



Lexium SH3/MH3/SHS

Servo motors for Lexium 62 and
Lexium 52 servo drives



Lexium

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Lexium servo drives, motors, and robotics series are designed for a broad range of motion-centric machines. From single-axis to high-performance multi-axis machines, the **Lexium** range enables high-speed movements and precise positioning in packaging, material handling, material working, electronics, and food and beverage applications.

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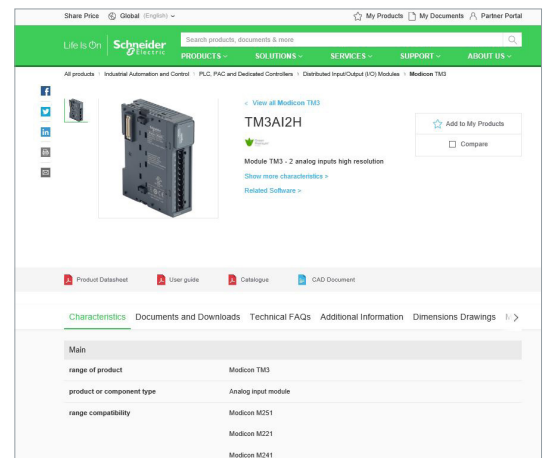
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References

Modicon TM3 I/O expansion modules for Modicon controllers
Analog I/O modules

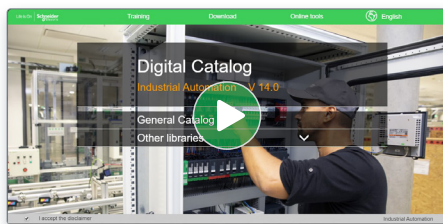
References	Input range	Resolution	Input terminal block (T)	Reference	Weight (kg)
2 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	16 000 or 16 000 + sign	0500	TM3A201	0.150
4 voltage/current inputs	-10...+10 VDC 0...+10 VDC 0...20 mA / -20 mA	12 000 or 11 000 + sign	0500.2 0500.2	TM3A401 TM3A402	0.200 0.200
4 voltage/current or temperature inputs (I, K, R, S, E, T, N, E, C)	Thermopile (I) I, K, R, S, E, T, N, E, C Temperature (C) PT100, PT1000 0...+10 VDC 0...20 mA / -20 mA	16 000 or 16 000 + sign	0500.15 0500.15	TM3A150 TM3A151	0.200 0.200
4 differential temperature inputs	Thermopile (I) I, K, R, S, E, T, N, E, C 0...+10 VDC 0...20 mA / -20 mA	16 000 or 16 000 + sign	0500.15 0500.15	TM3A150 TM3A151	0.200 0.200
4 voltage/current	-10...+10 VDC	12 000 or 11 000 + sign	0500	TM3A401	0.200



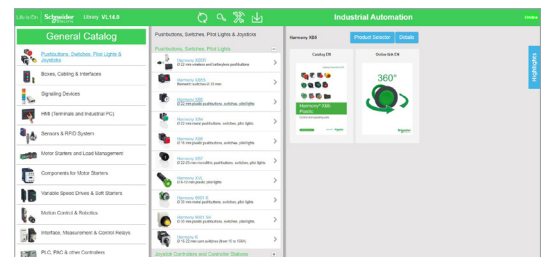
Each commercial reference presented in a catalog contains a hyperlink. Click on it to obtain the technical information of the product:

- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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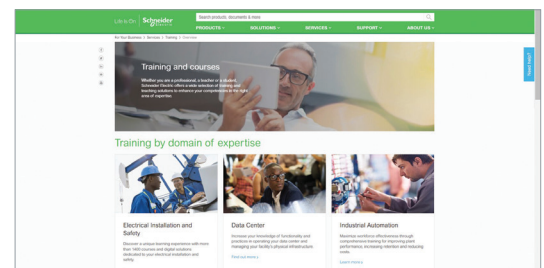


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To be competitive in today's digital era, machine builders must be innovative. Smart machines, those that are better connected, more flexible, more efficient, and safe, are enabling machine builders to innovate in ways never before possible.

EcoStruxure, Schneider Electric's open, IoT-enabled architecture and platform, offers powerful solutions for the digital era. As part of this, EcoStruxure Machine brings powerful opportunities for machine builders and OEMs, empowering them to offer smart machines and compete in the new, digital era.

EcoStruxure Machine brings together key technologies for product connectivity and edge control on premises, and cloud technologies to provide analytics and digital services. EcoStruxure Machine helps you bring more innovation and added value to your customers throughout the entire machine life cycle.

Innovation at Every Level for Machines is full systems across three layers:

- Connected products
Our connected products for measuring, actuating, device level monitoring, and control adhere to open standards to provide unmatched integration opportunities and flexibility
- Edge Control
We are IIoT-ready with a proven set of tested and validated reference architectures that enable the design of end-to-end open, connected, and inter-operable systems based on industry standards. Ethernet and OPC UA facilitates IT/OT convergence meaning machine builders reap benefits from web interfaces and cloud.

- Apps, Analytics & Services
Seamless integration of machines to the IT layer allows the collection and aggregation of data ready for analysis – for machine builders and end users alike this means increased uptime and the ability to find information faster for more efficient operations and maintenance.

These levels are completely integrated from shop floor to top floor. And we have cloud offers and end-to-end cybersecurity wrapped around.

EcoStruxure Machine makes it easier for OEMs/ machine builders to offer their customers smarter machines. The advent of smart machines is driven by the changing needs of end users:

- Evolving workforce
- Reducing costs
- Dynamic markets
- Shorter life cycles
- Prioritizing functional safety and cybersecurity

EcoStruxure Machine provides one solution for the whole machine life cycle:

- With Smart Design & Engineering the time to market is reduced by up to 30% using our automated engineering and the simulation capabilities
- During Commissioning & Operation of the machine, resources such as energy, material and loss can be improved, and with seamless integration to the IT world efficiency can be improved by up to 40%
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EcoStruxure™ Machine



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Lexium SH3/MH3/SHS

Servo motors for Lexium 62 / Lexium 52 servo drives

Lexium SH3 servo motors



SH3040●●●●●4●●●, SH3055●●●●●4●●●, SH3070●●●●●4●●●,
SH3100●●●●●4●●●, SH3140●●●●●4●●● (1)
One-Motor Cable connectivity




SH3040●●●●●4●●●, SH3055●●●●●3●●●, SH3070●●●●●3●●●,
SH3100●●●●●3●●●, SH3140●●●●●3●●●, SH3205●●●●●3●●●
(1)
Two-Motor Cable connectivity

Presentation

Lexium SH3 servo motors are an excellent solution to the need for dynamic performance, covering a continuous stall torque range from 0.2 to 94.4 Nm (0.15 to 69.62 lbf ft) for speeds up to 9,000 rpm.

Thanks to their new winding technology based on salient poles, Lexium SH3 servo motors are far more compact and offer a higher power density than conventional servo motors.

Lexium SH3 servo motors are UL Recognized  and conform to UL1004 as well as European directives (CE and UKCA marking).

They are available with the following variants:

- 6 flange sizes: 40, 55, 70, 100, 140 and 205 mm (1.57, 2.28, 2.76, 3.94, 5.51, and 8.07 in.)
- 2 degrees of protection for the shaft end:
 - IP 54 or IP 65 in accordance with IEC/EN 60529
 - The degree of protection provided by the casing is IP 65 (IP 67 with the conformity kit, which is available as an option).
- With or without holding brake
- Integrated single-turn or multi-turn Hiperface® SinCos encoder (medium or high resolution)
- Smooth or keyed shaft end

Flexible connectivity

Two connection technologies are proposed between servo drives and SH3 servo motors:

- **One-Motor Cable connectivity** with references SH3040, SH3055, SH3070, SH3100 and SH3140: Using a single cable, an hybrid cable including Motor and Encoder, to connect a motor to a Lexium 62 servo drive. Connection to motor is done through an angular turnable connector. The use of hybrid cables reduces effort for cable installation and cleaning.
- **Two-Motor Cable connectivity** with references SH3040, SH3055, SH3070, SH3100, SH3140, SH3205: Using two separate cables (Motor and Encoder cables) to connect a motor to a Lexium 62 or a Lexium 52 servo drive. Two types of connectors are available on motors: angular or straight connectors.

Hybrid cables, Motor cables, and Encoder cables are to be ordered separately, for connection to Lexium 52 and Lexium 62 servo drives. See [pages 14 to 17](#).

Schneider Electric has taken particular care with the compatibility of Lexium SH3 servo motors and Lexium 52/62 servo drives. This compatibility is enhanced when using equipped cables sold by Schneider Electric.

Special features

Lexium SH3 servo motors have been developed to comply with the following main specifications:

- Ambient operating temperature: - 20...+ 40 °C (- 4...+ 104 °F) without derating, in accordance with IEC 60721-3-3, category 3K3, and up to 55 °C (131 °F) with derating of 1% of the nominal output power per additional °C above 40 °C (104°F)
- Maximum operating altitude: 1,000 m (3,280 ft.) without derating, 2,000 m (6,561 ft.) with k = 0.86, and 3,000 m (9,842 ft.) with k = 0.8 (2).
- The relative humidity that the servo motor can withstand is in line with IEC 60721-3-3, categories 3K3, 3Z12, and 3Z2.
- The windings are insulation class F (maximum temperature for windings 155 °C (311 °F), in accordance with IEC 60034-1.
- All mounting positions are permitted (horizontal mounting (IMB5) or vertical mounting (IMV1 with shaft end at the top and IMV3 with shaft end at the bottom) in accordance with IEC 60034-7.

(1) For a complete reference, replace ● with digits or letters, see Reference table on page PD304/4

(2) k: derating factor

Lexium SH3/MH3/SHS

Servo motors for Lexium 62 / Lexium 52 servo drives

Lexium SH3 servo motors

Presentation (continued)

Integrated encoder

Lexium SH3 servo motors are equipped with a single-turn (131,072 points/turn) (1) or multi-turn (131,072 points/turn x 4,096 turns) (1) Hiperface® SinCos high-resolution absolute encoder, giving an angular shaft position that is precise to less than ± 1.3 arc minutes.

