

## 4.10 MSK061C Technical Data

Description	Symbol	Unit	MSK061C-0600-NN
Continuous torque at standstill, 60K	$M_{0,60}$	Nm	8,0
Continuous current at standstill, 60K	$I_{0,60(\text{eff})}$	A	7,7
Continuous torque at standstill, 100K	$M_{0,100}$		
Continuous current at standstill, 100K	$I_{0,100(\text{eff})}$		
Maximum torque	$M_{\text{max}}$	Nm	32,0
Maximum current	$I_{\text{max}(\text{eff})}$	A	34,7
Torque constant at 20°C	$K_{M,N}$	Nm/A	1,14
Constant voltage at 20°C	$K_{EMK,1000}$	V/min <sup>-1</sup>	70,5
Winding resistance at 20°C	$R_{12}$	Ohm	1,55
Winding inductivity	$L_{12}$	mH	6,700
Leakage capacitance of the component	$C_{ab}$	nF	2,1
Number of pole pairs	$p$	-	4
Moment of inertia of rotor without brake <sup>1)</sup>	$J_{\text{rot}}$	kg*m <sup>2</sup>	0,00075
Thermal time constant	$T_{\text{th}}$	min	15,0
Maximum speed	$n_{\text{max}}$	min <sup>-1</sup>	6000
Sound pressure level	$L_p$	dB[A]	<75
Ambient temperature during operation	$T_{\text{um}}$	°C	0 ... 40
Degree of protection		-	IP 65
Insulation class EN 60034-1		-	F

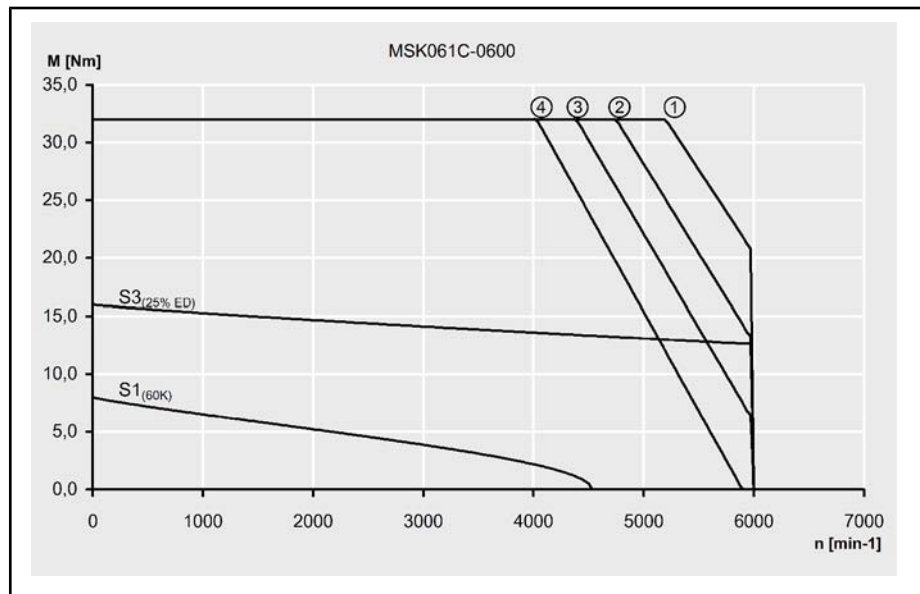
1) Specified without brake. If necessary, add the moment of inertia brake.  
Fig.4-40: MSK - Technical Data (natural cooling)

Description	Symbol	Unit	BREMSE-299026
holding torque	$M_4$	Nm	10,0
rated voltage ±10%	$U_N$	V	24
rated current	$I_N$	A	0,75
connection time	$t_1$	ms	25
disconnection time	$t_2$	ms	40
moment of inertia brake	$J_{\text{rot}}$	kg*m <sup>2</sup>	0,000059
mass brake	$M_{\text{Br}}$	kg	0,4

Fig.4-41: MSK061: 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.4-42: Speed-torque characteristic of MSK061C-0600

