

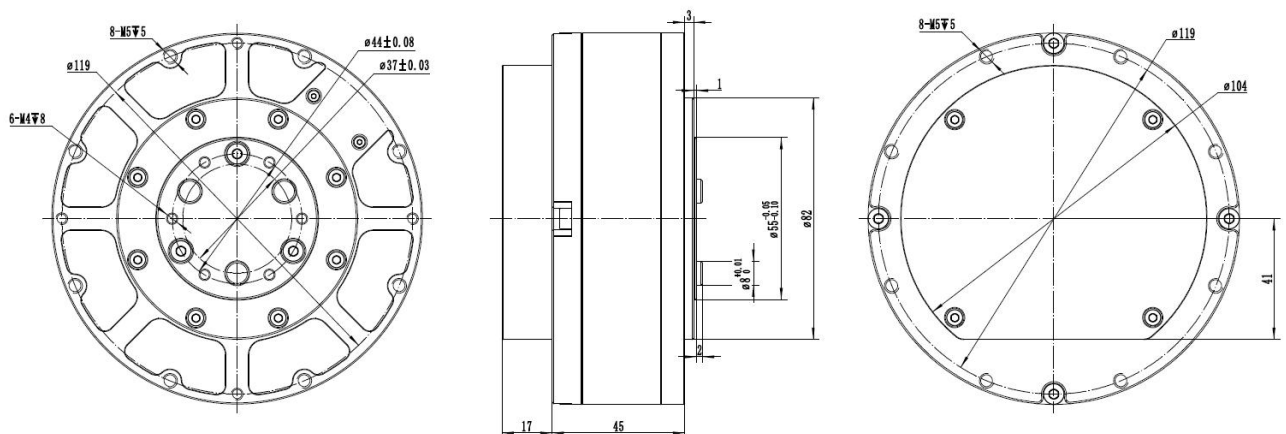
Servo Joint Motor Series



Robot joint module motor

Widely used in various industrial robots and service robots

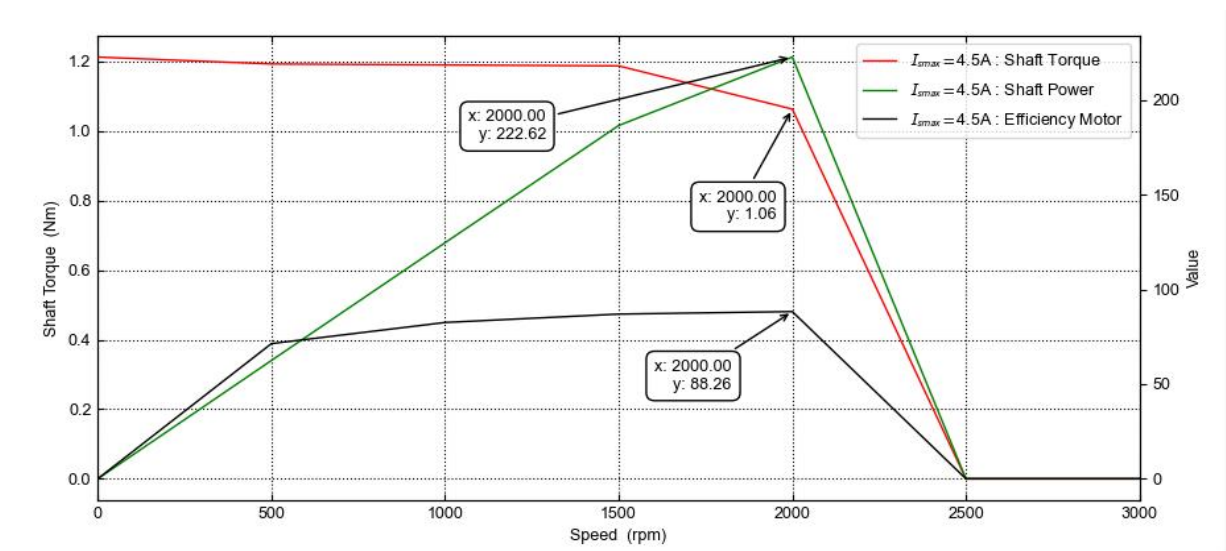
Dimensions (mm)



