

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11165996

Catalog # : 10036ET3E405TS-W22

Frame : 404/5TS  
Output : 100 HP (75 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 224/112 A  
L. R. Amperes : 1456/728 A  
LRC : 6.5x(Code G)  
No load current : 52.0/26.0 A  
Rated speed : 3545 rpm  
Slip : 1.53 %  
Rated torque : 148 ft.lb  
Locked rotor torque : 240 %  
Breakdown torque : 260 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 13.2 sq.ft.lb  
Design : B

Locked rotor time : 25s (cold) 14s (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-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 79.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 1109 lb

Output	25%	50%	75%	100%
Efficiency (%)	0.000	93.0	94.1	94.1
Power Factor	0.00	0.83	0.88	0.89

Foundation loads  
Max. traction : 601 lb  
Max. compression : 1710 lb

	Drive end	Non drive end
Bearing type	6314 C3	6314 C3
Sealing	WSeal	WSeal
Lubrication interval	4000 h	4000 h
Lubricant amount	27 g	27 g
Lubricant type	Mobil Polyrex EM	

Notes:  
USABLE @208V 243A SF 1.10 SFA 268A

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 Revision		
Checked by				
Date	26/03/2024			