

### **MS1** series servo motors

Highly dynamic motors with a wide range of brake options and motor cables



- Rated power: 50 W 7.5 kW
- Rated torque: 0.16 48 N·m
- Base speed: 3,000 and 1,500 rpm (to 6,000 rpm max.)
- Low and medium inertia types
- Frame sizes (mm) 40, 60, 80, 100, 130 and 180



# MS1 series – features & functions

### MS1 motors selection chart





### **Common family features:**

■ IP67 rating

■ Complies with CE and UL

■ Inovance serial encoder options:

- Standard - 23 bit: ±15 arcseconds

- Option - 26 bit: ± 2 arcseconds

- Single or multi-turn\* absolute operation

■ Applicable drives: IS810, SV660, SV670, SV680

### MS1H1/H4 series:

■ From 0.16 to 3.2 N·m

■ Easy-to-use connectors

■ Max. peak torque: 350%

■ Torque ripple <0.5%

### MS1H2/H3 series:

■ From 3.2 to 48 N·m

Military spec. connectors

■ Max. peak torque: 300%

■ Torque ripple <1%

Voltage			220V				40	0V		
Frame	40 x 40	60 x 60	80 x 80	100 x 100	130 x 130	100 x 100	130 x 130	130 x 130	180 x 180	
Appearance									9	
Type Codes	MS1H1- 05B30CB-A3XXZ MS1H1- 10B30CB-A3XXZ	MS1H1- 20B30CB-A3XXZ MS1H1- 40B30CB-A3XXZ MS1H4- 40B30CB-A3XXZ	MS1H1- 55B30CB-A3XXZ MS1H1- 75B30CB-A3XXZ MS1H4- 75B30CB-A3XXZ MS1H1- 10C30CB-A3XXZ	MS1H2- 10C30CB-A3XXZ MS1H2- 15C30CB-A3XXZ	MS1H3- 85B15CB-A3XXZ MS1H3- 13C15CB-A3XXZ	MS1H2- 10C30CD-A3XXZ MS1H2- 15C30CD-A3XXZ MS1H2- 20C30CD-A3XXZ MS1H2- 25C30CD-A3XXZ	MS1H2- 30C30CD-A3XXZ MS1H2- 40C30CD-A3XXZ MS1H2- 50C30CD-A3XXZ	MS1H3- 85B15CD-A3XXZ MS1H3- 13C15CD-A3XXZ MS1H3- 18C15CD-A3XXZ	MS1H3- 29C15CD-A3XXZ MS1H3- 44C15CD-A3XXZ MS1H3- 55C15CD-A3XXZ MS1H3- 75C15CD-A3XXZ	
Rated Speed (rpm)	3000	3000	3000	3000	1500	3000	3000	1500	1500	
Rated Power (W)	50 - 100	200 - 400	550 - 1000	1000 - 1500	850 - 1300	1000 - 2500	3000 - 5000	850 - 1800	2900 - 7500	
Rated Torque (N-m)	0.16 - 0.32	0.64 - 1.27	1.75 - 3.18	3.18 - 4.90	5.39 - 8.34	3.18 - 7.96	9.8 - 15.8	5.39 - 11.5	18.6 - 48.0	
Applicable Drives	IS810, SV660, SV670, SV680									

### Applicable drives: IS810, SV660, SV670, SV680



**IS810** 



**SV660** 





SV670

SV680

<sup>\*</sup>Battery supported

### MS1 servo motor technical data

### Product ordering code

### MS1 H1 - 75B 30C B - A3 3 1 Z - INT (4) (5) (6) (7) (8) (9)

① Series: MS1 series servo motor

H1: low inertia, 40/60/80 mm flange, 3,000 RPM H2: low inertia, 100/130 mm flange, 3,000 RPM H3: medium inertia 130/180 mm flange, 1,500 RPM H4: medium inertia 60/80 mm flange, 3,000 RPM

