

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 15197498

Catalog # : 01012ET3EPM254/6Y-W2

Frame	: 256TZ	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 28.5-26.6/13.3 A	Protection degree	: IP55
L. R. Amperes	: 185-173/86.5 A	Cooling method	: IC418 - TEAO
LRC	: 6.5x(Code H)	Mounting	: F-1
No load current	: 10.3-12.0/6.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1175 rpm	Noise level <sup>2</sup>	: 59.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 44.7 ft.lb	Approx. weight <sup>3</sup>	: 286 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 4.43 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	90.0	90.4	90.2	90.2	91.0	89.5	91.0	89.1	Max. traction	: 528 lb
	90.6	89.9	90.2	89.5	90.2	90.2	89.5	89.5		
Power Factor	0.38	0.41	0.63	0.66	0.74	0.79	0.78	0.83	Max. compression	: 815 lb
	0.38	0.36	0.63	0.60	0.77	0.75	0.82	0.81		

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

Losses (%)	P1 (0,9;1,0)	9.8	9.8	9.8	9.8
	P2 (0,5;1,0)	8.4	8.4	8.4	8.4
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8
	P4 (0,9;0,5)	5.0	5.0	5.0	5.0
	P5 (0,5;0,5)	3.6	3.6	3.6	3.6
	P6 (0,5;0,25)	2.5	2.5	2.5	2.5
	P7 (0,25;0,25)	1.8	1.8	1.8	1.8

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 g
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	28/03/2024			
			Page	Revision
			1 / 1	