

Main functions					
Type of servo drive		LXM32C	LXM32A	LXM32M	LXM32S
Communication	Integrated	<input type="checkbox"/> Modbus serial link, <input type="checkbox"/> Pulse train, <input type="checkbox"/> ± 10 V	<input type="checkbox"/> Modbus serial link, <input type="checkbox"/> CANopen/CANmotion machine bus	<input type="checkbox"/> Modbus serial link, <input type="checkbox"/> Pulse train	<input type="checkbox"/> Modbus serial link, <input type="checkbox"/> sercos III
	As an option	–	–	<input type="checkbox"/> CANopen/CANmotion machine bus, <input type="checkbox"/> DeviceNet, <input type="checkbox"/> EtherNet/IP, <input type="checkbox"/> PROFIBUS DP V1, <input type="checkbox"/> EtherCAT, <input type="checkbox"/> PROFINET, <input type="checkbox"/> Modbus TCP	–
	Operating modes	<input type="checkbox"/> Manual mode (JOG), <input type="checkbox"/> Electronic gearbox, <input type="checkbox"/> Speed control, <input type="checkbox"/> Current control	<input type="checkbox"/> Homing, <input type="checkbox"/> Manual mode (JOG), <input type="checkbox"/> Speed control, <input type="checkbox"/> Current control, <input type="checkbox"/> Position control	<input type="checkbox"/> Homing, <input type="checkbox"/> Manual mode (JOG), <input type="checkbox"/> Motion sequence, <input type="checkbox"/> Electronic gearbox, <input type="checkbox"/> Speed control, <input type="checkbox"/> Current control, <input type="checkbox"/> Position control	<input type="checkbox"/> Homing, <input type="checkbox"/> Manual mode (JOG), <input type="checkbox"/> Speed control, <input type="checkbox"/> Current control, <input type="checkbox"/> Position control
	Functions	<input type="checkbox"/> Auto-tuning, <input type="checkbox"/> Monitoring, <input type="checkbox"/> Stopping, <input type="checkbox"/> Conversion	<input type="checkbox"/> Stop window, <input type="checkbox"/> Rapid entry of position values, <input type="checkbox"/> Rotary axes, <input type="checkbox"/> Position register	<input type="checkbox"/> Stop window, <input type="checkbox"/> Rapid entry of position values, <input type="checkbox"/> Rotary axes, <input type="checkbox"/> Position register	<input type="checkbox"/> Stop window, <input type="checkbox"/> Rapid entry of position values
24 V ∴ logic inputs (1)	6, reassignable	4, reassignable	4, reassignable	4, reassignable	
24 V ∴ capture inputs (1) (2)	–	1	2	2	
24 V ∴ logic outputs (1)	5, reassignable	2, reassignable	3, reassignable	3, reassignable	
Analog inputs	2	–	–	–	
Pulse control input	1, configurable as: <input type="checkbox"/> RS 422 link <input type="checkbox"/> 5 V or 24 V push-pull <input type="checkbox"/> 5 V or 24 V open collector	–	1, configurable as: <input type="checkbox"/> RS 422 link <input type="checkbox"/> 5 V or 24 V push-pull <input type="checkbox"/> 5 V or 24 V open collector	–	
ESIM PTO output	RS 422 link	–	RS 422 link	–	
Human/Machine Interface (via integrated display terminal)	<input type="checkbox"/> Manual mode (positive/negative, fast/slow), <input type="checkbox"/> Auto-tuning, <input type="checkbox"/> Simple startup, <input type="checkbox"/> Display of information and detected errors	<input type="checkbox"/> Manual mode (positive/negative, fast/slow), <input type="checkbox"/> Auto-tuning, <input type="checkbox"/> Simple startup, <input type="checkbox"/> Display of information and detected errors, <input type="checkbox"/> Homing	–	–	
Safety functions	Integrated	Safe Torque Off STO			
	As an option	–	–	<input type="checkbox"/> Safe Stop 1 (SS1) and Safe Stop 2 (SS2), <input type="checkbox"/> Safe Operating Stop (SOS), <input type="checkbox"/> Safe Limited Speed (SLS)	–
Sensor	Integrated	SinCos Hiperface® sensor			
	As an option	–	–	<input type="checkbox"/> Resolver encoder, <input type="checkbox"/> Analog encoder, <input type="checkbox"/> Digital encoder	–
Architecture	Control via	Logic or analog I/O	Motion controller via CANopen and CANmotion machine bus	Schneider Electric or third-party PLCs via communication buses and networks	Modicon LMC078 motion controller on sercos III network
Type of servo motor		BMH		BSH	
Application type		<input type="checkbox"/> High load , <input type="checkbox"/> With robust adjustment of the movement		<input type="checkbox"/> High dynamic response, <input type="checkbox"/> Power density	
Flange size		70, 100, 140 and 190mm (2.76, 3.94, 5.51 and 7.48 in)		40, 55, 70, 100, and 140 mm (1.57, 2.17, 2.76, 3.94 and 5.51 in)	
Continuous stall torque		1.2 to 100 Nm		0.21 to 33.4 Nm	
Encoder type	Single-turn SinCos	32,768 points/turn and 131,072 points/turn		131,072 points/turn	
	Multi-turn SinCos	32,768 points/turn x 4,096 turns and 131,072 points/turn x 4,096 turns		131,072 points/turn x 4,096 turns	
Degree of protection	Casing	IP 65 (IP 67 conformity kit as an option)			
	Shaft end	IP 54: horizontal mounting (IMB5) or vertical mounting (IMV1 with shaft end at the top) IP 50: vertical mounting IMV3 with shaft end at the bottom, or IP 65 (IP 67 conformity kit as an option)			

