



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( $\Omega$ )	0.059
Close circuit inductance(mH)	0.32
Voltage constant(V/krpm)	13.5
Torque constant(Nm/A)	0.22

Harmonic gear-ratio				32-50	32-80	32-100	32-120	32-160	
Peak torque for start and stop ( Nm )				281	395	433	459	484	
Permissible max.value of ave.load torque(Nm)				140	217	281	281	281	
Rated torque(Nm)				99	153	178	178	178	
Permissible max. momentary torque(Nm)				497	738	841	892	892	
Max. output rotational speed(RPM) [Using 48V operating at rated torque]				40	25	20	16.7	12.5	
Without brakes	Rotor inertia(g·mm <sup>2</sup> )			1244894					
	OD*Length(mm)			Ø 142*133.9					
	Weight(kg)			6.49					
With brakes	Rotor inertia (g·mm <sup>2</sup> )			1273287					
	OD*Length(mm)			Ø 142*133.9					
	Weight(kg)			6.7					
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 142I		eRob142H××I-XX-18EX_V4					
UNSPECIFIED DIMENSIONAL TOLERANCE			NAME	DATE	SIZE	VERSION		2:3	
> 0.5-3	±0.1	DRAWG			A3	MC2B.DX.XX	MATERIAL CODE		
> 3-6	±0.1								
> 6-30	±0.2								
> 30-120	±0.3	CHECK			PERSPECTIVE		 ZeroErr Control Co., Ltd		
> 120-400	±0.5	APPROV			THIRD ANGLE				
ANGULAR TOLERANCE:±1°									