

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Standard Efficiency Three-Phase

Product code :

12781475

Catalog # :

10012ES3EOW445T-W22

Frame : 444/5T
 Output : 100 HP (75 kW)
 Poles : 6
 Frequency : 60 Hz
 Rated voltage : 208-230/460 V
 Rated current : 281-254/127 A
 L. R. Amperes : 1826-1651/826 A
 LRC : 6.5x(Code H)
 No load current : 124-112/56.0 A
 Rated speed : 1150 rpm
 Slip : 4.17 %
 Rated torque : 457 ft.lb
 Locked rotor torque : 350 %
 Breakdown torque : 0 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 106 sq.ft.lb
 Design : D

Locked rotor time : 45s (cold) 25s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : F-2
 Rotation¹ : Both (CW and CCW)
 Noise level² : 69.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 1854 lb

Output	25%	50%	75%	100%
Efficiency (%)	87.5	88.5	89.5	90.2
Power Factor	0.41	0.66	0.77	0.82

Foundation loads
 Max. traction : -927 lb
 Max. compression : 927 lb

	Drive end	Non drive end
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	26/03/2024			
		Revision		