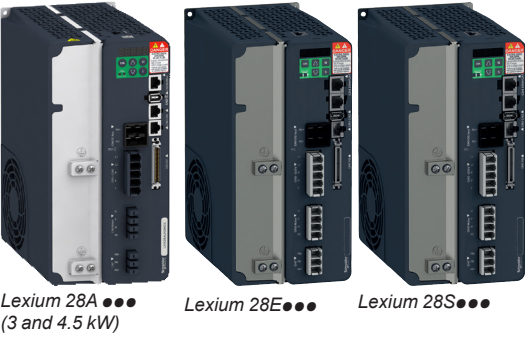


Lexium 28 & Motors
Lexium 28 servo drives and BCH2 servo motors



BCH2 servo motors and Lexium 28 servo drives combinations												
Available power output		Nominal speed of rotation	Nominal torque		Maximum peak torque		Servo motor reference	Inertia (without holding brake)	Motor inertia type	Servo drive reference Fielbus interface		
kW	hp	rpm	Nm	ft lbf	Nm	ft lbf		kgcm²		CANopen	Ethercat	Sercos 3
Single-phase supply voltage: 200/240 VAC												
0.05	0.067	3,000	0.16	0.11	0.48	0.35	BCH2MBA53●●●5C	0.054	Medium	LXM28AUA5M3X	LXM28EUA5M3X	LXM28SUA5M3X
0.1	0.13	3,000	0.32	0.23	0.96	0.70	BCH2MB013●●●5C	0.075	Medium	LXM28AU01M3X	LXM28EU01M3X	LXM28SU01M3X
0.2	0.26	3,000	0.64	0.47	1.92	1.41	BCH2LD023●●●5C	0.16	Low	LXM28AU02M3X	LXM28EU02M3X	LXM28SU02M3X
0.3	0.41	1,000	2.86	2.10	8.59	6.33	BCH2MM031●●●6C	6.63	Medium	LXM28AU04M3X	LXM28EU04M3X	LXM28SU04M3X
0.4	0.53	3,000	1.27	0.93	3.81	2.81	BCH2LD043●●●5C	0.27	Low			
0.4	0.53	3,000	1.27	0.93	3.81	2.81	BCH2LF043●●●5C	0.67	Low			
0.5	0.67	2,000	2.39	1.76	7.16	5.28	BCH2MM052●●●6C	6.63	Medium			
0.6	0.80	1,000	5.73	4.22	17.19	12.67	BCH2MM061●●●6C	6.63	Medium			
0.75	1.00	3,000	2.39	1.76	7.16	5.28	BCH2HF073●●●5C	1.54	High	LXM28AU07M3X	LXM28EU07M3X	LXM28SU07M3X
0.75	1.00	3,000	2.39	1.76	7.16	5.28	BCH2LF073●●●5C	1.19	Low			
0.85	1.13	1,500	5.39	3.97	13.8	10.17	BCH2MM081●●●6C	13.5	Medium			
0.9	1.21	1,000	8.59	6.33	25.77	19.01	BCH2MM091●●●6C	9.7	Medium	LXM28AU10M3X	LXM28EU10M3X	LXM28SU10M3X
1	1.34	3,000	3.18	2.34	9.54	7.03	BCH2LH103●●●6C	2.4	Low			
1	1.34	2,000	4.77	3.51	14.3	10.54	BCH2MM102●●●6C	6.63	Medium			
1	1.34	2,000	4.77	3.51	14.3	10.54	BCH2HM102●●●6C	8.53	High			
1.5	2.01	2,000	7.16	5.28	21.48	15.84	BCH2MM152●●●6C	9.7	Medium	LXM28AU15M3X	LXM28EU15M3X	LXM28SU15M3X
3 phase supply voltage: 200/240 VAC												
0.05	0.067	3,000	0.16	0.11	0.48	0.35	BCH2MBA53●●●5C	0.054	Medium	LXM28AUA5M3X	LXM28EUA5M3X	LXM28SUA5M3X
0.1	0.13	3,000	0.32	0.23	0.96	0.70	BCH2MB013●●●5C	0.075	Medium	LXM28AU01M3X	LXM28EU01M3X	LXM28SU01M3X
0.2	0.26	3,000	0.64	0.47	1.92	1.41	BCH2LD023●●●5C	0.16	Low	LXM28AU02M3X	LXM28EU02M3X	LXM28SU02M3X
0.3	0.41	1,000	2.86	2.10	8.59	6.33	BCH2MM031●●●6C	6.63	Medium	LXM28AU04M3X	LXM28EU04M3X	LXM28SU04M3X
0.4	0.53	3,000	1.27	0.93	3.81	2.81	BCH2LD043●●●5C	0.27	Low			
0.4	0.53	3,000	1.27	0.93	3.81	2.81	BCH2LF043●●●5C	0.67	Low			
0.5	0.67	2,000	2.39	1.76	7.16	5.28	BCH2MM052●●●6C	6.63	Medium			
0.6	0.80	1,000	5.73	4.22	17.19	12.67	BCH2MM061●●●6C	6.63	Medium			
0.75	1.00	3,000	2.39	1.76	7.16	5.28	BCH2HF073●●●5C	1.54	High	LXM28AU07M3X	LXM28EU07M3X	LXM28SU07M3X
0.75	1.00	3,000	2.39	1.76	7.16	5.28	BCH2LF073●●●5C	1.19	Low			
0.85	1.13	1,500	5.39	3.97	13.8	10.17	BCH2MM081●●●6C	13.5	Medium			
0.9	1.21	1,000	8.59	6.33	25.77	19.01	BCH2MM091●●●6C	9.7	Medium	LXM28AU10M3X	LXM28EU10M3X	LXM28SU10M3X
1	1.34	3,000	3.18	2.34	9.54	7.03	BCH2LH103●●●6C	2.4	Low			
1	1.34	2,000	4.77	3.51	14.3	10.54	BCH2MM102●●●6C	6.63	Medium			
1	1.34	2,000	4.77	3.51	14.3	10.54	BCH2HM102●●●6C	1.54	High			
1.5	2.01	2,000	7.16	5.28	21.48	15.84	BCH2MM152●●●6C	9.7	Medium	LXM28AU15M3X	LXM28EU15M3X	LXM28SU15M3X
2.0	2.68	3,000	6.37	4.69	19.1	14.08	BCH2LH203●●●6C	4.28	Low	LXM28AU20M3X	LXM28EU20M3X	LXM28SU20M3X
2.0	2.68	2,000	9.55	7.04	28.65	21.13	BCH2MM202●●●6C	13.5	Medium			
2.0	2.68	2,000	9.55	7.04	28.65	21.13	BCH2MR202●●●6C	26.5	Medium			
2.0	2.68	2,000	9.55	7.04	28.65	21.13	BCH2HR202●●●6C	34.67	High			
3.0	4.02	1,500	19.1	14.08	57.29	42.25	BCH2MR301●●●6C	53.56	Medium			
3.0	4.02	2,000	14.32	10.56	42.97	31.69	BCH2MR302●●●6C	53.56	Medium	LXM28AU30M3X	LXM28EU30M3X	LXM28SU30M3X
3.5	4.69	2,000	16.7	12.31	50.3	37.09	BCH2MR352●●●6C	53.56	Medium			
4.5	6.03	1,500	28.65	21.13	71.62	52.82	BCH2MR451●●●6C	73.32	Medium			

