

Technical data

4.11 MSK050C Technical data

Designation	Symbol	Unit	MSK050C-0300-NN	MSK050C-0450-NN	MSK050C-0600-NN
Continuous torque at standstill 60 K	M _{0_60}	Nm	5.0		
Continuous current at standstill 60 K	I _{0_60(eff)}	A	3.1	4.7	6.2
Continuous torque at standstill 100 K	M _{0_100}	Nm	5.5		
Continuous current at standstill 100 K	I _{0_100(eff)}	A	3.4	5.2	6.8
Maximum torque	M _{max}	Nm	15.0		
Maximum current	I _{max(eff)}	A	12.4	18.8	24.8
Torque constant at 20 °C	K _{M_N}	Nm/A	1.77	1.16	0.89
Voltage constant at 20 °C ¹⁾	K _{EMK_1000}	V/1000 min-1	109.0	71.5	55.0
Winding resistance at 20 °C	R ₁₂	Ohm	6.6	3.2	1.7
Winding inductance	L ₁₂	mH	46.1	20.2	11
Leakage capacitance of the component	C _{dis}	nF	2.6	2.4	2.6
Number of pole pairs	p	-	4		
Moment of inertia of rotor	J _{red}	kg*m²	0.00033		
Thermal time constant	T _{th_nom}	min	14.0		
Maximum speed (electric)	n _{max el}	min ⁻¹	4700	6000	
Sound pressure level	L _p	dB[A]	< 75		
Mass ²⁾	m	kg	5.4 (6.3)		
Ambient temperature during operation	T _{amb}	°C	0 ... 40		
Protection class (EN 60034-5)	-	-	IP65		
Thermal class (EN 60034-1)	T.CL.	-	155		
Last amended: 2014-01-21					

Last amended: 2014-01-21

- 1) Manufacturing tolerance ±5%
 2) (...) Motors with holding brake 1, 2, ...
 Tab. 4-10: MSK - Technical data

