



DIRECT DRIVE TECHNOLOGY
Product Catalogue
VERSION 4.1.1



PSM SERIES
LINEAR SHAFT MOTOR

PSM 12

06

PSM 25

08

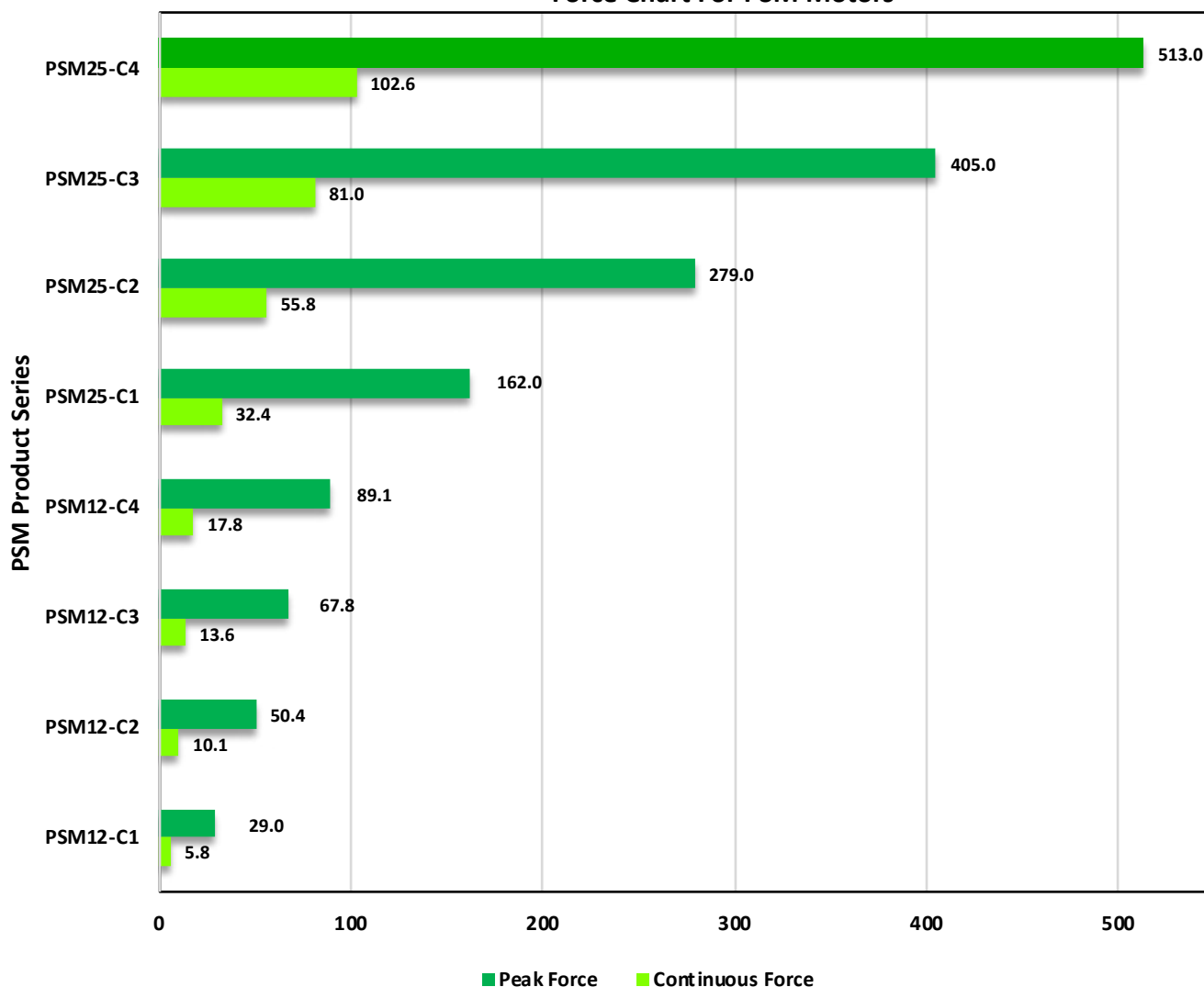
Power & Hall Cable Option

10

Model	Coil Size	Continuous Force (N)	Peak Force (N)	Continuous Current (A)	Peak Current (A)	Motor Dimensions without Hall Sensor L x W x H (mm)	Motor Dimensions with Hall Sensor L x W x H (mm)
PSM12	C1	5.8	29.0	1.06	5.3	34 x 25.6 x 25.4	64 x 25.6 x 25.4
	C2	10.1	50.4	1.84	9.19	60 x 25.6 x 25.4	90 x 25.6 x 25.4
	C3	13.6	67.8	2.47	12.37	86 x 25.6 x 25.4	116 x 25.6 x 25.4
	C4	17.8	89.1	1.63	8.13	112 x 25.6 x 25.4	142 x 25.6 x 25.4
PSM25	C1	32.4	162.0	2.55	12.73	62 x 50 x 50	90 x 50 x 50
	C2	55.8	279.0	4.38	21.92	114 x 50 x 50	142 x 50 x 50
	C3	81.0	405.0	2.12	10.61	166 x 50 x 50	194 x 50 x 50
	C4	102.6	513.0	4.03	20.15	218 x 50 x 50	246 x 50 x 50

