


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)		60	37.5	30	25				
Without brakes	Rotor inertia(g·mm ²)		139057						
	OD*Length(mm)		Ø 90*98.9						
	Weight(kg)		1.75						
With brakes	Rotor inertia (g·mm ²)		147025						
	OD*Length(mm)		Ø 90*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-18EX_V3					
UNSPECIFIED DIMENSIONAL TOLERANCE									
> 0.5-3		±0.1						1:1	
> 3-6		±0.1							
> 6-30		±0.2		A3		MC2A.BX.XX		MATERIAL CODE	
> 30-120		±0.3							
> 120-400		±0.5							
ANGULAR TOLERANCE:±1°				THIRD ANGLE				ZeroErr Control Co., Ltd	