

4.23 MSK101E Technical Data

Description	Symbol	Unit	MSK101E-0200-NN	MSK101E-0300-NN	MSK101E-0450-NN
continuous torque at standstill, 60 K	M0_60	Nm	70,0		
continuous current at standstill, 60 K	I0_60(eff)	A	41,6	32,1	58,3
continuous torque at standstill, 100 K	M0_100	Nm	80,5		
continuous current at standstill, 100 K	I0_100(eff)	A	47,8		
continuous torque at standstill, surface	M0_S	Nm	39,0		67,6
continuous current at standstill, surface	I0_S(eff)	A	105,0		
maximum torque		Nm	48,2	62,4	87,5
maximum current	Mmax	A	231,0		
torque constant at 20 °C ¹⁾	lmax(eff)	Nm/A	231,0		
constant voltage at 20 °C ²⁾	KM_N	V/min ⁻¹	144,5	187,4	262,4
winding resistance at 20 °C	KEMK_1000 R12	Ohm	2,40	1,85	1,32
winding inductivity	L12	mH	148,0	113,8	81,2
leakage capacitance of the component		nF	0,18	0,11	0,06
number of pole pairs	Cab p		3,300	1,960	1,080
moment of inertia of rotor without brake ³⁾	Jrot		15,2	16,7	
thermal time constant	Tth	-	4		
maximum speed	nmax	kg*m ²	0,01380		
sound pressure level	LP	min	100,0		
Mass ⁴⁾	m	min ⁻¹	3500	4600	6000
ambient temperature during operation	Tum	dB[A]	<75		
degree of protection		kg	53,5 (57,3) (59,7)		
insulation class EN 60034-1		°C	0 ... 40		
		-	IP65		
		-	F		

1) 2)

3)

4)

Fig.4-121:

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 ...)

MSK - TechnicalData(naturalandsurfacecooling)

Description	Symbol	Unit	MSK101E-0200-FN	MSK101E-0300-FN	MSK101E-0450-FN preliminary
continuous torque at standstill, 60 K	M0_60	Nm	70,0		
continuous current at standstill, 60 K	IO_60(eff)	A	32,1	41,6	58,3
continuous torque at standstill, 100 K	M0_100	Nm	80,5		
continuous current at standstill, 100 K		A	47,8		
continuous torque at standstill, liq- uid	IO_100(eff)	Nm	39,0		67,6
continuous current at standstill, liq- uid	M0_L	A	133,0		
maximum torque	IO_L(eff)	Nm	63,8	79,0	110,8
		A			
maximum current	Mmax	Nm/A	231,0		
torque constant at 20 °C ¹⁾	Imax(eff)	V/min ⁻¹	144,5	187,4	262,4
constant voltage at 20 °C ²⁾	KM_N	Ohm	2,40	1,85	1,32
winding resistance at 20 °C	KEMK_1000	mH	148,0	113,8	81,2
winding inductivity	R12	nF	0,18	0,11	0,06
	L12				
leakage capacitance of the compo- nent			3,300	1,960	1,080
number of pole pairs	Cab		15,2	16,7	
	p				
moment of inertia of rotor without brake ³⁾	Jrot	-	4		
thermal time constant		kg*m ²	0,01380		
	Tth				
maximum speed	nmax	min	100,0		
sound pressure level	LP	min ⁻¹	3500	4600	6000
Mass ⁴⁾	m	dB[A]	<75		
ambient temperature during opera- tion	Tum	kg	53,5 (57,3) (59,7)		
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, hold-
ing brake 2 ...)

Fig.4-122: MSK - TechnicalData(naturalandliquidcooling)

