

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Three-Phase

Product code : 12781475
Catalog # : 10012ES3EOW445T-W22

Frame	: 444/5T	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 100 HP (75 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	: 268-242/121 A	Protection degree	: IP55
L. R. Amperes	: 1606-1452/726 A	Cooling method	: IC411 - TEFC
LRC	: 6.0x(Code G)	Mounting	: F-2
No load current	: 102-92.0/46.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1135 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 5.42 %	Starting method	: Direct On Line
Rated torque	: 456 ft.lb	Approx. weight ³	: 2053 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 0 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 106 sq.ft.lb		
Design	: D		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	87.5	88.5	89.5	90.2	Max. traction	: -1026 lb
Power Factor	0.47	0.72	0.82	0.86	Max. compression	: 1026 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	NU-319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	9000 h	16000 h
Lubricant amount	:	45 g	34 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	19/01/2018			
			Revision	