This encoder performs the following functions:

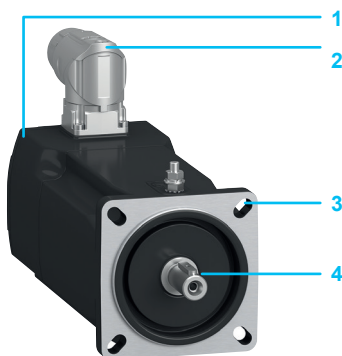
- Gives the absolute position of the motor to allow flow synchronization
- Measures the servo motor speed via the associated Lexium 52 or Lexium 62 servo drive (this information is used by the servo drive's speed controller)
- Measures the position information for the servo drive's position controller
- Sends data from the servo motor to the servo drive, which provides automatic identification of the motor when the servo drive starts

Free choice of Hiperface® SinCos and Hiperface® DSL encoders, with related motor connectivity: classic with Two-Motor Cable connection or DSL with One-Motor Cable connectivity

Holding brake

Lexium SH3 servo motors can be equipped with an electromagnetic holding brake.

⚠ Do not use the holding brake as a dynamic brake for deceleration, as this will quickly damage the brake.



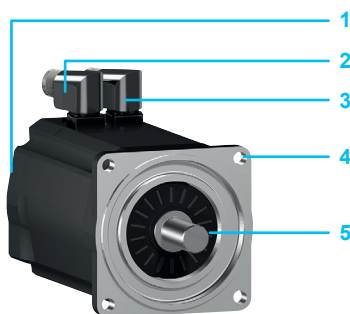
SH3070●●●●●●4●●● (2) servo motors

Description

■ One-Motor Cable connectivity

Lexium SH3 servo motors, with a 3-phase stator and a 6 to 10-pole rotor (depending on model) with Neodymium-Iron-Borium (NdFeB) magnets, consist of:

- 1 Casing with RAL 9005 opaque black paint protective coating
- 2 Threaded sealed male angular connector for the hybrid cable (3)
- 3 4-point axial mounting flange
- 4 Smooth or keyed shaft end (depending on the model)



SH3070●●●●●●2●●● (2) servo motors

■ Two-Motor Cable connectivity

Lexium SH3 servo motors, with a 3-phase stator and a 6 to 10-pole rotor (depending on model) with Neodymium-Iron-Borium (NdFeB) magnets, consist of:

- 1 Casing with RAL 9005 opaque black paint protective coating
- 2 Threaded sealed male angular connector for the Motor cable (2)
- 5 Threaded sealed male angular connector for the Encoder cable (control) (2)
- 4 4-point axial mounting flange
- 5 Smooth or keyed shaft end (depending on the model)

(1) Encoder resolution given for use with Lexium 52/62 servo drives.

(1) For a complete reference, replace ● with digits or letters, see Reference table on page PD304/4

(3) For other model with angular connector, see page 14 (One-Motor Cable connectivity) and 18 (Two-Motor Cable connectivity).

Lexium SH3 servo motors – References										
To order a Lexium SH3 servo motor, complete each reference with:										
		SH3	●●●	●	●	●	●	●	●	●●
Flange Size	40 mm (1.58 in.)	040								
	55 mm (2.17 in.)	055								
	70 mm (2.76 in.)	070								
	100 mm (3.94 in.)	100								
	140 mm (5.51 in.)	140								
	205 mm (8.07 in.)	205								
Stack Length	One stack (all flange sizes)		1							
	Two stacks (all flange sizes)		2							
	Three stacks (flange size 55, 70, 100, 140, 205 only)		3							
	Four stacks (flange size 100, 140 only)		4							
Winding	Medium speed (480 VAC) (1)					P				
Shaft end	Smooth shaft						0			
	Keyed shaft						1			
Encoder system	Absolute SinCos Single Turn - 128 traces per turn (SKS 36) (not for SH3040)							1		
	Absolute SinCos Multi Turn - 128 traces per turn (SKM 36) (not for SH3040)							2		
	Absolute SinCos Single Turn - 16 traces per turn (SEK 37) (for SH3040 only)							6		
	Absolute SinCos Multi Turn - 16 traces per turn (SEL 37) (for SH3040 only)							7		
	One-Motor Cable connectivity	Absolute Single Turn (Hiperface® DSL 18 bit EKS36) (not for SH3040)							A	
	Absolute Multi Turn (Hiperface® DSL 18 bit EKM36) (not for SH3040)								B	
	Absolute Single Turn Hiperface® DSL 15 bit EES37 (for SH3040 only)									C
	Absolute Multi Turn Hiperface® DSL 15 bit EEM37 (for SH3040 only)									D
Holding brake	Without brake								A	
	With brake								F	
Connection	Two-Motor Cable connectivity	Straight connectors								1
		Angular connectors								
	One-Motor Cable connectivity (DSL cable + Quick lock connector)	Angular turnable connector								
Degree of protection	Shaft IP54 without shaft sealing ring, housing IP65, convection									0
	Shaft IP65 with shaft sealing ring, housing IP65, convection									1
	Shaft IP65 with shaft sealing ring, housing IP67, convection (only for Two-Motor Cables size 55, 70, 100, 140, 205)									2
Motor type	Standard: 00/Custom versions: 01...99									00

Lexium SH3 servo motors – Dimensions							
One-Motor Cable connectivity and Two-Motor Cable connectivity							
Servo motors	Flange		W x H x D (2)				
	mm	in	Without holding brake		With holding brake		
	mm	in	mm	in	mm	in	
SH30401●●●●●●●●	40 x 40	1.57 x 1.57	40 x 73.4 x 98.4	1.57 x 2.88 x 3.87	40 x 99.4 x 124.4	1.57 x 3.91 x 4.89	
SH30402●●●●●●●●	40 x 40	1.57 x 1.57	40 x 93.4 x 118.4	1.57 x 3.67 x 4.66	40 x 119.4 x 144.4	1.57 x 4.70 x 5.68	
SH30551●●●●●●●●	55 x 55	2.16 x 2.16	55 x 94.5 x 132.5	2.16 x 3.72 x 5.22	55 x 94.5 x 159	2.16 x 3.72 x 6.26	
SH30552●●●●●●●●	55 x 55	2.16 x 2.16	55 x 94.5 x 154.5	2.16 x 3.72 x 6.08	55 x 94.5 x 181	2.16 x 3.72 x 7.13	
SH30553●●●●●●●●	55 x 55	2.16 x 2.16	55 x 94.5 x 176.5	2.16 x 3.72 x 6.95	55 x 94.5 x 203	2.16 x 3.72 x 7.99	
SH30701●●●●●●●●	70 x 70	2.76 x 2.76	70 x 111.5 x 154	2.76 x 4.39 x 6.06	70 x 111.5 x 180	2.76 x 4.39 x 7.09	
SH30702●●●●●●●●	70 x 70	2.76 x 2.76	70 x 111.5 x 187	2.76 x 4.39 x 7.36	70 x 111.5 x 213	2.76 x 4.39 x 8.39	
SH30703●●●●●●●●	70 x 70	2.76 x 2.76	70 x 111.5 x 220	2.76 x 4.39 x 8.66	70 x 111.5 x 254	2.76 x 4.39 x 10.00	
SH31001●●●●●●●●	100 x 100	3.94 x 3.94	100 x 138.5 x 169	3.94 x 5.45 x 6.65	100 x 138.5 x 200	3.94 x 5.45 x 7.87	
SH31002●●●●●●●●	100 x 100	3.94 x 3.94	100 x 138.5 x 205	3.94 x 5.45 x 8.07	100 x 138.5 x 236	3.94 x 5.45 x 9.29	
SH31003●●●●●●●●	100 x 100	3.94 x 3.94	100 x 138.5 x 241	3.94 x 5.45 x 9.49	100 x 138.5 x 272	3.94 x 5.45 x 10.71	
SH31004●●●●●●●●	100 x 100	3.94 x 3.94	100 x 138.5 x 277	3.94 x 5.45 x 10.91	100 x 138.5 x 308	3.94 x 5.45 x 12.13	
SH31401●●●●●●●●	140 x 140	5.51 x 5.51	140 x 178 x 218	5.51 x 7.01 x 8.58	140 x 178 x 256	5.51 x 7.01 x 10.08	
SH31402●●●●●●●●	140 x 140	5.51 x 5.51	140 x 192.5 (3) x 273	5.51 x 7.58 (3) x 10.75	140 x 192.5 (3) x 311	5.51 x 7.58 (3) x 12.24	
SH31403●●●●●●●●	140 x 140	5.51 x 5.51	140 x 192.5 (3) x 328	5.51 x 7.58 (3) x 12.91	140 x 192.5 (3) x 366	5.51 x 7.58 (3) x 14.41	
SH31404●●●●●●●●	140 x 140	5.51 x 5.51	140 x 192.5 (3) x 383	5.51 x 7.58 (3) x 15.08	140 x 192.5 (3) x 421	5.51 x 7.58 (3) x 16.58	
SH32051●●●●●●●●	205 x 205	8.07 x 8.07	205 x 259 x 321	8.07 x 10.20 x 12.64	205 x 259 x 370.5	8.07 x 10.20 x 14.59	
SH32052●●●●●●●●	205 x 205	8.07 x 8.07	205 x 259 x 405	8.07 x 10.20 x 15.94	205 x 259 x 454.5	8.07 x 10.20 x 17.89	
SH32053●●●●●●●●	205 x 205	8.07 x 8.07	205 x 259 x 489	8.07 x 10.20 x 19.25	205 x 259 x 538.5	8.07 x 10.20 x 21.20	

(1) Motors with P winding are available with the two technologies of connectivity: One-Motor Cable and Two-Motor Cable, except size 205 mm (8.07 in.) which is only available in Two-Motor Cable.

(2) D = motor length (excluding shaft end).

(3) 192.5 mm (7.58 in.) with straight connector, 198.5 mm (7.82 in.) with rotatable angular connector.

Lexium SH3 servo motors – Characteristics

The Lexium SH3 servo motors shown below are supplied without a gearbox. For GBX and GBY gearboxes, Please refer to our catalog Ref. [DIA3ED2160313EN](#).

