

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13984006  
Catalog # : 00136ET3WAL80-W22

Frame	: 80	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3L(E)
Duty cycle	: S1	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 12.4 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0015 kgm <sup>2</sup>
Design	: N		

Output [HP]		1.5	1.5
Poles		2	2
Frequency [Hz]		50	60
Rated voltage [V]		220/380	460
Rated current [A]		4.18/2.42	2.08
L. R. Amperes [A]		30.9/17.9	19.3
LRC [A]		7.4	9.3
No load current [A]		1.90/1.10	1.10
Rated speed [RPM]		2820	3465
Slip [%]		6.00	3.75
Rated torque [kgfm]		0.386	0.314
Locked rotor torque [%]		340	480
Breakdown torque [%]		330	470
Service factor		1.25	1.25
Temperature rise		80 K	80 K
Locked rotor time		41s (cold) 23s (hot)	39s (cold) 22s (hot)
Noise level <sup>2</sup>		59.0 dB(A)	62.0 dB(A)
Efficiency (%)	25%	82.0	76.1
	50%	82.0	78.5
	75%	83.7	81.5
	100%	83.1	84.0
Power Factor	25%	0.41	0.36
	50%	0.66	0.60
	75%	0.77	0.71
	100%	0.83	0.79

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	18.4	17.3
	P2 (0,5;1,0)	13.4	12.5
	P3 (0,25;1,0)	12.4	11.6
	P4 (0,9;0,5)	11.6	10.9
	P5 (0,5;0,5)	6.5	6.1
	P6 (0,5;0,25)	5.0	4.7
	P7 (0,25;0,25)	3.1	2.9

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6204 ZZ	6203 ZZ	Max. traction	: 41 kgf
Sealing	: V'Ring	V'Ring	Max. compression	: 53 kgf
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

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 changes after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	29/12/2023			

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Notes

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