

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Standard Efficiency Three-Phase

Product code :

12683745

Catalog # :

00509ES3EOW256T-W22

Frame	: 254/6T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 8	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	: 16.1-14.5/7.27 A	Protection degree	: IP55
L. R. Amperes	: 101-91.6/45.8 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code J)	Mounting	: F-2
No load current	: 6.63-6.00/3.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 825 rpm	Noise level ²	: 54.0 dB(A)
Slip	: 8.33 %	Starting method	: Direct On Line
Rated torque	: 31.8 ft.lb	Approx. weight ³	: 281 lb
Locked rotor torque	: 300 %		
Breakdown torque	: 0 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 3.14 sq.ft.lb		
Design	: D		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	74.9	75.5	77.0	77.0	Max. traction	: -140 lb
Power Factor	0.41	0.64	0.76	0.83	Max. compression	: 140 lb

		<u>Drive end</u>	<u>Non drive end</u>
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		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	