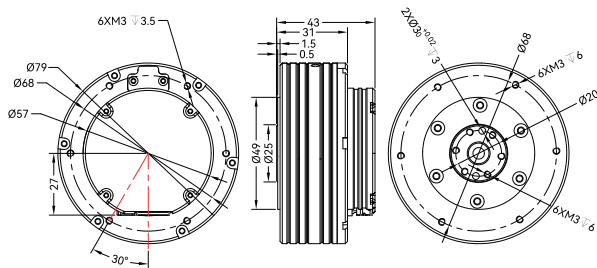
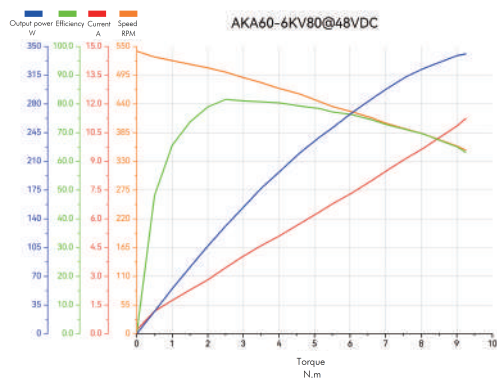


AK60-6 V3.0 KV80, $\Phi 79*43$ mm

PRODUCT DRAWING



ANALYTICAL GRAPH OF MOTOR OPERATION



SPECIFICATIONS

Application	Foot Robots, Exoskeleton Robots, AGV	Pole pairs	14
Driving way	FOC	Reduction ratio	6:1
Operation ambient temperature	-20°C~50°C	Back drive(Nm)	0.2
Winding type	Star	Backlash (°)	0.55
Insulation class	C	Temperature sensor	NTC MF51B 103F3950
Insulation High-voltage	500V 5mA/2s	Noise dB 65CM away the motor (Environment 45dB@1200rpm)	55
Insulation resistance	500V10M Ω	Basic load rating (dyn. C_r) N	3150
Phase	3	Basic load ratings (stat. C_0) N	4500

ELECTRIC PARAMETERS

Rated voltage (V)	24/48	Ke (V/krpm)	12.5
Rated torque (Nm)	3	Phase to Phase resistance (m Ω)	595
Rated speed (rpm)	233/490	Phase to Phase inductance (μ H)	676
Rated current (ADC)	3.8	Inertia (gcm ²)	243.5
Peak torque (Nm)	9	Km (Nm/ \sqrt W)	0.15
Peak current (ADC)	0.3/11.2	Mechanical time constant (ms)	0.81
Kv (rpm/V)	80	Electrical time constant (ms)	0.69
Kt (Nm/A)	0.135	Weight (g)	380
		Maximum torque weight ratio (Nm/kg)	23.68

CONNECTOR (WITH DRIVER)

POWER+CAN connector	XT30PW(2+2)-M	Inner ring encoder resolution	14bit
UART connector	A1257WR-S-3P	Outer ring encoder type	-
Inner loop encoder type	Magnetic encode	Outer ring encoder resolution	-
		Number of encoder	1