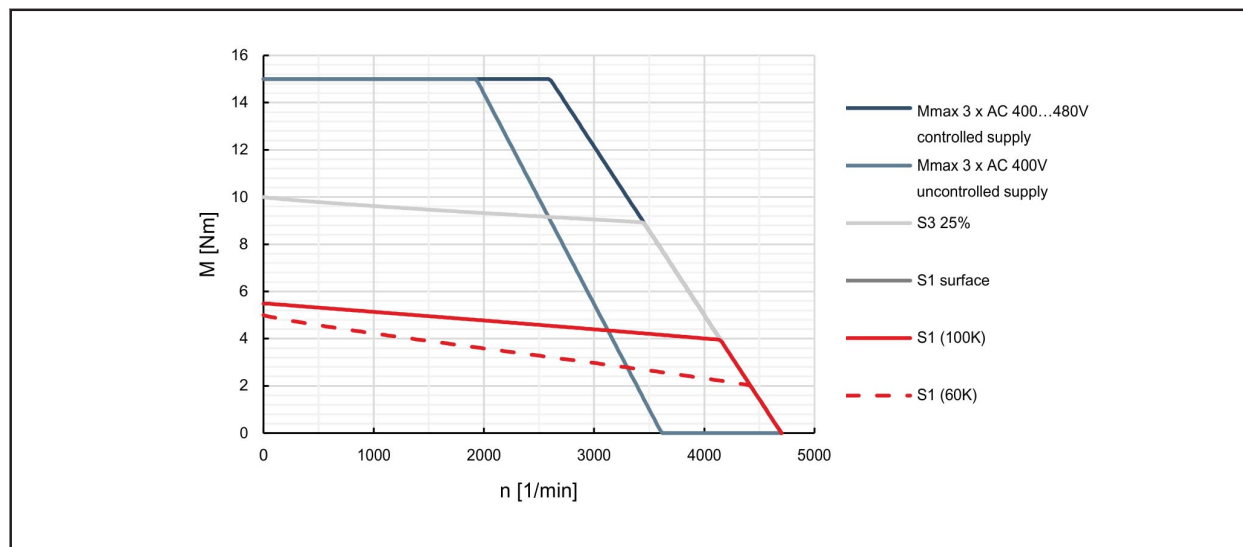


Fig. 4-13: Characteristic curves of motor MSK050C-0300

Technical data

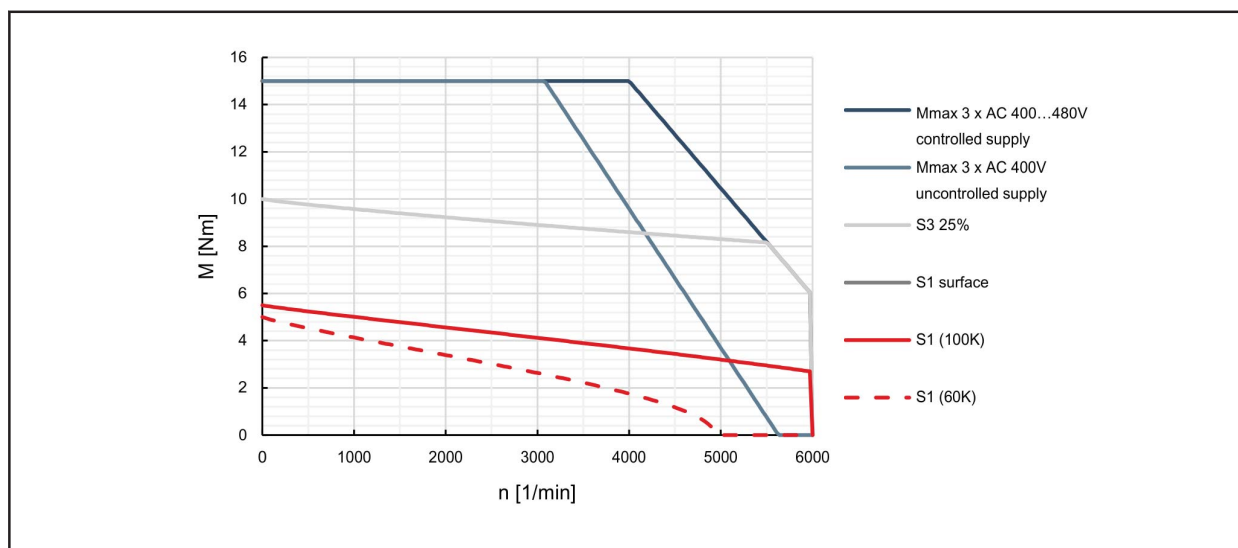


Fig. 4-14: Characteristic curves of motor MSK050C-0450

