

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase
Product code : 12180344
Catalog # : 10089EP3QCT444VF1-W2

Frame	: 444/5T	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 100 HP (75 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 119 A	Protection degree	: IP55
L. R. Amperes	: 952 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code J)	Mounting	: F-1
No load current	: 39.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1785 rpm	Noise level ²	: 74.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 294 ft.lb	Approx. weight ³	: 1975 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 70.5 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	89.8	86.5	91.0	87.5	93.0	90.2	94.1	91.0	Max. traction	: -240 lb
Power Factor	0.47	0.25	0.70	0.42	0.80	0.50	0.84	0.58	Max. compression	: 1734 lb

				<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:			6319 C3	6316 C3
Sealing	:			WSeal	WSeal
Lubrication interval	:			8000 h	10000 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				
Checked by				
Date	28/03/2024			

Page 1 / 2
Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page		Revision
Checked by					
Date	28/03/2024				
			2 / 2		