Lexium 28 servo drives

References

To order a Lexium 28 servo drive, make up the reference as follows:

Example	L	X	M	2	8	A	U	A	5	M	3	X
Lexium 28 AC servo drive	L	X	M	2	8							
Interface	CANopen and CANmotion fieldbus					A						
	EtherCAT fieldbus					E						
	Sercos III fieldbus					S						
Power	50 W (0.067 hp)						U	A	5			
	100 W (0.13 hp)						U	0	1			
	200 W (0.26 hp)						U	0	2			
	400 W (0.53 hp)						U	0	4			
	750 W (1.00 hp)						U	0	7			
	1 kW (1.34 hp)						U	1	0			
	1.5 kW (2.01 hp)						U	1	5			
	2 kW (2.68 hp)						U	2	0			
	3 kW (4.02 hp)						U	3	0			
	4.5 kW (6.03 hp)						U	4	5			
Supply voltage	200...240 VAC (1)									M	3	X

(1) Lexium 28 servo drives are delivered without EMC filter

Dimensions and weight

Servo drive reference	Housing size	Dimensions (overall)		Weight
		Width x Height x Depth (W x H x D)		
		mm	in.	
Single-phase or 3 phase supply voltage: 200/240 VAC				
LXM28AUA5M3X LXM28EUA5M3X LXM28SUA5M3X LXM28AU01M3X LXM28EU01M3X LXM28SU01M3X LXM28AU02M3X LXM28EU02M3X LXM28SU02M3X LXM28AU04M3X LXM28EU04M3X LXM28SU04M3X LXM28AU07M3X LXM28EU07M3X LXM28SU07M3X	Size 1	55 x 150 x 146	2.17 x 5.91 x 5.75	1.000 / 2.190
LXM28AU10M3X LXM28EU10M3X LXM28SU10M3X LXM28AU15M3X LXM28EU15M3X LXM28SU15M3X	Size 2	55 x 150 x 170	2.17 x 5.91 x 6.69	1.200/ 2.630
LXM28AU20M3X LXM28EU20M3X LXM28SU20M3X	Size 3	62 x 170 x 184	2.44 x 6.69 x 7.24	1.700/ 3.720
LXM28AU30M3X LXM28EU30M3X LXM28SU30M3X LXM28AU45M3X LXM28EU45M3X LXM28SU45M3X	Size 4	116 x 234 x 186	4.56 x 9.21 x 7.32	3.200/ 7.010



Motor starters

Presentation

The combinations listed below can be used to create a complete motor starter unit comprising a circuit breaker, a contactor, and a Lexium 28 servo drive.

