

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : W20 - IE1 Standard Efficiency
 Product code : 19040991 Catalog # : 100HP

Frame : W280S	Locked rotor time : 8 s (hot) 14 s (cold)
Output : 75 kW (100 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 : 146/84.1 A	Protection degree : IP55
L. R. Amperes : 1168/672 A	Cooling method : IC411 - TEFC
LRC : 8.0	Mounting : B3T
No load current : 59.9/34.5 A	Rotation ¹ : Both
Rated speed : 1480 rpm	Noise level ² : 70 dB(A)
Slip : 1.33 %	Vibration class : A
Rated torque : 49.4 kgfm	Starting method : Direct On Line
Locked rotor torque : 260 %	Approx. weight ³ : 462 kg
Pull up torque : 220 %	Painting plan : 201A
Breakdown torque : 300 %	Color : RAL 7000
Insulation class : F	Design : N
Service factor : 1.00	
Moment of inertia (J) : 1.04 kgm ²	

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	92.5	93.0	93.0	Load torque	: -
Power Factor	0.48	0.69	0.79	0.84	Load inertia (J=GD ² /4)	: -

Bearing type	Drive end	Non drive end	Foundation loads		
	6316-C3	6314-C3		Max. traction : 1066 kgf	
	Lubrication interval	10421 h		11638 h	Max. compression : 1528 kgf
	Lubricant amount	34 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)
7.27	6.15	5.93	3.61	2.55	1.72	1.22

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	53999/2026		
Checked by	AUTOMATICO	Page	Revision	
Date	24/02/2026	1/1	0	