



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 85*111.8			
	Weight(kg)	1.69			
With brakes	Rotor inertia (g·mm ²)	70637			
	OD*Length(mm)	Ø 85*111.8			
	Weight(kg)	1.75			
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.	
		eRob80T		eRob80H**T-XX-18XX_V5	
UNSPECIFIED DIMENSIONAL TOLERANCE		NAME		DATE	
> 0.5-3		±0.1		SIZE	
> 3-6		±0.1		VERSION	
> 6-30		±0.2		1:2	
> 30-120		±0.3		MATERIAL CODE	
> 120-400		±0.5		PERSPECTIVE	
ANGULAR TOLERANCE:±1°		THIRD ANGLE		ZeroErr Control Co., Ltd	

MILLIMETERS