### Rated power

B: x 10 C: x 100 D: x 1,000

E: x 10,000 E.g. 75B: 750 W: 15C: 1,500 W

B: x 10 C: x 100 D: x 1,000

E: x 10,000 E.g. 30C: 3,000 RPM

### S Voltage class B: 220 V D: 400 V

© Encoder type A3: 23-bit single & multi-turn absolute A6: 26-bit

### ① Motor shaft

1: plain 2: keyed

### 3: keyed + tapped hole 5: tapped hole

### ® Brake and oil seal options

0: no brake, no oil seal 1: oil seal 2: brake

### 4: brake + oil seal Stator pole:

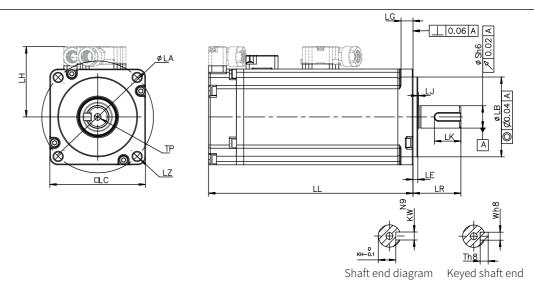
Y: 8 pole Z: 10 pole

INT: international version

Servo motor model	Rated output	Rated torque	Peak torque	Rated current	Peak current	Rated speed	Max speed	Torque constant		inertia kg•m2]	Voltage
Sel vo motor modet	[kW]	[Nm]	[Nm]	[Arms]	[Arms]	[RPM]	[RPM]	[Nm/Arms]	Without brake	With brake	[V]
MS1H1 (Nrated = 3,000 RPM, Nmax =	6,000 RPI	M)									
MS1H1-05B30CB-XXXXZ-INT	0.05	0.16	0.56	1.3	4.7			0.15	0.026	0.028	
MS1H1-10B30CB-XXXXZ-INT	0.1	0.32	1.12	1.3	4.7			0.26	0.041	0.043	
MS1H1-20B30CB-XXXXZ-INT	0.2	0.64	2.24	1.5	5.8			0.46	0.207	0.220	
MS1H1-40B30CB-XXXXZ-INT	0.4	1.27	4.46	2.8	10.1	3,000	6,000	0.53	0.376	0.390	220
MS1H1-55B30CB-XXXXZ-INT	0.55	1.75	6.13	3.8	15.0	1		0.49	1.06	1.06	
MS1H1-75B30CB-XXXXZ-INT	0.75	2.39	8.36	4.8	16.9			0.58	1.38	1.43	
MS1H1-10C30CB-XXXXZ-INT	1.0	3.18	11.1	7.6	28			0.46	1.75	1.75	
MS1H2 (Nrated = 3,000 RPM, Nmax =	5,000/6,0	00 RPM)									
MS1H2-10C30CB-XXXXZ-INT	1.0	3.18	9.54	7.5	23		6,000	0.43	1.87	3.12	220
MS1H2-15C30CB-XXXXZ-INT	1.5	4.9	14.7	10.8	32	]	5,000	0.45	2.46	3.71	220
MS1H2-10C30CD-XXXXZ-INT	1.0	3.18	9.54	3.65	11		6,000	0.87	1.87	3.12	
MS1H2-15C30CD-XXXXZ-INT	1.5	4.9	14.7	4.5	14			1.09	2.46	3.71	
MS1H2-20C30CD-XXXXZ(-S4)-INT	2.0	6.36	19.1	5.89	20	3,000		1.08	3.06	4.31	400
MS1H2-25C30CD-XXXXZ(-S4)-INT	2.5	7.96	23.9	7.56	25			1.05	3.65	4.9	
MS1H2-30C30CD-XXXXZ(-S4)-INT	3.0	9.8	29.4	10	30	]	5,000	0.98	7.72	7.72	
MS1H2-40C30CD-XXXXZ(-S4)-INT	4.0	12.6	37.8	13.6	40.8			0.93	12.1	14.6	
MS1H2-50C30CD-XXXXZ(-S4)-INT	5.0	15.8	47.6	16	48			1.07	15.4	17.9	
MS1H3 (Nrated = 1,500 RPM, Nmax =	3,000 RPI	M)									
MS1H3-85B15CB-XXXXZ-INT	0.85	5.39	13.5	6.6	16.5			0.9	13.3	14	220
MS1H3-13C15CB-XXXXZ-INT	1.3	8.34	20.85	10	25			0.9	17.8	18.5	220
MS1H3-85B15CD-XXXXZ-INT	0.85	5.39	13.5	3.3	8.25	1		1.75	13.3	14	
MS1H3-13C15CD-XXXXZ-INT	1.3	8.34	20.85	5	12.5			1.78	17.8	18.5	
MS1H3-18C15CD-XXXXZ-INT	1.8	11.5	28.75	6.6	16.5	1,500	3,000	1.8	25	25.7	
MS1H3-29C15CD-XXXXZ-INT	2.9	18.6	37.2	11.9	28			1.7	55	57.2	400
MS1H3-44C15CD-XXXXZ-INT	4.4	28.4	71.1	16.5	40.5			1.93	88.9	90.8	
MS1H3-55C15CD-XXXXZ-INT	5.5	35	87.6	20.85	52			1.8	107	109.5	
MS1H3-75C15CD-XXXXZ-INT	7.5	48	119	25.7	65			1.92	141	143.1	
MS1H4 (Nrated = 3,000 RPM, Nmax =	6,000 RPI	M)									
MS1H4-40B30CB-XXXXZ-INT	0.4	1.27	4.46	2.8	10.1	2,000	C 000	0.53	0.657	0.667	220
MS1H4-75B30CB-XXXXZ-INT	0.75	2.39	8.36	4.8	16.9	3,000	6,000	0.58	2	2.012	220