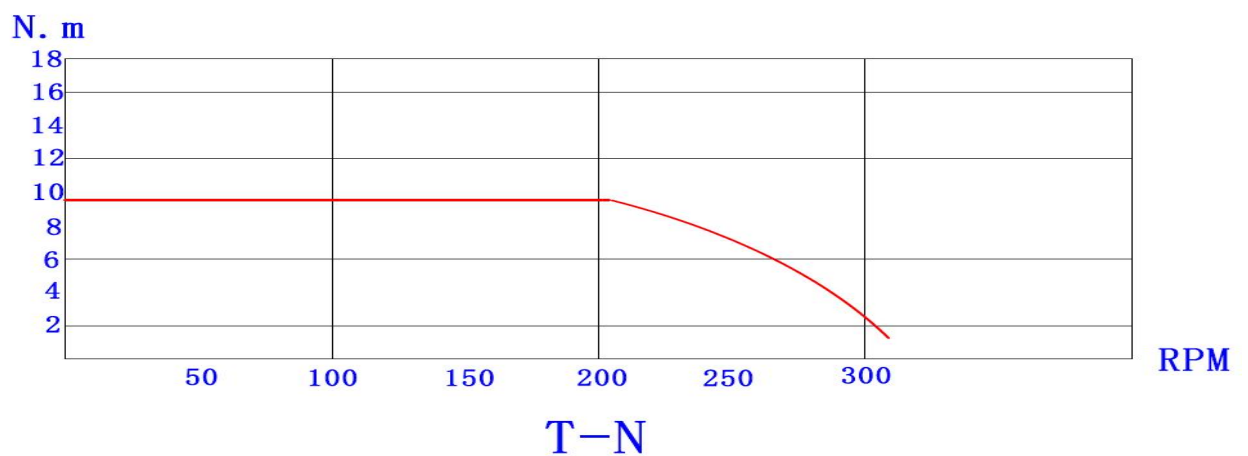
Performance Data

Model	Units	ZGC81JM20-4 8V-O-i9 (S)	ZGC81JM30-4 8V-O-i9 (S)	ZGC100JM30- 48V-O-i9 (S)	ZGC100JM45- 48V-O-i9 (S)
Number of Poles	/	40	40	40	40
Magnetic Encoder	pcs	1	1	1	1
Phase	/	3	3	3	3
Voltage Range	(VDC)	24-60V	24-60V	24-60V	24-60V
Rated Voltage	(VDC)	48	48	48	48
Rated Power	(W)	200	300	340	450
Rated Torque	(N.m)	9	14	16	22
Peak Torque	(N.m)	18	28	32	44
Rated Speed	(RPM)	200±5%	200±5%	200±10%	200±5%
No-load Speed	(RPM)	230±5%	230±5%	230±10%	230±5%
Rated Current	(A)	4.5	6.1	6.5	9
Running Direction	/	CW/CCW	CW/CCW	CW/CCW	CW/CCW
Back E.M.F	(Vs/Rad)	0.22	0.22	0.22	0.22
Line resistance	(Ω)	0.8	0.4	0.3	0.18
Line inductance	(mH)	0.3	0.19	0.2	0.12
reduction ratio	9				
Insulation Level	F				
Safety Class	IP(54) Excluding output and driver interfaces end				
Encoder Type	Absolute value				
Environment	(-20℃---60℃ humidity <90%)				
Drive Method	FOC				

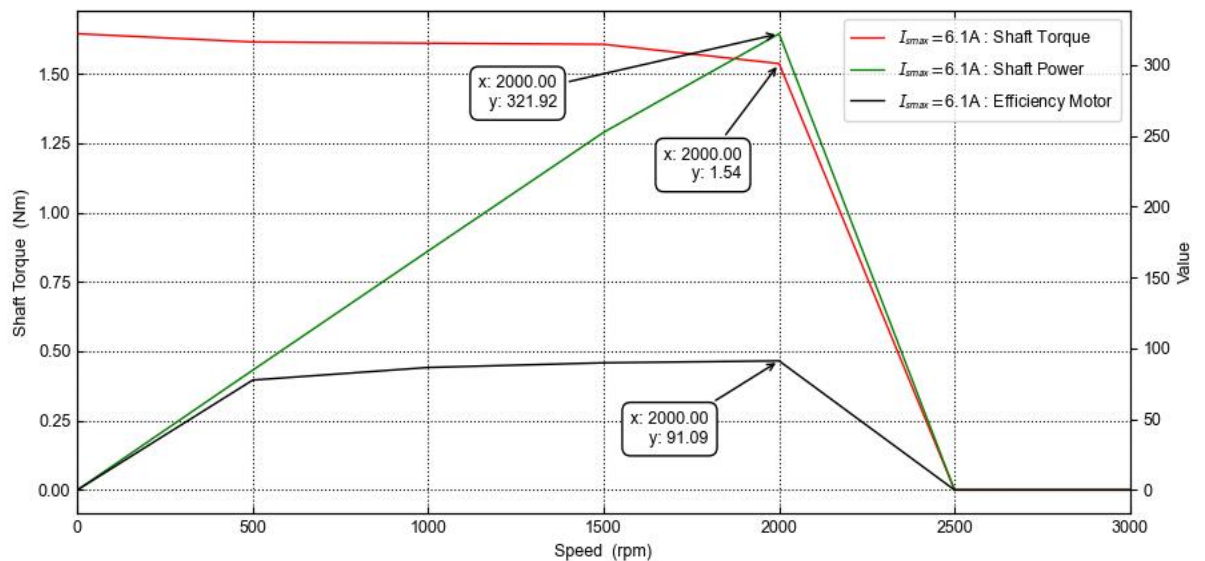
ZGC81JM20-48V-O-i9 (S) Motor performance parameters(Excluding gear reduction)



