

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : W20 - IE1 Standard Efficiency
 Product code : 19040989 Catalog # : 60HP

Frame : 225M	Locked rotor time : 11 s (hot) 20 s (cold)
Output : 45 kW (60 HP)	Temperature rise ⁴ : 80 K
Poles : 4	Duty cycle : S1
Frequency : 50 Hz	Ambient temperature : -20 °C to +40 °C
Rated voltage : 380/660 V	Altitude : 1000 m.a.s.l
Rated current : 86.7/49.9 A	Protection degree : IP55
L. R. Amperes : 538/309 A	Cooling method : IC411 - TEFC
LRC : 6.2	Mounting : B3T
No load current : 31.0/17.8 A	Rotation ¹ : Both
Rated speed : 1480 rpm	Noise level ² : 66 dB(A)
Slip : 1.33 %	Vibration class : A
Rated torque : 29.6 kgfm	Starting method : Direct On Line
Locked rotor torque : 250 %	Approx. weight ³ : 300 kg
Pull up torque : 210 %	Painting plan : 201A
Breakdown torque : 300 %	Color : RAL 7000
Insulation class : F	Design : N
Service factor : 1.00	
Moment of inertia (J) : 0.4947 kgm ²	

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	91.0	91.7	91.7	Load torque	: -
Power Factor	0.47	0.74	0.82	0.86	Load inertia (J=GD ² /4)	: -

Bearing type	Drive end	Non drive end	Foundation loads		
	6314-C3	6314-C3		Max. traction : 849 kgf	
	Lubrication interval	11638 h		11638 h	Max. compression : 1149 kgf
	Lubricant amount	27 g		27 g	
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	53997/2026		
Checked by	AUTOMATICO	Page	Revision	
Date	24/02/2026	1/1	0	