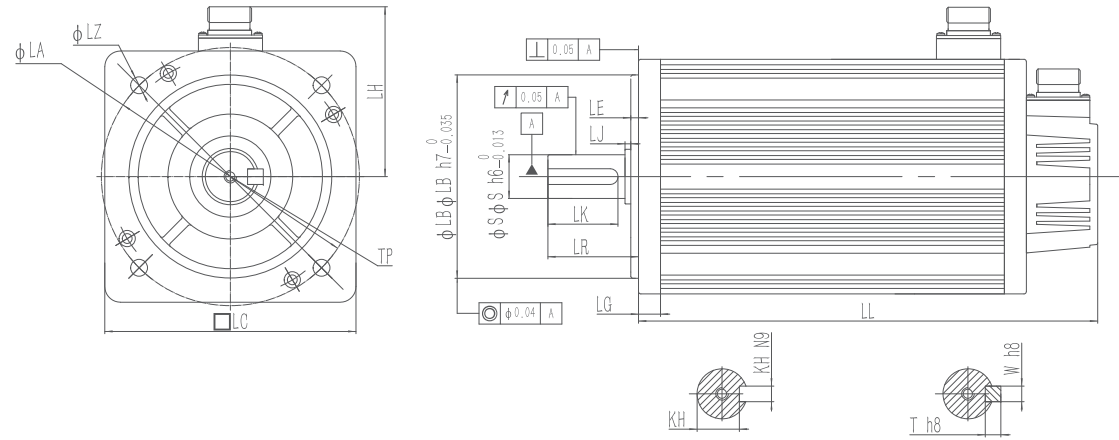


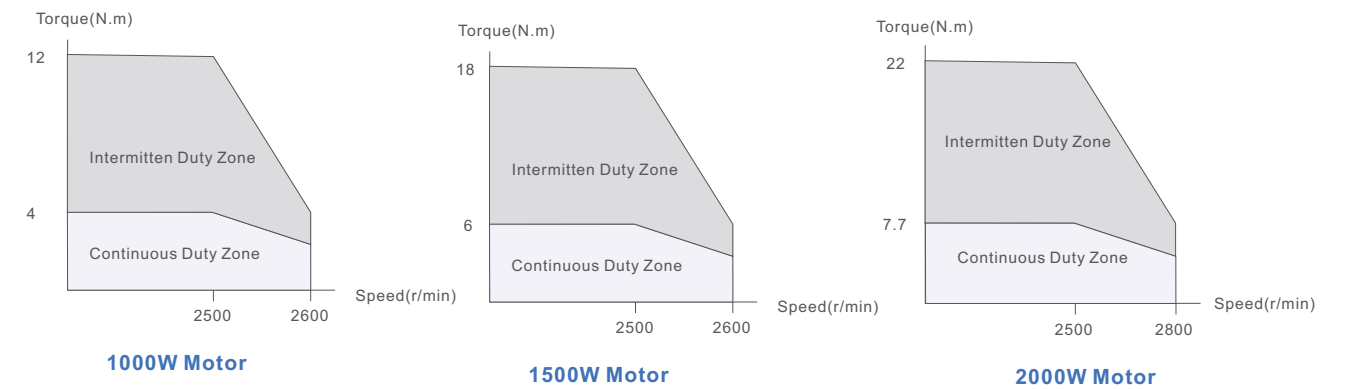
- **Dimensions**



Motor Model	LL	LC	LR	LA	LZ	LH	LG	LE	LJ	S	LB	TP	LK	KH	kW	W	T
ELM2M-1000LB130F-H	166	131	57	145	9	111	14	5	2	22	110	M6X20	40	18.5	6	6	6
ELM2M-1000LB130E-H	223	131	57	145	9	111	14	5	2	22	110	M6X20	40	18.5	6	6	6
ELM2M-1500LB130F-H	179	131	57	145	9	111	14	5	2	22	110	M6X20	40	18.5	6	6	6
ELM2M-1500LB130E-H	236	131	57	145	9	111	14	5	2	22	110	M6X20	40	18.5	6	6	6
ELM2M-2000LB130F-H	192	131	57	145	9	111	14	5	2	22	110	M6X20	40	18.5	6	6	6
ELM2M-2000LB130E-H	270	131	57	145	9	111	14	5	2	22	110	M6X20	40	18.5	6	6	6