(1) Unless otherwise stated, the logic I/O can be used in positive logic (Sink inputs, Source outputs) or negative logic (Source inputs, Sink outputs).
(2) The capture inputs can be used as standard logic inputs.

Lexium 32 and Motors

Lexium 32 Servo drives

Servo drive/BMH servo motor combinations

Lexium 32 servo drive/BMH servo motor combinations							
Nominal operating point (1)				Stall torques	Servo drives		Servo motor
Nominal torque	Nominal speed	Nominal power	M_0 / M_{max} (2)	Reference	Continuous output current (rms)	Reference	Rotor inertia
Nm	rpm	W	Nm/Nm		A		kgcm ²
100...120 V single-phase supply voltage with integrated EMC filter							
1.35	2500	350	1.4/4.2	LXM32•D18M2	6	BMH0701T	0.59
2.3	2500	600	2.5/6.4	LXM32•D30M2	10	BMH0702T	1.13
3.1	2000	650	3.4/8.7	LXM32•D30M2	10	BMH0703T	1.67
3.3	2000	700	3.4/8.9	LXM32•D30M2	10	BMH1001T	3.2
3.5	2000	750	6/10.3	LXM32•D30M2	10	BMH1002T	6.3
200...240 V single-phase supply voltage with integrated EMC filter							
1.1	4000	450	1.4/4	LXM32•U90M2	3	BMH0701T	0.59
2.1	4000	900	2.5/7.4	LXM32•D18M2	6	BMH0702T	1.13
2.9	3000	900	3.4/10.2	LXM32•D18M2	6	BMH0703T	1.67
2.8	3000	900	3.4/10.2	LXM32•D18M2	6	BMH1001T	3.2
4.6	3000	1450	6/18.4	LXM32•D30M2	10	BMH1002T	6.3
5.6	2500	1450	8/23.5	LXM32•D30M2	10	BMH1003T	9.4
8.9	1500	1450	10.3/30.8	LXM32•D30M2	10	BMH1401P	16.5
208...480 V three-phase supply voltage with integrated EMC filter							
1.1	3000	350	1.2/4.2	LXM32•U60N4	1.5	BMH0701P	0.59
1.3	5000	700	1.4/4.2	LXM32•D12N4	3	BMH0701P	0.59
1.9	4000	800	3.3/10.8	LXM32•D12N4	3	BMH1001P	3.2
2.2	3000	700	2.5/7.4	LXM32•D12N4	3	BMH0702P	1.13
2.4	5000	1300	3.4/10.2	LXM32•D18N4	6	BMH0703P	1.67
3.1	4000	1300	3.4/10.2	LXM32•D18N4	6	BMH1001P	3.2
3.9	4000	1600	5.9/18.4	LXM32•D18N4	6	BMH1002P	6.3
6.2	4000	2600	8.4/25.1	LXM32•D30N4	10	BMH1003P	9.4
7.6	3000	2400	10.3/30.8	LXM32•D30N4	10	BMH1401P	16.5
12.1	3000	3800	16.8/50.3	LXM32•D72N4	24	BMH1402P	32.0
14.2	3000	4500	24/71.8	LXM32•D72N4	24	BMH1403P	47.5
18.4	2500	4800	30/77.7	LXM32•D72N4	24	BMH1901P	67.7
22.3	2500	5900	37.4/101	LXM32•D72N4	24	BMH1902P	130
36	1500	5700	43.2/123	LXM32•D72N4	24	BMH1903P	194
~ 480 V three-phase supply voltage with integrated EMC filter							
16.5	3000	5180	30/86.6	LXM32MD85N4	32	BMH1901P	67.7
29	2000	6070	48/115.5	LXM32MD85N4	32	BMH1902P	130
35	2000	7330	57.6/141.3	LXM32MD85N4	32	BMH1903P	194
16.5	3000	5180	30/89.7	LXM32MC10N4	40	BMH1901P	67.7
29	2000	6070	48/130.7	LXM32MC10N4	40	BMH1902P	130
37	2000	7750	65/162.7	LXM32MC10N4	40	BMH1903P	194
46.8	2000	9600	100/230	LXM32MC10N4	40	BMH1904P	276.7

(1) These values are given according to the supply voltage.