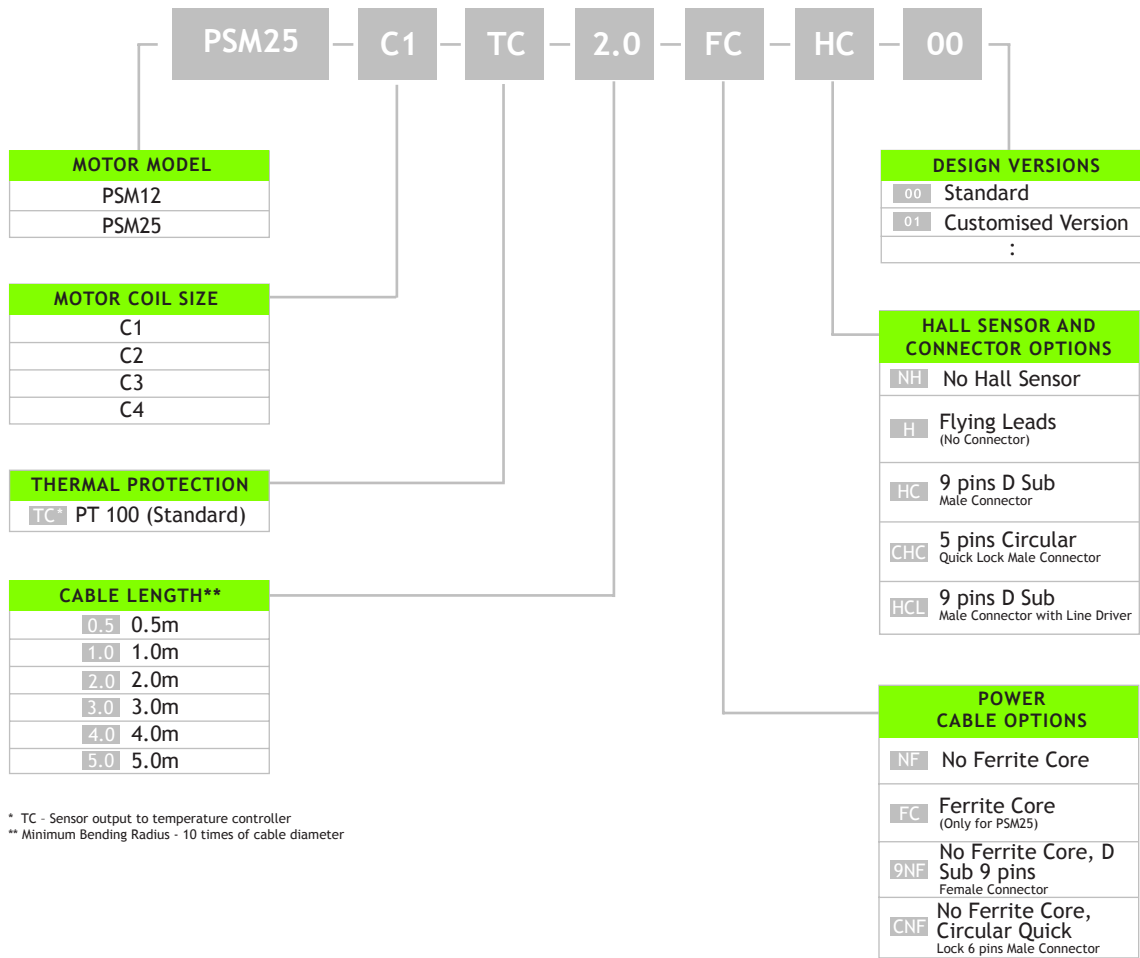
FORCE CHART FOR PSM MOTOR

Force Chart For PSM Motors

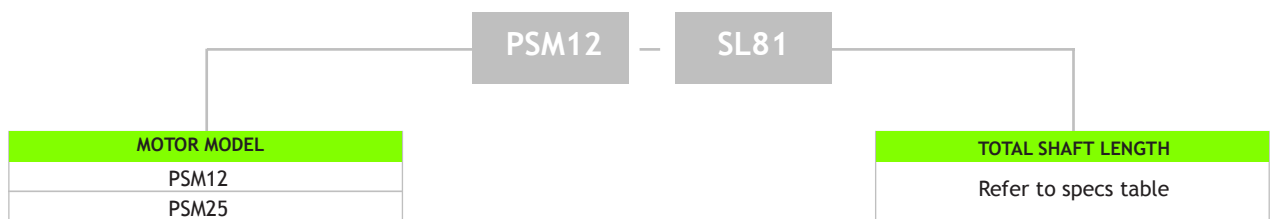


PART NUMBERING SYSTEM

COIL ASSEMBLY



MAGNET TRACK



PSM SERIES

LINEAR SHAFT MOTOR

PSM 12

- Linear Shaft Motor
- Peak force to 89N, Continuous force to 17N

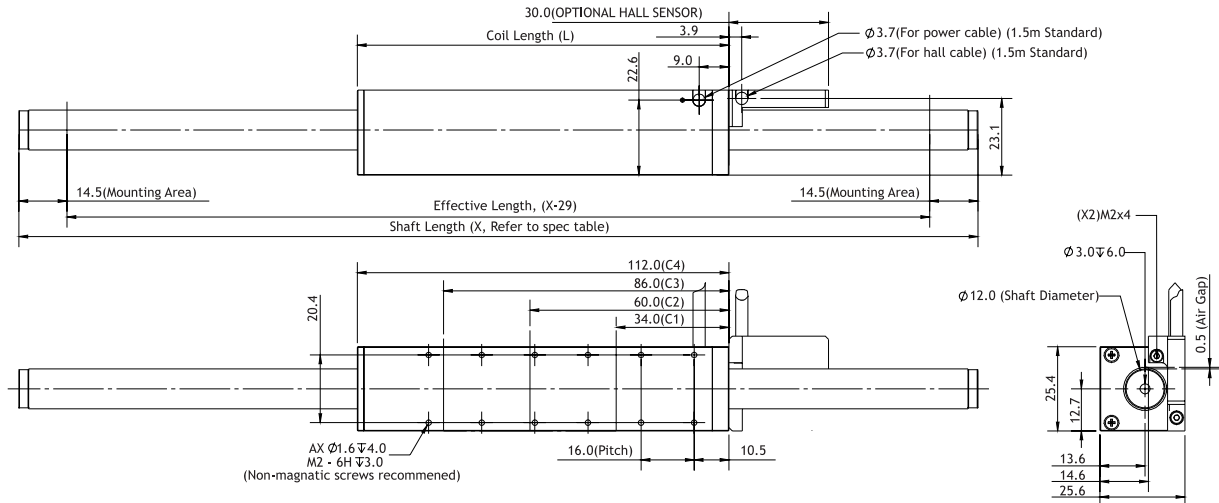


SPECIFICATION	MODEL				
	PSM12-C1	PSM12-C2	PSM12-C3	PSM12-C4	
Performance	Unit				
Peak Force	N	29.0	50.4	67.8	89.1
Continuous Force @ 120°C*	N	5.8	10.1	13.6	17.8
Continuous Stall Force @ 120°C*	N	4.1	7.1	9.6	12.6
Peak Power @ 120°C	W	438	658	794	1029
Continuous Power @ 120°C*	W	17.5	26.3	31.8	41.2
Electrical					
Peak Current	A ^{pk}	5.30	9.19	12.37	8.13
Continuous Current @ 120°C*	A ^{pk}	1.06	1.84	2.47	1.63
Continuous Stall Current @ 120°C*	Arms	0.75	1.30	1.75	1.15
Force Constant	N/A ^{pk}		5.5		11.0
Back EMF Constant	V ^{pk} /m/s		6.3		12.6
Coil Resistance L-L @ 25°C	ohm	15.0	7.5	5.0	15.0
Coil Resistance L-L @ 120°C*	ohm	20.8	10.4	6.9	20.8
Inductance L-L @ 1kHz	mH	2.43	1.19	0.79	2.35
Motor Constant @ 25°C*	N//W	1.63	2.31	2.83	3.27
Motor Constant @ 120°C*	N//W	1.4	2.0	2.4	2.8
Max. Terminal Voltage	Vdc	100			
Thermal					
Thermal Resistance @ 120°C*	°C/W	5.43	3.61	2.99	2.31
Max. Winding Temperature	°C	120			
Mechanical					
Coil Weight	kg	0.057	0.11	0.165	0.21
Attractive Force	N	0			
Electrical Cycle Length	mm	26			

Notes:
 1. $A_{pk} = 1.414 \cdot I_{rms}$; $V_{pk} = 1.414 \cdot V_{rms}$.
 2. * Ambient temperature 25°C, heat dissipation by natural convection, without heat sink attached.
 3. Specifications tolerance : $\pm 10\%$.
 4. Peak force and current : 4% duty ratio and 1 second duration.
 5. Specifications are subject to change without prior notice.

