

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : W20 - IE1 Standard Efficiency - Aluminium Frame
 Product code : 19041003 Catalog # : 1HP

Frame	: 80	Locked rotor time	: 9 s (hot) 16 s (cold)
Output	: 0.75 kW (1 HP)	Temperature rise ⁴	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20 °C to +40 °C
Rated voltage	: 220/380 V	Altitude	: 1000 m.a.s.l
Rated current	: 3.28/1.90 A	Protection degree	: IP55
L. R. Amperes	: 15.4/8.93 A	Cooling method	: IC411 - TEFC
LRC	: 4.7	Mounting	: B3T
No load current	: 2.49/1.44 A	Rotation ¹	: Both
Rated speed	: 1415 rpm	Noise level ²	: 44 dB(A)
Slip	: 5.67 %	Vibration class	: A
Rated torque	: 0.516 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 170 %	Approx. weight ³	: 16.0 kg
Pull up torque	: 140 %	Painting plan	: 201A
Breakdown torque	: 210 %	Color	: RAL 7000
Insulation class	: F	Design	: N
Service factor	: 1.00		
Moment of inertia (J)	: 0.0029 kgm ²		

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	70.0	71.0	72.1	Load torque	: -
Power Factor	0.91	0.58	0.74	0.83	Load inertia (J=GD ² /4)	: -

Bearing type	Drive end	Non drive end	Foundation loads
Lubrication interval	6204-ZZ	6203-ZZ	Max. traction : 27 kgf
Lubricant amount	-	-	Max. compression : 43 kgf
Lubricant type	MOBIL POLYREX EM		

Notes:

Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
0.00	0.00	0.00	0.00	0.00	0.00	0.00

Standards	Specification	: IEC 60034-1	Vibration	: IEC 60034-14
	Test	: IEC 60034-2	Tolerance	: IEC 60034-1
	Noise	: IEC 60034-9		

This revision replaces and cancel the previous one, which must be eliminated.
 (1) Looking the motor from the shaft end.
 (2) Measured at 1m and with tolerance of +3dB(A).
 (3) Approximate weight, subject to be changed after manufacturing process.
 (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.

Rev.	Changes Summary	Performed	Checked	Date
				24/02/2026
Performed by	zengchuchu	53996/2026		
Checked by	AUTOMATICO	Page	Revision	
Date	24/02/2026	1/1	0	