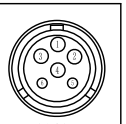
6 Pin Power Connector

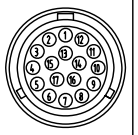
Pin	Function	COLOR
1	U	YELLOW
2	V	RED
3	W	BLACK
4	PE	YELLOW/GREEN
5	NC	
6	NC	



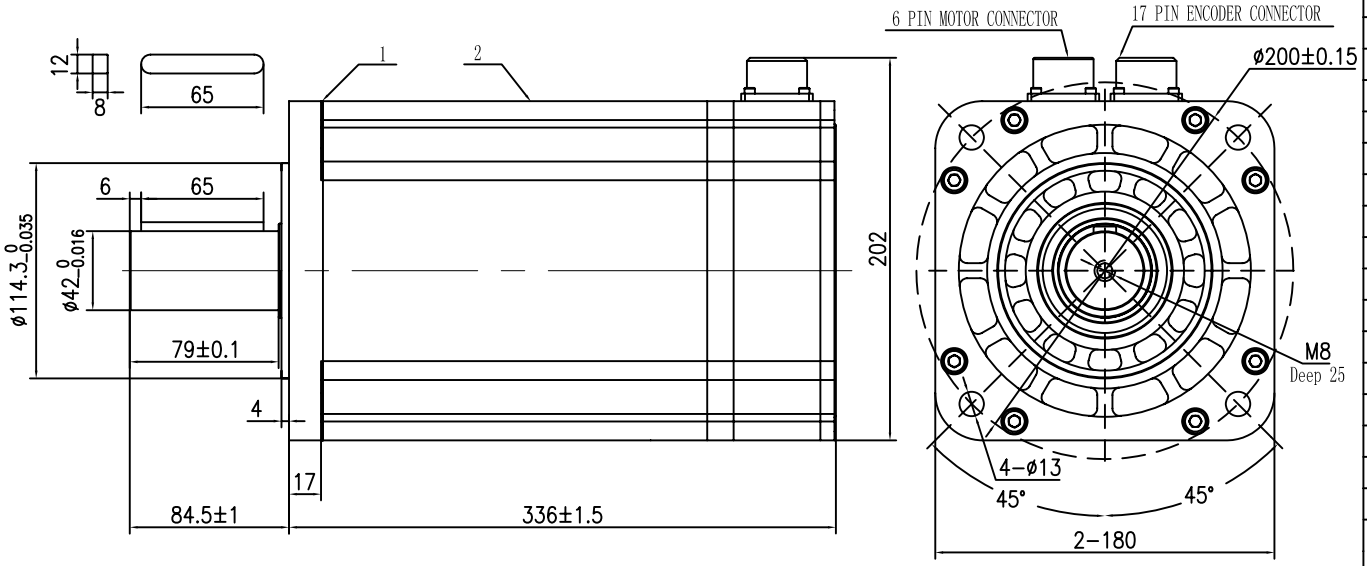
YL2046ZJ-Y
6 PIN

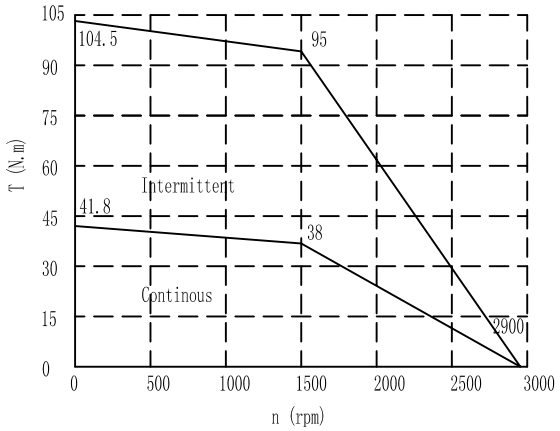
17 PIN Encoder Connector

Pin	Fuction	COLOR	Pin	Fuction	COLOR
1	DC+5V	RED	10	/U	BROWN
2	GND	BLACK	11	V	WHITE/BLACK
3	A	BLUE/BLACK	12	/V	WHITE
4	/A	BLUE	13	NC	
5	B	GREEN	14	Z	YELLOW
6	/B	GREEN/BLACK	15	/Z	YELLOW/BLACK
7	NC		16	W	GRAY/BLACK
8	NC		17	/W	GRAY
9	U	BROWN/BLACK			



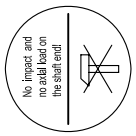
YL221ZJ
17 PIN



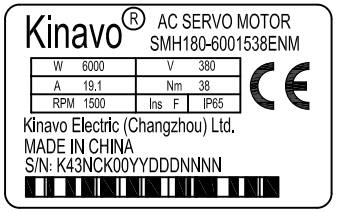


LABELS

①



②



Tecnical Data	
No. of poles	8
DC Link Voltage UDC (DC Link)	560
Rated Power PN (W)	6000
Rated Torque TN (N.m)	38
Rated Speed nN (rpm)	1500
Rated Current IN (A)	19.1
Maximum torque Tm (N.m)	95
Maximum Current Im (A)	47.75
Standstill torque Ts (N.m)	41.8
Standstill current Is (A)	21.01
Resistance line-line RL (Ω)	0.36
Inductance line-line LL (mH)	4.4 (avg)
Electrical time constant τe (ms)	12.22
Mechanical time constant τm (ms)	2.18
Voltage constant Ke (V/krpm)	127
Torque constant KT (Nm/A)	2.10
Rotor moment of inertia Jm (Kg.cm²)	154
Max. voltage rising du/dt(KV/μs)	8
Insulation class	F
Max. radial force Fr(N)	1600
Max. axial force Fa(N)	800
Weight(Kg)	34.4
Feed back device	2500p/rev incremental encoder
	OIH48-TS5214N8566
Temperature sensor	n.a.
Cooling method	Totally enclosed non-ventilated
protection level	IP65, shaft sealing IP54
Evironmental conditions — Temperature	-20℃~40℃
Evironmental conditions — Humidity	Below 90%RH (No dewing)
Evironmental conditions — Environment	Far away active gas, combustible gas, oil drop, ash.
Evironmental conditions — Installation altitude	UP TO 1000m:rated power, above 1000m:1.5% power decreasing per 100m, max. 4000m
Rating conditions — Mounting	Aluminum flange 457x457x12.7mm
Rating conditions — Temperature	60K housing temperature ring at 40℃ ambient

REV	ECN NO.	DRN	APP'D	DATE

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

MATERIAL | CONTR. | DESIGN | DATE | CHECK | APPD

FIRST ANGLE PROJECTION

SCALE | SHEET OF

P/N.	K3.162.4002SS
TITLE	Outside Diagram
USED ON	SMH180-6001538ENM
DWG NO.	REV C

KINAVO MOTOR