DXB/BT
 PIX
PSM/PSME
 CVC
 CVCA
 RVCA
 PDDR
 PCA
 PWA
 PLA
 PDAB
 PIAB
 OCTO
 PRG
 LINEAR ENCODER
 SERVO AMPLIFIER

PSM 12



SIZE NUMBER OF MOUNTING HOLE A

C1	4
C2	8
C3	12
C4	16

SIZE EFFECTIVE LENGTH (mm) SHAFT WEIGHT (kg)

SL81	52	0.050
SL107	78	0.072
SL133	104	0.093
SL159	130	0.114
SL185	156	0.135
SL211	182	0.156
SL237	208	0.178
SL263	234	0.199
SL289	260	0.220
SL315	286	0.241
SL341	312	0.262
SL367	338	0.284
SL393	364	0.305
SL419	390	0.326
SL445	416	0.347
SL471	442	0.368
SL497	468	0.390

PSM SERIES

LINEAR SHAFT MOTOR

PSM 25

- Linear Shaft Motor
- Peak force to 513N, Continuous force to 102N

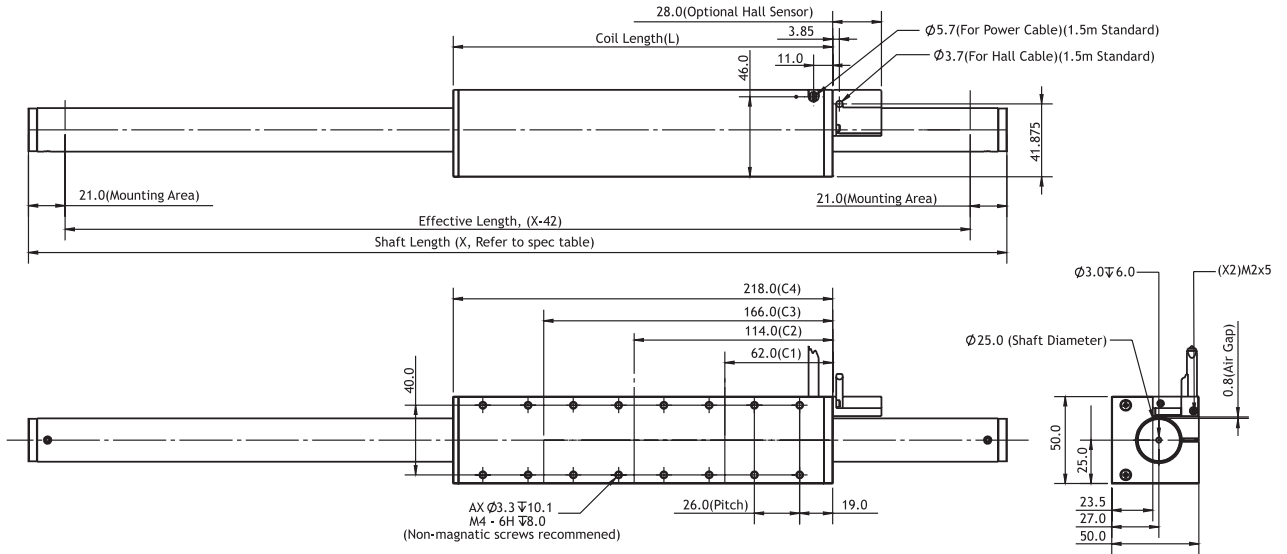


SPECIFICATION	MODEL				
	PSM25-C1	PSM25-C2	PSM25-C3	PSM25-C4	
Performance	Unit				
Peak Force	N	162.0	279.0	405.0	513.0
Continuous Force @ 120°C*	N	32.4	55.8	81.0	102.6
Continuous Stall Force @ 120°C*	N	22.9	39.5	57.3	72.6
Peak Power @ 120°C	W	1365	2024	2844	3422
Continuous Power @ 120°C*	W	54.6	81.0	113.7	136.9
Electrical					
Peak Current	A ^{pk}	12.73	21.92	10.61	20.15
Continuous Current @ 120°C*	A ^{pk}	2.55	4.38	2.12	4.03
Continuous Stall Current @ 120°C*	Arms	1.80	3.10	1.50	2.85
Force Constant	N/A ^{pk}		12.7	38.2	25.5
Back EMF Constant	V ^{pk} /m/s		14.6	43.9	29.3
Coil Resistance L-L @ 25°C	ohm	8.1	4.1	24.4	8.1
Coil Resistance L-L @ 120°C*	ohm	11.2	5.6	33.7	11.2
Inductance L-L @ 1kHz	mH	5.89	2.90	17.13	5.70
Motor Constant @ 25°C*	N//W	5.16	7.30	8.94	10.32
Motor Constant @ 120°C*	N//W	4.4	6.2	7.6	8.8
Max. Terminal Voltage	Vdc			500	
Thermal					
Thermal Resistance @ 120°C*	°C/W	1.74	1.17	0.84	0.69
Max. Winding Temperature	°C			120	
Mechanical					
Coil Weight	kg	0.4	0.84	1.2	1.62
Attractive Force	N			0	
Electrical Cycle Length	mm			52	

- Notes:
1. Apk = 1.414 * Arms; Vpk = 1.414 * Vrms.
 2. * Ambient temperature 25°C, heat dissipation by natural convection, without heat sink attached.
 3. Specifications tolerance : ±10%.
 4. Peak force and current : 4% duty ratio and 1 second duration.
 5. Specifications are subject to change without prior notice.

DXB/BT
 PIX
PSM/PSME
 CVC
 CVCA
 RVCA
 PDDR
 PCA
 PVA
 PLA
 PDAB
 PIAB
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 PRG
 LINEAR ENCODER
 SERVO AMPLIFIER

PSM 25



SIZE	NUMBER OF MOUNTING HOLE A
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C1	4
C2	8
C3	12
C4	16

SIZE	EFFECTIVE LENGTH (mm)	SHAFT WEIGHT (kg)
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SL146	104	0.45
SL198	156	0.64
SL250	208	0.83
SL302	260	1.02
SL354	312	1.21
SL406	364	1.40
SL458	416	1.59
SL510	468	1.78
SL562	520	1.97
SL614	572	2.16
SL666	624	2.35
SL718	676	2.54
SL770	728	2.73
SL822	780	2.92
SL874	832	3.11
SL926	884	3.30
SL978	936	3.49

