

4.16 MSK071E Technical Data

Description	Symbol	Unit	MSK071E-0200-NN	MSK071E-0300-NN	MSK071E-0450-NN
continuous torque at standstill, 60 K	M0_60	Nm	23,0		
continuous current at standstill, 60 K	I0_60(eff)	A	12,5	10,1	20,0
continuous torque at standstill, 100 K	M0_100	Nm	28,0		
continuous current at standstill, 100 K	I0_100(eff)	A	15,2		
continuous torque at standstill, surface	M0_S	Nm	34,5	12,6	24,4
continuous current at standstill, surface	I0_S(eff)	A	18,8		
maximum torque		Nm	84,0		
		A	56,3	15,2	30,0
maximum current	Mmax	Nm/A	2,05		
torque constant at 20 °C ¹⁾	I _{max} (eff)	V/min ⁻¹	126,4	45,5	90,1
constant voltage at 20 °C ²⁾	K _{M_N}	Ohm	0,79	2,51	1,29
winding resistance at 20 °C	K _{EMK_1000} R12	mH	5,900	154,6	82,7
winding inductivity	L12	nF	9,3	1,16	0,32
leakage capacitance of the component	Cab		9,150		2,600
number of pole pairs	p		8,9		9,5
moment of inertia of rotor without brake ³⁾	J _{rot}	-	4		
thermal time constant	T _{th}	kg*m ²	0,00290		
maximum speed	n _{max}	min	75,0	19,8	
sound pressure level	LP	min ⁻¹	3400	4200	6000
Mass ⁴⁾	m	dB[A]	<75		
ambient temperature during operation	T _{um}	kg	23,5 (25,1)		
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.4-78:

MSK - TechnicalData(naturalandsurfacecooling)

Description	Symbol	Unit	MSK071E-0200-FN	MSK071E-0300-FN	MSK071E-0450-FN
continuous torque at standstill, 60 K	M0_60	Nm	23,0		
continuous current at standstill, 60 K	I0_60(eff)	A	12,5	10,1	20,0
continuous torque at standstill, 100 K	M0_100	Nm	28,0		
continuous current at standstill, 100 K	I0_100(eff)	A	15,2		
continuous torque at standstill, liquid	M0_L	Nm	43,7	12,6	24,4
continuous current at standstill, liquid	I0_L(eff)	A	24,9		
maximum torque		Nm	84,0		
		A	56,3	19,0	38,0
maximum current	Mmax	Nm/A	2,05		
torque constant at 20 °C ¹⁾	Imax(eff)	V/min ⁻¹	126,4	45,5	90,1
constant voltage at 20 °C ²⁾	KM_N	Ohm	0,79	2,51	1,29
winding resistance at 20 °C	KEMK_1000 R12	mH	5,900	154,6	82,7
winding inductivity	L12	nF	9,3	1,16	0,32
leakage capacitance of the component			9,150		2,600
number of pole pairs	Cab p		8,9		9,5
moment of inertia of rotor without brake ³⁾	Jrot	-		4	
thermal time constant	Tth	kg*m ²		0,00290	
maximum speed	nmax	min	25,0		19,8
sound pressure level	LP	min ⁻¹	3400	4200	6000
Mass ⁴⁾	m	dB[A]		<75	
ambient temperature during operation	Tum	kg		23,5 (25,1)	
degree of protection		°C		0 ... 40	
insulation class EN 60034-1		-		IP65	
		-		F	

1) 2)

Manufacturing tolerance $\pm 5\%$

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.4-79: 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 $\pm 10\%$	UN	V	24	