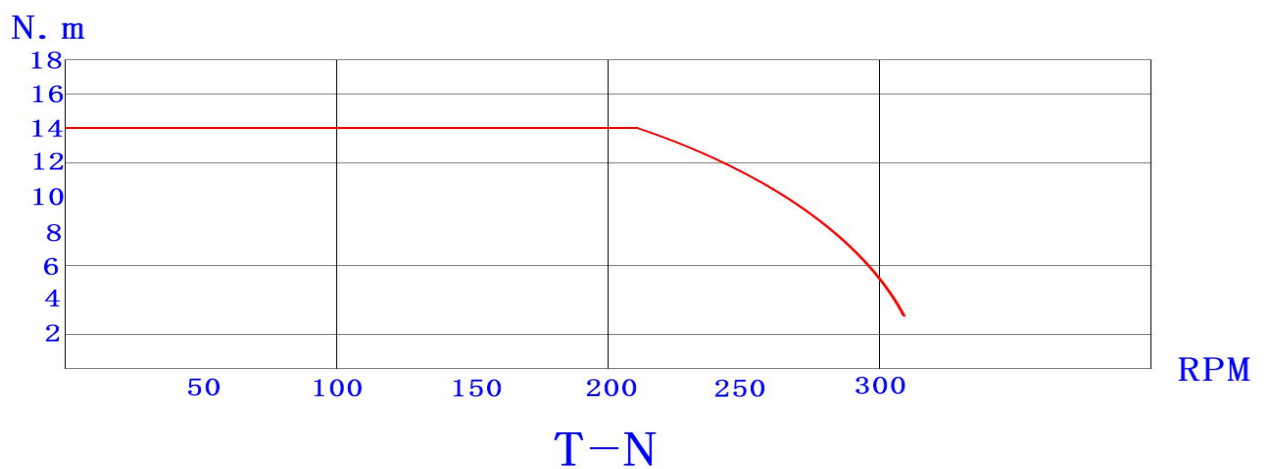
ZGC81JM20-48V-O-i9 (S) Gearbox operation TN curve



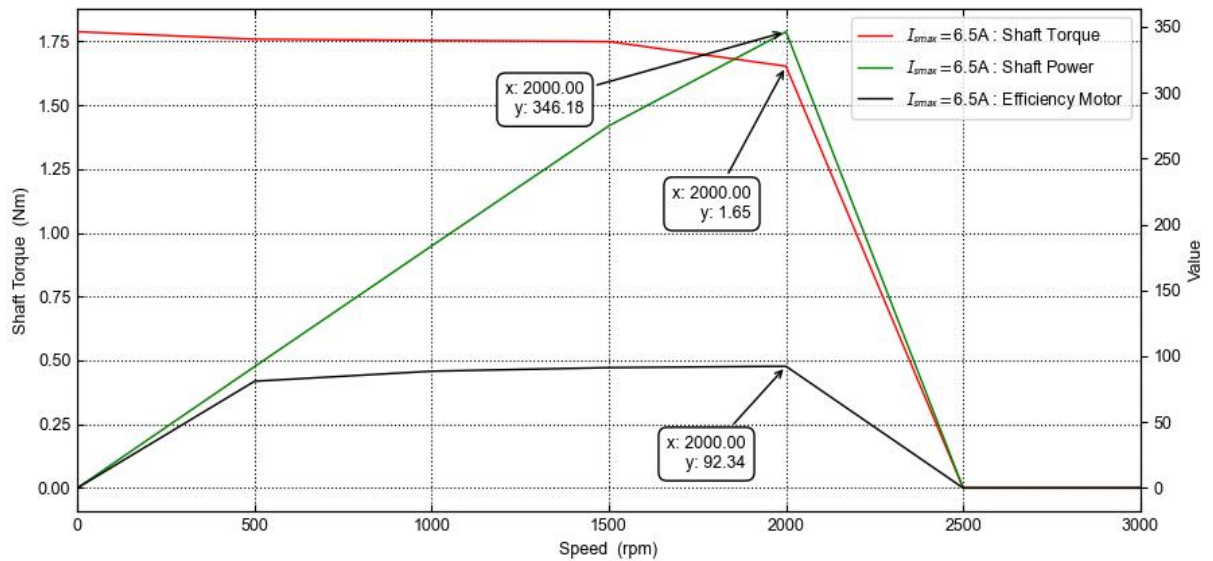
ZGC81JM30-48V-O-i9 (S) Motor performance parameters(Excluding gear reduction)