(2) M_0 : Continuous stall torque, M_{max} : Peak stall torque.

Lexium 32 servo drive/BSH servo motor combinations							
Nominal operating point (1)			Stall torques	Servo drives		Servo motor	
Nominal torque	Nominal speed	Nominal power	M_0 / M_{max} (2)	Reference	Continuous output current (rms)	Reference	Rotor inertia
Nm	rpm	W	Nm/Nm		A		kgcm ²
100...120 V single-phase supply voltage with integrated EMC filter							
0.49	3000	150	0.5/1.5	LXM32●U90M2	3	BSH0551T	0.06
0.77	3000	250	0.8/1.9	LXM32●U90M2	3	BSH0552T	0.10
1.14	3000	350	1.2/3.3	LXM32●D18M2	6	BSH0553T	0.13
1.36	2500	350	1.4/3.5	LXM32●D18M2	6	BSH0701T	0.25
2.07	2500	550	2.2/6.1	LXM32●D30M2	10	BSH0702T	0.41
2.75	2500	700	3.3/6.3	LXM32●D30M2	10	BSH1001T	1.40
200...240 V single-phase supply voltage with integrated EMC filter							
0.184	4000	77	0.21/0.8	LXM32●U45M2	1.5	BSH0401P	0.02
0.184	4000	166	0.38/1.37	LXM32●U45M2	1.5	BSH0402P	0.04
0.45	6000	300	0.5/1.4	LXM32●U45M2	1.5	BSH0551T	0.06
0.74	6000	450	0.8/2.5	LXM32●U90M2	3	BSH0552T	0.10
0.84	6000	550	1.2/3	LXM32●U90M2	3	BSH0553T	0.13
0.94	5000	500	1.3/3.5	LXM32●D18M2	6	BSH0701T	0.25
1.8	5000	950	2.2/7.2	LXM32●D18M2	6	BSH0702T	0.41
2.1	4000	900	2.6/7.4	LXM32●D30M2	10	BSH0703T	0.58
2.2	4000	900	2.7/7.5	LXM32●D30M2	10	BSH1001T	1.40
3.7	4000	1500	5.8/16.4	LXM32●D30M2	1.5	BSH1002T	2.31
208...480 V three-phase supply voltage with integrated EMC filter							
0.292	9000	152	0.21/0.8	LXM32●U60N4	1.5	BSH0401P	0.02
0.292	9000	275	0.38/1.37	LXM32●U60N4	1.5	BSH0402P	0.04
0.48	6000	300	0.5/1.5	LXM32●U60N4	1.5	BSH0551P	0.06
0.65	6000	400	0.8/2.5	LXM32●U60N4	1.5	BSH0552P	0.10
0.65	6000	400	1.05/3.5	LXM32●U60N4	1.5	BSH0553P	0.13
1.32	5000	700	1.4/3.5	LXM32●D12N4	3	BSH0701P	0.25
1.64	5000	850	2.2/7.6	LXM32●D12N4	3	BSH0702P	0.41
2.44	5000	1300	3.1/11.3	LXM32●D18N4	6	BSH0703P	0.58
2.7	4000	1100	3.3/9.6	LXM32●D18N4	6	BSH1001P	1.40
4	4000	1700	5.8/18.3	LXM32●D18N4	6	BSH1002P	2.31
6.3	3000	2000	8/28.3	LXM32●D30N4	10	BSH1003P	3.2
8.3	2500	2100	10/37.9	LXM32●D30N4	10	BSH1004P	4.2
9.5	2500	2500	11.1/27	LXM32●D30N4	10	BSH1401P	7.4
12.3	3000	3900	19.5/59.3	LXM32●D72N4	24	BSH1402T	12.7
12.9	3000	4100	27.8/90.2	LXM32●D72N4	24	BSH1403T	17.9
19	2500	5000	33.4/103.6	LXM32●D72N4	24	BSH1404P	23.7

(1) These values are given according to the supply voltage.

(2) M_0 : Continuous stall torque, M_{max} : Peak stall torque.



