

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13984003  
Catalog # : 7536ET3WAL80-W22

Frame	: 80	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 220/380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 2.94/1.70 A	Protection degree	: IP55
L. R. Amperes	: 21.1/12.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.2	Mounting	: B3L(E)
No load current	: 1.38/0.800 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 2840 rpm	Noise level <sup>2</sup>	: 59.0 dB(A)
Slip	: 5.33 %	Starting method	: Direct On Line
Rated torque	: 1.85 ft.lb	Approx. weight <sup>3</sup>	: 24.9 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0180 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	75.2	74.5	75.5	75.5	82.2	81.7	81.6	82.1	Max. traction	: 42 lb
	73.8		75.5		80.0		81.5			
Power Factor	0.41	0.34	0.66	0.57	0.77	0.70	0.82	0.77	Max. compression	: 66 lb
	0.35		0.59		0.72		0.79			

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

Losses (%)	P1 (0,9;1,0)	20.7	20.0	20.8
	P2 (0,5;1,0)	15.4	14.9	15.5
	P3 (0,25;1,0)	15.0	14.5	15.1
	P4 (0,9;0,5)	13.6	13.2	13.7
	P5 (0,5;0,5)	8.1	7.8	8.1
	P6 (0,5;0,25)	6.5	6.3	6.5
	P7 (0,25;0,25)	4.2	4.1	4.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6204 ZZ	6203 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes:

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.
- (4) At 100% of full load.

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	26/03/2024			
			Page	Revision
			1 / 1	