Technical data														
Nominal servo motor output power		Continuous stall torque		Peak stall torque		Rated torque		Rated speed		Rotor moment of inertia without holding brake (with holding brake)		Reference Weight without holding brake (with holding brake)		
Pn	M0	Mmax		Mn		Nn		Nmax		Jm		kg	lb	
kW	hp	Nm	ft-lbf	Nm	ft-lbf	Nm	ft-lbf	rpm	rpm	kgcm ²				
0.17	0.2	0.21	0.2	0.75	0.55	0.18	0.1	9000	10000	0.0232 (0.0400)		SH30401P●●●●●●●● (1)	0.430 (0.580)	0.94 (1.27)
0.29	0.4	0.39	0.29	1.5	1.11	0.31	0.23	9000	10000	0.0419 (0.0588)		SH30402P●●●●●●●● (1)	0.570 (0.720)	1.25 (1.58)
0.29	0.4	0.42	0.31	1.5	1.1	0.35	0.29	8000	9000	0.057 (0.079)		SH30551P●●●●●●●● (1)	1.200 (1.350)	2.64 (2.97)
0.53	0.7	0.71	0.52	2.5	1.8	0.63	0.46	8000	9000	0.093 (0.115)		SH30552P●●●●●●●● (1)	1.500 (1.650)	3.31 (3.63)
0.68	0.92	1.05	0.77	3.5	2.6	0.81	0.60	8000	9000	0.130 (0.152)		SH30553P●●●●●●●● (1)	1.800 (1.950)	3.96 (4.29)
0.69	0.93	1.25	1.0	3.5	2.6	1.1	0.81	6000	8000	0.205 (0.318)		SH30701P●●●●●●●● (1)	2.100 (2.500)	4.62 (5.51)
1.13	1.54	2.04	1.5	7.6	5.6	1.8	1.32	6000	8000	0.351 (0.464)		SH30702P●●●●●●●● (1)	2.800 (3.200)	6.17 (7.05)
1.33	1.81	2.94	2.17	11.3	8.3	2.12	1.56	6000	8000	0.503 (0.616)		SH30703P●●●●●●●● (1)	3.600 (4.000)	7.93 (8.81)
1.19	1.62	2.94	2.77	9.6	7.1	2.27	0.67	5000	6000	1.100 (1.613)		SH31001P●●●●●●●● (1)	4.400 (4.900)	9.70 (10.80)
1.9	2.5	5.8	4.3	18.3	13.5	4.6	3.4	4000	6000	1.909 (2.422)		SH31002P●●●●●●●● (1)	5.900 (6.600)	13.00 (14.55)
2.4	3.2	8.0	5.9	28.3	20.8	5.7	4.2	4000	6000	2.718 (3.521)		SH31003P●●●●●●●● (1)	7.500 (8.200)	16.53 (18.07)
2.5	3.4	10.0	7.4	40.5	29.9	7.9	5.8	3000	6000	3.613 (4.416)		SH31004P●●●●●●●● (1)	9.100 (9.800)	20.06 (21.60)
2.9	3.9	11.1	8.2	27	1.5	9.2	6.8	3000	4000	6.941 (8.542)		SH31401P●●●●●●●● (1)	11.200 (12.600)	24.69 (27.77)
3.9	5.2	19.5	14.4	60.1	44.3	12.3	9.1	3000	4000	12.162 (14.824)		SH31402P●●●●●●●● (1)	16.100 (17.400)	35.49 (38.36)
4.05	5.4	27.8	20.5	90.2	66.5	12.9	9.5	3000	4000	17.383 (21.559)		SH31403P●●●●●●●● (1)	21.300 (23.200)	46.95 (51.14)
4.04	5.5	33.4	24.6	131.9	97.3	12.86	9.48	3000	4000	22.604 (26.794)		SH31404P●●●●●●●● (1)	26.300 (28.400)	57.98 (62.61)
5.5	7.4	36.9	27.2	110	81.1	17.5	12.9	3000	3800	71.40 (87.40)		SH32051P●●●●●●●● (2)	35.000 (38.600)	77.16 (85.1)
7.9	10.7	64.9	47.9	220	162.3	38.1	28.1	2000	3800	129 (145)		SH32052P●●●●●●●● (2)	50.000 (53.600)	110.23 (118.2)
10.6	14.2	94.4	69.6	330	243.4	50.7	37.4	2000	3800	190 (206)		SH32053P●●●●●●●● (2)	67.000 (70.600)	147.71 (155.65)

(1) Motors with P winding are available with the two technologies of connectivity: One-Motor Cable and Two-Motor Cable.

(2) Motors with P winding in size 205 mm (8.07 in.) are available only in Two-Motor Cable.

Lexium SH3 servo motor and Lexium 62 servo drive – Combinations											
Lexium 62 Servo Drives			Servo motors					Motor			
Reference	Inom		Ipeak		Reference	Size	Winding	Io	Inom	Ipeak	
	A @ 4 kHz	A @ 8 kHz	A @ 16 kHz	A							A
LXM62DU60C21000	2	2	1.2	6	SH3	0401	P	1.12	1.025	4.7	
LXM62DU60D21000						0402	P	1.5	1.17	6	
LXM62DU60E21000						0551	P	0.73	0.62	2.9	
LXM62DU60F21000						0552	P	1.2	1.1	4.8	
LXM62DU60G21000						0553	P	(1)	1.7	1.35	6.5
						0701	P	1.8	1.6	5.7	
LXM62DD15C21000	5	5	3.5	15	SH3	0702	P	2.9	2.6	11.8	
LXM62DD15D21000											
LXM62DD15E21000											
LXM62DD15F21000											
LXM62DD15G21000											
LXM62DD15C21000	5	5	3.5	15	SH3	0703	P	(1)	4.1	3	17
LXM62DD15D21000						1001	P	3.5	2.8	12	
LXM62DD15E21000						1002	P	(1)	4.8	3.8	17.1
LXM62DD15F21000											
LXM62DD15G21000											
LXM62DD27C21000	9	7	4	27	SH3	1003	P	(1)	6.6	4.9	28.3
LXM62DD27D21000						1004	P	(1)	6.2	5.3	32.3
LXM62DD27E21000						1401	P	7.8	6.8	20.8	
LXM62DD27F21000											
LXM62DD27G21000											
LXM62DD45C21000	20	15	8	45	SH3	1402	P	13.2	8.9	44.1	
LXM62DD45E21000						1403	P	(1)	17.6	8.7	61
LXM62DD45G21000											
LXM62DC13C21000	50	50	30	130	SH3	1404	P	21.3	9.2	95.6	
LXM62DC13E21000						2051	P	21	11.5	87.2	
or											
LXM62DD45C21000											
LXM62DD45E21000											
LXM62DD45G21000											
(1)											
LXM62DC13C21000	50	50	30	130	SH3	2052	P	25.7	17.8	96.8	
LXM62DC13E21000						2053	P	(1)	33.2	20.4	136.1

(1) Drive peak current lower than motor peak current.

Lexium SH3 servo motor and Lexium 52 servo drive – Combinations									
Lexium 52 Servo drives			Servo motors			Motor			
Reference	Reference		Size	Winding	I _o	I _{nom}	I _{peak}		
	I _{nom} A @ 8 kHz	I _{peak} A							
LXM52DU60C41000	1.5	6	SH3	0401	P	1.12	1.025	4.7	
				0402	P	1.5	1.17	6	
				0551	P	0.73	0.62	2.9	
				0552	P	1.2	1.1	4.8	
LXM52DD12C41000	3	12	SH3	0553	P	1.7	1.35	6.5	
				0701	P	1.8	1.6	5.7	
				0702	P	2.9	2.6	11.8	
LXM52DD18C41000	6	18	SH3	0703	P	4.1	3	17	
				1001	P	3.5	2.8	12	
				1002	P	4.8	3.8	17.1	
LXM52DD30C41000	10	30	SH3	1003	P	6.6	4.9	28.3	
				1004	P	(1)	6.2	5.3	32.3
				1401	P		7.8	6.8	20.8
LXM52DD72C41000	24	72	SH3	1004	P	6.2	5.3	32.3	
				1402	P	13.2	8.9	44.1	
				1403	P	17.6	8.7	61	
				1404	P	(1)	21.3	9.2	95.6
				2051	P	(1)	21	11.5	87.2
				2052	P	(1)+(2)	25.7	17.8	96.8
2053	P	(1)+(2)	33.2	20.4	136.1				

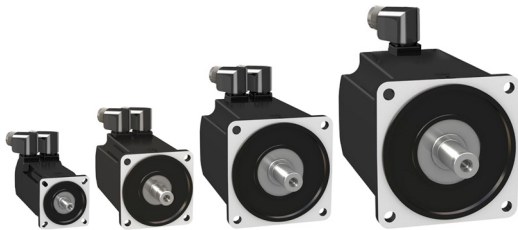
(1) Drive peak current lower than motor peak current.
 (2) Continuous torque limited by nominal drive current.

Lexium SH3 servo motor and Lexium 62 ILD detached servo drive – Combinations								
Lexium 62 ILD detached servo drives			Servo motors			Motor		
Reference	Reference		Size	Winding	I _o	I _{nom}	I _{peak}	
	I _{nom} A @ 8 kHz	I _{peak} A						
ILM62DDD24A1000	5	24	SH3	0401	P	1.12	1.025	4.7
ILM62DDD24C1000	6 (with cold plate)	24		0402	P	1.5	1.17	6
ILM62DDD24B1000	2,7	24		0551	P	0.73	0.62	2.9
ILM62DDD24D1000	4.4/6 (with cold plate)	24		0552	P	1.2	1.1	4.8
				0553	P	1.7	1.35	6.5
				0701	P	1.8	1.6	5.7
				0702	P	2.9	2.6	11.8
				0703	P	4.1	3	17
				1001	P	3.5	2.8	12
				1002	P	4.8	3.8	17.1

Lexium SH3/MH3/SHS

Servo motors for Lexium 62 / Lexium 52 servo drives

Lexium MH3 servo motors




Lexium MH3 servo motor range

Presentation

Lexium MH3 servo motors provide excellent power density values to meet the requirements of compact machines. With four flange sizes and three different lengths for each flange size, they are suitable for many applications, covering a continuous stall range from 1.4 to 65 Nm (1.0 to 47.9 lbf ft.) for speeds up to 6,000 rpm.

