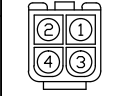


PIN	FUNCTION	WIRE GAGE
1	BRAKE (+) RED	24AWG
2	BRAKE (-) BLUE	



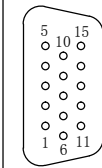
Connector Detail (Brake Wire)  
Brake Wire Cable diameter 6mm

PIN	FUNCTION	WIRE GAGE
1	MOTOR U YELLOW	18AWG
2	MOTOR V RED	
3	MOTOR W BLACK	
4	MOTOR PE $\perp$ YELLOW/GREEN Shield	

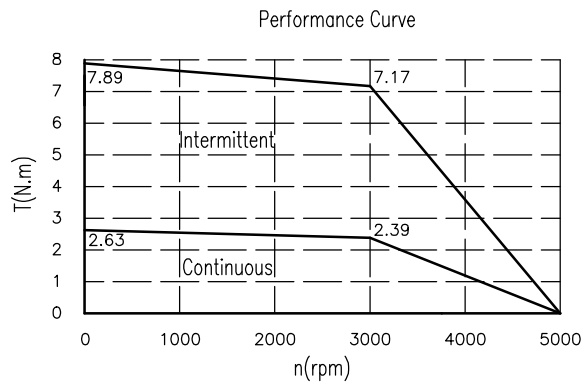
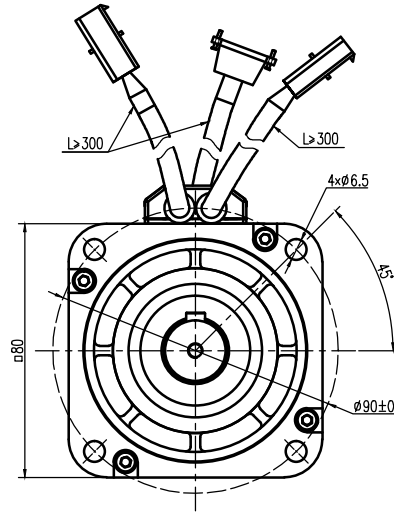
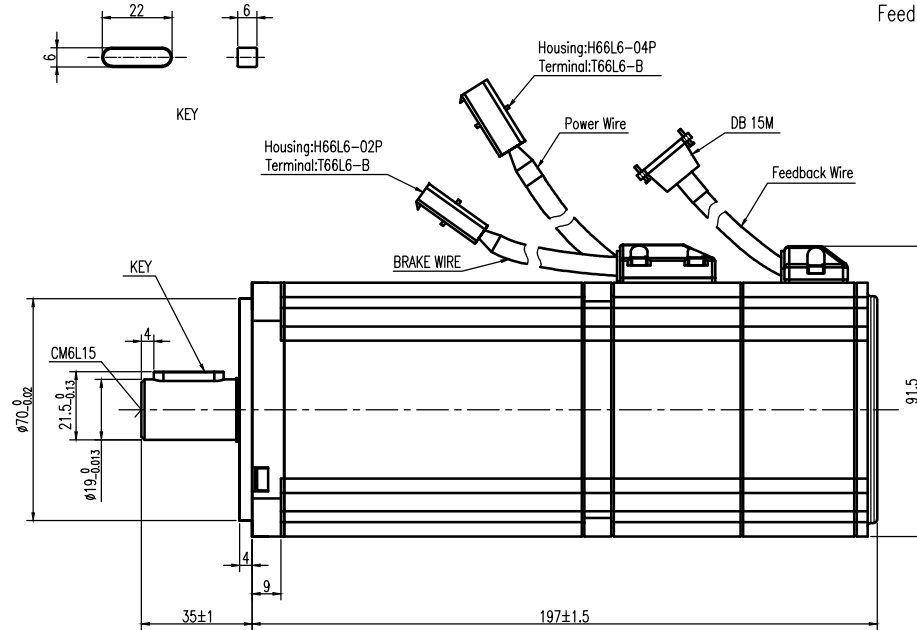


