

4.18 MSK100B Technical Data

Description	Symbol	Unit	MSK100B-020 0-NN	MSK100B-030 0-NN	MSK100B-040 0-NN	MSK100B-045 0-NN
continuous torque at standstill, 60 K	M0_60	Nm	28,0			
continuous current at standstill, 60 K	I0_60(eff)	A	14,7	17,4	23,7	28,5
continuous torque at standstill, 100 K	M0_100	Nm	33,0			
continuous current at standstill, 100 K	I0_100(eff)	A	17,3	20,5	30,8	33,6
continuous torque at standstill, sur- face	M0_S	Nm	42,0			
continuous current at standstill, surface	I0_S(eff)	A	42,0			
maximum torque		Nm	22,1	26,1	35,6	42,8
maximum current	Mmax	A	102,0			
torque constant at 20 °C ¹⁾	Imax(eff)	Nm/A	66,2	78,3	106,7	110,7
constant voltage at 20 °C ²⁾	KM_N	V/min ⁻¹	2,10	1,77	1,30	1,14
winding resistance at 20 °C	KEMK_1000	Ohm	129,5	108,5	80,0	70,0
winding inductivity	R12	mH	0,58	0,43	0,23	0,17
leakage capacitance of the compo- nent	L12	nF	7,600	5,500	3,100	2,200
number of pole pairs	Cab	p	10,3	9,3	10,3	
moment of inertia of rotor without brake ³⁾	Jrot	-	4			
thermal time constant	Tth	kg*m ²	0,01920			
maximum speed	nmax	min	40,0			
sound pressure level	LP	min ⁻¹	4100	4750	4500	
Mass ⁴⁾	m	dB[A]	<75			
ambient temperature during opera- tion	Tum	kg	34,0 (36,0)			
degree of protection		°C	0 ... 40			
insulation class EN 60034-1		-	IP65			
		-	F			

1) 2)

3)

4)

Manufacturing tolerance ±5%

Specified without brake. If necessary, add the moment of inertia brake.
(...) values for motors with holding brake, sorted (holding brake 1, hold-
ing brake 2 ...)

Fig.4-91:

MSK - TechnicalData(naturalandsurfacecooling)

5.11 Size MSK100

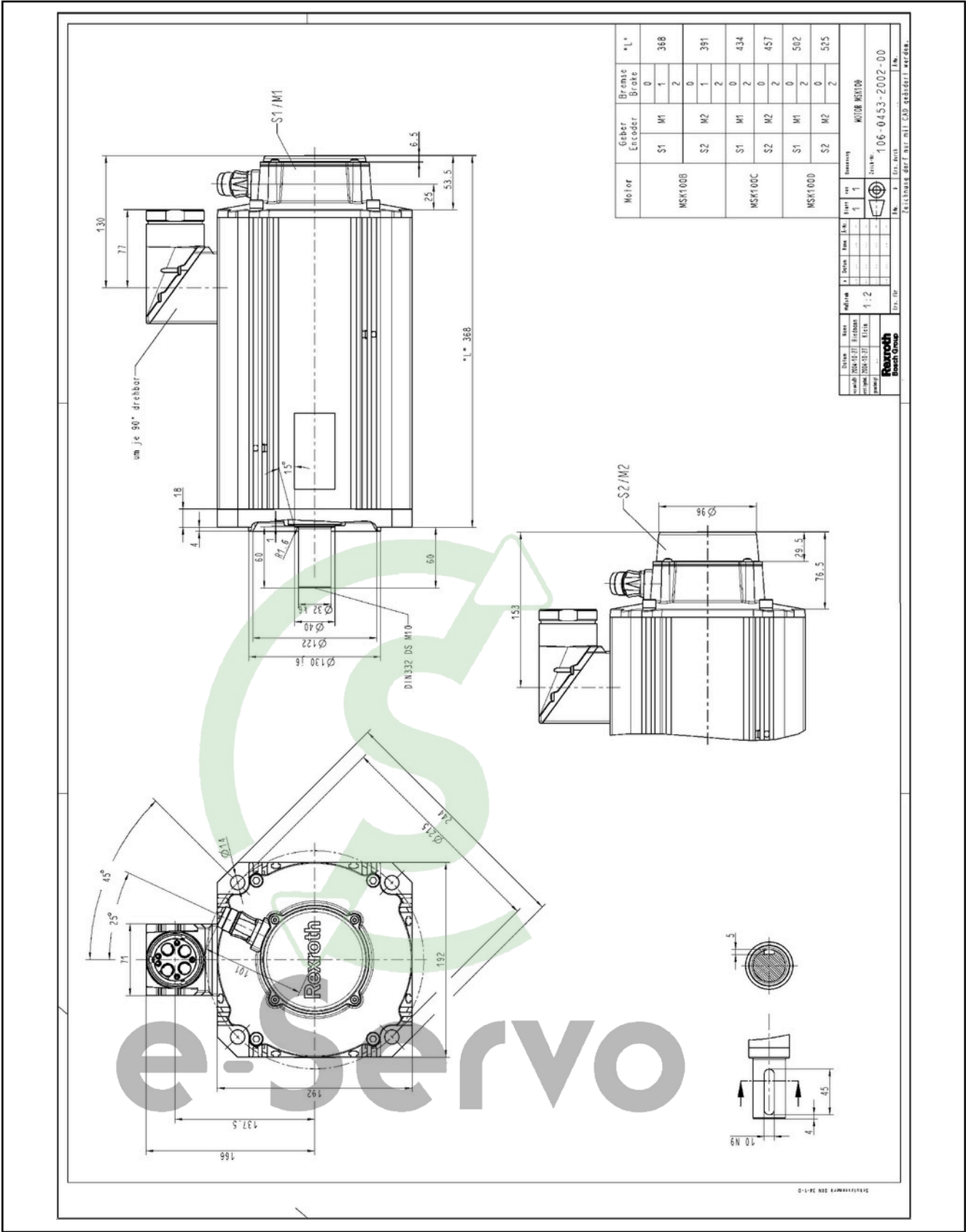


Fig.5-12: MSK100 specification