


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)		40	25	20	16.7	12.5			
Without brakes	Rotor inertia(g·mm <sup>2</sup> )	1517148							
	OD*Length(mm)	Ø 170*144.9							
	Weight(kg)	9.29							
With brakes	Rotor inertia (g·mm <sup>2</sup> )	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-18EX_V3					
UNSPECIFIED DIMENSIONAL TOLERANCE									
> 0.5-3		±0.1					1:2		
> 3-6		±0.1		DRAWG					
> 6-30		±0.2				A3	MC2A.BX.XX	MATERIAL CODE	
> 30-120		±0.3		CHECK		PERSPECTIVE		 ZeroErr Control Co., Ltd	
> 120-400		±0.5				THIRD ANGLE			
ANGULAR TOLERANCE:±1°		APPROV							

MILLIMETERS