



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)	293
Rated Torque(N·m)	0.85
Rated Speed(rpm)	3300
Rated Current(A)	6.7
Maximum torque(N·m)	2.55
Maximum Current(A)	21.44
Standstill torque(N·m)	1.1
Standstill current(A)	7.37
Resistance line-line(Ω)	0.28
Close circuit inductance(mH)	0.58
Voltage constant(V/krpm)	8.0
Torque constant(Nm/A)	0.132

Harmonic gear-ratio				20-50	20-80	20-100	20-120		
Peak torque for start and stop (Nm)				73	96	107	113		
Permissible max.value of ave.load torque(Nm)				44	61	64	64		
Rated torque(Nm)				33	44	52	52		
Permissible max. momentary torque(Nm)				127	165	191	191		
Max. output rotational speed(RPM) [Using 48V operating at rated torque]				60	37.5	30	25		
Without brakes	Rotor inertia(g·mm ²)			139057					
	OD*Length(mm)			Ø90*98.9					
	Weight(kg)			1.75					
With brakes	Rotor inertia (g·mm ²)			147025					
	OD*Length(mm)			Ø90*98.9					
	Weight(kg)			1.87					
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 90I		eRob90H×I-XX-18CX_V3					
UNSPECIFIED DIMENSIONAL TOLERANCE									
> 0.5-3	±0.1		NAME	DATE	SIZE	VERSION		1:1	
> 3-6	±0.1	DRAWG			A3	MC2A.DX.XX	MATERIAL CODE		
> 6-30	±0.2								
> 30-120	±0.3	CHECK			PERSPECTIVE				
> 120-400	±0.5	APPROV			THIRD ANGLE		ZeroErr Control Co., Ltd		
ANGULAR TOLERANCE:±1°									

MILLIMETERS