

4.16 MSK076C Technical Data

Description	Symbol	Unit	MSK076C-0300-NN	MSK076C-0450-NN
Continuous torque at standstill, 60K	M_{0_60}	Nm	12,0	
Continuous current at standstill, 60K	$I_{0_60(\text{eff})}$	A	7,2	12,2
Continuous torque at standstill, 100K	M_{0_100}	Nm	13,5	
Continuous current at standstill, 100K	$I_{0_100(\text{eff})}$	A	8,1	13,7
Maximum torque	M_{max}	Nm	43,5	
Maximum current	$I_{\text{max}(\text{eff})}$	A	32,4	54,9
Torque constant at 20°C	K_{M_N}	Nm/A	1,84	1,14
Constant voltage at 20°C	K_{EMK_1000}	V/min ⁻¹	113,0	70,5
Winding resistance at 20°C	R_{12}	Ohm	1,85	0,71
Winding inductivity	L_{12}	mH	12,600	4,700
Leakage capacitance of the component	C_{ab}	nF	6,5	6,0
Number of pole pairs	p	-	4	
Moment of inertia of rotor without brake ¹⁾	J_{rot}	kg*m ²	0,00430	
Thermal time constant	T_{th}	min	60,0	
Maximum speed	n_{max}	min ⁻¹	4700	5000
Sound pressure level	L_p	dB[A]	< 75	
Ambient temperature during operation	T_{um}	°C	0 ... 40	
Degree of protection		-	IP65	
Insulation class EN 60034-1		-	F	

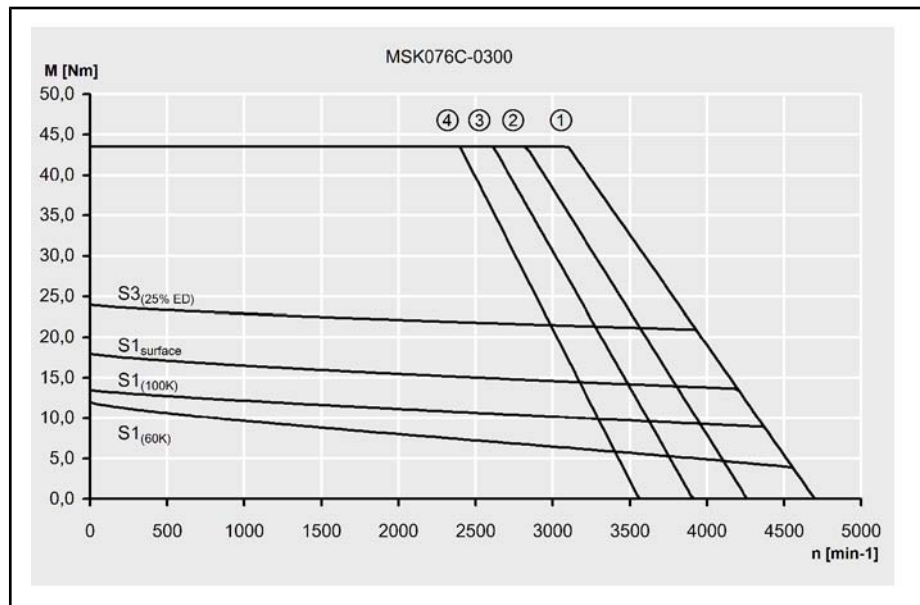
1) Specified without brake. If necessary, add the moment of inertia brake.
Fig.4-78: MSK - Technical Data (natural cooling)

Description	Symbol	Unit	BREMSE-277525
Holding torque	M_4	Nm	11,0
Rated voltage ±10%	U_N	V	24
Rated current	I_N	A	0,71
Connection time	t_1	ms	13
Disconnection time	t_2	ms	30
Moment of inertia brake	J_{rot}	kg*m ²	0,000360
Mass brake	M_{Br}	kg	1,1

Fig.4-79: MSK076: Holding brake - Technical data (optional)