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

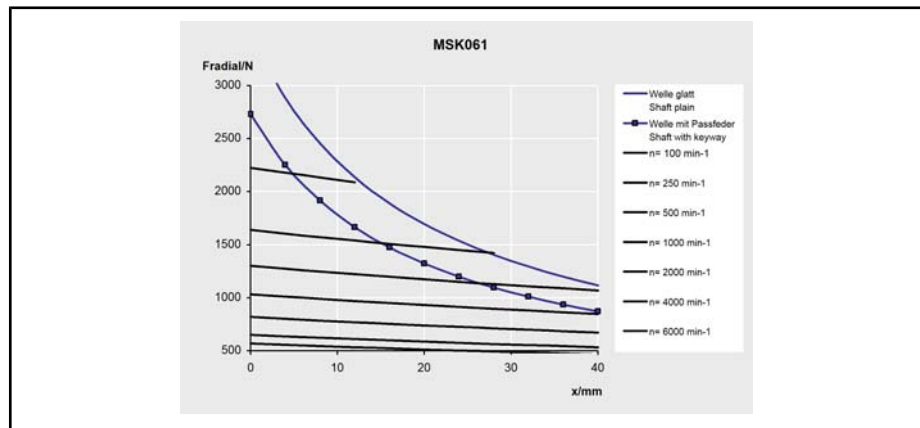


Fig.4-43: permissible radial force of MSK061 - Motors (shaft and bearing load)

The maximum permissible axial force  $F_{axial}$  is **250 N**.

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

Specifications

### 5.6 Size MSK061

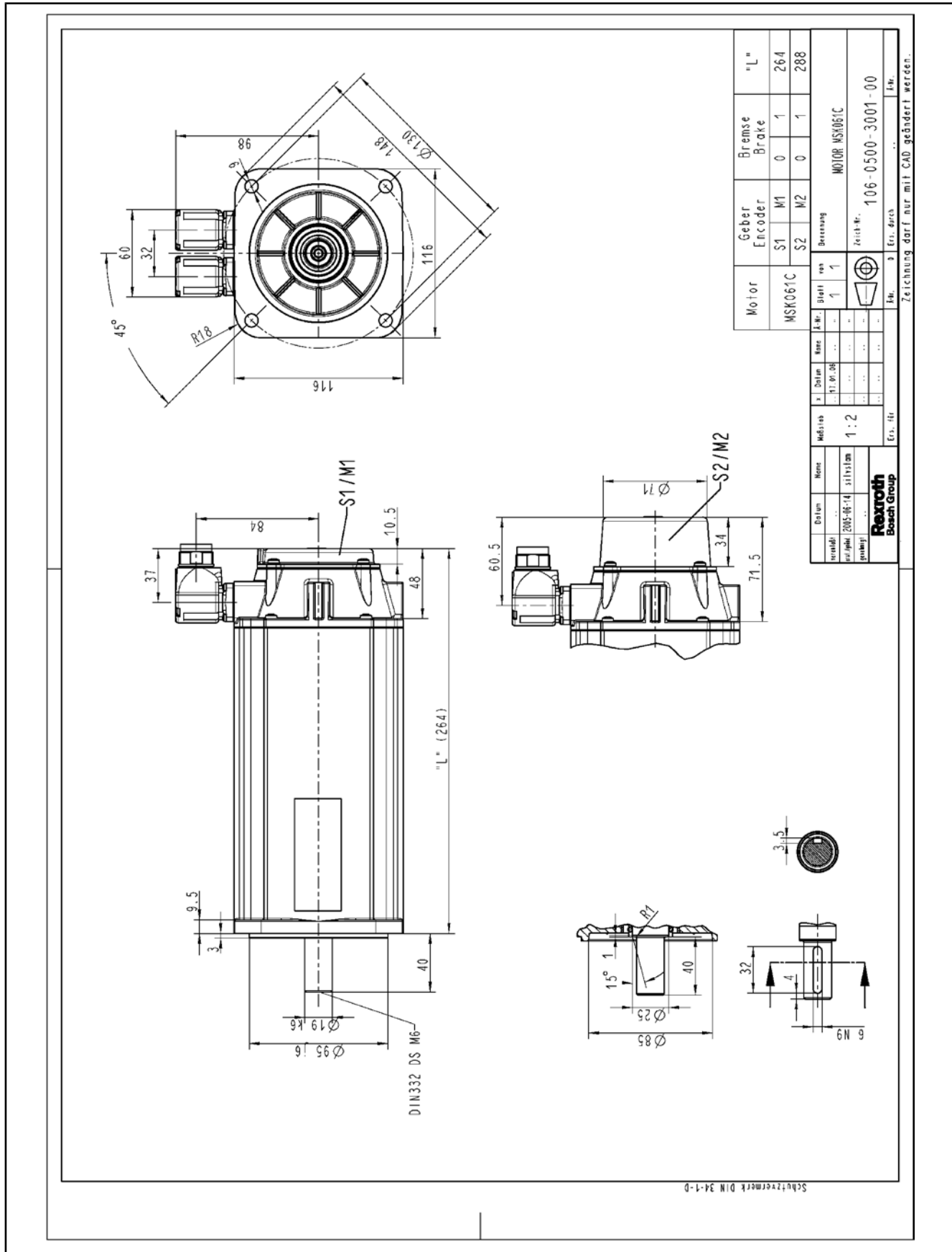


Fig.5-7: MSK061 specification