### Servo motor dimensions

MS1H1/MS1H4 mounting dimensions (N<sub>rated</sub> = 3,000 RPM, N<sub>max</sub> = 6,000 RPM)



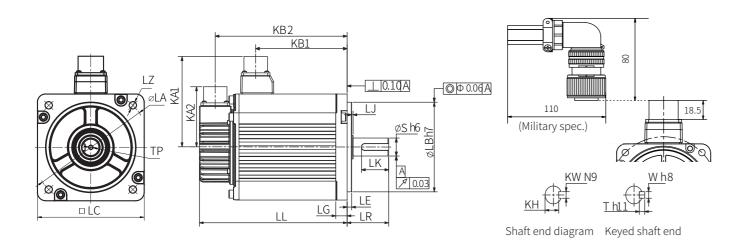
Mo	odel	LC (mm)	LL (mm)	LR (mm)	LA (mm)	LZ (mm)	LH (mm)	LG (mm)	LE (mm)	LJ (mm)
MS1H1-0 -XXXXZ-II		40	65 (96)*	25±0.5	46	2-Ф4.5	34	5	2.5±0.5	0.5±0.35
MS1H1-1 -XXXXZ-IN		40	77.5 (109)*	25±0.5	46	2-Ф4.5	34	5	2.5±0.5	0.5±0.35
MS1H1-2 -XXXXZ-IN		60	72.5 (100)*	30±0.5	70	4-Ф5.5	44	7.5	3±0.5	0.5±0.35
MS1H1-4 -XXXXZ-IN		60	91 (119)*	30±0.5	70	4-Ф5.5	44	7.5	3±0.5	0.5±0.35
MS1H1-5 -XX31Z-IN		80	96.2	35±0.5	90	4-Ф7	54	7.7	3±0.5	0.5±0.35
MS1H1-7 -XXXXZ-IN		80	107 (140)*	35±0.5	90	4-Ф7	54	7.7	3±0.5	0.5±0.35
MS1H1-1 -XX31Z-IN		80	118.2	35±0.5	90	4-Ф7	54	7.7	3±0.5	0.5±0.35
MS1H4-4 -XXXXZ-IN		60	105 (128)*	30±0.5	70	4-Φ5.5	44	7.5	3±0.3	0.5±0.35
MS1H4-7 -XXXXZ-II		80	117.5 (147.5)*	35±0.5	90	4-Ф7	54	7.7	3±0.3	0.5±0.35