STAGE 1 | POWER AND HALL CABLE OPTION

PSM25-C1-TC-2.0-NF-HC-00

POWER CABLE OPTIONS

NF																																		
			<table border="1"> <tr><th></th><th>PSM12</th><th>PSM25</th></tr> <tr><td>M1</td><td>White</td><td>Grey</td></tr> <tr><td>M2</td><td>Green</td><td>Brown</td></tr> <tr><td>M3</td><td>Blue</td><td>Black</td></tr> <tr><td>PE</td><td>Shield</td><td>Yellow</td></tr> <tr><td>Temp sensor 1</td><td>Red</td><td>Black</td></tr> <tr><td>Temp sensor 2</td><td>Black</td><td>Orange</td></tr> </table>		PSM12	PSM25	M1	White	Grey	M2	Green	Brown	M3	Blue	Black	PE	Shield	Yellow	Temp sensor 1	Red	Black	Temp sensor 2	Black	Orange										
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FC																																		
9NF			<table border="1"> <tr><th></th><th>PSM12</th><th>PSM25</th></tr> <tr><td>P1</td><td>M1</td><td>M1</td></tr> <tr><td>P2</td><td>M2</td><td>M2</td></tr> <tr><td>P3</td><td>M3</td><td>M3</td></tr> <tr><td>P4</td><td>TS1</td><td>M3</td></tr> <tr><td>P5</td><td>TS2</td><td>M2</td></tr> <tr><td>P6</td><td>-</td><td>M2</td></tr> <tr><td>P7</td><td>-</td><td>TS1</td></tr> <tr><td>P8</td><td>-</td><td>TS2</td></tr> <tr><td>P9</td><td>-</td><td>PE</td></tr> </table>		PSM12	PSM25	P1	M1	M1	P2	M2	M2	P3	M3	M3	P4	TS1	M3	P5	TS2	M2	P6	-	M2	P7	-	TS1	P8	-	TS2	P9	-	PE	
		PSM12	PSM25																															
P1	M1	M1																																
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CNF			<table border="1"> <tr><th></th><th>PSM12</th><th>PSM25</th></tr> <tr><td>P1</td><td>M1</td><td>White</td></tr> <tr><td>P2</td><td>M2</td><td>Green</td></tr> <tr><td>P3</td><td>M3</td><td>Blue</td></tr> <tr><td>P4</td><td>Temp sensor 1</td><td>Red</td></tr> <tr><td>P5</td><td>Temp sensor 2</td><td>Black</td></tr> <tr><td>P6</td><td>PE</td><td>-</td></tr> </table>		PSM12	PSM25	P1	M1	White	P2	M2	Green	P3	M3	Blue	P4	Temp sensor 1	Red	P5	Temp sensor 2	Black	P6	PE	-										
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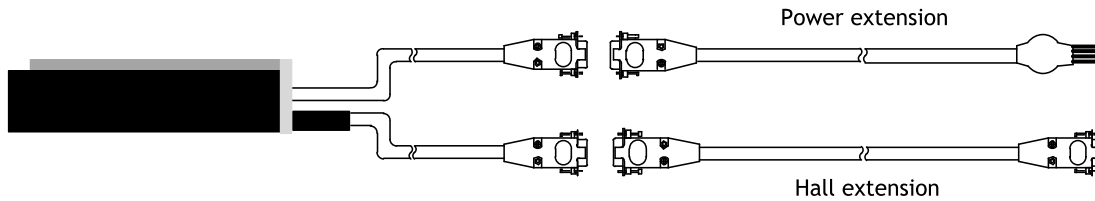
HALL SENSOR OPTIONS

H		<table border="1"> <tr><td>Hall A</td><td>White</td></tr> <tr><td>Hall B</td><td>Green</td></tr> <tr><td>Hall C</td><td>Blue</td></tr> <tr><td>5V</td><td>Red</td></tr> <tr><td>0V</td><td>Black</td></tr> </table>	Hall A	White	Hall B	Green	Hall C	Blue	5V	Red	0V	Black						
	Hall A	White																
Hall B	Green																	
Hall C	Blue																	
5V	Red																	
0V	Black																	
HC		<table border="1"> <tr><td>P1</td><td>Hall A</td><td>White</td></tr> <tr><td>P2</td><td>Hall B</td><td>Green</td></tr> <tr><td>P3</td><td>Hall C</td><td>Blue</td></tr> <tr><td>P4</td><td>5V</td><td>Red</td></tr> <tr><td>P5</td><td>0V</td><td>Black</td></tr> </table>	P1	Hall A	White	P2	Hall B	Green	P3	Hall C	Blue	P4	5V	Red	P5	0V	Black	
P1	Hall A	White																
P2	Hall B	Green																
P3	Hall C	Blue																
P4	5V	Red																
P5	0V	Black																
CHC		<table border="1"> <tr><td>P1</td><td>Hall A</td><td>White</td></tr> <tr><td>P2</td><td>Hall B</td><td>Green</td></tr> <tr><td>P3</td><td>Hall C</td><td>Blue</td></tr> <tr><td>P4</td><td>5V</td><td>Red</td></tr> <tr><td>P5</td><td>0V</td><td>Black</td></tr> </table>	P1	Hall A	White	P2	Hall B	Green	P3	Hall C	Blue	P4	5V	Red	P5	0V	Black	
	P1	Hall A	White															
P2	Hall B	Green																
P3	Hall C	Blue																
P4	5V	Red																
P5	0V	Black																
HCL		<table border="1"> <tr><td>P1</td><td>Hall A+</td></tr> <tr><td>P2</td><td>Hall A-</td></tr> <tr><td>P3</td><td>Hall B+</td></tr> <tr><td>P4</td><td>Hall B-</td></tr> <tr><td>P5</td><td>Hall C+</td></tr> <tr><td>P6</td><td>Hall C-</td></tr> <tr><td>P7</td><td>5V</td></tr> <tr><td>P8</td><td>0V</td></tr> </table>	P1	Hall A+	P2	Hall A-	P3	Hall B+	P4	Hall B-	P5	Hall C+	P6	Hall C-	P7	5V	P8	0V
	P1	Hall A+																
P2	Hall A-																	
P3	Hall B+																	
P4	Hall B-																	
P5	Hall C+																	
P6	Hall C-																	
P7	5V																	
P8	0V																	

Notes: All connectors shown are front view

STAGE 2 | PSM SERIES EXTENSION CABLE

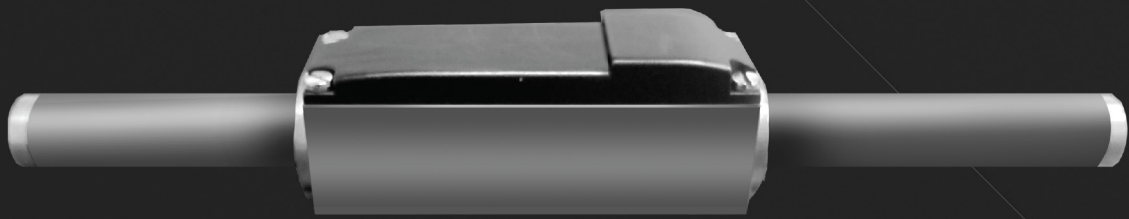
Connection example: PSM25-□-□-□-FC-HC-00



