



NOTE:

1. UNSPECIFIED GEOMETRIC TOLERANCE GB/T1184-H (ISO 2768-2)
2. DIMENSIONS ARE MEASURED AT 20°C

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(Ω)	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) [Using 48V operating at rated torque]				60	37.5	30	25		
Without brakes	Rotor inertia(g·mm ²)			67408					
	OD*Length(mm)			Ø 80*84.2					
	Weight(kg)			1.19					
With brakes	Rotor inertia (g·mm ²)			70637					
	OD*Length(mm)			Ø 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		MODEL		DRAWG NO.		QTY.	SCALE	MATERIAL	SURFACE TREATMENT
		eRob 80I		eRob80H×I-XX-18EX_V5					
UNSPECIFIED DIMENSIONAL TOLERANCE			NAME	DATE	SIZE	VERSION		1:1	
> 0.5-3	±0.1	DRAWG			A3	MC2D.DX.XX	MATERIAL CODE		
> 3-6	±0.1								
> 6-30	±0.2								
> 30-120	±0.3								
> 120-400	±0.5	CHECK			PERSPECTIVE				
ANGULAR TOLERANCE:±1°		APPROV			THIRD ANGLE		 ZeroErr Control Co., Ltd		