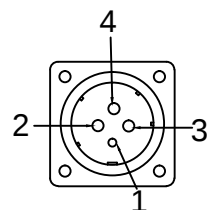
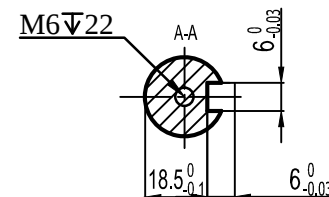
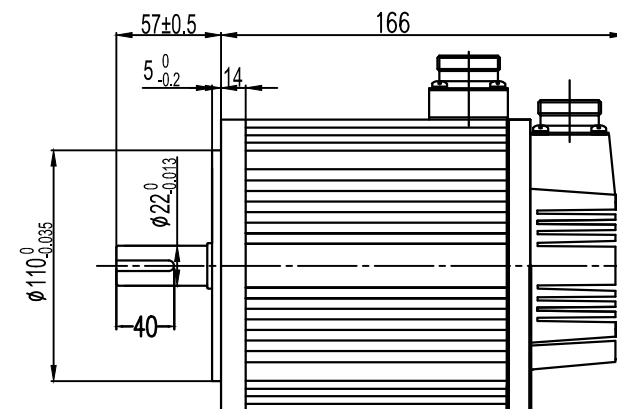
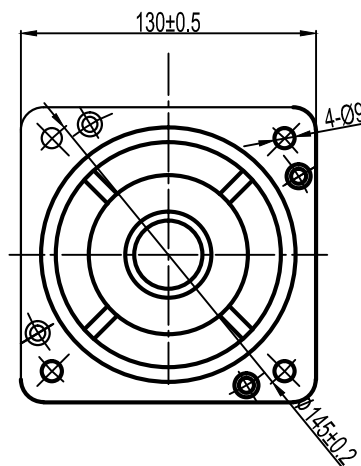


- Speed - Torque characteristics

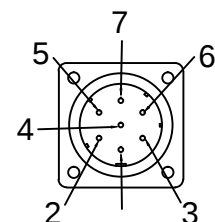


ELM2 Model		ELM2M-1000LB130E-H	ELM2M-1500LB130E-H	ELM2M-2000LB130E-H
		ELM2M-1000LB130F-H	ELM2M-1500LB130F-H	ELM2M-2000LB130F-H
Frame Size[mm]		130	130	130
Rated Power[W]		1000	1500	2000
Rated Voltage[VAC]		220		
Rated Torque[Nm]		4	6	7.7
Peak Torque[Nm]		12	18	22
Rated Current[Arms]		4	6	7.5
Peak Current[Arms]		12	18	22
Rated Speed[r/min]		2500	2500	2500
Peak Speed[r/min]		2600	2600	2800
Inertia [kgm ² *10 ⁻⁴]	Without Brake	8.5	12.6	15.3
	With Brake	8.95	12.6	16.8
Weight (kg)	Without Brake	6.2	7.4	83
	With Brake	8.3	9.5	11
Permissible Load to Shaft (N)	Radial	490	490	490
	Axial	196	196	196
Encoder Type		23bit optical multi-turn		
Plug Type		Aviation connector-H		
Matching Cable	Motor Cable	CABLE-RZ*M*-H(V2.0)		
	Encoder Cable	Absolute: CABLE-7BM*M*-HZ(V3.0) Incremental: CABLE-7BMA*M*-HZ(V3.0)		
	Brake Cable	CABLE-SC*M*-H(V3.0)		
Matching Drive	Priority	EL7-**1000* EL8-**1000*	EL7-**1500* EL8-**1500*	EL7-**2000* EL8-**2000*
	Optional	EL6-**1000*	-	-