	Extension Cable	Part Number																						
Power Extension Cable		PSM12 CBL_EXT_PWR0_X.X CBL_EXT_PWR0_CC_X.X																						
		PSM25 CBL_EXT_PWR1_X.X CBL_EXT_PWR1_CC_X.X																						
Hall Sensor Extension Cable		CBL_EXT_HALLO_X.X																						
		CBL_EXT_HALLO_CC_X.X																						
		CBL_EXT_HALLO_DIF_X.X																						
Encoder Extension Cable		CBL_EXT_REN00_X.X																						
	<table border="1"> <tr><th>CABLE</th><th>CABLE LENGTH (X.X)</th></tr> <tr><td>00</td><td>RGH41, VIONIC, QUANTIC Digital</td></tr> <tr><td>00A</td><td>RGH41 Analog</td></tr> <tr><td>01</td><td>RH200 Digital</td></tr> <tr><td>01B</td><td>RH200 Analog</td></tr> <tr><td>05</td><td>ATOM Ri Interface Digital</td></tr> <tr><td>05A</td><td>ATOM Ri Interface Analog</td></tr> </table>	CABLE	CABLE LENGTH (X.X)	00	RGH41, VIONIC, QUANTIC Digital	00A	RGH41 Analog	01	RH200 Digital	01B	RH200 Analog	05	ATOM Ri Interface Digital	05A	ATOM Ri Interface Analog	<table border="1"> <tr><td>0.5</td><td>0.5 meter</td></tr> <tr><td>1.0</td><td>1.0 meter</td></tr> <tr><td>2.0</td><td>2.0 meter</td></tr> <tr><td>3.0</td><td>3.0 meter (standard)</td></tr> </table>	0.5	0.5 meter	1.0	1.0 meter	2.0	2.0 meter	3.0	3.0 meter (standard)
	CABLE	CABLE LENGTH (X.X)																						
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		CBL_EXT_REN00A_X.X																						
		CBL_EXT_REN01_X.X																						
		CBL_EXT_REN01B_X.X																						
		CBL_EXT_REN05_X.X																						
		CBL_EXT_REN05A_X.X																						

Notes: 1. X.X is the length of the cable in meters 2. For customized cable length, contact PBA

DXB/BT
 PIX
PSM/PSME
 CVC
 CVC/A
 RVCA
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PSME SERIES
LINEAR SHAFT MOTOR



PSME 06/12

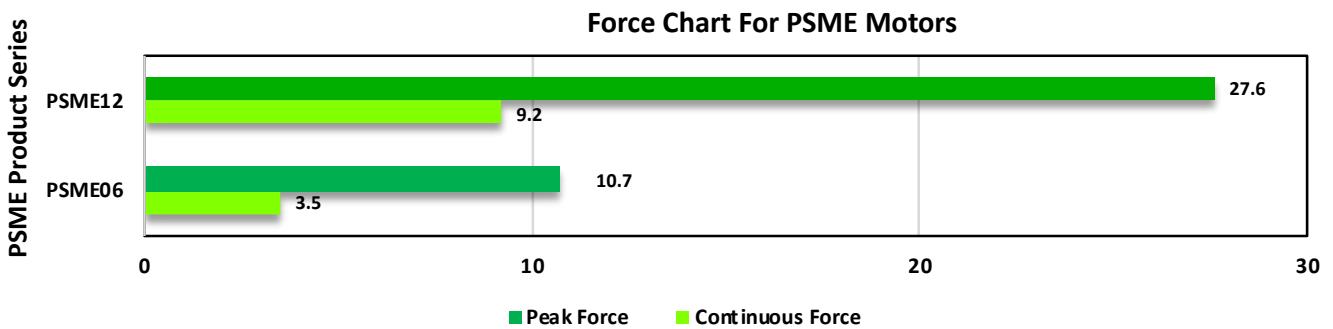
14

SERIES PIN OUT

16

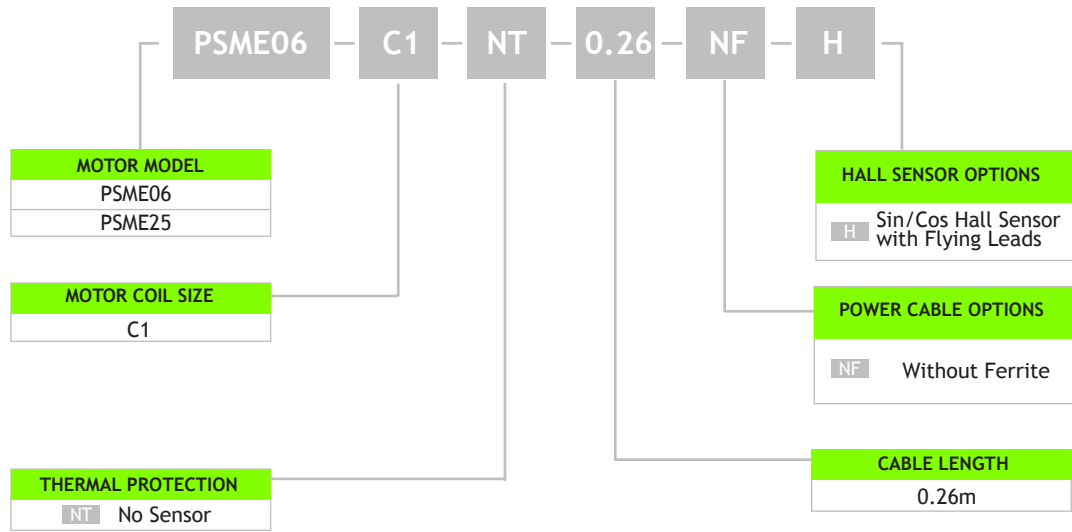
Model	Coil Size	Continuous Force (N)	Peak Force (N)	Continuous Current (A)	Peak Current (A)	Motor Dimensions without Hall Sensor L x W x H (mm)
PSME06	C1	3.5	10.7	0.78	2.35	49.4 x 12.5 x 19.1
PSME12	C2	9.2	27.6	1.12	3.35	74 x 20 x 27.4

FORCE CHART FOR PSME MOTOR



PART NUMBERING SYSTEM

COIL ASSEMBLY



MAGNET TRACK

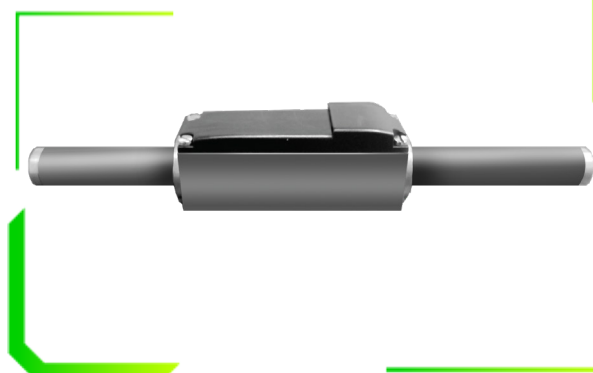


PSME SERIES

IRONCORE LINEAR MOTOR

PSME 06/PSME 12

- Built-in encoder
- Ideal for Z-axis
- Small cross-section
- Control mode switching function available