Model	LB (mm)	S (mm)	TP (mm)	LK (mm)	KH (mm)	KW (mm)	W (mm)	T (mm)	Weight (kg)
MS1H1-05B30CB -XXXXZ-INT	30	8	M3×6	15.5	6.2	3	3	3	0.39 (0.50)*
MS1H1-10B30CB -XXXXZ-INT	30	8	M3×6	15.5	6.2	3	3	3	0.45 (0.64)*
MS1H1-20B30CB -XXXXZ-INT	50	14	M5×8	16.5	11	5	5	5	0.78 (1.16)*
MS1H1-40B30CB -XXXXZ-INT	50	14	M5×8	16.5	11	5	5	5	1.11 (1.48)*
MS1H1-55B30CB -XX31Z-INT	70	19	M6×20	25	15.5	6	6	6	1.85
MS1H1-75B30CB -XXXXZ-INT	70	19	M6×20	25	15.5	6	6	6	2.18 (2.82)*
MS1H1-10C30CB -XX31Z-INT	70	19	M6×20	25	15.5	6	6	6	2.55
MS1H4-40B30CB -XXXXZ-INT	50	14	M5×8	16.5	11.0	5	5	5	1.27 (1.62)*
MS1H4-75B30CB -XXXXZ-INT	70	19	M6×20	25	15.5	6	6	6	2.40 (3.04)*

<sup>\*</sup>Refers to braked version of the motor

### **Servo motor dimensions**

### MS1H2 mounting dimensions ( $N_{rated} = 3,000 \text{ RPM}$ , $N_{max} = 5,000/6,000 \text{ RPM}$ )



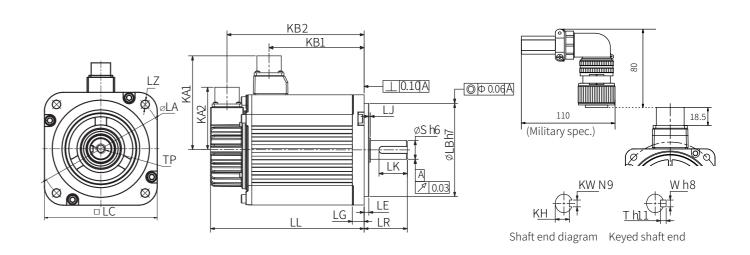
Model	LC (mm)	LL (mm)	LR (mm)	LA (mm)	LZ (mm)	KA1 (mm)	KB1 (mm)	KA2 (mm)	KB2 (mm)	LG (mm)	LE (mm)	LJ (mm)	LB (mm)
MS1H2-10C30CB(D) -XXXXZ-INT	100	164 (213.5)*	45±1	115	4-Ф7	88	94.5 (101)*	74	143.5 (192.5)*	10	5±0.3	2.5±0.75	95
MS1H2-15C30CB(D) -XXXXZ-INT	100	189 (239)*	45±1	115	4-Ф7	88	119.5 (128)*	74	168.5 (219.5)*	10	5±0.3	2.5±0.75	95
MS1H2-20C30CD -XXXXZ(-S4)-INT	100	214 (265)*	45±1	115	4-Ф7	88	144.5 (153)*	74	193.5 (244)*	10	5±0.3	2.5±0.75	95
MS1H2-25C30CD -XXXXZ(-S4)-INT	100	240.5 (290)*	45±1	115	4-Ф7	88	169.5 (178)*	74	218.5 (269)*	10	5±0.3	2.5±0.75	95
MS1H2-30C30CD -XXXXZ(-S4)-INT	130	209.5 (265.5)*	63±1	145	4-Ф9	103	136 (139)*	74	188.5 (244.5)*	14	6±0.3	0.5±0.75	110
MS1H2-40C30CD -XXXXZ(-S4)-INT	130	252 (308)*	63±1	145	4-Ф9	103	178.5 (181.5)*	74	231 (287)*	14	6±0.3	0.5±0.75	110
MS1H2-50C30CD -XXXXZ(-S4)-INT	130	294.5 (350.5)*	63±1	145	4-Ф9	103	221 (224)*	74	273.5 (329.5)*	14	6±0.3	0.5±0.75	110

