DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W20 - IE1 Standard Efficiency		
Product code	: 19040846	Catalog #	: 125HP

Frame	: 280M	Locked rotor time	: 10 s (hot) 18 s (cold)
Output	: 90 kW (125 HP)	Temperature rise[4]	: 80 K
Poles	: 2	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	: 165/95.0 A	Protection degree	: IP55
L. R. Amperes	: 1155/665 A	Cooling method	: IC411 - TEFC
LRC	: 7.0	Mounting	: B3T
No load current	: 51.0/29.4 A	Rotation[1]	: Both
Rated speed	: 2975 rpm	Noise level[2]	: 83 dB(A)
Slip	: 0.83 %	Vibration class	: A
Rated torque	: 29.5 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 170 %	Approx. weight[3]	: 515 kg
Pull up torque	: 140 %	Painting plan	: 201A
Breakdown torque	: 230 %	Color	: RAL 7000
Insulation class	: F	Design	: N
Service factor	: 1.00		
Moment of inertia (J)	: 0.8605 kgm²		

Output	Start	50%	75%	100%
Efficiency (%)	-	92.5	93.0	93.0
Power Factor	0.37	0.77	0.85	0.89

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

	Drive end	Non drive end
Bearing type	6314-C3	6314-C3
Lubrication interval	4548 h	4548 h
Lubrication amount	27 g	27 g
Lubrication type	MOBIL POLYREX EM	

Foundation loads	
Max. traction	: 336 kgf
Max. compression	: 851 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)
6.95	4.88	4.28	4.15	2.19	1.56	0.86

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		53990/2026	
Checked by	AUTOMATICO		Page	Revision
Date	24/02/2026		1/1	0