





### AC - Servomotor: IBM-145-140-120-010-565A-DO-100

Pos	Description	Character	Unit	Value	Tolerances
1	Rated Power 1)	P <sub>n</sub>	kW	6.28	+/-10%
2	Rated Torque 1)	M <sub>n</sub>	Nm	20	+/-10%
3	Continuous Stall Torque 1)	M <sub>o</sub>	Nm	27	+/-10%
4	Peak Torque	M <sub>o_max</sub>	Nm	90	+/-10%
5	Rated current 1)	I <sub>n</sub>	A <sub>rms</sub>	13.8	+/-10%
6	Rated voltage	U <sub>DC</sub>	V <sub>DC</sub>	565	+/-10%
7	Continuous Stall current 1)	I <sub>o</sub>	A <sub>rms</sub>	19	+/-10%
8	Peak current	I <sub>o_max</sub>	A <sub>rms</sub>	69	+/-10%
9	Rated speed	n	rot/min	3000	+/-10%
10	Maximum speed	n <sub>max</sub>	rot/min	4700	+/-10%
11	Resistance 2)	R <sub>ph/ph</sub>	Ω	0.55	+/-10%
12	Inductance 2)	L <sub>ph/ph</sub>	mH	3.3	+/-20%
13	Torque constant 1)	KT	Nm/A <sub>rms</sub>	1.44	+/-10%
14	BEMF constant 2)	KE	V <sub>rms</sub> /krpm	105.0	+/-10%
15	Number of magnetic poles			10	
16	Thermal resistance	R <sub>th</sub>	C°/W	0.53	+/-10%
17	Static friction torque	M <sub>R</sub>	Nm	0.5	+/-25%
18	Resolver model	-	-	-	
19	Number of poles of the resolver			-	
20	Moment of inertia	J <sub>M</sub>	kgcm <sup>2</sup>	62	
21	Weight	m	kg	20	
22	Degree of protection	IP	-	55	
23	Ambient temperature	v	C° min...max	-15 +40	
24	Winding - protection	-	-	PT1000	
25	Cooling method	-	-	-	natural cooling
26	Insulation class	-	-	F	
27	Vibration severity	Class	-	G2.5	
28	Rotational accuracy	-	mm	0.035	
29	Shaft height tolerance	-	mm	0.012	

1) Motor mounted on a metallic flange with dimensions 450x450x50 mm<sup>3</sup>

Ambient temperature 40 °C

2) Measured at 25 °C