Model	S (mm)	TP (mm)	LK (mm)	KH (mm)	KW (mm)	W (mm)	T (mm)	Weight (kg)	Connector	Power side (incl. power brake side)	Encoder side
MS1H2-10C30CB(D) -XXXXZ-INT	24	M8×16	36	20-0.2	8	8	7	5.11 (6.41)*			
MS1H2-15C30CB(D) -XXXXZ-INT	24	M8×16	36	20-0.2	8	8	7	6.22 (7.52)*	Aviation plug	MI-DTL-5015 3102E20-18P	MI-DTL-5015 3102E20-29P
MS1H2-20C30CD -XXXXZ(-S4)-INT	24	M8×16	36	20-0.2	8	8	7	7.39 (8.7)*	plug	3102L20-10F	3102E20-29P
MS1H2-25C30CD -XXXXZ(-S4)-INT	24	M8×16	36	20-0.2	8	8	7	8.55 (9.8)*			
MS1H2-30C30CD -XXXXZ(-S4)-INT	28	M8×20	54	24-0.2	8	8	7	10.73 (13.2)*	Aviation	MI-DTL-5015	MI-DTL-5015
MS1H2-40C30CD -XXXXZ(-S4)-INT	28	M8×20	54	24-0.2	8	8	7	15.43 (17.9)*	plug	3102E20-18P	3102E20-29P
MS1H2-50C30CD -XXXXZ(-S4)-INT	28	M8×20	54	24-0.2	8	8	7	16.2 (18.7)*			

<sup>\*</sup>Refers to braked version of the motor

### **Servo motor dimensions**

MS1H3 mounting dimensions ( $N_{rated} = 1,500 \text{ RPM}, N_{max} = 3,000 \text{ RPM}$ )



Model	LC (mm)	LL (mm)	LR (mm)	LA (mm)	LZ (mm)	KA1 (mm)	KB1 (mm)	KA2 (mm)	KB2 (mm)	LG (mm)	LE (mm)	LJ (mm)	LB (mm)
MS1H3-85B15CB(D) -XXXXZ-INT	130	146 (182)*	55±1	145	4-Ф9	103	72.5	74	125 (161)*	14	4	0.5±0.75	110
MS1H3-13C15CB(D) -XXXXZ-INT	130	163 (199)*	55±1	145	4-Ф9	103	89.5	74	142 (178)*	14	4	0.5±0.75	110
MS1H3-18C15CD -XXXXZ-INT	130	181 (217)*	55±1	145	4-Ф9	103	107.5	74	160 (196)*	14	4	0.5±0.75	110
MS1H3-29C15CD -XXXXZ-INT	180	197 (273)*	79±1	200	4-Ф13.5	138	136 (134)*	74	177 (253)*	18	3.2±0.3	0.3±0.75	114.3
MS1H3-44C15CD -XXXXZ-INT	180	230 (307)*	79±1	200	4-Ф13.5	138	169 (167)*	74	210 (286)*	18	3.2±0.3	0.3±0.75	114.3
MS1H3-55C15CD -XXXXZ-INT	180	274 (350)*	113±1	200	4-Ф13.5	138	213 (211)*	74	254 (330)*	18	3.2±0.3	0.3±0.75	114.3
MS1H3-75C15CD -XXXXZ-INT	180	330 (407)*	113±1	200	4-Ф13.5	138	269 (267)*	74	310 (386)*	18	3.2±0.3	0.3±0.75	114.3

