



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

Motor parameters	
No. of poles	10
DC Link Voltage(V)	48
Rated Power(W)	1000
Rated Torque(N·m)	4.78
Rated Speed(rpm)	2000
Rated Current(A)	22
Maximum torque(N·m)	14.3
Maximum Current(A)	71
Standstill torque(N·m)	5.25
Standstill current(A)	24.12
Resistance line-line(Ω)	0.059
Close circuit inductance(mH)	0.32
Voltage constant(V/krpm)	13.5
Torque constant(Nm/A)	0.22

Harmonic gear-ratio			40-50	40-80	40-100	40-120	40-160		
Peak torque for start and stop (Nm)			402	519	568	617	647		
Permissible max.value of ave.load torque(Nm)			196	284	372	451	451		
Rated torque(Nm)			137	206	265	294	294		
Permissible max. momentary torque(Nm)			686	980	1080	1180	1180		
Max. output rotational speed(RPM) [Using 48V operating at rated torque]			40	25	20	16.7	12.5		
Without brakes	Rotor inertia(g·mm ²)		1517148						
	OD*Length(mm)		Ø 170*144.9						
	Weight(kg)		9.29						
With brakes	Rotor inertia (g·mm ²)		1545541						
	OD*Length(mm)		Ø 170*144.9						
	Weight(kg)		9.5						
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 170I		eRob170H××I-XX-18CX_V3					
UNSPECIFIED DIMENSIONAL TOLERANCE									
> 0.5-3	±0.1		NAME	DATE	SIZE	VERSION		1:2	
> 3-6	±0.1	DRAWG			A3	MC2A.DX.XX	MATERIAL CODE		
> 6-30	±0.2								
> 30-120	±0.3	CHECK			PERSPECTIVE		 ZeroErr Control Co., Ltd		
> 120-400	±0.5	APPROV			THIRD ANGLE				
ANGULAR TOLERANCE±1°									

MILLIMETERS