

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer : \_\_\_\_\_

Product line : W20 - IE1 Standard Efficiency  
 Product code : 19040996 Catalog # : 300HP

Frame : 355M/L	Locked rotor time : 26 s (hot) 47 s (cold)
Output : 220 kW (300 HP)	Temperature rise <sup>4</sup> : 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 : 401/231 A	Protection degree : IP55
L. R. Amperes : 2607/1501 A	Cooling method : IC411 - TEFC
LRC : 6.5	Mounting : B3T
No load current : 111/63.7 A	Rotation <sup>1</sup> : Both
Rated speed : 1490 rpm	Noise level <sup>2</sup> : 79 dB(A)
Slip : 0.67 %	Vibration class : A
Rated torque : 144 kgfm	Starting method : Direct On Line
Locked rotor torque : 190 %	Approx. weight <sup>3</sup> : 1580 kg
Pull up torque : 160 %	Painting plan : 201A
Breakdown torque : 230 %	Color : RAL 7000
Insulation class : F	Design : N
Service factor : 1.00	
Moment of inertia (J) : 6.34 kgm <sup>2</sup>	

Output	Start	50%	75%	100%	Load type	: -
Efficiency (%)	-	94.0	94.7	94.8	Load torque	: -
Power Factor	0.36	0.80	0.86	0.88	Load inertia (J=GD <sup>2</sup> /4)	: -

Bearing type	Drive end	Non drive end	Foundation loads		
	6322-C3	6319-C3		Max. traction : 1380 kgf	
	Lubrication interval	7267 h		9029 h	Max. compression : 2960 kgf
	Lubricant amount	60 g		45 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	54012/2026		
Checked by	AUTOMATICO	Page	Revision	
Date	24/02/2026	1/1	0	