The Lexium MH3 servo motors have a medium inertia motor, which means they are particularly suitable for high-load applications.

They help to simplify installation and adjustment by providing robust adjustment of the movement.

Lexium MH3 servo motors are UL Recognized  and conform to UL1004 as well as European directives (CE and UKCA marking).

They are available with the following variants:

- 4 flange sizes: 70, 100, 140, and 190 mm (2.76, 3.94, 5.51, and 7.48 in.)
- Degree of protection:
 - IP 65 for the shaft end in accordance with IEC/EN 60529 (IP 67 with the conformity kit, which is available as an option)
 - IP 65 for the casing (IP 67 with the conformity kit, which is available as an option)
- With or without holding brake
- Angular connectors for motor and encoder connection
- Integrated single-turn or multi-turn Hiperface® SinCos encoder (medium or high resolution)
- Smooth or keyed shaft end

Special features

Lexium MH3 servo motors have been developed to comply with the following main specifications:

- The ambient operating temperature is - 20...+ 40 °C (- 4...+ 104 °F) without derating, in accordance with IEC 60721-3-3, category 3K3, and up to 55 °C (131 °F) with derating of 1% of the nominal output power per additional °C above 40 °C (104 °F).
- The maximum operating altitude is 1,000 m (3,280 ft.) without derating, 2,000 m (6,561 ft.) with k = 0.86, and 3,000 m (9,842 ft.) with k = 0.8 (1).
- The relative humidity that the servo motor can withstand is in line with IEC 60721-3-3, categories 3K3, 3Z12, and 3Z2.
- The windings are insulation class F (maximum temperature for windings 155 °C (311 °F) in accordance with IEC 60034-1.
- All mounting positions are permitted (horizontal mounting (IMB5) or vertical mounting (IMV1 with shaft end at the top and IMV3 with shaft end at the bottom) in accordance with IEC 60034-7.

Holding brake

Lexium MH3 servo motors can be equipped with an electromagnetic holding brake.

⚠ Do not use the holding brake as a dynamic brake for deceleration, as this will quickly damage the brake.

Integrated encoder

Lexium MH3 servo motors include an absolute encoder as standard equipment.

This encoder performs the following functions:

- Gives the absolute position of the motor to allow flow synchronization
- Measures the servo motor speed via the associated Lexium 52/62 servo drive (this information is used by the servo drive's speed controller)
- Measures the position information for the servo drive's position controller
- Sends data from the servo motor to the servo drive, which provides automatic identification of the motor when the servo drive starts

Four types of encoder are available:

- High resolution Hiperface® SinCos encoder:
 - Single-turn (131,072 points/turn) (2)
 - Multi-turn (131,072 points/turn x 4,096 turns) (2)
 These encoders give an angular shaft position that is precise to less than ± 1.3 arc minutes.
- Medium resolution Hiperface® SinCos encoder:
 - Single-turn (32,768 points/turn) (2)
 - Multi-turn (32,768 points/turn x 4,096 turns) (2)
 These encoders give an angular shaft position that is precise to less than ± 4.8 arc minutes.

(1) k: derating factor

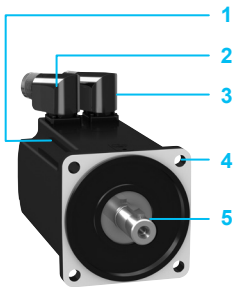
(2) Encoder resolution given for use with a Lexium 52 and Lexium 62 servo drives.

Lexium SH3/MH3/SHS

Servo motors for Lexium 62 / Lexium 52 servo drives

Lexium MH3 servo motors

Lexium MH3 servo motors – Description



Lexium MH3 servo motors, with a 3-phase stator and a 10-pole rotor with Neodymium-Iron-Boron (NdFeB) magnets, consist of:

- 1 Casing with RAL 9005 opaque black paint protective coating
- 2 Threaded sealed male angular connector for the Motor cable
- 3 Threaded sealed male angular connector for the Encoder cable (control)
- 4 4-point axial mounting flange
- 5 Smooth or keyed shaft end (depending on the model)

Cables and connectors (Two-Motor Cable connectivity) to be ordered separately, for connection to Lexium 52 and Lexium 62 servo drives. See [page 17](#).

Schneider Electric has taken particular care with the compatibility of Lexium MH3 servo motors and Lexium 52/62 servo drives. This compatibility is enhanced when using cables and connectors sold by Schneider Electric.

Lexium MH3 servo motors – References

To order a Lexium MH3 servo motor, complete each reference with:

	MH3	●●●	●	●	●	●	●	●	●●
Flange size	70 mm (2.76 in.)	070							
	100 mm (3.94 in.)	100							
	140 mm (5.51 in.)	140							
	190 mm (7.48 in.)	190							
Stack Length	1 stack		1						
	2 stacks		2						
	3 stacks		3						
Winding	Optimized in terms of torque and speed of rotation			P					
Shaft end	Smooth				0				
	Parallel key				1				
Integrated sensor <small>High resolution, optical</small>	Single-turn, Hiperface® SinCos □ 131.072 increments/revolution □ 128 Sin/Cos periods per revolution					1			
	Multi-turn, Hiperface® SinCos □ 131.072 increments/revolution x 4096 revolutions □ 128 Sin/Cos periods per revolution					2			
Integrated sensor <small>Medium resolution, optical</small>	Single-turn, Hiperface® SinCos □ 32.768 increments/revolution □ 16 Sin/Cos periods per revolution					6			
	Multi-turn, Hiperface® SinCos □ 32.768 increments/revolution x 4096 revolutions □ 16 Sin/Cos periods per revolution					7			
Holding brake	Without						A		
	With						F		
Connection	Angular connector 90°, can be rotated							2	
Degree of protection	IP65 (shaft/housing) (1)								2
Motor type	Standard								00

(1) IP 67 with the VW3M230● conformity kit, supplied as an option.

Lexium MH3 servo motors – Dimensions (overall)

Servo motors	Flange size		Width x Height x Depth (1)			
			Without integrated holding brake		With integrated holding brake	
	mm	in	mm	in	mm	in
MH30701P●●●●●●●●	70 x 70	2.76 x 2.76	70 x 109.5 x 122	2.76 x 4.31 x 4.80	70 x 109.5 x 161	2.76 x 4.31 x 6.34
MH30702P●●●●●●●●	70 x 70	2.76 x 2.76	70 x 109.5 x 154	2.76 x 4.31 x 6.06	70 x 109.5 x 193	2.76 x 4.31 x 7.60
MH30703P●●●●●●●●	70 x 70	2.76 x 2.76	70 x 109.5 x 186	2.76 x 4.31 x 7.32	70 x 109.5 x 225	2.76 x 4.31 x 8.86
MH31001P●●●●●●●●	100 x 100	3.94 x 3.94	100 x 139.5 x 128	3.94 x 5.49 x 5.04	100 x 139.5 x 170	3.94 x 5.49 x 6.69
MH31002P●●●●●●●●	100 x 100	3.94 x 3.94	100 x 139.5 x 160	3.94 x 5.49 x 6.30	100 x 139.5 x 202	3.94 x 5.49 x 7.95
MH31003P●●●●●●●●	100 x 100	3.94 x 3.94	100 x 139.5 x 192	3.94 x 5.49 x 7.56	100 x 139.5 x 234	3.94 x 5.49 x 9.21
MH31401P●●●●●●●●	140 x 140	5.51 x 5.51	140 x 179.5 x 152	5.51 x 7.07 x 5.98	140 x 179.5 x 187	5.51 x 7.07 x 7.36
MH31402P●●●●●●●●	140 x 140	5.51 x 5.51	140 x 179.5 x 192	5.51 x 7.07 x 7.56	140 x 179.5 x 227	5.51 x 7.07 x 8.94
MH31403P●●●●●●●●	140 x 140	5.51 x 5.51	140 x 179.5 x 232	5.51 x 7.07 x 9.13	140 x 179.5 x 267	5.51 x 7.07 x 10.51
MH31901P●●●●●●●●	190 x 190	5.51 x 5.51	190 x 257 x 190	7.48 x 10.12 x 7.48	190 x 257 x 248	7.48 x 10.12 x 9.76
MH31902P●●●●●●●●	190 x 190	7.48 x 7.48	190 x 257 x 250	7.48 x 10.12 x 9.84	190 x 257 x 308	7.48 x 10.12 x 12.13
MH31903P●●●●●●●●	190 x 190	7.48 x 7.48	190 x 257 x 310	7.48 x 10.12 x 12.21	190 x 257 x 368	7.48 x 10.12 x 14.49

(1) Depth: Housing dimensions (without shaft).