Connector Detail (Power Wire)  
Power Wire Cable diameter 7.5mm

PIN	FUNCTION	COLOR	WIRE GAGE	PIN	FUNCTION	COLOR	WIRE GAGE
1	DC +5V	RED	28AWG	9	W	GRAY/BLACK	28AWG
2	GND	BLACK		10	V	WHITE/BLACK	
3	Shield	Shield		11	/Z	YELLOW/BLACK	
4	U	BROWN/BLACK	12	/B	GREEN/BLACK		
5	/U	BROWN	13	/A	BLUE		
6	Z	YELLOW	14	/W	GRAY		
7	B	GREEN	28AWG	15	/V	WHITE	28AWG
8	A	BLUE/BLACK					



Connector Detail (Feedback Wire)  
Feedback Wire Cable diameter 6mm



**Elmo** DC BRUSHLESS MOTOR  
L80-753026EBL

W 750	V 300
A 3.9	Nm 2.39
RPM 3000	Ins F IP65

Holding brake: 24V<sub>DC</sub> M=3.2Nm

MADE for Elmo by Kinavo CHINA  
S/N: 307011273KYDDNNNN E505281

REV	Description of Change	REV	ECN NO.	DRN	APP'D	DATE	DESIGN	DATE	P.N.
①	Change in DC bus voltage Add the wires gage for all wires Add the cable diameter to all cables Add the sign of CE Add the sign of aganist knock lable						VJL	2019-1-30	307011273SS
②							ZZB	2019-1-30	Outside Drawing
							SL	2019-1-30	L80-753026EBL
									DWG NO. REV V2.0
									ELMO MOTOR

Brake Data		
Static friction	3.2N.m	
Voltage	24VDC	
Power	11.5w	
Technical Data		
No. of poles	6	
DC Link Voltage U <sub>DC</sub> (DC Link)	300	
Rated Power P <sub>N</sub> (W)	750	
Rated Torque T <sub>N</sub> (N.m)	2.39	
Rated Speed n <sub>m</sub> (rpm)	3000	
Rated Current I <sub>N</sub> (A)	3.9	
Maximum torque T <sub>m</sub> (N.m)	7.17	
Maximum Current I <sub>m</sub> (A)	11.7	
Standstill torque T <sub>s</sub> (N.m)	2.63	
Standstill current I <sub>s</sub> (A)	4.29	
Resistance line-line R <sub>L</sub> ( $\Omega$ )	1.4	
Inductance line-line L <sub>L</sub> (mH)	7.5	
Electrical time constant $\tau_e$ (ms)	5.35	
Mechanical time constant $\tau_m$ (ms)	0.75	
Voltage constant K <sub>e</sub> (V/krpm)	40	
Torque constant K <sub>t</sub> (Nm/A)	0.662	
Rotor moment of inertia J <sub>m</sub> (Kg.cm <sup>2</sup> )	1.385	
Max. voltage rising du/dt(KV/ $\mu$ s)	8	
Insulation class	F	
Max. radial force F <sub>r</sub> (N)	335	
Max. axial force F <sub>a</sub> (N)	167.5	
Weight(Kg)	4	
Feedback device	2500p/rev incremental encoder TS6014N115	
Temperature sensor	n.a.	
Cooling method	Totally enclosed non-ventilated	
protection level	IP65,shaft sealing IP54	
Environmental conditions	Temperature	-20 $\circ$ ~40 $\circ$
	Humidity	Below 90%RH (No dewing)
	Environment	Far away active gas,combustible gas,oil drop,ash.
Rating conditions	Installation altitude	UP TO 1000m:rated power, above 1000m:1.5% power decreasing per 100m,max.4000m
	Mounting	Aluminum flange 255x255x6mm
	Temperature	60K housing temperature ring at 40 $\circ$ ambient