DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W20 - IE1 Standard Efficiency - Aluminium Frame		
Product code	: 19041002	Catalog #	: 2HP

Frame	: 90S/L	Locked rotor time	: 7 s (hot) 13 s (cold)
Output	: 1.5 kW (2 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	: 5.99/3.47 A	Protection degree	: IP55
L. R. Amperes	: 30.6/17.7 A	Cooling method	: IC411 - TEFC
LRC	: 5.1	Mounting	: B3T
No load current	: 3.37/1.95 A	Rotation[1]	: Both
Rated speed	: 1435 rpm	Noise level[2]	: 49 dB(A)
Slip	: 4.33 %	Vibration class	: A
Rated torque	: 1.02 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 130 %	Approx. weight[3]	: 22.0 kg
Pull up torque	: 110 %	Painting plan	: 201A
Breakdown torque	: 210 %	Color	: RAL 7000
Insulation class	: F	Design	: N
Service factor	: 1.00		
Moment of inertia (J)	: 0.0063 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	74.0	77.0	77.2
Power Factor	0.83	0.66	0.78	0.85

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

	Drive end	Non drive end
Bearing type	6205-ZZ	6204-ZZ
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 50 kgf
Max. compression	: 72 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)
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
				23/02/2026

Performed by	zengchuchu		52487/2026	
Checked by	AUTOMATICO		Page	Revision
Date	23/02/2026		1/1	0