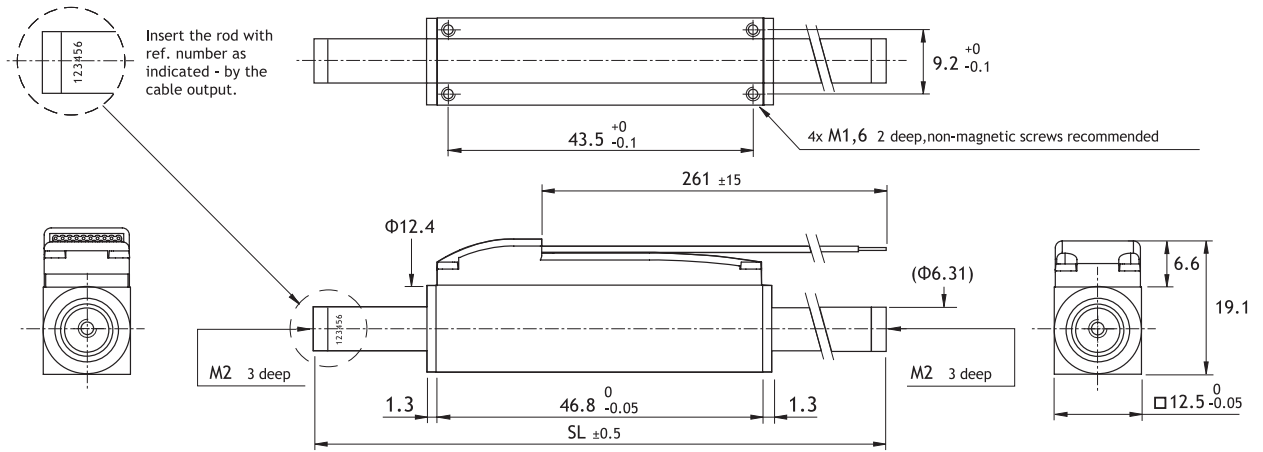


SPECIFICATION		MODEL	
		PSME06-C1	PSME12-C1
Performance		Unit	
Peak Force	N	10.7	27.6
Continuous Force @ 125°C*	N	3.5	9.2
Peak Power @ 125°C	N	77.1	129.2
Continuous Power @ 125°C*	W	8.5	14.4
Electrical			
Peak Current	A ^{pk}	2.35	3.35
Continuous Current @ 125°C*	A ^{pk}	0.78	1.12
Continuous Stall Current @ 125°C*	Arms	0.55	0.79
Force Constant	N/A ^{pk}	4.55	8.23
Back EMF Constant	V ^{pk} /m/s	5.23	9.47
Resistance L-L @ 22°C	Ohm	13.2	10.8
Resistance L-L @ 125°C	Ohm	18.7	15.3
Inductance L-L @ 1kHz	mH	0.82	1.13
Motor Constant @ 125°C	N//W	1.22	2.43
Electrical Cycle Length	mm	18	24
Max. Terminal Voltage	Vdc	75	
Thermal			
Thermal Resistance @ 125°C	°C/W	12.2	7.2
Max. Winding Temperature	°C	125	
Mechanical			
Coil Weight	kg	0.039	0.138

- Notes:
1. $A_{pk} = 1.414 \cdot A_{rms}$; $V_{pk} = 1.414 \cdot V_{rms}$.
 2. * Ambient temperature 25°C, heat dissipation by natural convection, without heat sink attached.
 3. Specifications tolerance : $\pm 10\%$.
 4. Peak force and current : 4% duty ratio and 1 second duration.
 6. ^ Typical values with integrated Sin/Cos Hall sensors and Technosoft iPOS-3602-BX-CAN/CAT. Values may vary depending on conditions of use
 5. Specifications are subject to change without prior notice.

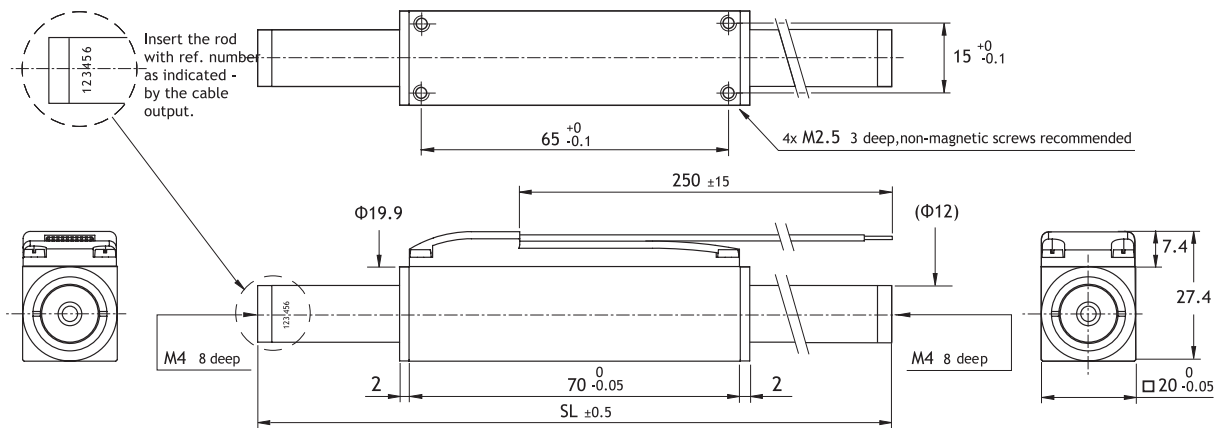
DXB/BT
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PSME 06



SHAFT LENGTH SL (mm)	EFFECTIVE LENGTH (mm)	REPEATABILITY (μm)	ACCURACY (μm)	WEIGHT (g)
SL82	67	+/-15	+/-200	18
SL109	87		+/-220	24
SL127	107		+/-240	28
SL154	127		+/-260	35
SL172	147		+/-280	39
SL190	167		+/-300	43

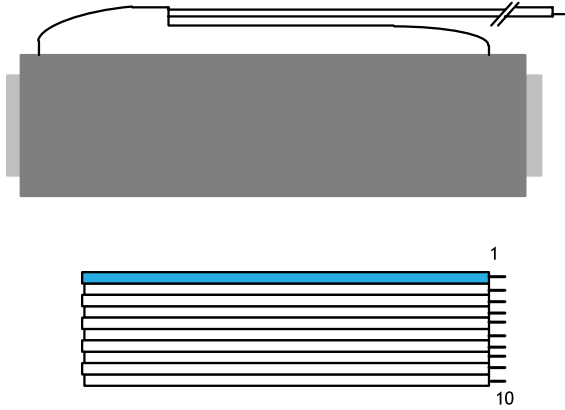
PSME 12



SHAFT LENGTH SL (mm)	EFFECTIVE LENGTH (mm)	REPEATABILITY (μm)	ACCURACY (μm)	WEIGHT (g)
SL134	110	+/-20	+/-500	98
SL182	150		+/-600	140
SL218	190		+/-700	168
SL254	230		+/-800	200
SL314	290		+/-900	250