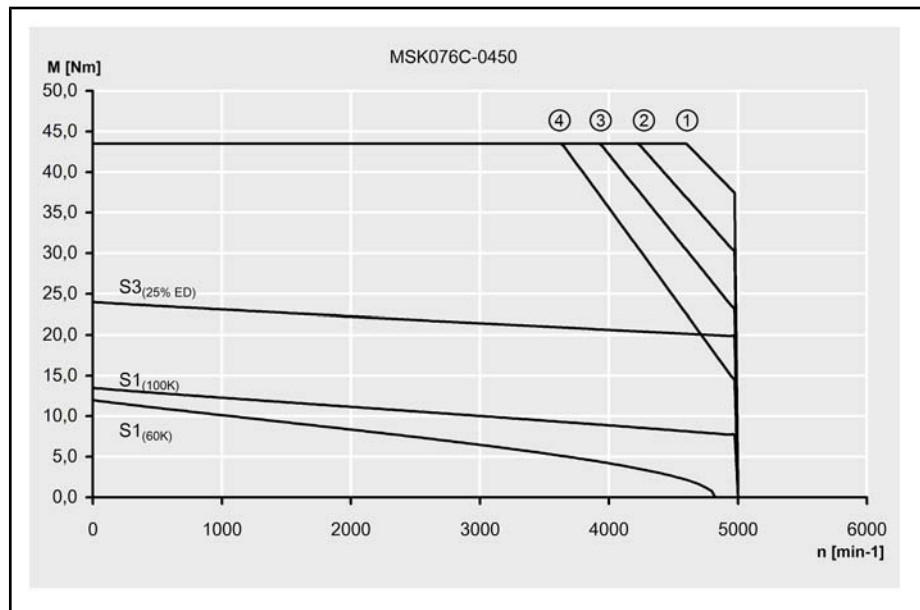
Technical Data

Speed-torque characteristics



- ① Mmax for IndraDrive, controlled feed, 3x AC 400V
- ② Mmax for IndraDrive, uncontrolled feed, 3x AC 480V
- ③ Mmax for IndraDrive, uncontrolled feed, 3x AC 440V
- ④ Mmax for IndraDrive, uncontrolled feed, 3x AC 400V

Fig.4-80: Speed-torque characteristic of MSK076C-0300



- ① Mmax for IndraDrive, controlled feed, 3x AC 400V
- ② Mmax for IndraDrive, uncontrolled feed, 3x AC 480V
- ③ Mmax for IndraDrive, uncontrolled feed, 3x AC 440V
- ④ Mmax for IndraDrive, uncontrolled feed, 3x AC 400V

Fig.4-81: Speed-torque characteristic of MSK076C-0450

Shaft load Diagram for determining the maximum permissible radial force F_{radial} .

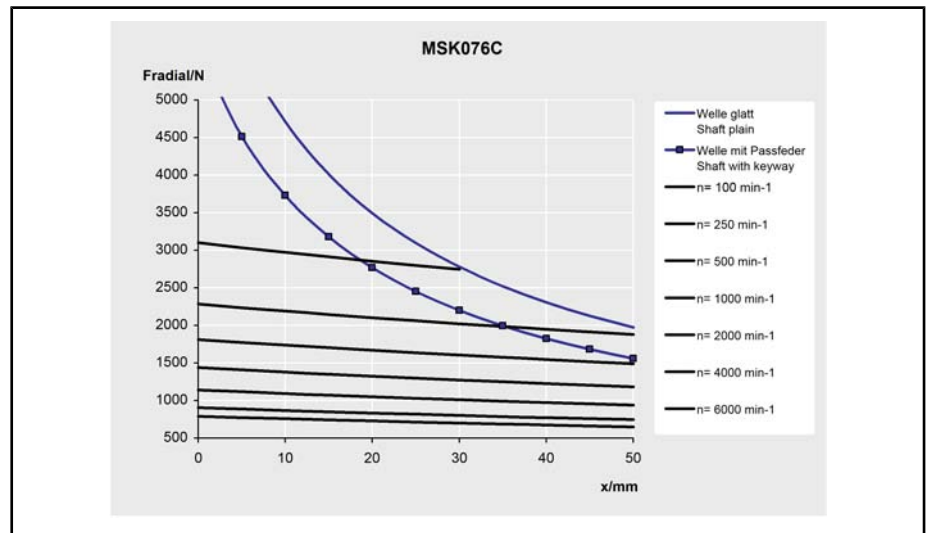


Fig.4-82: permissible radial force of MSK076 - Motors (shaft and bearing load)

The maximum permissible axial force F_{axial} is 200 N.

