



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) & THREADED HOLES (FRONT)

Motor parameters	
No. of poles	16
DC Link Voltage(V)	48
Rated Power(W)	314
Rated Torque(N·m)	1
Rated Speed(rpm)	3000
Rated Current(A)	8.8
Maximum torque(N·m)	3
Maximum Current(A)	26.4
Standstill torque(N·m)	1.1
Standstill current(A)	9.68
Resistance line-line(Ω)	0.28
Close circuit inductance(mH)	0.46
Voltage constant(V/krpm)	7.24
Torque constant(Nm/A)	0.123

Harmonic gear-ratio		20-50	20-80	20-100	20-120
Peak torque for start and stop (Nm)		73	96	107	113
Permissible max.value of ave.load torque(Nm)		44	61	64	64
Rated torque(Nm)		33	44	52	52
Permissible max. momentary torque(Nm)		127	165	191	191
Max. output rotational speed(RPM) [Using 48V operating at rated torque]		60	37.5	30	25
Without brakes	Rotor inertia($\text{g}\cdot\text{mm}^2$)	95791			
	OD*Length(mm)	90x75.9			
	Weight(kg)	1.506			
With brakes	Rotor inertia ($\text{g}\cdot\text{mm}^2$)	110213			
	OD*Length(mm)	90x75.9			
	Weight(kg)	1.639			
Common parameters		Supply voltage: 48V($\pm 10\%$) Inner diameter:18mm IP54 & Friction brake			
Optional device		Communication type: EtherCAT/CANopen/Modbus Output encoder resolution:19/20 Bit RP/AP: $\pm 7/\pm 15$ arc sec or $\pm 10/\pm 25$ arc sec			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS APPLY BEFORE COATINGS REMOVE ALL SHARP BURRS AND BREAK ALL SHARP EDGES		MODEL		DRAWG NO.	
		eRob 80I		eRob90HxxI-XX-18EX_V6	
UNSPECIFIED DIMENSIONAL TOLERANCE		NAME	DATE	SIZE	VERSION
		> 0.5-3	± 0.1	> 3-6	± 0.1
		> 6-30	± 0.2	> 30-120	± 0.3
		> 120-400	± 0.5	> 120-400	± 0.5
ANGULAR TOLERANCE: $\pm 1^\circ$		DRAWG	CHECK	PERSPECTIVE	
		APPROV	THIRD ANGLE	ZeroErr Control Co., Ltd	

MILLIMETERS