Rated Voltage (Vac)	220
Rated Power (w)	1000
Rated Torque (N.m)	4
Peak Torque (N.m)	12
Rated Speed (rpm)	2500
Peak Speed (rpm)	2600
Rated Current (Arms)	4
Peak Current (Arms)	12
Torque Const (N.m/Arms)	1.0
Back EMF Const (V/krpm)	72
Resistance (Ω)	2.76±10%
Inductance (mH)	6.42±20%
Inertia (kg*m ² *10 ⁻⁴)	8.5
Poles	8
Encoder type	23bit absolute
IP rating	IP65
Mass (Kg)	6.2



Wiring details of Power cable connector				
Pos	1	2	3	4
Signal	PE	U	V	W
Color				



Wiring details of encoder cable connector							
Pos	1	2	3	4	5	6	7
Signal	PE	5V	0V	SD+	SD-	BAT+	BAT-
Color							

Connector Code Of Extension Cable Side

Type	Winding Connector	Encoder Connector	Brake Connector
Part Num	LS-YDA28K4TS-01	LS-YDA28K7TS-01	--

Connector Code Of Motor Side

Type	Winding Connector	Encoder Connector	Brake Connector
Part Num	YD28J4Z	YD28J7Z	--

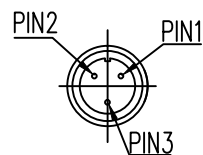
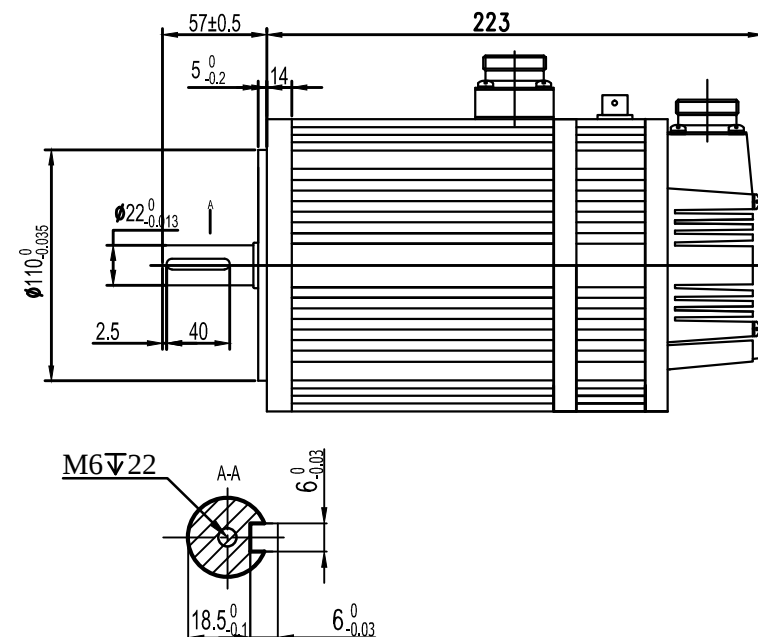
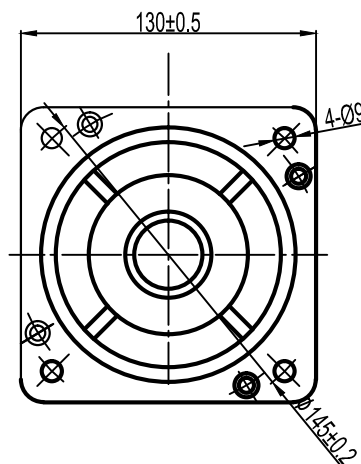
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ELM2M-1000LB130F-H