For additional information about permissible radial and axial forces, see [chapter 9.7 "Bearing and Shaft Load "](#) on page 164.

Specifications

5.10 Size MSK076

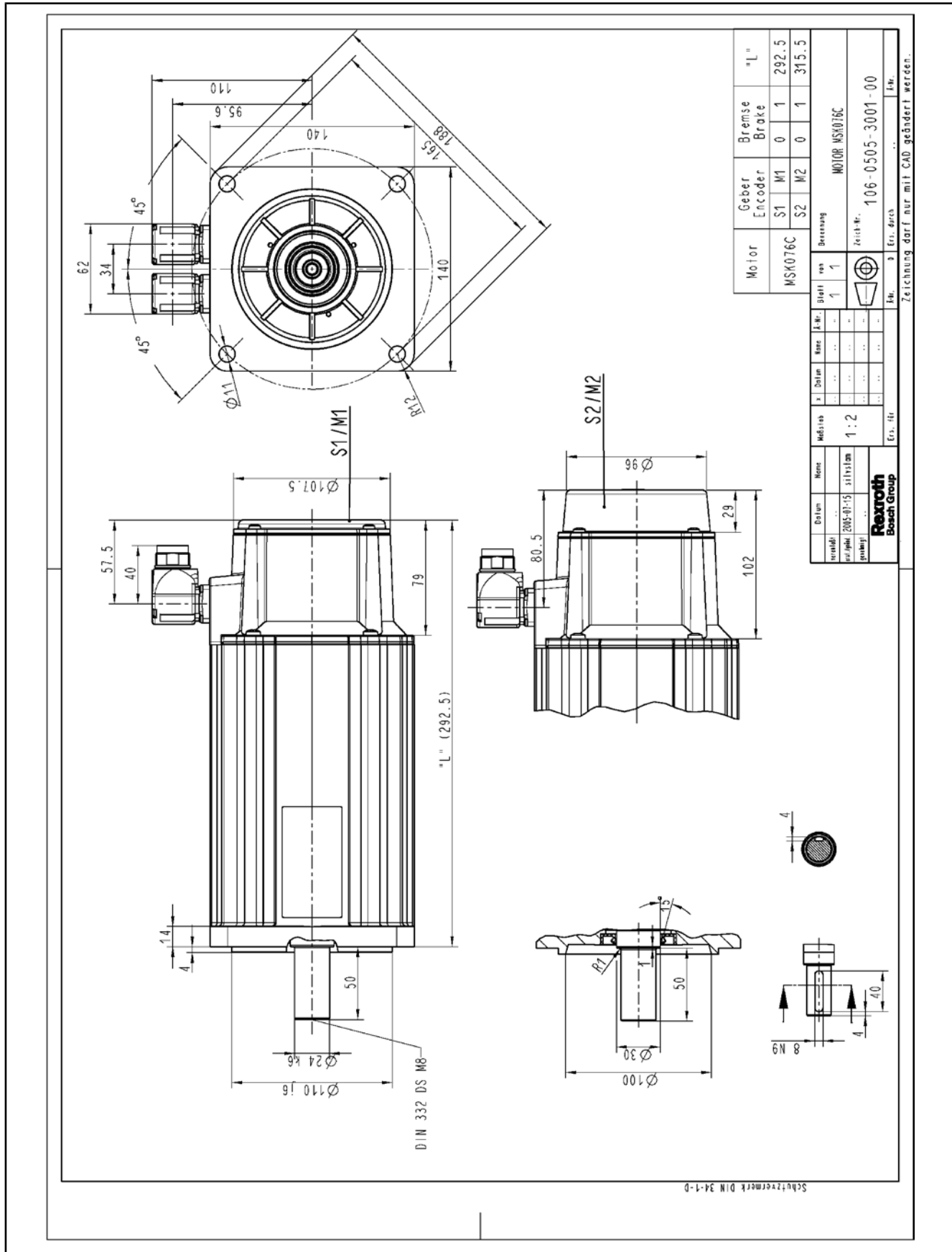


Fig.5-11: MSK076 specification