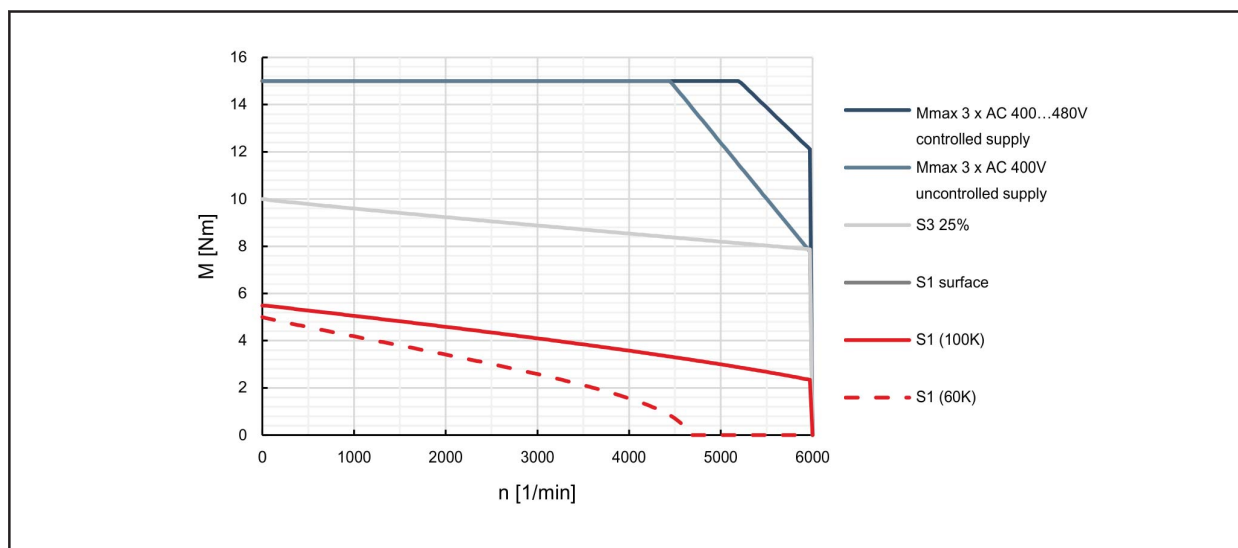


Fig. 4-15: Characteristic curves of motor MSK050C-0600

5.5 MSK050 Specifications

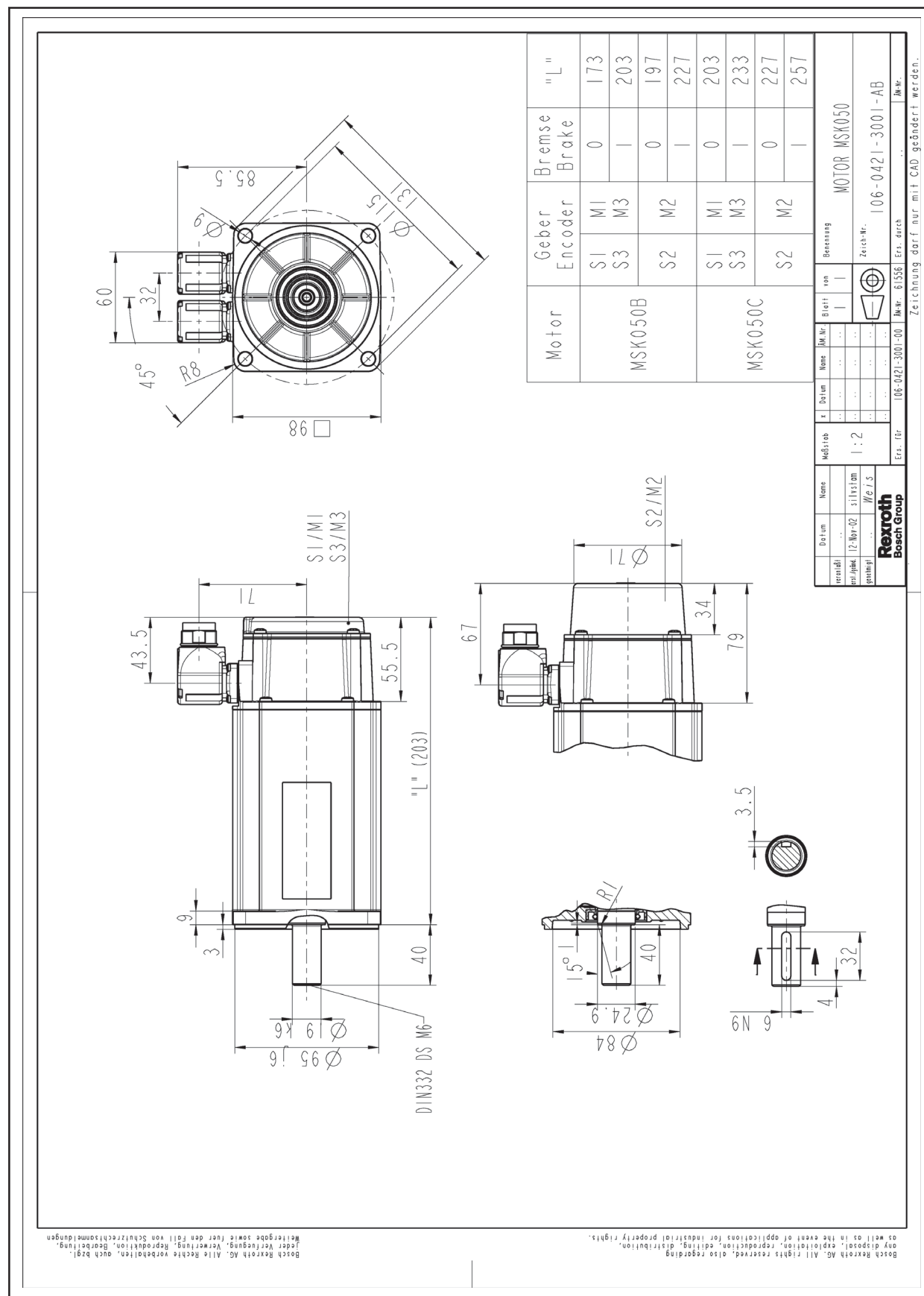


Fig. 5-4: MSK050 specification