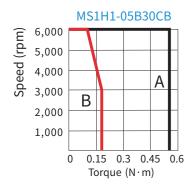
Model	S (mm)	TP (mm)	LK (mm)	KH (mm)	KW (mm)	W (mm)	T (mm)	Weight (kg)	Connector	Power side (incl. power brake side)	Encoder side
MS1H3-85B15CB(D) -XXXXZ-INT	22	M6×20	36	18 -0.2	8	8	7	7 (8)*			
MS1H3-13C15CB(D) -XXXXZ-INT	22	M6×20	36	18 -0.2	8	8	7	8 (9.5)*	Aviation	MI-DTL-5015 3102E20-18P	MI-DTL-5015 3102E20-29P
MS1H3-18C15CD -XXXXZ-INT	22	M6×20	36	18 -0.2	8	8	7	9.5 (11)*	plug	3102L20-10F	
MS1H3-29C15CD -XXXXZ-INT	35	M12×25	65	30 -0.2	10	10	8	15 (25)*			
MS1H3-44C15CD -XXXXZ-INT	35	M12×25	65	30 -0.2	10	10	8	19.5 (30)*	Aviation	MI-DTL-5015	MI-DTL-5015
MS1H3-55C15CD -XXXXZ-INT	42	M16×32	96	37 <sup>0</sup> -0.2	12	12	8	28 (38)*	plug	3102E20-22P	3102E20-29P
MS1H3-75C15CD -XXXXZ-INT	42	M16×32	96	37 -0.2	12	12	8	32 (42)*			

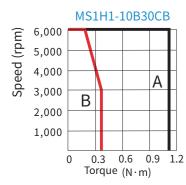
<sup>\*</sup>Refers to braked version of the motor

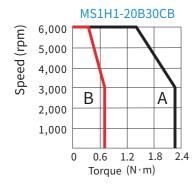
### Servo motor torque VS speed graph

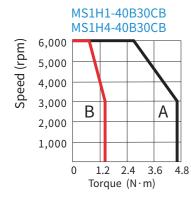
A (continuous operation area) & B (short term operation area)

### MS1H1: low inertia small capacity

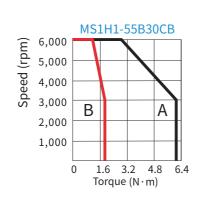


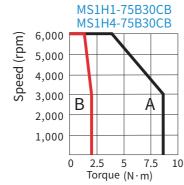


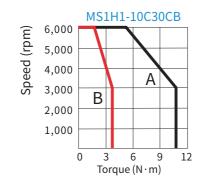




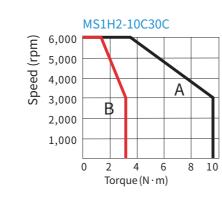
### MS1H4: high inertia small capacity

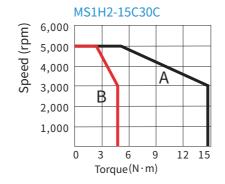


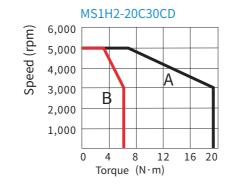


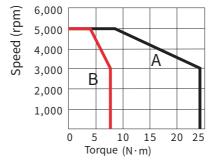


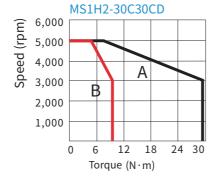
### MS1H2: low inertia medium capacity

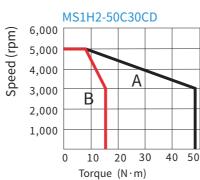




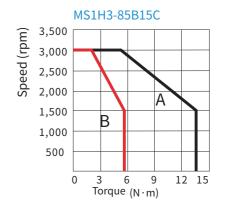


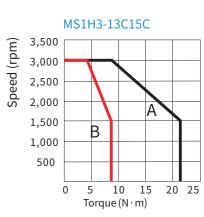


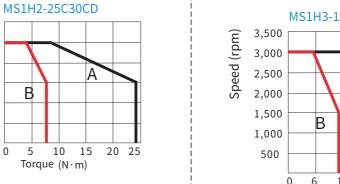




# medium capacity







3,500

3,000

2,500

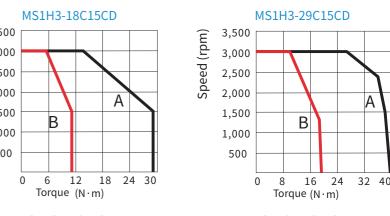
2,000

1,500

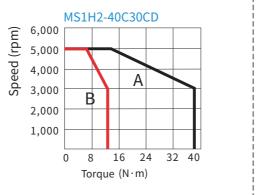
1,000

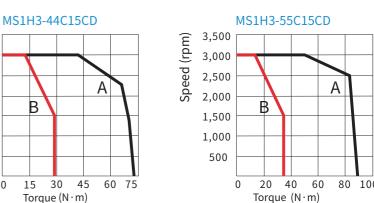
500

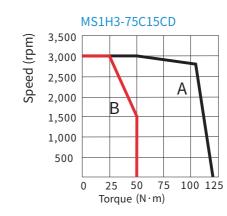
Speed (rpm)