Lexium MH3 servo motors – Characteristics

The MH3 servo motors shown below are supplied without a gearbox. For GBX and GBY gearboxes, Please refer to our catalog Ref. [DIA3ED2160313EN](#)

Technical datas													
Nominal servo motor output power		Continuous stall torque		Peak stall torque		Rated torque		Rated speed		Rotor moment of inertia (without holding brake)	Reference	Weight without holding brake (with holding brake)	
Pn	M0	Mmax		Mn		Nn	Nmax	Jm					
kW	hp	Nm	ft-lbf	Nm	ft-lbf	Nm	ft-lbf	rpm	rpm	kgcm ²		kg	lb
0.750	1.0	1.4	1.0	4.2	3.1	1.3	0.9	5500	6000	0.59	MH30701P●●●●●●●●	1.600 (2.6000)	3.53 (5.73)
1.2	1.6	2.5	1.9	7.4	5.5	1.9	1.4	5500	6000	1.13	MH30702P●●●●●●●●	2.300 (3.300)	5.07 (7.28)
1.3	1.8	3.4	2.5	10.2	7.5	2.3	1.7	5000	6000	1.67	MH30703P●●●●●●●●	3.000 (4.000)	6.61 (8.82)
1.3	1.7	3.4	2.5	10.2	7.5	2.9	2.1	4000	6000	3.19	MH31001P●●●●●●●●	3.340 (4.800)	7.36 (10.58)
1.2	2.7	6	4.4	18	13.3	4.2	3.1	4000	6000	6.28	MH31002P●●●●●●●●	4.920 (6.400)	4.920 (14.11)
2.9	3.9	9	6.6	27	19.9	6.2	4.6	4000	6000	10.3	MH31003P●●●●●●●●	6.500 (8.150)	14.33 (17.97)
2.6	3.6	10.3	7.6	39.9	29.4	7.2	5.3	3500	4000	16.46	MH31401P●●●●●●●●	8.000 (10.300)	17.64 (22.71)
3.7	5.1	18.5	13.6	55.5	40.9	10.2	7.5	3500	4000	32	MH31402P●●●●●●●●	12.000 (14.300)	26.46 (31.53)
4.8	6.5	24	17.7	75	55.3	13.1	9.7	3500	4000	47.5	MH31403P●●●●●●●●	16.000 (18.500)	35.27 (40.79)
5.2	7.0	30	22.1	90	66.38	17.9	13.2	3000	4000	71.4	MH31901P●●●●●●●●	33.000 (37.900)	72.75 (83.56)
6.1	8.3	48	35.4	144	106.2	24.9	18.4	2000	4000	129	MH31902P●●●●●●●●	44.000 (48.900)	97.00 (107.81)
7.2	10.5	65	47.9	195	143.8	50.7	37.4	2000	3500	190	MH31903P●●●●●●●●	67.000 (71.900)	147.71 (158.51)

Lexium MH3 servo motor and Lexium 62 servo drive – Combinations

Lexium 62 servo drive Reference	Servo motors								Motor			
	Reference				Size	Winding	I _o A	I _{nom} A	I _{peak} A			
	I _{nom} A @ 4 kHz	A @ 8 kHz	I _{peak} A @ 16 kHz	A								
LXM62DU60C21000 LXM62DU60D21000 LXM62DU60E21000 LXM62DU60F21000 LXM62DU60G21000	2	2	1.2	6	MH3	0701	P	1.78	1.72	5.97		
LXM62DD15C21000 LXM62DD15D21000 LXM62DD15E21000 LXM62DD15F21000 LXM62DD15G21000	5	5	3.5	15	MH3	0702 0703 1001	P P P	2.94 3.91 3.15	2.49 3.02 2.82	9.68 12.57 11.20		
LXM62DD27C21000 LXM62DD27D21000 LXM62DD27E21000 LXM62DD27F21000 LXM62DD27G21000	9	7	4	27	MH3	1002	P	5.04	4.10	17.50		
LXM62DD45C21000 LXM62DD45E21000 LXM62DD45G21000	9	7	4	45	MH3	1003	P	7.69	6.07	26.71		
	20	15	8	45	MH3	1401	P	8.58	6.35	29.80		
LXM62DC13C21000 LXM62DC13E21000 or LXM62DD45C21000 LXM62DD45E21000 LXM62DD45G21000 (1)	50	50	30	130	MH3	1402 1403 1901	P P P	16.83 18.00 23.2	9.76 10.42 14.00	57.42 62.32 89.6		
LXM62DC13C21000 LXM62DC13E21000	50	50	30	130	MH3	1902 1903	P P	30.8 36.1	19.30 21.30	114 124.5		

(1) Drive peak current lower than motor peak current

Lexium SH3/MH3/SHS

Servo motors for Lexium 62 / Lexium 52 servo drives

Lexium MH3 servo motors

Lexium MH3 servo motor and Lexium 52 servo drive – Combinations								
Lexium 52 servo drive	Servo motors					Motor		
Reference	Reference		Reference		Reference			
	Inom	Ipeak	Size	Winding	Io	Inom	Ipeak	
	A @ 8 kHz	A			A	A	A	
LXM52DU60C41000	1.5	6	MH3 0701	P (1)	1.78	1.72	5.97	
LXM52DD12C41000	3	12	MH3 0702	P	2.94	2.49	9.68	
				P (2)	3.91	3.02	12.57	
				P	3.15	2.82	11.20	
LXM52DD18C41000	6	18	MH3 1002	P	5.04	4.10	17.50	
LXM52DD30C41000	10	30	MH3 1003	P	7.69	6.07	26.71	
				P	8.58	6.35	29.80	
LXM52DD72C41000	24	72	MH3 1402	P	16.83	9.76	57.42	
				P	18.00	10.42	62.32	
				P (2)	23.2	14.00	89.6	
				P (2)	30.8	19.30	114	
				P (2)	36.1	21.30	124.5	

(1) Continuous torque limited by nominal drive current.

(2) Drive peak current lower than motor peak current.

Lexium MH3 servo motor and Lexium 62 ILD detached servo drive – Combinations								
Lexium 62 ILD detached servo drives	Servo motors					Motor		
Reference	Reference		Reference		Reference			
	Inom	Ipeak	Size	Winding	Io	Inom	Ipeak	
	A @ 8 kHz	A			A	A	A	
ILM62DDD24A1000	5	24	MH3 0701	P	1.78	1.72	5.97	
ILM62DDD24C1000	6 (with cold plate)	24	0702	P	2.94	2.49	9.68	
ILM62DDD24B1000	2,7	24	0703	P	3.91	3.02	12.57	
ILM62DDD24D1000	4.4/6 (with cold plate)	24	1001	P	3.15	2.82	11.20	
				P	5.04	4.10	17.50	

Lexium SH3/MH3/SHS

Servo motors for Lexium 62 / Lexium 52 servo drives



Lexium SH3 servo motors: connection elements

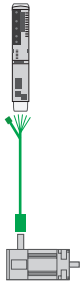
Cable selection by motor power class (One-Motor Cable connectivity)






Motor	Size	Stack	Hybrid cable (1)	Extension (1)	Power cross section	Connector size
SH3	40 mm	1-2	VW3ED132R●●●	VW3EF132R●●●	4x 1.5 mm ²	M17 9-pin Quick lock
	55 mm	1-2-3				
	70 mm	1-2-3	VW3ED143R●●●	VW3EF143R●●●		M23 9-pin Quick lock
	100 mm	1-2-3-4				
	140 mm	1-2	VW3ED144R●●●	VW3EF144R●●●	4x 2.5mm ²	M40 9-pin Quick lock
3-4		VW3ED145R●●●	VW3EF145R●●●			

(1) Replace ●●● with the length of the cable or extension, see following tables.

Hybrid cables (One-Motor Cable connectivity)

Designation	Description	From servo motor	To servo drive	Composition	Length		Reference	Weight						
					m	ft		kg	lb					
Hybrid cables for "One-Motor Cable connectivity" 	Shielded cables equipped with a Quick lock M17 connector (servo motor end) and an RJ45 connector for the Encoder and free leads for Motor and holding brake (servo drive end)	SH3 "One-Motor Cable"	Lexium 62	4x 1.5 mm ² + 2x 0.75 mm ² + 2x AWG 24	2	6.56	VW3ED132R020	0.460	1.01					
					3	9.84	VW3ED132R030	0.670	1.48					
					4	13.12	VW3ED132R040	0.880	1.94					
					5	16.40	VW3ED132R050	1.090	2.40					
					8	26.25	VW3ED132R080	1.720	3.79					
					10	32.81	VW3ED132R100	2.130	4.70					
					15	49.213	VW3ED132R150	3.180	7.01					
					20	65.617	VW3ED132R200	4.220	9.30					
					25	82.021	VW3ED132R250	5.270	11.62					
					30	98.425	VW3ED132R300	6.310	13.91					
					35	114.829	VW3ED132R350	7.360	16.23					
					40	131.234	VW3ED132R400	8.400	18.52					
					45	147.638	VW3ED132R450	9.450	20.83					
					50	164.042	VW3ED132R500	10.490	23.13					
						Shielded cables equipped with a Quick lock M23 connector (servo motor end) and an RJ45 connector for the Encoder and free leads for Motor and holding brake (servo drive end)	SH3 "One-Motor Cable"	Lexium 62	4x 1.5 mm ² + 2x 0.75 mm ² + 2x AWG 24	2	6.56	VW3ED143R020	0.570	1.26
										3	9.84	VW3ED143R030	0.780	1.72
										4	13.12	VW3ED143R040	0.990	2.18
5	16.40	VW3ED143R050	1.200	2.65										
8	26.25	VW3ED143R080	1.830	4.03										
10	32.81	VW3ED143R100	2.250	4.96										
15	49.213	VW3ED143R150	3.290	7.25										
20	65.617	VW3ED143R200	4.340	9.57										
25	82.021	VW3ED143R250	5.380	11.86										
30	98.425	VW3ED143R300	6.430	14.18										
35	114.829	VW3ED143R350	7.470	16.47										
40	131.234	VW3ED143R400	8.520	18.78										
45	147.638	VW3ED143R450	9.560	21.08										
50	164.042	VW3ED143R500	10.610	23.39										
		SH3 "One-Motor Cable"	Lexium 62	4x 2.5 mm ² + 2x 1.0 mm ² + 2x AWG 24						2	6.56	VW3ED144R020	0.730	1.61
										3	9.84	VW3ED144R030	1.010	2.23
										4	13.12	VW3ED144R040	1.300	2.87
					5	16.40	VW3ED144R050	1.590	3.51					
					8	26.25	VW3ED144R080	2.440	5.38					
					10	32.81	VW3ED144R100	3.020	6.66					
					15	49.213	VW3ED144R150	4.450	9.81					
					20	65.617	VW3ED144R200	5.880	12.96					
					25	82.021	VW3ED144R250	7.310	16.12					
					30	98.425	VW3ED144R300	8.740	19.27					
					35	114.829	VW3ED144R350	10.170	22.42					
					40	131.234	VW3ED144R400	11.600	25.57					
					45	147.638	VW3ED144R450	13.030	28.73					
					50	164.042	VW3ED144R500	14.460	31.88					

