DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W20 - IE1 Standard Efficiency - Aluminium Frame		
Product code	: 19041005	Catalog #	: 2HP

Frame	: 112M	Locked rotor time	: 26 s (hot) 47 s (cold)
Output	: 1.5 kW (2 HP)	Temperature rise[4]	: 80 K
Poles	: 8	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	: 7.44/4.31 A	Protection degree	: IP55
L. R. Amperes	: 32.0/18.5 A	Cooling method	: IC411 - TEFC
LRC	: 4.3	Mounting	: B3T
No load current	: 4.32/2.50 A	Rotation[1]	: Both
Rated speed	: 700 rpm	Noise level[2]	: 46 dB(A)
Slip	: 6.67 %	Vibration class	: A
Rated torque	: 2.09 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 220 %	Approx. weight[3]	: 36.5 kg
Pull up torque	: 185 %	Painting plan	: 201A
Breakdown torque	: 230 %	Color	: RAL 7000
Insulation class	: F	Design	: N
Service factor	: 1.00		
Moment of inertia (J)	: 0.0183 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	73.0	73.0	73.5
Power Factor	0.65	0.50	0.64	0.72

Load type	: -
Load torque	: -
Load inertia (J=GD²/4)	: -

	Drive end	Non drive end
Bearing type	6207-ZZ	6206-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 83 kgf
Max. compression	: 119 kgf

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)
35.22	33.41	34.36	18.38	14.44	11.00	8.54

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		54018/2026	
Checked by	AUTOMATICO		Page	Revision
Date	24/02/2026		1/1	0