

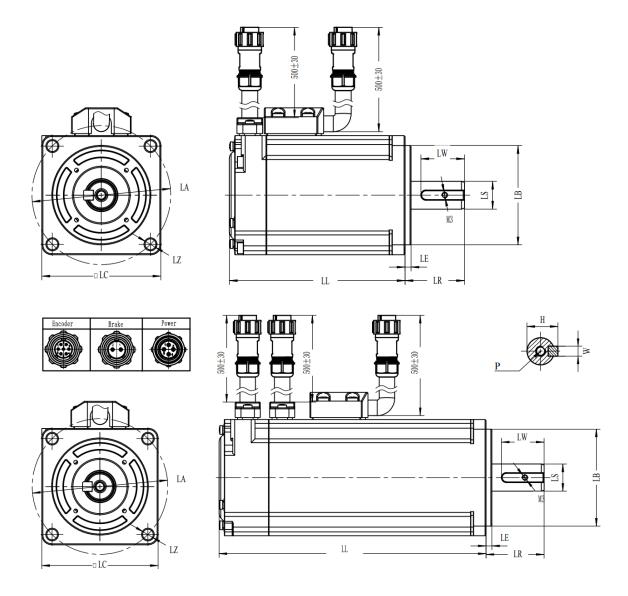
ELVM Series Servo Motors

The ELVM series is a new low voltage AC servo motor series designed of Lead Shine with power ranging from 50W to 1000W, with 2500-Line incremental encoder or 17-bit/23-bit absolute encoder, featuring short length, high overload capacity, good vibration resistance and IP65 protection.

Feature:

- ◆ PMSM construction
- ◆ Compact Design, high overload
- ◆ Insulation Class: Class F
- ◆ Protection level: IP65
- Encoder: 17 bit multi-turn absolute magnetic encoder
- ◆ Cable connector: Round connector with threaded coupling
- ◆ Optional accessory: brake

Model





Motor Series	LC (mm)	LZ (mm)	LA (mm)	LS (mm)	LB (mm)	LL (mm)	LR (mm)	LE (mm)	LW (mm)	W (mm)	H (mm)	TP (mm)
ELVM6020V24FH-**	60	Ф5.5	Ф70	Ф14	Ф50	71.6	30	2.5	22	5	16	M3 ₹12
ELVM6020V24EH-**	60	Ф5.5	Ф70	Ф14	Ф50	100.9	30	2.5	22	5	16	M3 ₹12
ELVM6020V48FH-**	60	Ф5.5	Ф70	Ф14	Ф50	71.6	30	3	22	5	16	M5 ₹12
ELVM6020V48EH-**	60	Ф5.5	Ф70	Ф14	Ф50	100.9	30	3	22	5	16	M5 ₹12
ELVM6040V24FH-**	60	Ф5.5	Ф70	Ф14	Ф50	88.6	30	3	22	5	16	M5 ₹2
ELVM6040V24EH-**	60	Ф5.5	Ф70	Ф14	Ф50	117.9	30	3	22	5	16	M5 ₹2
ELVM6040V48FH-**	60	Ф5.5	Ф70	Ф14	Ф50	88.6	30	3	22	5	16	M5 ¹ √12
ELVM6040V48EH-**	60	Ф5.5	Ф70	Ф14	Ф50	117.9	30	3	22	5	16	M5 [™] 12
ELVM6060V48FH-**	60	Ф5.5	Ф70	Ф14	Ф50	108.6	30	3	22	5	16	M5 [∓] 12
ELVM6060V48EH-**	60	Ф5.5	Ф70	Ф14	Ф50	137.9	30	3	22	5	16	M5 [™] 12
ELVM8075V48FH-**	80	Ф6.6	Ф90	Ф19	Φ70	90.9	35	3	25	6	21.5	M5 [™] 12
ELVM8075V48EH-**	80	Ф6.6	Ф90	Ф19	Φ70	121.9	35	3	25	6	21.5	M5 ₹2
ELVM80100V48FH-**	80	Ф6.6	Ф90	Ф19	Φ70	103.9	35	3	25	6	21.5	M5 [™] 12
ELVM80100V48EH-**	80	Ф6.6	Ф90	Ф19	Φ70	134.9	35	3	25	6	21.5	M5 [™] 12

Technical Specification

ELVM Series		6020V24FH-**	6020V48FH-**	6040V24FH-**	6040V48FH-**	6060V48FH-**	8075V48FH-**	80100V48FH-**
		6020V24EH-**	6020V48EH-**	6040V24EH-**	6040V48EH-**	6060V48EH-**	8075V48EH-**	80100V48EH-**
Frame S	Frame Size [mm] 60 80					30		
Rated Power [W]		200	200	400	400	600	750	1000
Voltage [VDC]		24	48	24	48	48	48	48
Rated Torque [Nm]		0.64	0.64	1.27	1.27	1.91	2.39	3.2
Rated Current [Arms]		10	6	19.9	10	15	19	28
Rated Speed [r/min]		3000	3000	3000	3000	3000	3000	3000
Peak Torque [Nm]		1.92	1.92	3.81	3.81	5.73	7.17	9.6
Peak Current [Arms]		31	19.6	61.7	31	49.3	59	87
Max Speed [r/min]		4000	4000	4000	4000	4000	3500	3500
Torque Const [Nm/A]		0.064	0.107	0.064	0.127	0.127	0.126	0.11
Voltage Const [V/krpm]		4.1	6.9	4.1	8.3	8.3	8.4	7.6
Resistance [Ω]		0.18	0.47	0.07	0.28	0.17	0.09	0.049
Inductance [mH]		0.33	0.92	0.14	0.52	0.34	0.38	0.25
Inertia	Standard	0.29	0.29	0.58	0.58	0.83	1.5	1.8
[kgm ² *10 ⁻⁴]	With Brake	0.3	0.3	0.59	0.59	0.84	1.65	1.95
End	coder		2	500-Line/17-bit	Incremental Enc	oder		
Stru	ıcture	Totally Enclosed, Natural Cooling(IP rating: IP65)						
Weight	Standard	1.03	1.03	1.32	1.32	1.59	2.21	2.6
(kg)	With Brake	1.38	1.38	1.67	1.67	2	2.79	3.2
Permissible Load for the Shaft	L [mm]	22.5	27	27	27	27	27	27
	Radial [N]	dial [N] 254 254		254	254	254	392	392
	Thrust [N]	74	74	74	74	74	147	147



Environment

Item	Storage	Installation			
Temperature	-20-60°C	0-40℃			
Humility	Under 80%RH(free from condensation)				
Atmospheric environment	Indoor(no exposure)no corrosive gas or flammable gas, no oil or dust				
Altitude	Lower than 1000m				
Vibration	Less than 0.5G (4.9m/s ²) 10-60Hz (non-continuous working)				
Protection level	IP65				