

Technical Data

4.7 MSK040C - Technical Data

Designation	Symbol	Unit	MSK040C-0450-NN	MSK040C-0600-NN
UL Files (UL)			E335445	
Continuous torque at standstill 60 K	$M_{0,60}$	Nm	2.7	
Continuous current at standstill 60 K	$I_{0,60(rms)}$	A	2.4	3.1
Continuous torque at standstill 100 K	$M_{0,100}$	Nm	3.1	
Continuous current at standstill 100 K	$I_{0,100(rms)}$	A	3.1	4.7
Maximum torque	M_{max}	Nm	8.1	
Maximum current	$I_{max(rms)}$	A	9.6	12.4
Torque constant at 20 °C	$K_{M,N}$	Nm/A	1.25	0.95
Voltage constant at 20 °C ¹⁾	$K_{EMK,1000}$	V/min ⁻¹	76.7	58.2
Winding resistance at 20 °C	R_{12}	ohms	7.40	3.90
Winding inductivity	L_{12}	mH	37.900	21.300
Discharge capacity of the component	C_{dis}	nF	2.0	
Number of pole pairs	p	-	4	
Moment of inertia of the rotor	J_{rot}	kg*m ²	0.00014	
Thermal time constant	T_{th}	min	16.0	
Maximum speed	n_{max}	min ⁻¹	6,000	7,500
Sound pressure level	L_p	dB[A]	<75	
Weight ²⁾	m	kg	3.6 (3.9)	
Ambient temperature in operation	T_{amb}	°C	0 ... 40	
Type of protection according to IEC 60529	---	-	IP65	
Insulation class according to DIN EN 60034-1	---	-	155	
Latest amendment: 2008-10-13				

1) Manufacturing tolerance $\pm 5\%$

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

Fig.4-13: MSK - Technical data (standard cooling)

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Characteristic Motor Curves

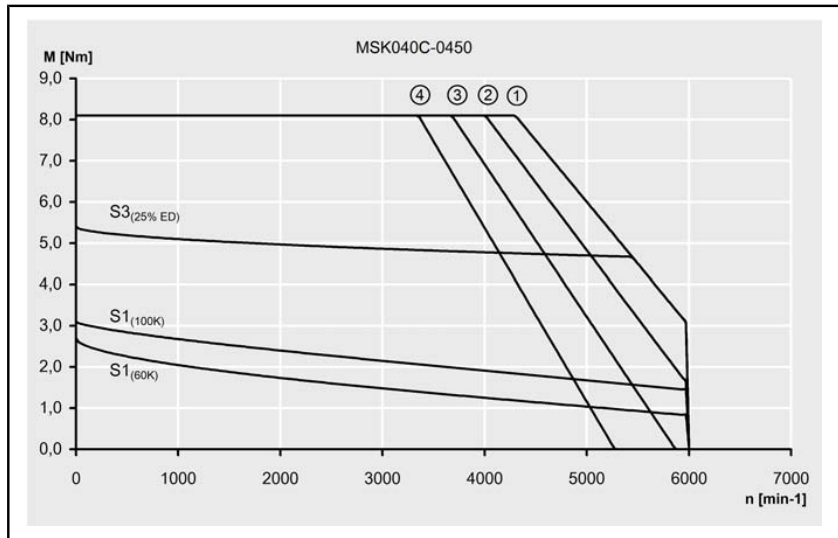


Fig.4-14: Characteristic curves MSK040C-0450

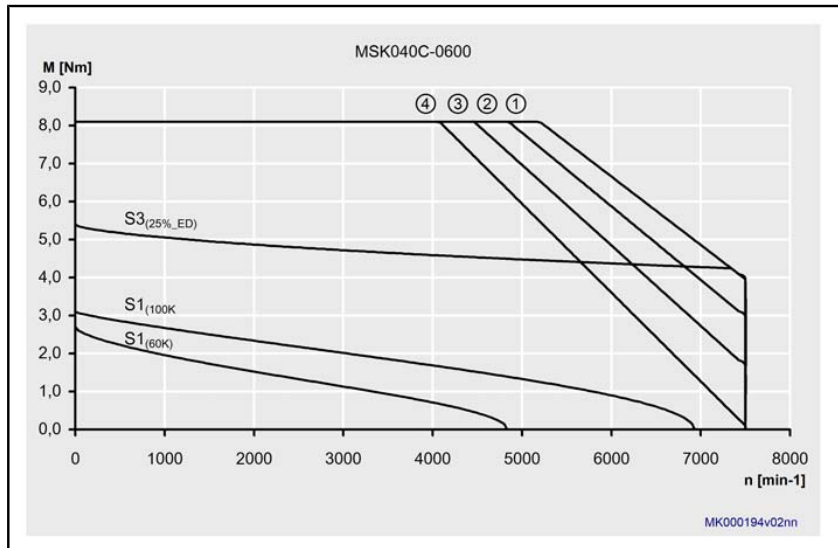


Fig.4-15: Characteristic curves MSK040C-0600