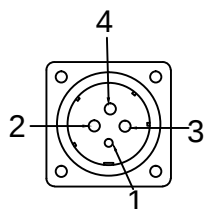
130mm,middle inertia,1000w servo motor
23bit absolute encoder, no brake

www.leadshine.com

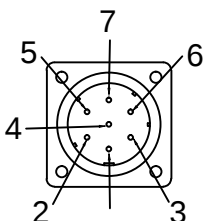
Rated Voltage (Vac)	220
Rated Power (w)	1000
Rated Torque (N.m)	4
Peak Torque (N.m)	12
Rated Speed (rpm)	2500
Peak Speed (rpm)	2600
Rated Current (Arms)	4
Peak Current (Arms)	12
Torque Const (N.m/Arms)	1.0
Back EMF Const (V/krpm)	72
Resistance (Ω)	2.76±10%
Inductance (mH)	6.42±20%
Inertia (kg*m ² *10 ⁻⁴)	8.95
Poles	8
Encoder type	23bit absolute
IP rating	IP65
Mass (Kg)	8.3



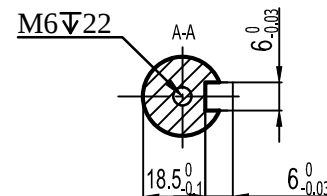
Wiring details of brake			
Pos	1	2	3
Signal	0v	24v	
Color			



Wiring details of Power cable connector				
Pos	1	2	3	4
Signal	PE	U	V	W
Color				



Wiring details of encoder cable connector							
Pos	1	2	3	4	5	6	7
Signal	PE	5V	0V	SD+	SD-	BAT+	BAT-
Color							



Connector Code Of Extension Cable Side			
Type	Winding Connector	Encoder Connector	Brake Connector
Part Num	LS-YDA28K4TS-01	LS-YDA28K7TS-01	XS12K3P
			--

Connector Code Of Motor Side			
Type	Winding Connector	Encoder Connector	Brake Connector
Part Num	YD28J4Z	YD28J7Z	XS12J3Y
			--

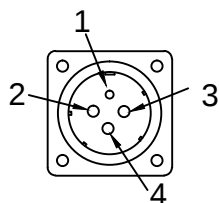
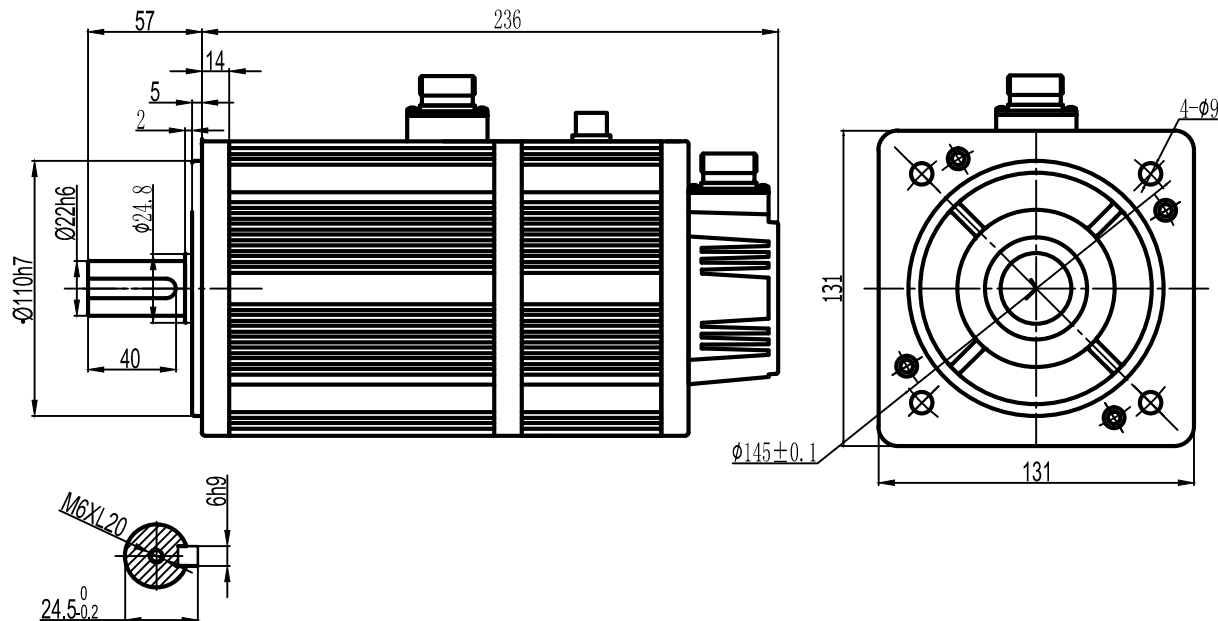
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ELM2M-1000LB130E-H

