



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)	26
Maximum torque(N·m)	15
Maximum Current(A)	56
Resistance line-line( $\Omega$ )	0.069
Inductance line-line(mh)	0.37
Voltage constant(V/krpm)	12.2
Torque constant(Nm/A)	0.153

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> )	1208461							
	OD*Length(mm)	∅ 148*163							
	Weight(kg)	8.01							
With brakes	Rotor inertia (g·mm <sup>2</sup> )	1236854							
	OD*Length(mm)	∅ 148*163							
	Weight(kg)	8.22							
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 142T		eRob142H××T-XX-18XX_V3					
UNSPECIFIED DIMENSIONAL TOLERANCE			NAME	DATE	SIZE	VERSION		1:2	
> 0.5-3		±0.1		DRAWG		A3	MC1A.XX.XX	MATERIAL CODE	
> 3-6		±0.1							
> 6-30		±0.2							
> 30-120		±0.3							
> 120-400		±0.5		CHECK			PERSPECTIVE		
ANGULAR TOLERANCE:±1°		APPROV			THIRD ANGLE		 ZeroErr Control Co., Ltd		