



NOTE:  
1. UNSPECIFIED GEOMETRIC TOLERANCE GB/T1184-H (ISO 2768-2)  
2. DIMENSIONS ARE MEASURED AT 20°C  
3. NO ANGULAR FIXATION (CIRCUMFERENTIAL) BETWEEN SOCKET (REAR) & THERADED HOLE (FRONT)

Motor parameters	
No. of poles	16
DC Link Voltage(V)	48
Rated Power(W)	126
Rated Torque(N·m)	0.4
Rated Speed(rpm)	3000
Rated Current(A)	3.6
Maximum torque(N·m)	1.2
Maximum Current(A)	10.8
Standstill torque(N·m)	0.44
Standstill current(A)	3.96
Resistance line-line(Ω)	0.83
Close circuit inductance(mH)	1.42
Voltage constant(V/krpm)	7.56
Torque constant(Nm/A)	0.126

Harmonic gear-ratio		17-50	17-100						
Peak torque for start and stop ( Nm )		22	35						
Permissible max.value of ave.load torque(Nm)		17	26						
Rated torque(Nm)		10.5	16						
Permissible max. momentary torque(Nm)		46	67						
Max. output rotational speed(RPM) [Using 48V operating at rated torque]		60	30						
Without brakes	Rotor inertia(g·mm <sup>2</sup> )	29818							
	OD*Length(mm)	Ø 80*57.5							
	Weight(kg)	0.89							
With brakes	Rotor inertia (g·mm <sup>2</sup> )	31399							
	OD*Length(mm)	Ø 80*57.5							
	Weight(kg)	0.95							
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 80F		eRob80FXXI-XX-18CX_V4					
UNSPECIFIED DIMENSIONAL TOLERANCE			NAME	DATE	SIZE	VERSION		1:1	
> 0.5-3	±0.1	DRAWG			A3	MC2B.DX.XX	MATERIAL CODE		
> 3-6	±0.1								
> 6-30	±0.2								
> 30-120	±0.3	CHECK			PERSPECTIVE			ZeroErr Control Co., Ltd	
> 120-400	±0.5	APPROV			THIRD ANGLE				
ANGULAR TOLERANCE:±1°									