

Technical Data

4.9 MSK060C Technical Data

Description	Symbol	Unit	MSK060C-0300-NN	MSK060C-0600-NN
Continuous torque at standstill, 60K	$M_{0,60}$	Nm	8,0	
Continuous current at standstill, 60K	$I_{0,60(eff)}$	A	4,8	9,5
Continuous torque at standstill, 100K	$M_{0,100}$	Nm	8,8	
Continuous current at standstill, 100K	$I_{0,100(eff)}$	A	5,5	10,5
Continuous torque at standstill, surface	$M_{0,S}$	Nm	10,4	
Continuous current at standstill, surface	$I_{0,S(eff)}$	A	6,2	—
Maximum torque	M_{max}	Nm	24,0	
Maximum current	$I_{max(eff)}$	A	19,2	38,0
Torque constant at 20°C	$K_{M,N}$	Nm/A	1,85	0,93
Constant voltage at 20°C	$K_{EMK,100_0}$	V/min ⁻¹	114,0	57,0
Winding resistance at 20°C	R_{12}	Ohm	3,10	0,80
Winding inductivity	L_{12}	mH	35,900	8,600
Leakage capacitance of the component	C_{ab}	nF	2,1	2,2
Number of pole pairs	p	-	4	
Moment of inertia of rotor without brake ¹⁾	J_{rot}	kg*m ²	0,00080	
Thermal time constant	T_{th}	min	14,0	
Maximum speed	n_{max}	min ⁻¹	4900	6000
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	

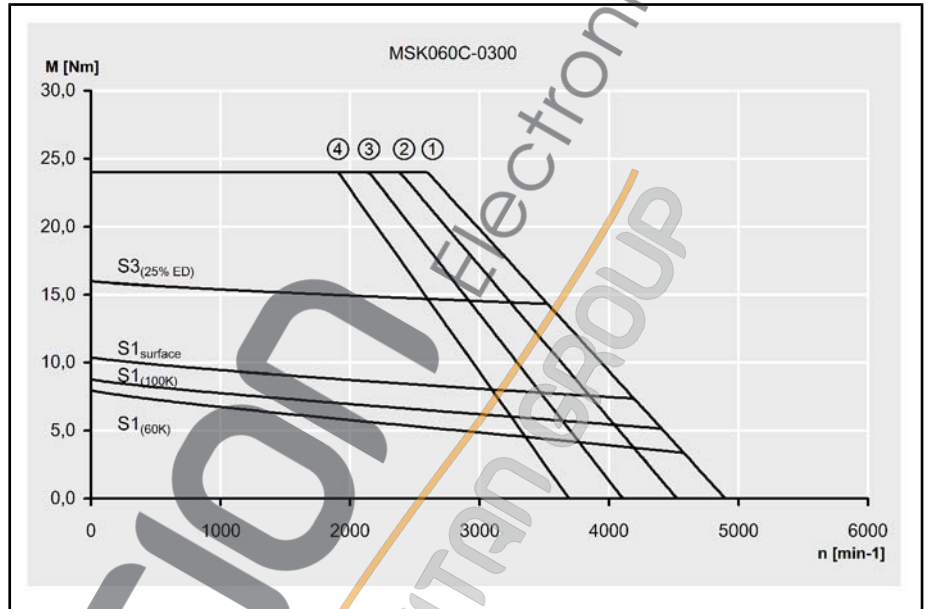
1) Specified without brake. If necessary, add the moment of inertia brake.
 Fig.4-35: MSK - Technical Data (natural and surface cooling)

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

Description	Symbol	Unit	BREMSE-299026
Disconnection time	t_2	ms	40
Moment of inertia brake	J_{rot}	kg*m2	0,000059
Mass brake	M_{Br}	kg	0,4

Fig.4-36: MSK060: Holding brake - Technical data (optional)

