

4.3 MSK030C Technical Data

Description	Symbol	Unit	MSK030C-0900-NN
Continuous torque at standstill, 60K	$M_{0,60}$	Nm	0,8
Continuous current at standstill, 60K	$I_{0,60(eff)}$	A	1,5
Continuous torque at standstill, 100K	$M_{0,100}$	Nm	0,9
Continuous current at standstill, 100K	$I_{0,100(eff)}$	A	1,7
Maximum torque	M_{max}	Nm	4,0
Maximum current	$I_{max(eff)}$	A	6,8
Torque constant at 20°C	$K_{M,N}$	Nm/A	0,58
Constant voltage at 20°C	$K_{EMK,1000}$	V/min ⁻¹	35,6
Winding resistance at 20°C	R_{12}	Ohm	9,80
Winding inductivity	L_{12}	mH	14,100
Leakage capacitance of the component	C_{ab}	nF	1,3
Number of pole pairs	p		3
Moment of inertia of rotor without brake ¹⁾	J_{rot}	kg*m ²	0,00003
Thermal time constant	T_{th}	min	15,0
Maximum speed	n_{max}	min ⁻¹	9000
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

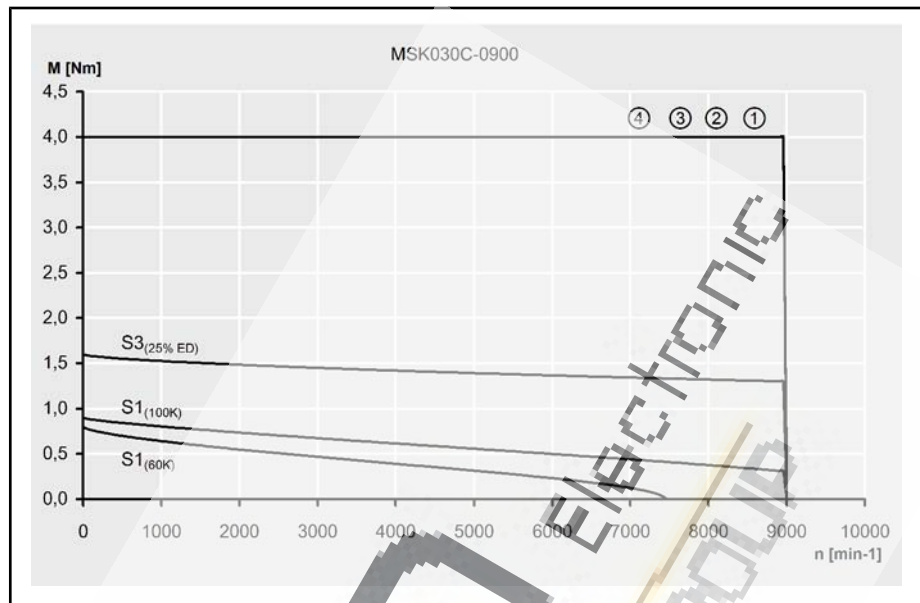
1) Specified without brake. If necessary, add the moment of inertia brake.
Fig.4-8: Technical data

Description	Symbol	Unit	BREMSE-231389
Holding torque	M_4	Nm	1,0
Rated voltage ±10%	U_N	V	24
Rated current	I_N	A	0,40
Connection time	t_1	ms	3
Disconnection time	t_2	ms	4
Moment of inertia brake	J_{rot}	kg*m ²	0,000007
Mass brake	M_{Br}	kg	0,2

Fig.4-9: MSK030: Holding brake - Technical data (optional)

Technical Data

Speed-torque characteristic



- 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.4-10: Speed-torque characteristic of MSK030C-0900

Shaft load

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

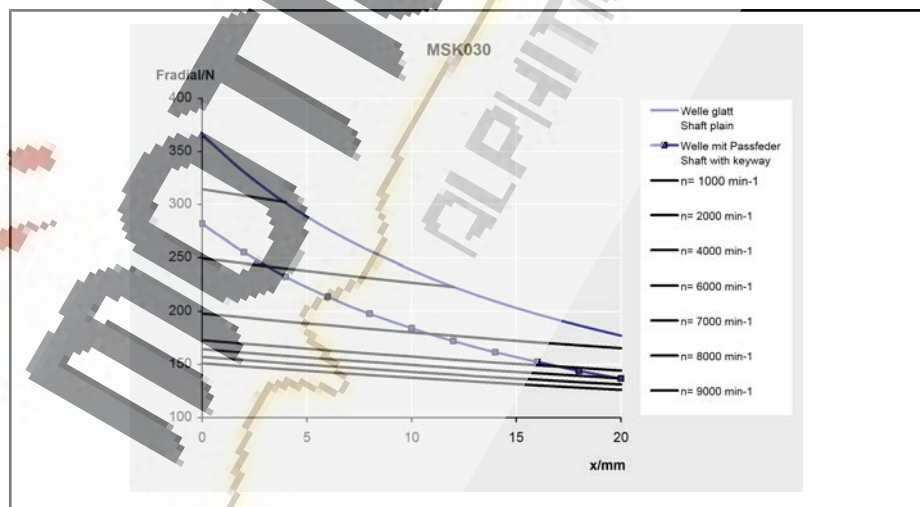


Fig.4-11: permissible radial force of MSK030 - Motors (shaft and bearing load)

The maximum permissible axial force F_{axial} is 50 N .

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