

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



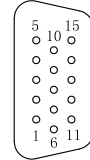
Connector Detail (Brake Wire)  
Brake Wire Cable diameter 6mm

PIN	FUNCTION	WIRE GAGE
1	MOTOR U YELLOW	20AWG
2	MOTOR V RED	
3	MOTOR W BLACK	
4	MOTOR PE $\perp$ YELLOW/GREEN Shield	

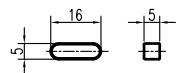


Connector Detail (Power Wire)  
Power Wire Cable diameter 6.5mm

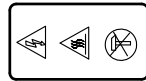
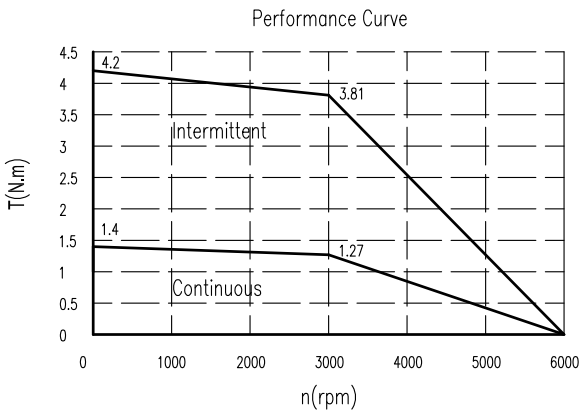
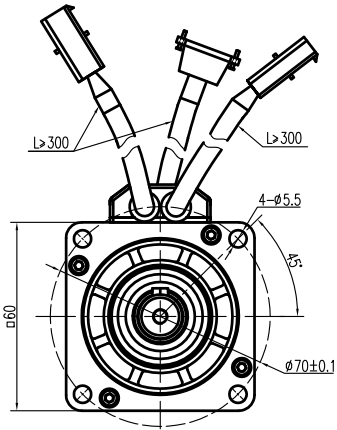
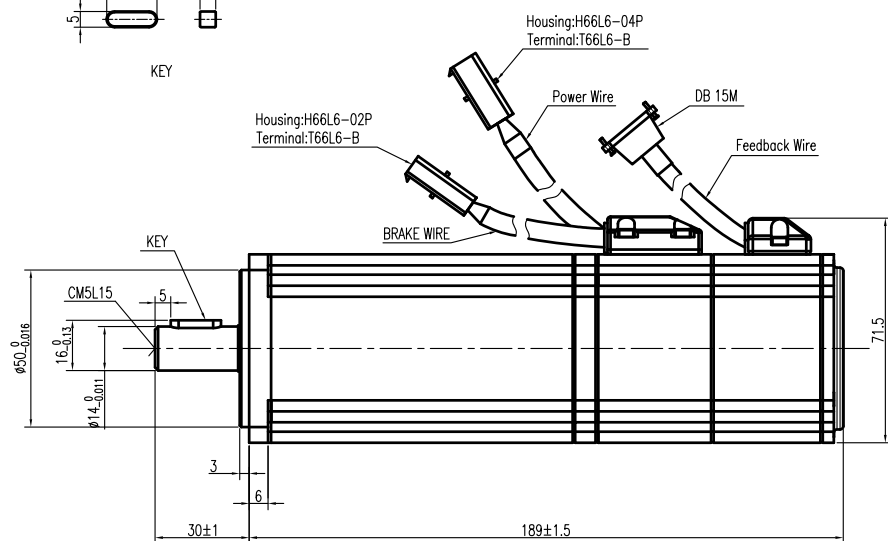
PIN	FUNCTION	COLOR	WIRE GAGE	PIN	FUNCTION	COLOR	WIRE GAGE
1	DC +5V	RED	28AWG	9	W	GRAY/BLACK	28AWG
2	GND	BLACK		10	V	WHITE/BLACK	
3	Shield	Shield	11	/Z	YELLOW/BLACK		
4	U	BROWN/BLACK	12	/B	GREEN/BLACK		
5	/U	BROWN	13	/A	BLUE		
6	Z	YELLOW	14	/W	GRAY		
7	B	GREEN	15	/V	WHITE		
8	A	BLUE/BLACK					



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



KEY



V2.0/B

**Elmo** DC BRUSHLESS MOTOR  
L60-403026EBL

W	400	V	300
A	2.94	Nm	1.27
RPM	3000	Ins	F IP65

Holding brake: 24V<sub>DC</sub> M=1.3Nm

MADE for Elmo by Kinavo CHINA  
S/N: 307011261KYDDNNNN

CE, RoHS, REACH, E505281

Brake Data	
Static friction	1.3N.m
Voltage	24VDC
Power	11.2w

Technical Data		
No. of poles	6	
DC Link Voltage U <sub>DC</sub> (DC Link)	300	
Rated Power P <sub>N</sub> (W)	400	
Rated Torque T <sub>N</sub> (N.m)	1.27	
Rated Speed n <sub>N</sub> (rpm)	3000	
Rated Current I <sub>N</sub> (A)	2.94	
Maximum torque T <sub>m</sub> (N.m)	3.81	
Maximum Current I <sub>m</sub> (A)	8.82	
Standstill torque T <sub>s</sub> (N.m)	1.4	
Standstill current I <sub>s</sub> (A)	3.23	
Resistance line-line R <sub>L</sub> ( $\Omega$ )	3.5	
Inductance line-line L <sub>L</sub> (mH)	7.8	
Electrical time constant $\tau_e$ (ms)	2.23	
Mechanical time constant $\tau_m$ (ms)	1.27	
Voltage constant K <sub>e</sub> (V/krpm)	29	
Torque constant K <sub>t</sub> (Nm/A)	0.48	
Rotor moment of inertia J <sub>m</sub> (Kg.cm <sup>2</sup> )	0.483	
Max. voltage rising du/dt(KV/ $\mu$ s)	8	
Insulation class	F	
Max. radial force Fr(N)	180	
Max. axial force Fa(N)	90	
Weight(Kg)	2.3	
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

REV	Description of Change	REV	ECN NO.	DRN	APP'D	DATE	DESIGN	DATE	P/N.
(b)	Change brake power from 7.2W to 11.2W						WYD	19-1-30	307011261SS
(c)	Add the wires gage for all wires Add the cable diameter to all cables Add the sign of against knock label						CHECK	19-1-30	Outside Drawing
(V1)	Rated Current, Maximum Current, Standstill Current has been changed						APPD	19-1-30	L60-403026EBL
V2.0/B	Change in DC bus voltage						SL	19-1-30	DWG NO. REV

UNLESS OTHERWISE SPECIFIED  
TOLERANCES:  
DECIMALS: .x  $\pm$ 0.5 ANGULAR:  $\pm$ 0°30'  
.xx  $\pm$ 0.25  
.xxx  $\pm$ 0.1  
UNIT: mm  
DO NOT SCALE DRAWING

FIRST ANGLE PROJECTION

SCALE OF SHEET

ELMO MOTOR