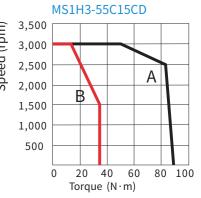


MS1H3: high inertia









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## Servo motor overload characteristics graph

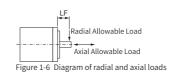
### **Overload characteristics**

Load ratio (%)	Running time (s)
120	230
130	80
150	40
150	30
160	20
170	17
180	15
190	12
200	10
210	8.5
220	7
230	6
240	5.5
250	5
300	3
350	2
	·

Note: MS1H1 / MS1H4 motor = 3.5 x rated torque MS1H2 motor = 3 x rated torque MS1H3 (excluding 2.9 kW) = 2.5 x rated torque MS1H3 (2.9kW) = Max. 2 x rated torque

### Radial/axial allowable load

Motor model	Frame size (mm)	LF (mm)	Radial allowable load (N)	Axial allowable load (N)
MS1H1-05B30CB	40	20	78	54
MS1H1-10B30CB	40	20	78	54
MS1H1-20B30CB	60	25	245	74
MS1H1-40B30CB	60	25	245	74
MS1H1-55B30CB	80	35	392	147
MS1H1-75B30CB	80	35	392	147
MS1H1-10C30CB	80	35	382	147
MS1H2-10C30CB	100	45	686	196
MS1H2-10C30CD	100	45	686	196
MS1H2-15C30CB	100	45	686	196
MS1H2-15C30CD	100	45	686	196
MS1H2-20C30CD	100	45	686	196
MS1H2-25C30CD	100	45	686	196
MS1H2-30C30CD	130	63	980	392
MS1H2-40C30CD	130	63	1176	392
MS1H2-50C30CD	130	63	1176	392
MS1H3-85B15CB	130	45	686	196
MS1H3-13C15CB	130	45	686	196
MS1H3-85B15CD	130	45	686	196
MS1H3-13C15CD	130	45	686	196
MS1H3-18C15CD	130	45	686	196
MS1H3-29C15CD	180	79	1470	490
MS1H3-44C15CD	180	79	1470	490
MS1H3-55C15CD	180	113	1764	588
MS1H3-75C15CD	180	113	1764	588
MS1H4-40B30CB	60	25	245	74
MS1H4-75B30CB	80	35	392	147