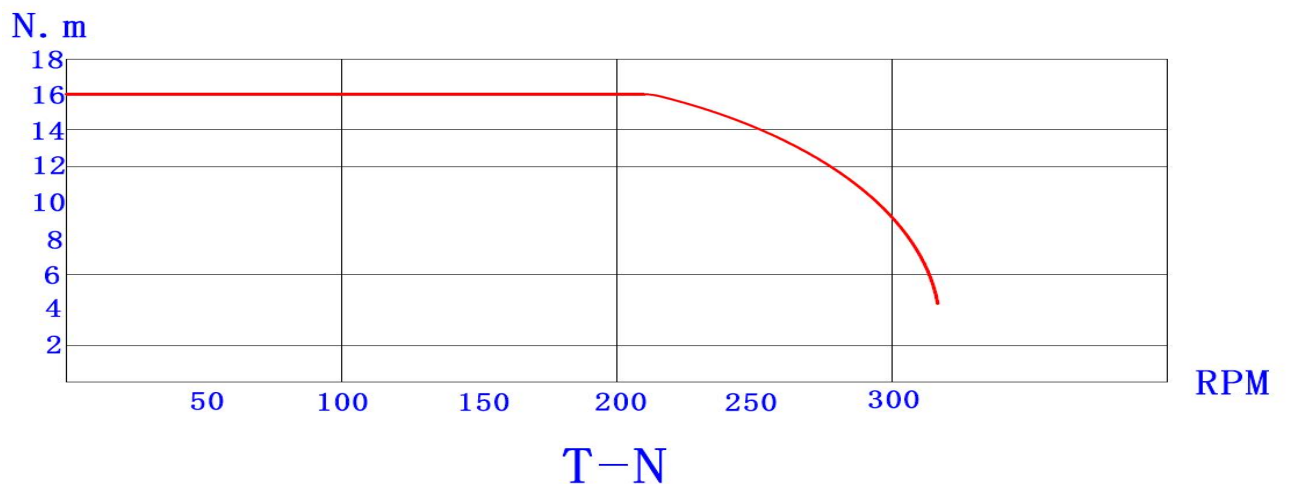
ZGC81JM30-48V-O-i9 (S) Gearbox operation TN curve



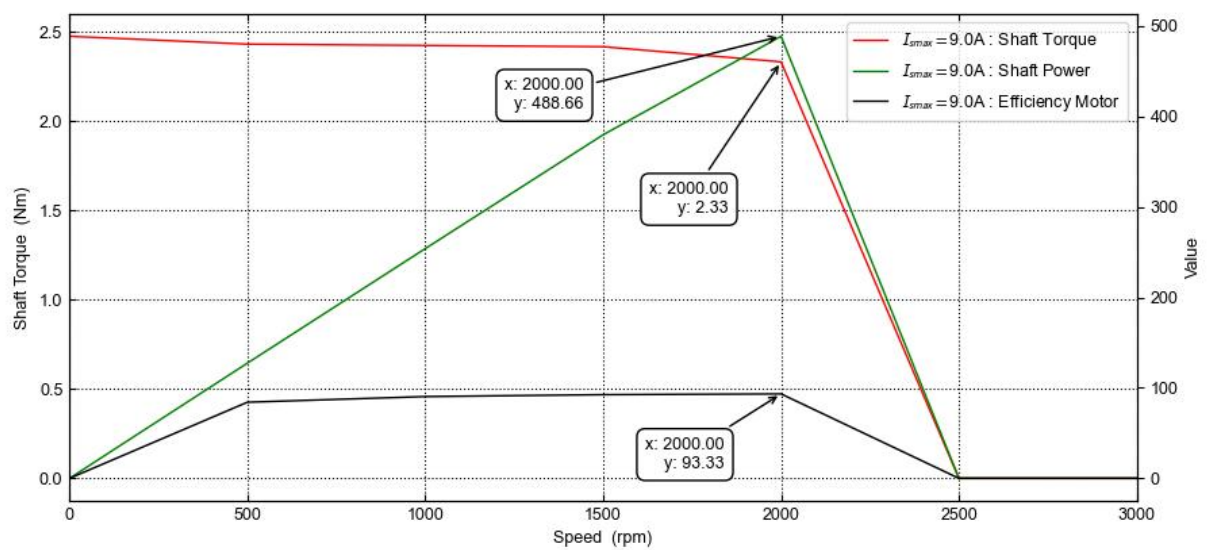
ZGC100JM30-48V-O-i9 (S) Motor performance parameters(Excluding gear reduction)



ZGC100JM30-48V-O-i9 (S) Gearbox operation TN curve



ZGC100JM45-48V-O-i9 (S) Motor performance parameters(Excluding gear reduction)



ZGC100JM45-48V-O-i9 (S) Gearbox operation TN curve