PSME SERIES PIN OUT

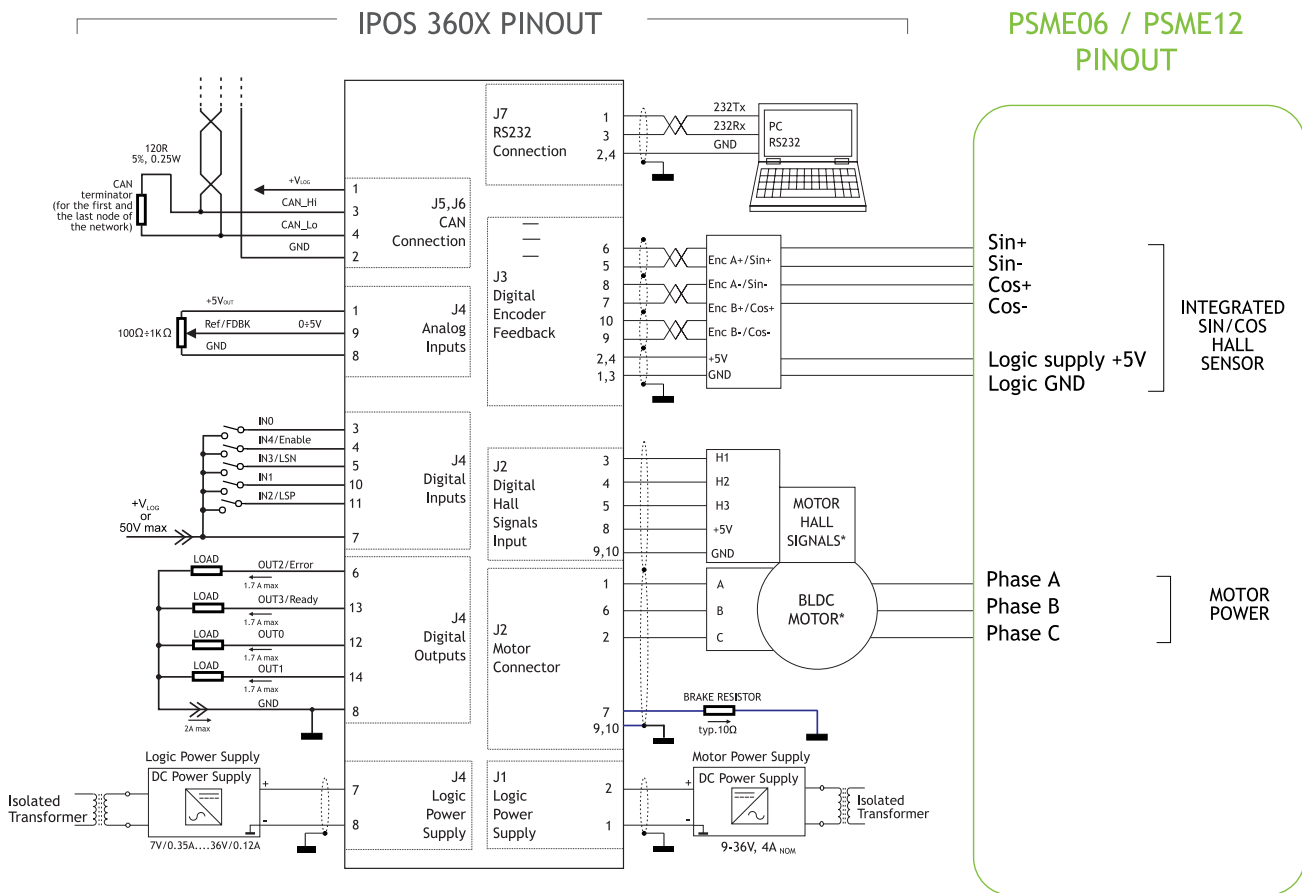
PSME □ -C1-NT-0.25-NF-H



PIN FUNCTION	
1	Phase C
2	Phase B
3	Phase A
4	Logic GND
5	Logic Supply +5V
6	Sin+
7	Sin-
8	Cos+
9	Cos-
10	N.C.

Material PVC, 10 conductors, AWG 28, pitch 2mm.
Only 0.26m length is available

Technosoft iPOS360x BX-CAN (Standalone module & step/direction supported)



Application Form - Linear Motor Selection

Customer Name:	Date (DD/MM/YY):
Contact Email:	

PBA LINEAR MOTOR SELECTION QUESTIONNAIRE

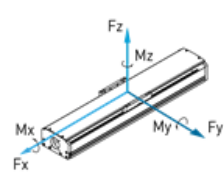
1. Application Description

1a. Application Sketch With Approx Dimensions

2. Load Parameter

Moving mass (without motor coil)	kg	
Frictional force	N	
Oposing force	N	
Mx	N.m	My
		N.m
		MZ
		N.m

Stage Requirements



<input type="checkbox"/> Horizontal	<input type="checkbox"/> Vertical
<input type="checkbox"/> Sidewall	<input type="checkbox"/> Upside-down

3. Motion Parameter

	Profile 1	Profile 2	Profile 3
Moving distance	mm		
Moving time	s		
Moving velocity	m/s		
Acceleration	m/s ²		
Dwell time	s		

4. Command/Bus (Please Circle Accordingly)

Pulse and direction / Analog / EtherCAT / IO trigger / Other : _____

5. Encoder (Please Circle Accordingly)

Resolution	um	
Incremental / Absolute / Analog		

6. Motion Precision

Accuracy	um/mm	
Repeatability	um	

7. Mechanical Specification

Effective stroke	mm	
Flatness	um/mm	
Straightness	um/mm	
Space constraints (L x W x H)	mm	

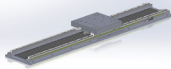
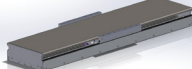
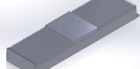
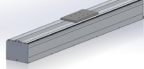
8. Working Environment

Room temperature	°C	
Clean room class		

9. Additional Requirements (Please Tick () Accordingly)

Motor cable length	Controller	Amplifier	Encoder	Other: _____
m				

10. Actuator

Open Frame	Enclosed			
	PARTIAL		BELLOW	
			STRIP SEAL	

11. Remarks: If you have any special motion request for sizing procedure, please specify your requirement in below remarks.

PBA SYSTEMS LINEAR MOTOR SIZER SOFTWARE



PBA Systems is a one-stop robotics provider with a focus on the development of core technology to offer a robust range of products and solutions in precision robotics and general robotics - enabling companies to thrive by making Industry 4.0 technology accessible to the market.

Our core strength is in design, development, and manufacturing of direct drive motor design and manufacturing, motion control, and precision modular assemblies.

