

4.15 MSK071D Technical Data

Description	Symbol	Unit	MSK071D-0200-NN	MSK071D-0300-NN	MSK071D-0450-NN
continuous torque at standstill, 60 K	M0_60	Nm	17,5		
continuous current at standstill, 60 K	I0_60(eff)	A	7,3	9,1	15,4
continuous torque at standstill, 100 K	M0_100	Nm	20,0		
continuous current at standstill, 100 K	I0_100(eff)	A	26,3		
continuous torque at standstill, surface	M0_S	Nm	8,6	10,7	17,6
continuous current at standstill, surface	I0_S(eff)	A	13,5		
surface maximum torque		Nm	11,0	66,0	23,1
maximum current	Mmax	A	40,5		
torque constant at 20 °C ¹⁾	lmax(eff)	Nm/A	32,8	2,12	69,3
constant voltage at 20 °C ²⁾	KM_N	V/min ⁻¹	2,63	134,0	1,25
winding resistance at 20 °C	KEMK_1000 R12	Ohm	162,0	1,26	77,1
winding inductivity	L12	mH	1,90	10,700	0,45
leakage capacitance of the component		nF	14,200	7,2	3,200
number of pole pairs	Cab p		6,9		7,8
moment of inertia of rotor without brake ³⁾	Jrot	-	4		
thermal time constant	Tth	kg*m ²	0,00255		
maximum speed	nmax	min	54,0		52,0
sound pressure level	LP	min ⁻¹	3200	3800	6000
Mass ⁴⁾	m	dB[A]	<75		
ambient temperature during operation	Tum	kg	18,0 (19,6)		
degree of protection		°C	0 ... 40		
insulation class EN 60034-1		-	IP65		
		-	F		

1) 2)

3)

4)

Manufacturing tolerance ±5%

Specified without brake. If necessary, add the moment of inertia brake.
(...) values for motors with holding brake, sorted (holding brake 1, holding brake 2 ...)

Fig.4-70: MSK - TechnicalData(naturalandsurfacecooling)

Description	Symbol	Unit	MSK071D-0200-FN	MSK071D-0300-FN	MSK071D-0450-FN
continuous torque at standstill, 60 K	M0_60	Nm	17,5		
continuous current at standstill, 60 K	I0_60(eff)	A	7,3	9,1	15,4
continuous torque at standstill, 100 K	M0_100	Nm	20,0		
continuous current at standstill, 100 K	I0_100(eff)	A	20,0		
continuous torque at standstill, liquid	M0_L	Nm	8,6	10,7	17,6
continuous current at standstill, liquid	I0_L(eff)	A	33,3		
maximum torque		Nm	17,2		
maximum current	Mmax	A	13,9	66,0	30,3
torque constant at 20 °C ¹⁾	lmax(eff)	Nm/A	40,5		
constant voltage at 20 °C ²⁾	KM_N	V/min ⁻¹	32,8	2,12	69,3
winding resistance at 20 °C	KEMK_1000 R12	Ohm	2,63	134,0	1,25
winding inductivity	L12	mH	162,0	1,26	77,1
leakage capacitance of the component		nF	1,90	10,700	0,45
number of pole pairs	Cab p		14,200	7,2	3,200
moment of inertia of rotor without brake ³⁾	Jrot	-	6,9		7,8
thermal time constant	Tth	kg*m ²	4		
maximum speed	nmax		0,00255		
sound pressure level	LP	min ⁻¹		18,0	3,0
Mass ⁴⁾	m	dB[A]	3200	3800	6000
ambient temperature during operation	Tum	kg	<75		
degree of protection		°C	18,0 (19,6)		
insulation class EN 60034 1		-	0 ... 40		
		-	IP65		
		-	F		

1) 2) Manufacturing tolerance ±5%

3) Specified without brake. If necessary, add the moment of inertia brake.

4) (...) values for motors with holding brake, sorted (holding brake 1, holding brake 2 ...)

Fig.4-71: MSK - Technical Data (natural and liquid cooling)

Description	Symbol	Unit	Holding brake 1	Holding brake 2
holding torque	M4	Nm	23,0	30,0
rated voltage ±10%	UN	V	24	