## Quick selection chart

Servo	Servo		Type code cables		Type code
motor type	drive type	Encoder cable	Power cable without brake	Power cable with brake	connector kits (2)
MS1H1/MS1H4		Back outlet: S6x-L-P125- XX.X-yz(-INT) Front outlet: S6x-L-P124- XX.X-yz(-INT)	Back outlet: S6x-L-M108-XX.X-yz(-INT Front outlet: S6x-L-M107-XX.X-yz(-INT)	Back outlet: S6x-L-B108-XX.X-yz(-INT) Front outlet: S6x-L-B107-XX.X-yz(-INT)	S6-C22
MS1H2 < 4 kW	SV660	76.00.1 92( 111.7)	S6x-L-M111-XX.X-yz(-INT) S6x-L-M011-XX.X-yz(-INT) (1)	S6x-L-B111-XX.X-yz(-INT) S6x-L-B011-XX.X-yz(-INT) (1)	S6-C29 (3)
MS1H2 ≥ 4 kW		S6x-I -P121-XX.X-	S6x-L-M011-XX.X-yz(-INT)	S6x-L-B011-XX.X-yz(-INT)	S6-C29 (3)
MS1H3 ≤ 1.8 kW		yz(-INT)	S6x-L-M111-XX.X-yz(-INT)	S6x-L-B111-XX.X-yz(-INT)	S6-C29
MS1H3 2.9 kW			S6x-L-M112-XX.X-yz(-INT) S6x-L-M112-XX.X-yz(-INT)		S6-C39
MS1H3 > 2.9 kW			S6x-L-M022-XX.X-yz(-INT) S6x-L-B022-XX.X-yz(-INT)		S6-C39 (3)
MS1H1/MS1H4		Back outlet: S6x-L-P025- XX.X-yz(-INT) Front outlet: S6x-L-P024- XX.X-yz(-INT)	Back outlet: S6x-L-M108-XX.X-yz(-INT) Front outlet: S6x-L-M107-XX.X-yz(-INT)	Back outlet: S6x-L-B108-XX.X-yz(-INT) Front outlet: S6x-L-B107-XX.X-yz(-INT)	N/A
MS1H2	IS810N		S6x-L-M111-XX.X-yz(-INT)	S6x-L-B111-XX.X-yz(-INT)	S6-C29
MS1H3 ≤ 1.8 kW		S6x-L-P021-XX.X-	S6x-L-M111-XX.X-yz(-INT)	S6x-L-B111-XX.X-yz(-INT)	S6-C29
MS1H3 2.9 kW		yz(-INT)	S6x-L-M112-XX.X-yz(-INT)	S6x-L-B112-XX.X-yz(-INT)	S6-C39
MS1H3 > 2.9 kW		S6x-L-M122-XX.X-yz(-INT) S6x-L-B122-XX.X-yz(-INT)		S6-C39	
MS1H1/MS1H4		Back outlet: S6x-L-P125- XX.X-yz(-INT) Front outlet: S6x-L-P124- XX.X-yz(-INT)	Back outlet: S6x-L-M108-XX.X-yz(-INT) Front outlet: S6x-L-M107-XX.X-yz(-INT)	Back outlet: S6x-L-B108-XX.X-yz(-INT) Front outlet: S6x-L-B107-XX.X-yz(-INT)	S6-C22
MS1H2 < 4 kW	SV670		S6x-L-M111-XX.X-yz(-INT)	S6x-L-B111-XX.X-yz(-INT)	S6-C29
MS1H2 ≥ 4 kW	SV680	SV680         S6x-L-M111-XX.X-yz(-INT)         S6x-L-B111-XX.X-yz(-INT)           S6x-L-P121-XX.X-yz(-INT)         S6x-L-B111-XX.X-yz(-INT)           S6x-L-M111-XX.X-yz(-INT)         S6x-L-B111-XX.X-yz(-INT)           S6x-L-M112-XX.X-yz(-INT)         S6x-L-M112-XX.X-yz(-INT)		S6-C29	
MS1H3 ≤ 1.8 kW				S6-C29	
MS1H3 2.9 kW				S6x-L-M112-XX.X-yz(-INT)	S6-C39
MS1H3 > 2.9 kW			S6x-L-M022-XX.X-yz(-INT)	S6x-L-B022-XX.X-yz(-INT)	S6-C39
Notes:		,			
XX.X: Cable lengt	h in meters				
Back outlet is defa	ault selection of	the cables for MS1H1/MS1F			
MS1H1/H4 motors	s are with low p	rofile connectors (plastic) fication connectors (metal)			
S6x: Indicates cab E: Europe I: PVC internation		yz: T: PVC shielded, flexible, non oil resistant TO-INT: PVC shielded, flexible, oil resistant, CE certified, UL recognized US-INT: PUR shielded, flexible, oil resistant, CE certified, UL recognized"	yz: TS: PVC shielded, flexible, non oil resi TS-INT: PVC shielded, flexible, oil res US-INT: PUR shielded, flexible, oil res (1) When combined with SIZE E servo	istant, CE certified, UL recognized sistant, CE certified, UL recognized	(2) For customers making their own cable assemblies, connector kits shown here can be ordered separately (3) Bootlace ferrules supplied

For more detailed cable information, contact your local Inovance representative

10 11

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