Hybrid cables (One-Motor Cable connectivity) (Continued)									
Designation	Description	From servo motor	To servo drive	Composition	Length		Reference	Weight	
					m	ft.		kg	lb
Hybrid cables for "One-Motor Cable connectivity" 	Shielded cables equipped with a Quick lock M40 connector (servo motor end) and an RJ45 connector for the Encoder and free leads for Motor and holding brake (servo drive end)	SH3 "One-Motor Cable"	LXM62DD15C21000	4x 2.5 mm ² + 2x 1.0 mm ² + 2x AWG 24	2	6.56	VW3ED145R020	1.020	2.25
			LXM62DD15G21000		3	9.84	VW3ED145R030	1.310	2.89
			LXM62DD15D21000		4	13.12	VW3ED145R040	1.590	3.51
			LXM62DD15E21000		5	16.40	VW3ED145R050	1.880	4.14
			LXM62DD15H21000		8	26.25	VW3ED145R080	2.740	6.04
			LXM62DD15F21000		10	32.81	VW3ED145R100	3.310	7.30
			LXM62DD27C21000		15	49.213	VW3ED145R150	4.740	10.45
			LXM62DD27G21000		20	65.617	VW3ED145R200	6.170	13.60
			LXM62DD27D21000		25	82.021	VW3ED145R250	7.600	16.76
			LXM62DD27E21000		30	98.425	VW3ED145R300	9.030	19.91
			LXM62DD27H21000		35	114.829	VW3ED145R350	10.460	23.06
			LXM62DD27F21000		40	131.234	VW3ED145R400	11.890	26.21
					45	147.638	VW3ED145R450	13.320	29.37
					50	164.042	VW3ED145R500	14.750	32.52

Hybrid cable extensions (One-Motor Cable connectivity)									
Designation	Description	For use with cables	Length		Reference	Weight			
			m	ft.		kg	lb		
Hybrid cable extensions for "One-Motor Cable connectivity" 	Shielded cables equipped with two Quick lock M17 male/female connectors 	VW3ED132R●●● cables	5	16.40	VW3EF132R050	1.110	2.45		
			10	32.81	VW3EF132R100	2.160	4.76		
			15	49.213	VW3EF132R150	3.200	7.05		
			20	65.617	VW3EF132R200	4.250	9.37		
			30	98.425	VW3EF132R300	6.340	13.98		
			40	131.234	VW3EF132R400	8.430	18.58		
			50	164.042	VW3EF132R500	10.520	23.19		
			Shielded cables equipped with two Quick lock M23 male/female connectors 	VW3ED143R●●● cables	5	16.40	VW3EF143R050	1.320	2.91
					10	32.81	VW3EF143R100	2.370	5.22
					15	49.213	VW3EF143R150	3.300	7.28
					20	65.617	VW3EF143R200	4.460	9.83
					30	98.425	VW3EF143R300	6.550	14.44
					40	131.234	VW3EF143R400	8.640	19.05
					50	164.042	VW3EF143R500	10.730	23.66
					Shielded cables equipped with two Quick lock M23 male/female connectors 	VW3ED144R●●● cables	5	16.40	VW3EF144R050
10	32.81	VW3EF144R100					3.140	6.92	
15	49.213	VW3EF144R150					4.400	9.70	
20	65.617	VW3EF144R200					6.000	13.23	
30	98.425	VW3EF144R300					8.860	19.53	
40	131.234	VW3EF144R400					11.720	25.84	
50	164.042	VW3EF144R500					14.580	32.14	
Shielded cables equipped with two Quick lock M40 male/female connectors 	VW3ED145R●●● cables	5					16.40	VW3EF145R050	2.360
		10	32.81	VW3EF145R100			3.790	8.36	
		15	49.213	VW3EF145R150			4.700	10.36	
		20	65.617	VW3EF145R200			6.650	14.66	
		30	98.425	VW3EF145R300			9.510	20.97	
		40	131.234	VW3EF145R400			12.370	27.27	
		50	164.042	VW3EF145R500			15.230	33.58	

Lexium SH3/MH3/SHS

Servo motors for Lexium 62 / Lexium 52 servo drives

Lexium SH3/MH3 servo motors: connection elements

Cable selection by motor power class (Two-Motor Cable connectivity)							
Motor	Size	Stack	Power cable (1)	Encoder cable (1)	Power cable cross section	Power Connector	Encoder Connector
SH3	40 mm	1-2	VW3E1166R●●●	VW3E2098R●●●	4x 1.0 mm ²	y-tec	y-tec
	55 mm	1-2-3	VW3E1143R●●●	VW3E2094R●●●	4x 1.5 mm ²	M23 8-pin (power)	M23 12-pin (encoder)
	70 mm	1-2-3					
	100 mm	1-2-3-4					
	140 mm	1-2	VW3E1144R●●●		4x 2.5 mm ²	M40 8-pin (power)	
		3-4	VW3E1145R●●●		4x 2.5 mm ²		
205 mm	1-2	VW3E1153R●●●	4x 4.0 mm ²		M40 8-pin (power)		
	3	VW3E1154R●●●	4x 10.0 mm ²				
MH3	70 mm	1-2-3	VW3E1143R●●●	VW3E2094R●●●	4x 1.5 mm ²	M23 8-pin (power)	M23 12-pin (encoder)
	100 mm	1-2-3	VW3E1144R●●●		4x 2.5 mm ²	M40 8-pin (power)	
	140 mm	1-2-3			VW3E1153R●●●		
		1			VW3E1154R●●●	4x 10.0 mm ²	
		2	VW3E1154R●●●		4x 10.0 mm ²	M40 8-pin (power)	
	190 mm	3					

(1) Replace ●●● with the length of the cable or extension, see following tables.

Motor cables (Two-Motor Cable connectivity)

Designation	Description	From servo motor	To servo drive	Composition (mm ² /inch ²)	Length		Reference	Weight			
					m	ft		kg	lb		
Motor cables	Shielded cables equipped with an M23 industrial connector (servo motor end) and a free end (servo drive end)	SH3/MH3	Lexium 52 Lexium 62	1.5/0.002	5	16.404	VW3E1143R050	1.367	3.01		
					10	32.808	VW3E1143R100	2.602	5.74		
					15	49.213	VW3E1143R150	3.837	8.46		
					20	65.617	VW3E1143R200	5.072	11.18		
					25	82.021	VW3E1143R250	6.307	13.90		
					30	98.425	VW3E1143R300	7.542	16.63		
					40	131.234	VW3E1143R400	10.012	22.07		
					50	164.042	VW3E1143R500	12.482	27.52		
					5	16.404	VW3E1144R050	1.712	3.77		
					10	32.808	VW3E1144R100	3.292	7.26		
					15	49.213	VW3E1144R150	4.872	10.74		
					20	65.617	VW3E1144R200	6.452	14.22		
					25	82.021	VW3E1144R250	8.032	17.71		
					30	98.425	VW3E1144R300	9.612	21.19		
					40	131.234	VW3E1144R400	12.772	28.16		
					50	164.042	VW3E1144R500	15.932	35.12		
Motor cables	Shielded cables equipped with an M40 industrial connector (servo motor end) and a free end (servo drive end)	SH3/MH3	Lexium 52 Lexium 62	2.5/0.004	5	16.404	VW3E1145R050	1.995	4.40		
					10	32.808	VW3E1145R100	3.575	7.88		
					15	49.213	VW3E1145R150	5.155	11.36		
					20	65.617	VW3E1145R200	6.735	14.85		
					25	82.021	VW3E1145R250	8.315	18.33		
					30	98.425	VW3E1145R300	9.895	21.81		
					40	131.234	VW3E1145R400	13.055	28.78		
					50	164.042	VW3E1145R500	16.215	35.75		
					Lexium 52 Lexium 62	4/0.006	5	16.404	VW3E1153R050	2.513	5.54
							10	32.808	VW3E1153R100	5.000	11.02
		15	49.213	VW3E1153R150			7.413	16.34			
		20	65.617	VW3E1153R200			9.870	21.76			
		25	82.021	VW3E1153R250			12.313	27.15			
		30	98.425	VW3E1153R300			14.763	32.55			
		40	131.234	VW3E1153R400			19.663	43.35			
		50	164.042	VW3E1153R500			24.563	54.15			
		Lexium 52 Lexium 62	10/0.016	5			16.404	VW3E1154R050	4.832	10.65	
				10			32.808	VW3E1154R100	9.232	20.35	
				15	49.213	VW3E1154R150	13.632	30.05			
				20	65.617	VW3E1154R200	18.032	39.75			
25	82.021			VW3E1154R250	22.432	49.45					
30	98.425			VW3E1154R300	26.832	59.15					
40	131.234			VW3E1154R400	35.632	78.56					
50	164.042			VW3E1154R500	44.432	97.96					
SH3	Shielded cables equipped with one y-tec industrial connector (servo motor end) and a free end (servo drive end)			Lexium 52 Lexium 62	[[4x 1 mm ² / AWG 17) + (2x 0.75 mm ² / AWG 18)]]	3	9.84	VW3E1166R030	0.810	1.786	
						5	16.404	VW3E1166R050	1.210	2.668	
		10	32.808			VW3E1166R100	2.290	5.049			
		15	49.213			VW3E1166R150	3.400	7.496			
		25	82.021			VW3E1166R250	6.200	13.669			

Lexium SH3/MH3/SHS

Servo motors for Lexium 62 / Lexium 52 servo drives

Lexium SH3/MH3 servo motors: connection elements

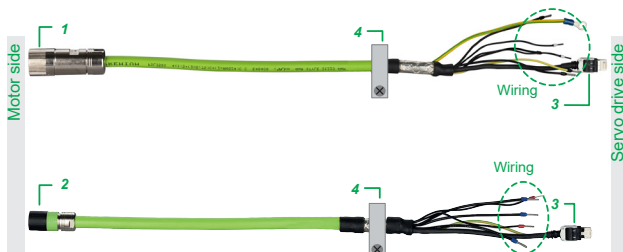
Encoder cables (Two-Motor Cable connectivity)