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PBA SYSTEMS LINEAR MOTOR SIZER SOFTWARE

PBA Systems Motor Sizer Software is available to download from our website to assist in the calculation and selection.

Kindly visit us at www.pbasystems.com.sg or simply scan the QR CODE

SIMULATED PERFORMANCE CHARTS

PBA Motor Sizer

Application Version: 10.7.0.0 | Local Database Version: 7.0.16 | Server Database Version: 7.0.16

Guest About PBA Online

Motor Sizer

Project Details
 Customer Name: PBA | Project Name: XYZ | Date: 6/1/2022 | Project Data Version: 7.0.16

Axis Details
 Axis Name: X | Motor Category: DXB | Safety Margin: 20 (slider) | 300

Profiles

No	Motion Profile	Travel Distance (m)	Travel Time (s)	Max. Speed (m/s)	Max. Accel. (m/s ²)	Dwell Time (s)	Mass of Load (Kg)	Angle Of Incl. (°)	Direction	Coefficient of Friction	Opposing Force (N)	Ambient Temp. (°C)	RMS Force (N)	Peak Force (N)	Frictional Force (N)	Accel. Time (s)	Cruise Time (s)	Decel. Time (s)	Total Time (s)
1	Trapezoidal	1.000	1.000	1.500	4.500	0.100	10.000	0.000	▶	0.003	0.000	30.000	35.034	45.294	0.294	0.333	0.333	0.333	1.100
2	Trapezoidal	0.500	1.000	0.750	2.250	0.000	20.000	0.000	▶	0.003	0.000	30.000	36.747	45.589	0.589	0.333	0.333	0.333	1.000
3	Trapezoidal	0.500	1.000	0.750	2.250	0.000	30.000	0.000	▶	0.003	0.000	30.000	55.121	68.383	0.883	0.333	0.333	0.333	1.000

Final Calculations for Axis

Required RMS Force	43.026 N	Recommended Motor	Safety (%)
Required Peak Force	68.383 N	DX30B-C2-S	32
Total Travel Distance	2.000 m	DX30B-C2-P	32
Total Cycle Time	3.100 s	DX50B-C2-S	101
Total Dwell Time	0.100 s	DX50B-C2-P	101
Max Speed	1.500 m/s	DX50BT-C2-P	101
Max Acceleration	4.500 m/s ²	DX50BT-C4-P	294
Max. Ambient Temp.	30.000 °C		

Selected Motor
 Motor: DX50B-C2-S

Continuous Force	89.00 N	L To L Resistance	8.40 ohm
Peak Force	446.00 N	L To L Inductance	6.22 mH
Continuous Current	2.63 A	Continuous Power	60.00 W
Peak Current	13.13 A	Peak Power	1502.00 W
Motor Constant	11.51 N/VW	Coil Weight	0.520 kg
Force Constant	34.00 N/A	Coil Length	121.00 mm
Back EMF Constant	39.10 V/(m/s)	Attractive Force	0.00 N

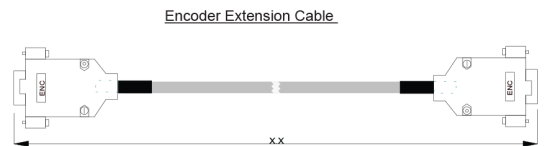
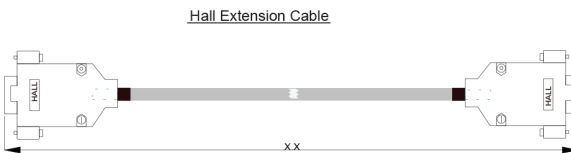
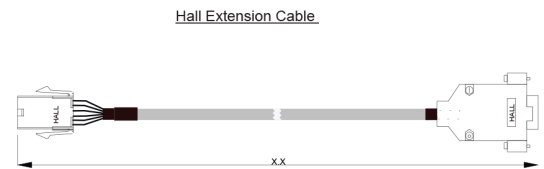
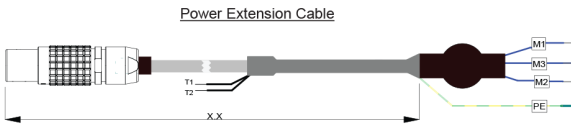
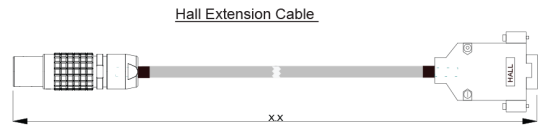
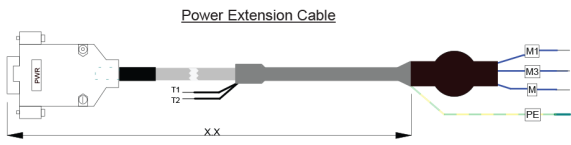
Calculated Motor Values for Application

Reqd. RMS Force	44.21 N	Reqd. Peak Force	69.57 N
Cont. Current	1.30 A	Peak Current	2.05 A
Coil Temp	48.03 °C	DC Bus Voltage	70.42 V
Safety Factor	101.29 %		

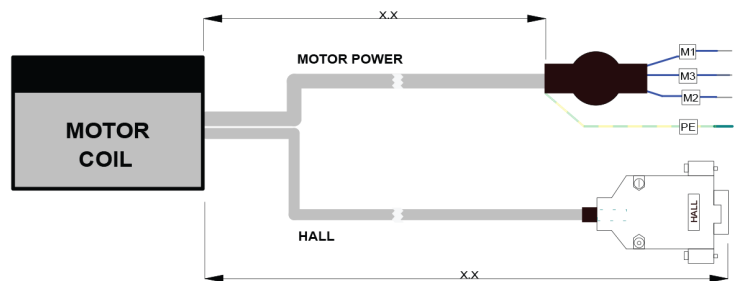
Servo Drive Model: MT-6/25-230AP1

Cont. Current	6.30 A	Peak Current	25.40 A
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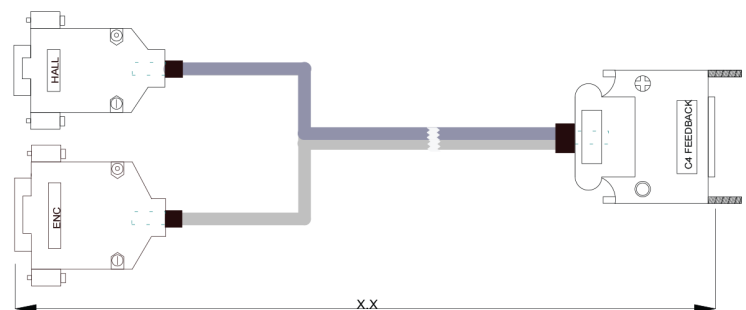
APPENDIX



MOTOR POWER HALL CABLE



MAXTUNE FEEDBACK CABLE



Notes:

1. X.X is the length of the cable in meter with a tolerance of $+ 0.10$
 $- 0$
2. All measurements are in meters (m) unless stated