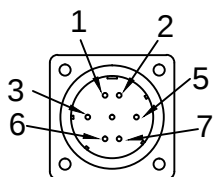
130mm,middle inertia,1000w servo motor
23bit absolute encoder, with brake

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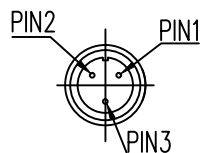
Rated Voltage (Vac)	200-220
Rated Power (w)	1500
Rated Torque (N.m)	6
Peak Torque (N.m)	18
Rated Speed (rpm)	2500
Peak Speed (rpm)	2600
Rated Current (Amp)	6
Peak Current (Amp)	18
Torque Const (N.m/Amp)	1.0
Back EMF Const (V/krpm)	65
Resistance (Ω)	$1.21 \pm 10\%$
Inductance (mH)	$3.87 \pm 20\%$
Inertia ($\text{kg} \cdot \text{m}^2 \cdot 10^{-4}$)	12.6
Poles	8
Encoder type	23bit absolute
IP rating	IP65
Mass (Kg)	9.5



Wiring details of Power cable connector				
Pos	1	2	3	4
Signal	PE	U	W	V
Color				



Wiring details of encoder cable connector							
Pos	1	2	3	4	5	6	7
Signal	PE	5V	0V	SD+	SD-	BAT+	BAT-
Color							



Wiring details of brake			
Pos	1	2	3
Signal	0v	24v	
Color			

Connector Code Of Extension Cable Side

Type	Winding Connector	Encoder Connector	Brake Connector
Part Num	LS-YDA28K4TS-01	LS-YDA28K7TS-01	XS12K3P
			--