Designation	Description	From servo motor	To servo drive	Composition	Length		Reference	Weight					
					m	ft		kg	lb				
Encoder cables (feedback)	Shielded encoder cables (Hiperface® SinCos) equipped with an M23 industrial connector (servo motor end) and an RJ45 connector with 8+2 contacts (servo drive end)	SH3/MH3	Lexium 52 Lexium 62	3x 2 x 0.14 mm ² + 2x 0.34 mm ²	5	16.404	VW3E2094R050	0.415	0.91				
					10	32.808	VW3E2094R100	0.745	1.64				
					15	49.213	VW3E2094R150	1.075	2.37				
					20	65.617	VW3E2094R200	1.405	3.10				
					25	82.021	VW3E2094R250	1.735	3.83				
					30	98.425	VW3E2094R300	2.065	4.55				
					40	131.234	VW3E2094R400	2.725	6.01				
					50	164.042	VW3E2094R500	3.385	7.46				
					Shielded encoder cables (Hiperface® SinCos) equipped with a y-tec industrial connector (servo motor end) and an RJ45 connector with 8+2 contacts (servo drive end)	SH3	Lexium 52 Lexium 62	3x 2 x 0.14 mm ² / AWG 26 + 2 x 0.34 mm ² / AWG 22	3	9.84	VW3E2098R030	0.500	1.102
									5	16.404	VW3E2098R050	0.600	1.323
10	32.808	VW3E2098R100	0.900	1.984									
15	49.213	VW3E2098R150	1.100	2.425									
25	82.021	VW3E2098R250	1.700	3.748									



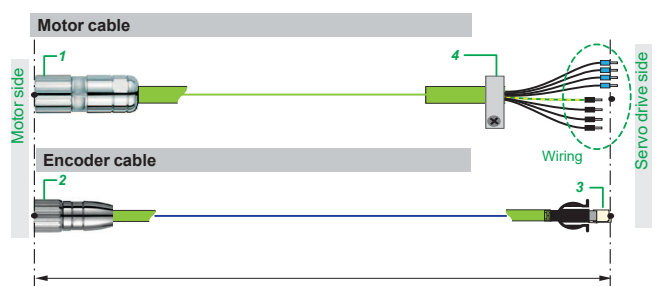
Connection description

Hybrid cables for SH3 servo motors (One-Motor Cable connectivity)



- 1 Quick lock M23/M40 connector
- 2 Quick lock i-tec connector
- 3 RJ45 connector
- 4 Mounting clamp for shield connection (supplied with servo drives)

Motor cables, Encoder cables for SH3 and MH3 servo motors (Two-Motor Cable connectivity)



- 1 M23/M40 connector
- 2 M23 signal connector
- 3 RJ45 connector
- 4 Mounting clamp for shield connection (supplied with servo drives)

IP 67 conformity kits for Lexium MH3 servo motors

Designation	Use with	Reference	Weight kg/lb
Cask cover Supplied as an option to provide IP 67 degree of protection to MH3 servo motors, mounted in place of the motor backplate	MH3070●●	VW3M2301	0.100/ 0.220
	MH3100●●	VW3M2302	0.150/ 0.331
	MH3140●●	VW3M2303	0.300/ 0.661
Push-in L-fitting to create a defined overpressure inside the motor	MH3190●●	Sold by Festo AG under reference QSML-B-M3-4	–



VW3M2301
VW3M2302
VW3M2303

Lexium SH3/MH3/SHS

Servo motors for Lexium 62/52 servo drives

Lexium SHS servo motors



Flange: 58 mm



Flange: 71 mm



Flange: 100 mm

Presentation

Lexium SHS servo motors are stainless steel servo motors that are based on Lexium SH3 servo motors and designed for a high-torque output with relatively low current consumption in a stainless steel jacket.

Lexium SHS stainless steel servo motors and hybrid cable are the ideal choice to meet the requirements for dynamics, precision, and surroundings in the food and pharma industries.

Seven different types of Lexium SHS servo motors are available, in the following variants:

- 3 flange sizes: 58, 71, and 100 mm
- Peak Torque: 3.2 to 28.3 Nm (2.36 to 20.87 ft-lbf)
- Available speed: up to 6000 rpm
- Equipped with multi-turn encoder and optionally with holding brake
- Laser marking of identification label

One-Motor Cable connectivity

The range of stainless steel motors has been designed with hybrid cable to connect a motor to a servo drive based on a One-Motor Cable connectivity. The use of hybrid cables reduces effort for cable installation and cleaning.

Applications

Lexium SHS servo motors are suitable for machines used in the food industry, which may have special requirements for materials, surfaces, soiled edges, and cleaning all parts of the machine.

General functions

Lexium SHS servo motors offer the following features:

- Overload protection with an integrated temperature sensor (external evaluation required)
- Low moment of inertia
- Excellent dynamics
- Stainless steel surface: fewer “soiled edges”, easy cleaning (CIP), hygienic design
- Certification to CE, UKCA, UL, and CSA
- Construction in accordance with EHEDG Guidelines
- Stainless steel motors are integrated in ECAM Database
- Degree of protection: IP 67 and IP 69k (shaft and housing)
- High overload capability
- Easy commissioning through electronic type plate and low maintenance
- Lexium SHS motors can be operated with Lexium 62, Lexium 52, and partly for Lexium 32.
- Suitable hybrid cables are available for each drive. See [page 20](#)

Holding brake

The Lexium SHS servo motors (FCE200521B200, FCE200522B200 and FCE200523B200) are equipped with a failsafe electro-magnetic holding brake.

⚠ Do not use the holding brake as a dynamic brake for deceleration, as this will quickly damage the brake.

Integrated encoder

Lexium SHS servo motors are fitted with a Hiperface® SinCos high-resolution multi-turn (131,072 points/turn x 4096 turns) encoder providing angular precision of the shaft position, accurate to less than ± 1.3 arc minute (0.021°). This performs the following functions:

- Gives the absolute motor position to allow flow synchronization
- Measures the position information for the servo drive controller
- Sends data from the servo motor to the servo drive, which allows automatic identification of the motor when the servo drive starts

Lexium SHS servo motor – References

Technical datas														
Nominal servo motor output power		Continuous stall torque		Rated torque		Peak stall torque		Rated speed		Rotor moment of inertia (without holding brake)	Reference	Weight		
Pn		M0		Mn		Mmax		Nn		Nmax	Jm			
kW	hp	Nm	ft-lbf	Nm	ft-lbf	Nm	ft-lbf	rpm	rpm		kgcm ²	kg	lb	
0.3	0.4	0.9	0.66	0.79	0.58	3.2	2.4	4000	9000		0.13	FCE200519B200 (1)	2.200	4.85
0.9	1.2	2.0	1.47	1.4	1.03	7.6	5.6	6000	8000		0.41	FCE200520B200 (1)	6.400	14.11
1.0	1.3	2.5	1.84	1.55	1.14	10.3	7.6	6000	8000		0.81	FCE200521B200 (2)	7.200	18.87
0.8	1.1	4.65	3.42	3.85	2.83	18.3	13.5	2000	8000		2.93	FCE200522B200 (2)	8.800	19.40
1.3	1.7	6.75	4.97	3.0	2.21	28.3	20.9	4000	6000		3.22	FCE200523B200 (2)	10.000	22.05
1.0	1.3	2.5	1.84	1.55	1.14	10.3	7.6	6000	6000		0.58	FCE200524B200 (1)	7.100	15.65
0.8	1.1	4.65	3.42	4.0	2.95	18.3	13.5	2000	6000		2.31	FCE200525B200 (1)	8.700	19.18

(1) Motor without holding brake.

(2) Motor with holding brake.

Lexium SHS servo motors – Dimensions

Dimensions (overall)				
Servo motors	Flange		W x H x D (D = motor length, excluding shaft end)	
	mm	in	mm	in
FCE200519B200	58 x 58	2.3 x 2.3	58 x 64 x 225.1	2.3 x 2.5 x 8.9
FCE200520B200	71 x 71	2.8 x 2.8	71 x 112 x 216.7	2.8 x 4.4 x 8.5
FCE200524B200	71 x 71	2.8 x 2.8	71 x 112 x 284	2.8 x 4.4 x 11.2
FCE200521B200	71 x 71	2.8 x 2.8	71 x 112 x 284	2.8 x 4.4 x 11.2
FCE200525B200	100 x 100	3.94 x 3.94	100 x 138 x 270.7	3.94 x 5.4 x 10.7
FCE200522B200	100 x 100	3.94 x 3.94	100 x 138 x 270.7	3.94 x 5.4 x 10.7
FCE200523B200	100 x 100	3.94 x 3.94	100 x 138 x 306.7	3.94 x 5.4 x 12.1

Lexium SHS servo motor and Lexium 62 servo drive – Combinations

Lexium 62 Servo Drives		Servo motors				Motor		
Reference	Reference				lo	Inom	Ipeak	
	Inom		Ipeak					
	A @ 4 kHz	A @ 8 kHz	A @ 16 kHz	A				
LXM62DU60C21000	2	2	1.2	6	FCE200519B200	0.8	1.35	3.4 (1)
LXM62DU60D21000					FCE200521B200	3.6	1.9	15.2 (1)+(2)
LXM62DU60E21000								
LXM62DU60F21000								
LXM62DU60G21000								
LXM62DD15C21000	5	5	1.2	15	FCE200520B200	2.9	2.6	11.8
LXM62DD15D21000	5	5	3.5	15	FCE200522B200	2.2	2.3	9.0
LXM62DD15E21000	5	5	3.5	15	FCE200523B200	5.7	3	28.3 (1)
LXM62DD15F21000	5	5	3.5	15	FCE200524B200	3.6	3.8	15.2 (1)
LXM62DD15G21000	5	5	3.5	15	FCE200525B200	2.2	3.1	9.0

Lexium SHS servo motor and Lexium 52 servo drive – Combinations

Lexium 52 Servo drives		Servo motors					
Reference	Reference				lo	Inom	Ipeak
	A @ 8 kHz						
LXM52DD12C41000	3	FCE200519B200		0.8	1.35	3.4	
		FCE200520B200		2.9	2.6	11.8	
		FCE200521B200		3.6	1.9	15.2	
		FCE200522B200		2.2	2.3	9.0	
LXM52DD18C41000	6	FCE200523B200		5.7	3	28.3	
		FCE200524B200		3.6	3.8	15.2	
		FCE200525B200		2.2	3.1	9.0	

