



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.	
		eRob 90I		eRob90H××I-XX-18EX_V3	
UNSPECIFIED DIMENSIONAL TOLERANCE		QTY.	SCALE	MATERIAL	SURFACE TREATMENT
		1:1			
DRAWG		NAME	DATE	SIZE	VERSION
CHECK				A3	MC2A.DX.XX
APPROV				PERSPECTIVE	
ANGULAR TOLERANCE:±1°				THIRD ANGLE	

MILLIMETERS