



Motor parameters	
No. of poles	16
DC Link Voltage(V)	48
Rated Power(W)	146
Rated Torque(N·m)	0.45
Rated Speed(rpm)	3100
Rated Current(A)	3.4
Maximum torque(N·m)	1.25
Maximum Current(A)	10.88
Standstill torque(N·m)	0.55
Standstill current(A)	3.74
Resistance line-line( $\Omega$ )	0.74
Close circuit inductance(mH)	0.98
Voltage constant(V/krpm)	7.5
Torque constant(Nm/A)	0.124

Harmonic gear-ratio				17-50	17-80	17-100	17-120			
Peak torque for start and stop ( Nm )				44	56	70	70			
Permissible max.value of ave.load torque(Nm)				34	35	51	51			
Rated torque(Nm)				21	29	31	31			
Permissible max. momentary torque(Nm)				91	113	143	112			
Max. output rotational speed(RPM)				60	37.5	30	25			
Without brakes	Rotor inertia(g·mm <sup>2</sup> )			67408						
	OD*Length(mm)			∅ 80*84.2						
	Weight(kg)			1.19						
With brakes	Rotor inertia (g·mm <sup>2</sup> )			70637						
	OD*Length(mm)			∅ 80*84.2						
	Weight(kg)			1.25						
Common parameters				Supply voltage: 48V(±10%) Inner diameter:18mm IP54 & Friction brake						
Optional device				Communication type: EtherCAT/CANopen/Modbus Output encoder resolution:19/20 Bit RP/AP:±7/±15 arc sec or ±10/±25 arc sec						
UNLESS OTHERWISE SPECIFIED: DIMENSIONS APPLY BEFORE COATINGS REMOVE ALL SHARP BURRS AND BREAK ALL SHARP EDGES UNSPECIFIED DIMENSIONAL TOLERANCE		MODEL			DRAWG NO.		QTY.	SCALE	MATERIAL	SURFACE TREATMENT
		eRob 80I		eRob80HxxI-XX-18EX_V5						
			NAME	DATE	SIZE	VERSION		1:1		
		DRAWG			A3	MC2C.BX.XX	MATERIAL CODE			
		CHECK			PERSPECTIVE		 ZeroErr Control Co., Ltd 零误差			
		APPROV			THIRD ANGLE					
ANGULAR TOLERANCE:±1°										