-Ni	Fixed End Washer Set for 12 mm sliders nickel-plated	<u>0150-3573</u>
PLL02-12	Floating support for PL01-12 Sliders	0150-3111

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



WIPERS



Item	Description	Item-No.
PA01-23/12-F-2	Seal front side for PS01-23x	0150-3293

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".

EXTERNAL POSITION SENSORS



Item	Description	Item-No.
MS01-1/D	Linear Encoder 1 µm, A/B (for incremental strip)	0150-1840
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	0150-1963
KS025-D/D-Encoder	Encoder Cable (Length in m)	0150-3166
KS025-D/D15-Encoder	Encoder Cable (Length in m)	0150-3168

FIND MORE PRODUCT DETAILS IN THE CHAPTER "ACCESSORIES".



Item	Description	Item-No.
MS01-1/D-SSI	Linear Encoder 1 μ m, 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 straigth	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".