

3.3 Type Code MSM031



The following figure illustrates the basic structure of the type code. Our sales representative will help you with the current status of available versions.

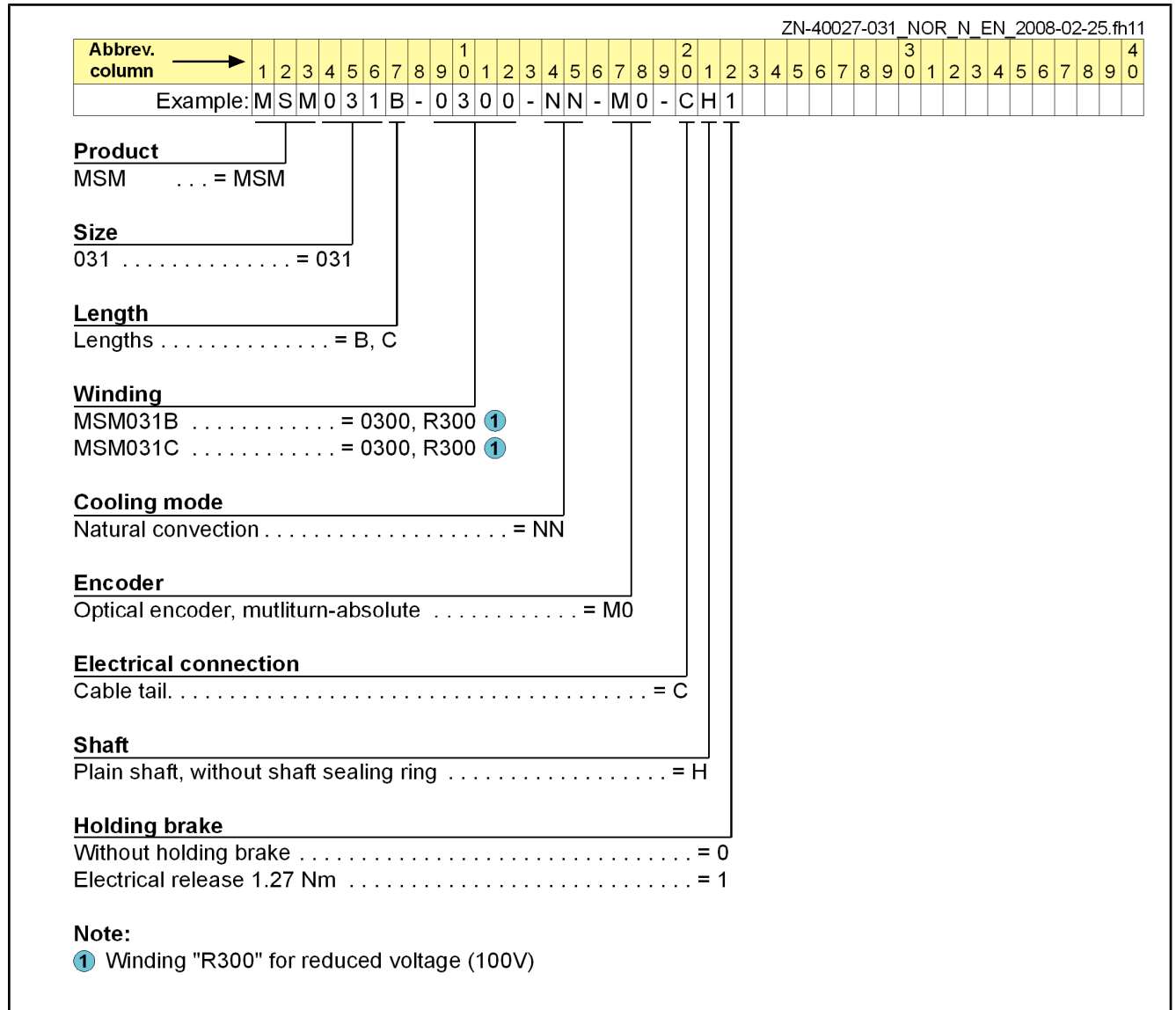


Fig.3-3: MSM031

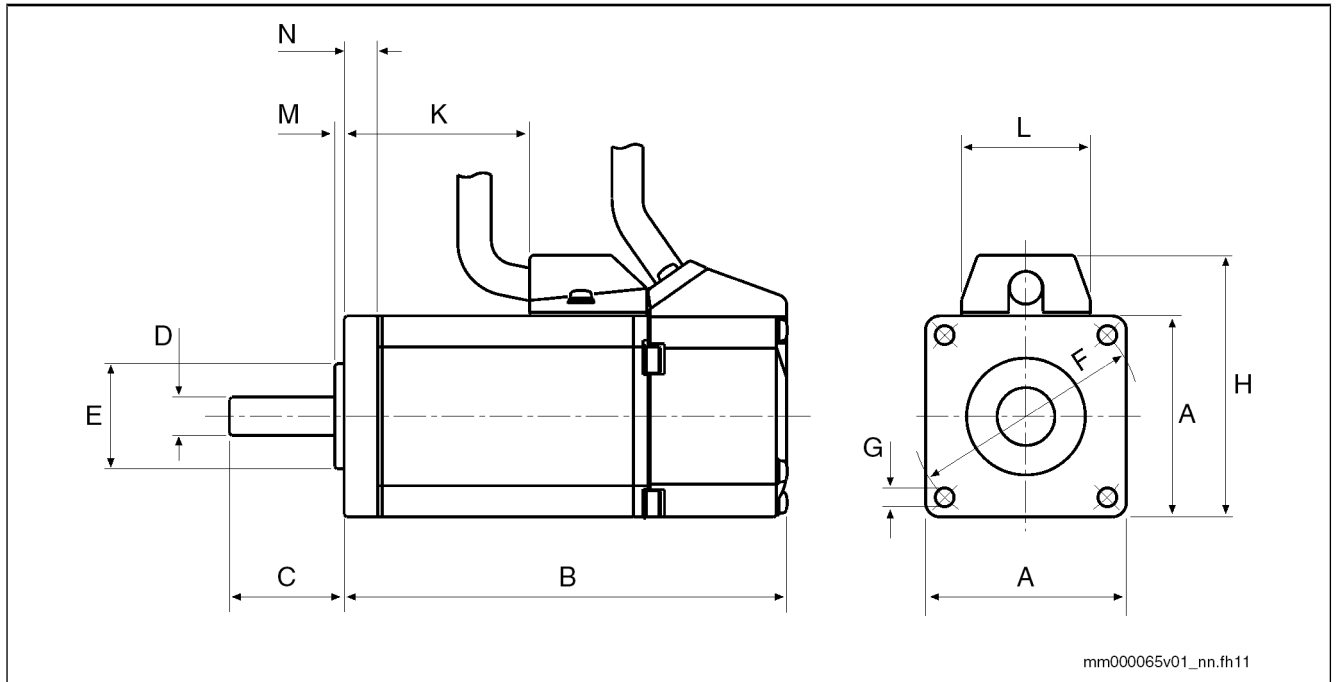
Technical Data

4.3 MSM031**4.3.1 Technical Data MSM031**

Description	Symbol	Unit	MSM031B-0300-NN preliminary	MSM031C-0300-NN preliminary
Cooling type according to EN 60034-6		-	IC00	
Listing according to UL standard (UL)		-	UL 1004; ANSI UL 840	
Listing according to CSA standard (UL)		-	CSA-C22.2 No. 100	CSA-C22.2 No. 100
UL files (UL)			E223837	
Electrical characteristic values				
Continuous torque at standstill 60 K	$M_{0,60}$	Nm	0.64	1.30
Continuous current at standstill 60 K	$I_{0,60(rms)}$	A	1.60	2.60
Maximum current	$I_{max(rms)}$	A	4.90	7.70
Maximum torque	M_{max}	Nm	1.91	3.80
Torque constant at 20 °C ¹⁾	$K_{M,N}$	Nm/A	0.41	0.51
Constant voltage at 20 °C ²⁾	$K_{EMK,1000}$	V/min ⁻¹	24.5	30.6
Winding resistance at 20 °C	R_{12}	ohm	6.10	3.60