Speed-torque characteristic

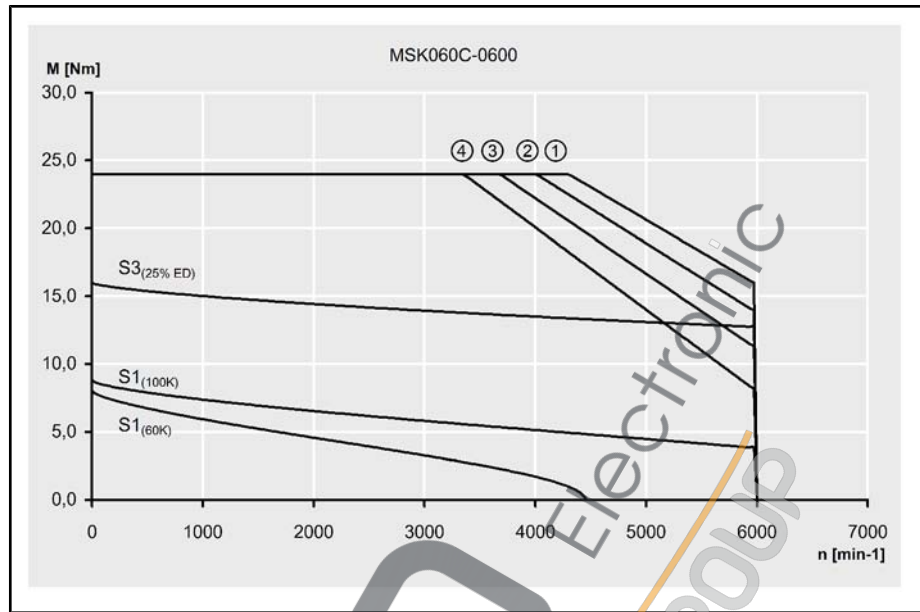


- ① Mmax for IndraDrive, controlled feed, 3x AC 400V
- ② Mmax for IndraDrive, uncontrolled feed, 3x AC 480V
- ③ Mmax for IndraDrive, uncontrolled feed, 3x AC 440V
- ④ Mmax for IndraDrive, uncontrolled feed, 3x AC 400V

Fig.4-37: Speed-torque characteristic of MSK060C-0300



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- 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.4-38: Speed-torque characteristic of MSK060C-0600

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

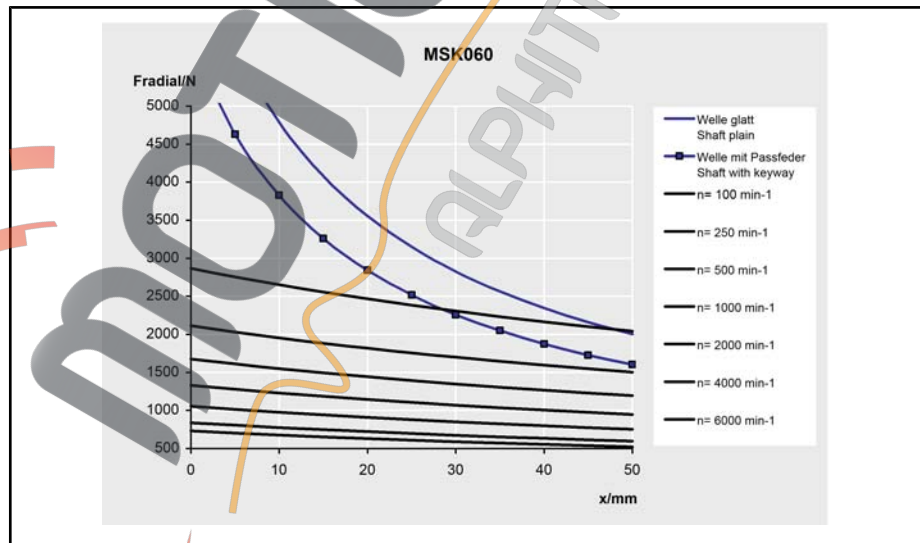


Fig.4-39: Maximum permissible radial force of MSK060 - Motors (shaft and bearing load)

The maximum permissible axial force F_{axial} is **350 N**.

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