(1) Drive peak current lower than motor peak current

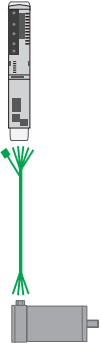
(2) Continuous torque limited by nominal drive current

Lexium SH3/MH3/SHS

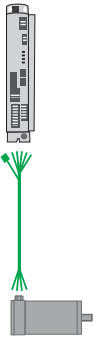
Servo motors for Lexium 62/52 servo drives

Lexium SHS servo motors: connection elements

Hybrid cables (One-Motor Cable connectivity)

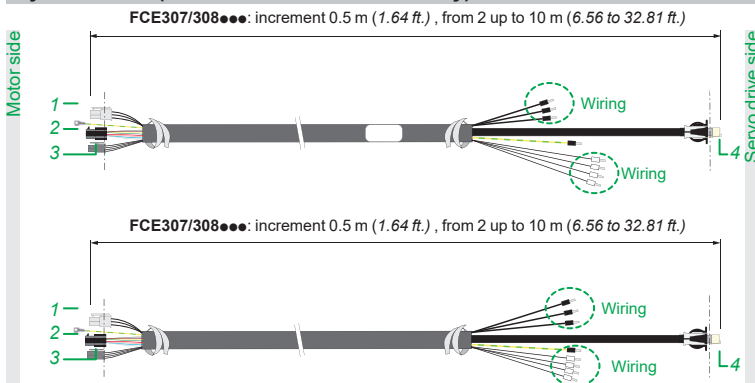
Designation	Composition	Connector		Length		Reference	Weight		
		Motor side	Servo drive side	m	ft		kg	lb	
Hybrid cables for Lexium SHS servo motors and Lexium 62 servo drives									
Hybrid cables (shielded motor and encoder cable) 	(4x 1.5 mm ² /0.002 in ²) + 2x (2x 0.75 mm ² /0.001 in ²) + 2x 0.34 mm ² /0.0005 in ²) + 3x (2x 0.15 mm ² /0.001 in ²)	Molex connectors	RJ45 (PD-3) connector for Encoder signal	Wires for motor and holding brake connector	2	6.56	FCE307020A200	0.743	1.64
					2.5	8.20	FCE307025A200	0.909	2.0
					3	9.84	FCE307030A200	1.074	2.37
					3.5	11.48	FCE307035A200	1.240	2.73
					4	13.12	FCE307040A200	1.405	3.10
					4.5	14.76	FCE307045A200	1.571	3.46
					5	16.40	FCE307050A200	1.736	3.83
					5.5	18.04	FCE307055A200	1.902	4.19
					6	19.69	FCE307060A200	2.067	4.56
					6.5	21.33	FCE307065A200	2.233	4.92
					7	22.97	FCE307070A200	2.398	5.29
					7.5	24.61	FCE307075A200	2.564	5.65
8	26.25	FCE307080A200	2.729	6.02					
8.5	27.89	FCE307085A200	2.895	6.38					
9	29.53	FCE307090A200	3.060	6.75					
9.5	31.17	FCE307095A200	3.226	7.11					
10.0	32.81	FCE307100A200	3.391	7.48					

Hybrid cables for Lexium SHS servo motors and Lexium 52 servo drives

Hybrid cables (shielded motor and encoder cable) 	(4x 1.5 mm ² /0.002 in ²) + 2x (2x 0.75 mm ² /0.001 in ²) + 2x 0.34 mm ² /0.0005 in ²) + 3x (2x 0.15 mm ² /0.001 in ²)	Molex connectors	RJ45 (PD-3) connector for Encoder signal	Wires for motor and holding brake connector	2	6.56	FCE308020A200	0.743	1.64
					2.5	8.20	FCE308025A200	0.909	2.0
					3	9.84	FCE308030A200	1.074	2.37
					3.5	11.48	FCE308035A200	1.240	2.73
					4	13.12	FCE308040A200	1.405	3.10
					4.5	14.76	FCE308045A200	1.571	3.46
					5	16.40	FCE308050A200	1.736	3.83
					5.5	18.04	FCE308055A200	1.902	4.19
					6	19.69	FCE308060A200	2.067	4.56
					6.5	21.33	FCE308065A200	2.233	4.92
					7	22.97	FCE308070A200	2.398	5.29
					7.5	24.61	FCE308075A200	2.564	5.65
8	26.25	FCE308080A200	2.729	6.02					
8.5	27.89	FCE308085A200	2.895	6.38					
9	29.53	FCE308090A200	3.060	6.75					
9.5	31.17	FCE308095A200	3.226	7.11					
10.0	32.81	FCE308100A200	3.391	7.48					

Connection Description

Hybrid cables (One-Motor Cable connectivity)

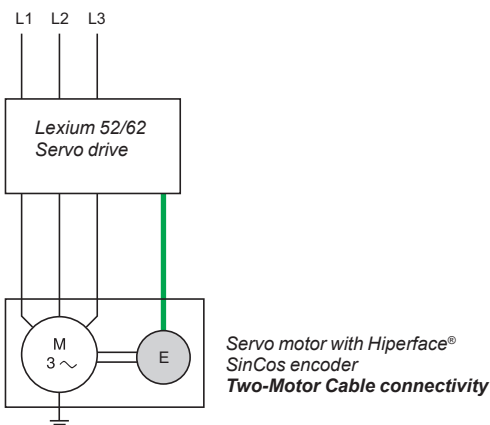
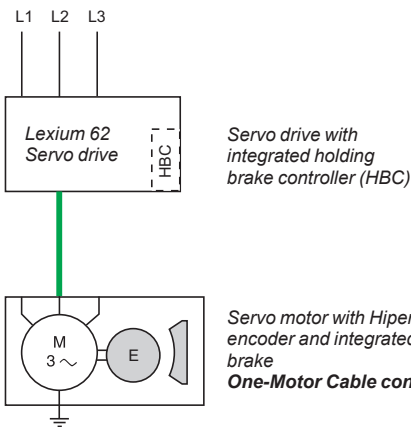
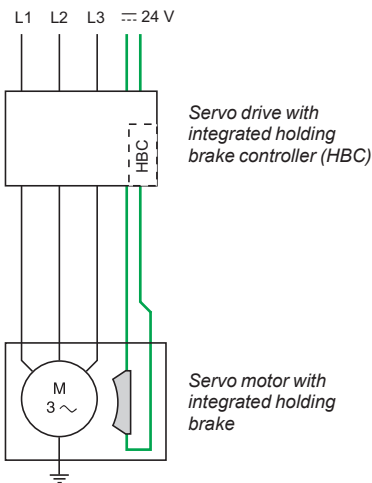


- 1 Socket strip MINIFIT JR 2x2 with clip
- 2 Molex plug MICROFIT 8-pin
- 3 Socket strip MINIFIT JR 2x2 with clip
- 4 RJ45 cable plug

Lexium SH3/MH3/SHS

Servo motors for Lexium 62/52 servo drives

Options: Holding brake, Encoder, Planetary gearboxes



[DIA3ED2160313EN](#)

Holding Brake for Lexium SH3/MH3/SHS servo motors

The holding brake integrated in the servo motor is an electromagnetic pressure spring brake that blocks the servo motor axis once the output current has been switched off.

The standard configuration of the servo drive integrates a holding brake controller, which amplifies the braking control signal to quickly deactivate the brake.

Applications

In the event of an emergency, such as a power outage or operation of an emergency stop button, the drive is immobilized, thus significantly increasing safety.

The servo motor axis must also be blocked in the event of torque overload, such as vertical axis movement.

Encoder for Lexium SH3/MH3/SHS servo motors

Applications

This interface can be used for:

- Automatic identification of Lexium servo motor data by the servo drive
- Automatic initialization of the servo drive's control loops, to simplify installation of the motion control device

One-Motor Cable connectivity

(SH3 servo motors with Lexium 62 servo drives)

The technology consists in using a single hybrid cable including Motor power, Brake and Encoder signals to connect a motor to a Lexium 62 servo drive. The use of hybrid cables reduces effort for cable installation.

Two-Motor Cable connectivity

(SH3/MH3/SHS servo motors with Lexium 52 and Lexium 62 servo drives)

The standard measurement device is the Hiperface[®] SinCos single-turn or multi-turn encoder integrated in Lexium servo motors.

Depending on the model, single-turn and multi-turn SinCos encoders are available with medium resolution and capacitive sensing, or high resolution and optical sensing.

To select the type of Hiperface[®] SinCos encoder integrated in the Lexium servo motors (single-turn or multi-turn), see Servo motor References.

Planetary gearboxes for Lexium SH3/MH3 servo motors

GBX and GBY optional planetary gearboxes for Lexium SH3 and MH3 servo motors: For GBX and GBY gearboxes, Please refer to our catalog Ref. [DIA3ED2160313EN](#).

Schneider electric can supply stainless steel gearboxes for Lexium SHS servo motors: Please contact your local sales office.

Lexium SH3/MH3/SHS

Servo motors for Lexium 62/52 servo drives

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F					
FCE200519B200	19	LXM52DU60C41000	9	MH30701P01F2200	11
FCE200520B200	19		13		12
FCE200521B200	19	LXM62DC13C21000	8	MH30701P02A2200	11
FCE200522B200	19		12		12
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Lexium SH3/MH3/SHS

Servo motors for Lexium 62/52 servo drives

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MH31401P07A2200	11	MH31403P07F2200	11	MH31902P11A2200	11	SH30401P0CA4000	6	SH30402P0CA4100	6
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Lexium SH3/MH3/SHS

Servo motors for Lexium 62/52 servo drives

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	7		7		7	SH30702M12F1100	6		7
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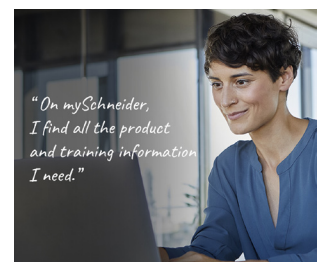
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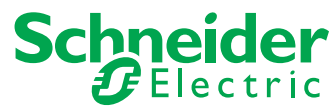
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