- GV2P circuit-breaker provides protection against accidental short-circuits, disconnection and, if necessary, isolation.
- LC1 contactor turns on and manages any safety functions, as well as isolating the servo motor on stopping.
- Lexium 28 servo drive controls the servo motor, provides protection against short-circuits between the servo drive and the servo motor, and protects the motor cable against overloads. Overload protection is provided by the servo drive's motor thermal protection.

Combinations

Servo drive	Nominal power		Mains number of phases	Circuit-breaker (1)		Contactor
				Reference	Rating A	Reference (2) (3)
Reference	kW	hp				
Mains supply voltage: 200...240 VAC 50/60Hz						
LXM28AUA5M3X, LXM28EUA5M3X, LXM28SUA5M3X	0.05	0.067	1 or 3 phases	GV2P14	10	LC1K0610●●
LXM28AU01M3X, LXM28EU01M3X, LXM28SU01M3X	0.1	0.13	1 or 3 phases	GV2P14	10	LC1K0610●●
LXM28AU02M3X, LXM28EU02M3X, LXM28SU02M3X	0.2	0.26	1 or 3 phases	GV2P14	10	LC1K0610●●
LXM28AU04M3X, LXM28EU04M3X, LXM28SU04M3X	0.4	0.53	1 or 3 phases	GV2P14	10	LC1K09●●
LXM28AU07M3X, LXM28EU07M3X, LXM28SU07M3X	0.75	1.00	1 or 3 phases	GV2P14	10	LC1K09●●
LXM28AU10M3X, LXM28EU10M3X, LXM28SU10M3X	1	1.34	1 or 3 phases	GV2P14	10	LC1K12●●
LXM28AU15M3X, LXM28EU15M3X, LXM28SU15M3X	1.5	2.01	1 or 3 phases	GV2P16	14	LC1D18●●
LXM28AU20M3X, LXM28EU20M3X, LXM28SU20M3X	2	2.68	3 phases	GV2P20	18	LC1D32●●
LXM28AU30M3X, LXM28EU30M3X, LXM28SU30M3X	3	4.02	3 phases	GV2P20	18	LC1D32●●
LXM28AU45M3X, LXM28EU45M3X, LXM28SU45M3X	4.5	6.03	3 phases	GV2P21	23	LC1D65●●

(1) Circuit-breakers for single drive installation according to IEC 60364-5-52

(2) Composition of the contactors:

LC1 K06: 3 poles + 1 N/O auxiliary contact

LC1 D●●: 3 poles + 1 N/O auxiliary contact + 1 N/C auxiliary contact

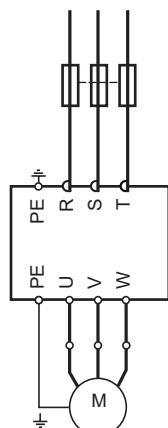
(3) Replace ●● with the control circuit voltage reference given in the table below:

	Volts ~	220	230	240
LC1K	50/60 Hz	M7	P7	U7
	Volts ~	220/230	230	230/240
LC1D	50 Hz	M5	P5	U5
	60 Hz	M6	—	U6
	50/60 Hz	M7	P7	U7

For other available voltages between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Centre.

Protection using class J fuses (UL certification)

Servo drive	Nominal power		Fuse to be placed upstream
	kW	hp	A
Reference			
Mains supply voltage: 200...240 VAC 50/60Hz			
LXM28AUA5M3X, LXM28EUA5M3X, LXM28SUA5M3X	0.05	0.067	5
LXM28AU01M3X, LXM28EU01M3X, LXM28SU01M3X	0.1	0.13	5
LXM28AU02M3X, LXM28EU02M3X, LXM28SU02M3X	0.2	0.26	5
LXM28AU04M3X, LXM28EU04M3X, LXM28SU04M3X	0.4	0.53	20
LXM28AU07M3X, LXM28EU07M3X, LXM28SU07M3X	0.75	1.00	20
LXM28AU10M3X, LXM28EU10M3X, LXM28SU10M3X	1	1.34	25
LXM28AU15M3X, LXM28EU15M3X, LXM28SU15M3X	1.5	2.01	40
LXM28AU20M3X, LXM28EU20M3X, LXM28SU20M3X	2	2.68	60
LXM28AU30M3X, LXM28EU30M3X, LXM28SU30M3X	3	4.02	80
LXM28AU45M3X, LXM28EU45M3X, LXM28SU45M3X	4.5	6.03	160



Lexium 28 servo drive +
BCH2 servo motor with fuse
protection