Lexium 32C, 32A, 32M and 32S servo drives						
Output current at 8 kHz		Nominal power at 8 kHz	Line current (2)	Max. prospective line Isc	Reference	Weight
Continuous (rms)	Peak (rms) (1)					
A	A	kW	A	kA		kg/lb
Single-phase supply voltage: 115 V ~ 50/60 Hz, with integrated EMC filter (3)						
1.5	3	0.15	2.9	1	LXM32CU45M2	1.600/3.527
					LXM32AU45M2	
					LXM32MU45M2	1.700/3.748
					LXM32SU45M2	
3	6	0.3	5.4	1	LXM32CU90M2	1.700/3.748
					LXM32AU90M2	
					LXM32MU90M2	1.800/3.968
					LXM32SU90M2	
6	10	0.5	8.5	1	LXM32CD18M2	1.800/3.968
					LXM32AD18M2	
					LXM32MD18M2	1.900/4.189
					LXM32SD18M2	
10	15	0.8	12.9	1	LXM32CD30M2	2.000/4.409
					LXM32AD30M2	
					LXM32MD30M2	2.100/4.630
					LXM32SD30M2	
Single-phase supply voltage: 230 V ~ 50/60 Hz, with integrated EMC filter (3)						
1.5	4.5	0.3	2.9	1	LXM32CU45M2	1.600/3.527
					LXM32AU45M2	
					LXM32MU45M2	1.700/3.748
					LXM32SU45M2	
3	9	0.5	4.5	1	LXM32CU90M2	1.700/3.748
					LXM32AU90M2	
					LXM32MU90M2	1.800/3.968
					LXM32SU90M2	
6	18	1	8.4	1	LXM32CD18M2	1.800/3.968
					LXM32AD18M2	
					LXM32MD18M2	1.900/4.189
					LXM32SD18M2	
10	30	1.6	12.7	1	LXM32CD30M2	2.000/4.409
					LXM32AD30M2	
					LXM32MD30M2	2.100/4.630
					LXM32SD30M2	

(1) Maximum value for 5 seconds
 (2) Without line choke (see page 27)
 (3) Additional EMC filters available as an option (see page 28)



LXM32M●●●●●●

Lexium 32C, 32A, 32M and 32S servo drives (continued)						
Output current at 8 kHz		Nominal power at 8 kHz	Line current (2)	Max. prospective line Isc	Reference	Weight
Continuous (rms)	Peak (rms)(1)					
A	A	kW	A	kA		kg/lb
Three-phase supply voltage: 208 V ~ 50/60 Hz, with integrated EMC filter (3)						
1.8	6	0.35	1.8	5	LXM32CU60N4 LXM32AU60N4	1.700/ 3.748
					LXM32MU60N4 LXM32SU60N4	1.800/ 3.968
3.6	12	0.7	3.6	5	LXM32CD12N4 LXM32AD12N4	1.800/ 3.968
					LXM32MD12N4 LXM32SD12N4	1.900/ 4.189
6.2	18	1.2	6.2	5	LXM32CD18N4 LXM32AD18N4	2.000/ 4.409
					LXM32MD18N4 LXM32SD18N4	2.100/ 4.630
9.8	30	2	9.8	5	LXM32CD30N4 LXM32AD30N4	2.600/ 5.732
					LXM32MD30N4 LXM32SD30N4	2.700/ 5.952
21.9	72	5	21.9	5	LXM32CD72N4 LXM32AD72N4	4.800/ 10.582
					LXM32MD72N4 LXM32SD72N4	
Three-phase supply voltage: 480 V ~ 50/60 Hz, with integrated EMC filter (3)						
1.5	6	0.4	1.2	5	LXM32CU60N4 LXM32AU60N4	1.700/ 3.748
					LXM32MU60N4 LXM32SU60N4	1.800/ 3.968
3	12	0.9	2.4	5	LXM32CD12N4 LXM32AD12N4	1.800/ 3.968
					LXM32MD12N4 LXM32SD12N4	1.900/ 4.189
6	18	1.8	4.5	5	LXM32CD18N4 LXM32AD18N4	2.000/ 4.409
					LXM32MD18N4 LXM32SD18N4	2.100/ 4.630
10	30	3	7	5	LXM32CD30N4 LXM32AD30N4	2.600/ 5.732
					LXM32MD30N4 LXM32SD30N4	2.700/ 5.952
24	72	7	14.6	5	LXM32CD72N4 LXM32AD72N4	4.800/ 10.582
					LXM32MD72N4 LXM32SD72N4	
32	85	9	19,9	5	LXM32MD85N4	9.600/ 21.164
40	100	11	23,3	5	LXM32MC10N4	

LXM32MD85N4
LXM32MC10N4

- (1) Maximum value for 5 seconds
 (2) Without line choke (see page 27)
 (3) Additional EMC filters available as an option (see page 28)