Connector Code Of Motor Side

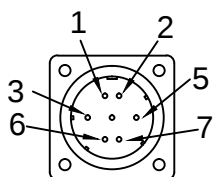
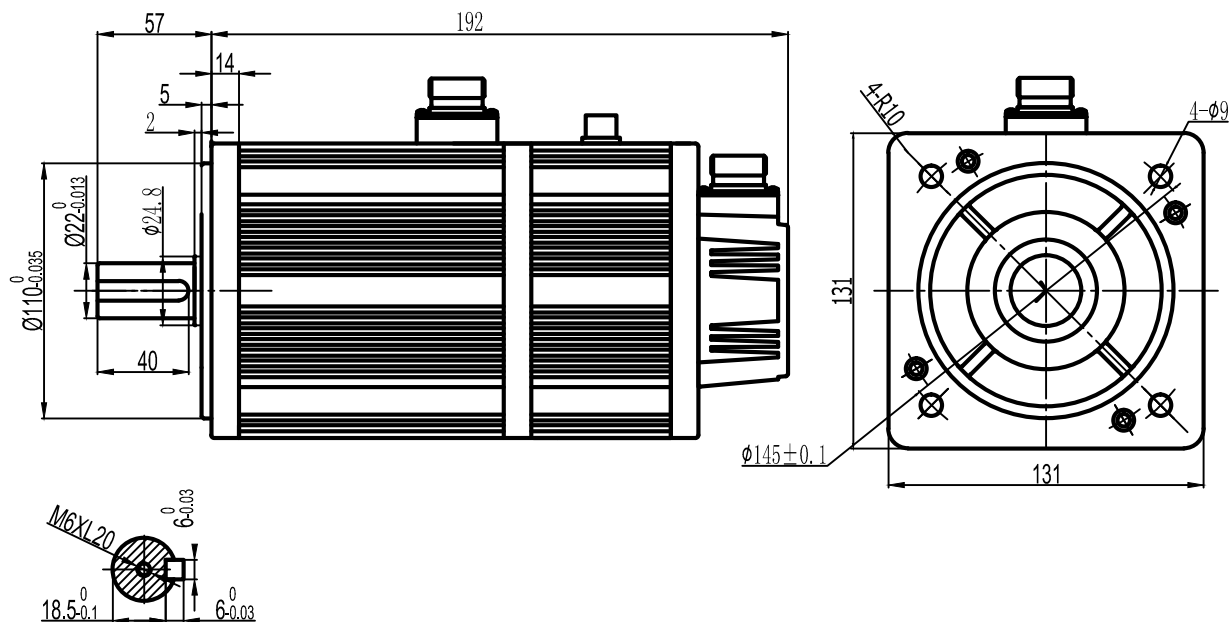
Type	Winding Connector	Encoder Connector	Brake Connector
Part Num	YD28J4Z	YD28J7Z	XS12J3Y
			--

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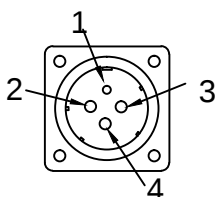
ELM2M-1500LB130E-H

130mm,middle inertia,1500w servo motor
23bit absolute encoder, with brake

Rated Voltage (Vac)	200-220
Rated Power (w)	2000
Rated Torque (N.m)	7.7
Peak Torque (N.m)	22
Rated Speed (rpm)	2500
Peak Speed (rpm)	2800
Rated Current (Arms)	7.5
Peak Current (Arms)	22
Torque Const (N.m/Arms)	1.03
Back EMF Const (V/krpm)	68
Resistance (Ω)	1.01 $\pm$ 10%
Inductance (mH)	2.94 $\pm$ 20%
Inertia (kg*m ² *10 ⁻⁴)	15.3
Poles	8
Encoder type	23 bit absolute
IP rating	IP65
Mass (Kg)	8.3



Wiring Order of Absolute Encoder Connector							
Position	1	2	3	4	5	6	7
Signal	PE	5V	0V	SD+	SD-	BAT+	BAT-
Color							



Winding Connection				
Position	1	2	3	4
Signal	PE	U	V	W
Color				

Motor Side Connector			
Connector	Winding Connector	Encoder Connector	Brake Connector
Part Num	YD28J4Z	YD28J7Z	

