



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)	75
Rated Torque(N·m)	0.24
Rated Speed(rpm)	3000
Rated Current(A)	1.91
Maximum torque(N·m)	0.72
Maximum Current(A)	5.9
Resistance line-line( $\Omega$ )	2.59
Close circuit inductance(mH)	2.07
Voltage constant(V/krpm)	7.24
Torque constant(Nm/A)	0.12

Harmonic gear-ratio		14-50		14-80		14-100			
Peak torque for start and stop ( Nm )		12		16		19			
Permissible max.value of ave.load torque(Nm)		4.8		7.7		7.7			
Rated torque(Nm)		3.7		5.4		5.4			
Permissible max. momentary torque(Nm)		23		35		35			
Max. output rotational speed(RPM) [Using 48V operating at rated torque]		60		37.5		30			
Without brakes	Rotor inertia(g·mm <sup>2</sup> )	43656							
	OD*Length(mm)	Ø 70*60.4							
	Weight(kg)	0.77							
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 70F(WITHOUT BRAKES)		eRob70FxxI-F-XX-18EX_V3					
> 0.5-3	±0.1	DRAWG	NAME	DATE	SIZE	VERSION	1:1		
> 3-6	±0.1				A3	MC2A.BX.XX	MATERIAL CODE		
> 6-30	±0.2		CHECK			PERSPECTIVE			
> 30-120	±0.3								
> 120-400	±0.5	APPROV			THIRD ANGLE		ZeroErr Control Co., Ltd		
ANGULAR TOLERANCE:±1°									