



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)	100
Rated Torque(N·m)	0.32
Rated Speed(rpm)	3000
Rated Current(A)	2.55
Maximum torque(N·m)	0.96
Maximum Current(A)	7.8
Standstill torque(N·m)	0.36
Standstill current(A)	2.87
Resistance line-line( $\Omega$ )	1.99
Close circuit inductance(mH)	1.88
Voltage constant(V/krpm)	8.0
Torque constant(Nm/A)	0.132

Harmonic gear-ratio		14-50	14-80	14-100	14-120				
Peak torque for start and stop ( Nm )		23	30	36	36				
Permissible max.value of ave.load torque(Nm)		9	14	14	14				
Rated torque(Nm)		7	10	10	10				
Permissible max. momentary torque(Nm)		46	61	70	70				
Max. output rotational speed(RPM) [Using 48V operating at rated torque]		60	37.5	30	25				
Without brakes	Rotor inertia(g·mm <sup>2</sup> )	22674							
	OD*Length(mm)	Ø 70*71							
	Weight(kg)	0.82							
With brakes	Rotor inertia (g·mm <sup>2</sup> )	26128							
	OD*Length(mm)	Ø 70*71							
	Weight(kg)	0.88							
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
UNSPECIFIED DIMENSIONAL TOLERANCE		eRob 70I		eRob70H××I-XX-18CX_V5					
> 0.5-3	±0.1	DRAWG	NAME	DATE	SIZE	VERSION	1:1		
> 3-6	±0.1				A3	MC2D.DX.XX	MATERIAL CODE		
> 6-30	±0.2		CHECK			PERSPECTIVE		 ZeroErr Control Co., Ltd	
> 30-120	±0.3		APPROV			THIRD ANGLE			
> 120-400	±0.5								
ANGULAR TOLERANCE:±1°									