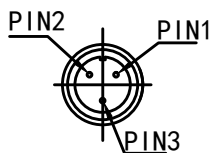
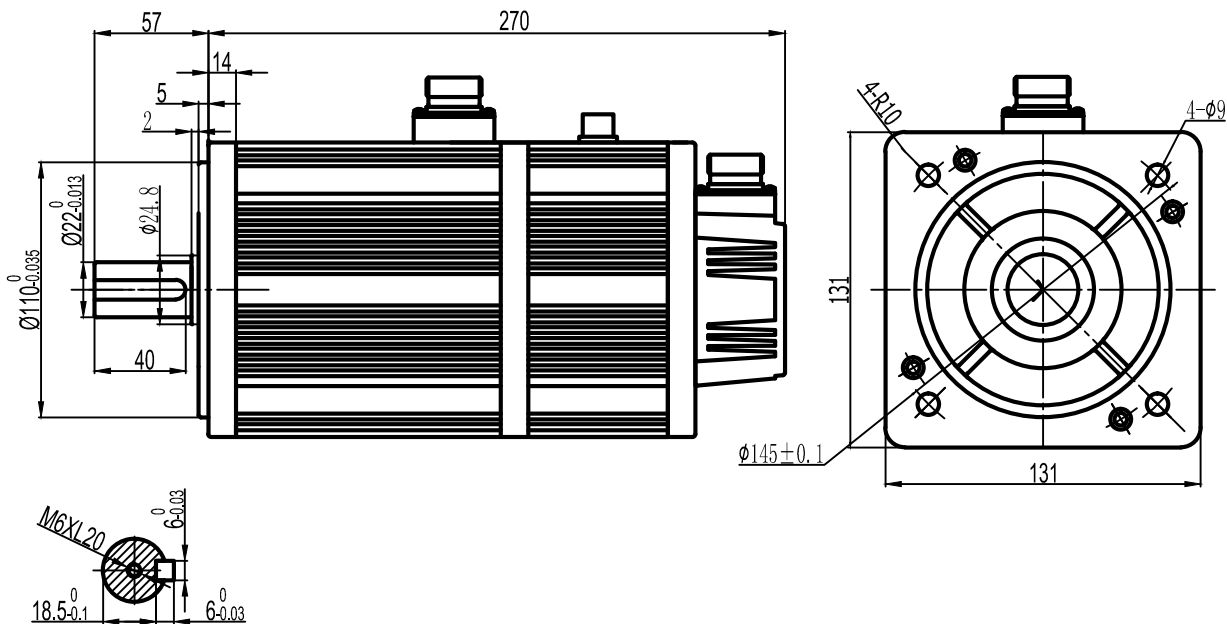
Driver Side Connector			
Connector	Winding Connector	Encoder Connector	Brake Connector
Part Num	LS-YDA28K4TS-01	LS-YDA28K7TS-01	

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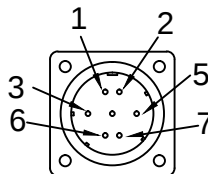
ELM2M-2000LB130F-H

130mm,middle inertia,2000w servo motor
23bit absolute encoder

Rated Voltage (Vac)	200-220
Rated Power (w)	2000
Rated Torque (N.m)	7.7
Peak Torque (N.m)	22
Rated Speed (rpm)	2500
Peak Speed (rpm)	2800
Rated Current (Arms)	7.5
Peak Current (Arms)	22
Torque Const (N.m/Arms)	1.03
Back EMF Const (V/krpm)	68
Resistance (Ω)	1.01±10%
Inductance (mH)	2.94±20%
Inertia ($\text{kg}\cdot\text{m}^2\cdot 10^{-4}$)	16.8
Poles	8
Encoder type	23 bit absolute
IP rating	IP65
Mass (Kg)	11



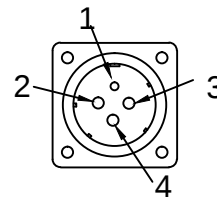
Braker Connection	
1	2
0V	24V



Wiring Order of Absolute Encoder Connector							
Position	1	2	3	4	5	6	7
Signal	PE	5V	0V	SD+	SD-	BAT+	BAT-
Color							

Motor Side Connector			
Connector	Winding Connector	Encoder Connector	Brake Connector
Part Num	YD28J4Z	YD28J7Z	XS12J3Y

Driver Side Connector			
Connector	Winding Connector	Encoder Connector	Brake Connector
Part Num	LS-YDA28K4TS-01	LS-YDA28K7TS-01	XS12K3P



Winding Connection				
Position	1	2	3	4
Signal	PE	U	V	W
Color				

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ELM2M-2000LB130E-H

130mm,middle inertia,2000w servo motor
23bit absolute encoder, with brake