Winding inductance	L_{12}	mH	14.700	10.600
Leakage capacitance of the component	C_{ab}	nF	0.7	1.4
Number of pole pairs	p	-	4	
Mechanical characteristic values				
Rotor inertia	J_{rot}	kg*m ²	0.00001	0.00003
Power wire cross section	A_{60}	mm ²	0.75	
Thermal time constant	T_{th}	min	tbd	
Maximum speed	n_{max}	min ⁻¹	5,000	
Mass ³⁾	m	kg	0.82 (1.3)	1.2 (1.7)
Storage and transport temperature	T_L	°C	-20 ... +60	
Ambient temperature during operation	T_{um}	°C	0 ... 40	
Installation altitude		m	0 ... 1,000	
Insulation class according to DIN EN 60034-1	---	-	130 (B)	

Last modification: 2008-11-20

4.3.2 Dimensions MSM031



Motor	A	B	C	D	E	F	G	H	K	L	M	N
MSM031B-...-...-CH0	60	79	30	ø11 ^{h6}	ø50 ^{h7}	ø70±0.20	ø4.5	71	22.5	36	3	6.5
MSM031B-...-...-CH1	60	115.5	30	ø11 ^{h6}	ø50 ^{h7}	ø70±0.20	ø4.5	71	22.5	36	3	6.5
MSM031C-...-...-CH0	60	98.5	30	ø14 ^{h6}	ø50 ^{h7}	ø70±0.20	ø4.5	71	42	36	3	6.5
MSM031C-...-...-CH1	60	135	30	ø14 ^{h6}	ø50 ^{h7}	ø70±0.20	ø4.5	71	42	36	3	6.5

Fig.4-12: Dimensions MSM031