

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof High Efficiency Three-Phase Product code : 10083415

Frame	: 182T	Locked rotor time	: 72s (cold) 40s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 8	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 4.63/2.31 A	Protection degree	: IP55
L. R. Amperes	: 27.8/13.9 A	Cooling method	: IC411 - TEFC
LRC	: 6.0x(Code M)	Mounting	: F-1
No load current	: 4.13/2.06 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 875 rpm	Noise level <sup>2</sup>	: 50.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 6.00 ft.lb	Approx. weight <sup>3</sup>	: 114 lb
Locked rotor torque	: 300 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.3991 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	66.1	68.0	72.0	74.0	Max. traction	: 77 lb
Power Factor	0.18	0.35	0.45	0.55	Max. compression	: 191 lb

		Drive end	Non drive end
Bearing type	:	6307 2RS	6206 2RS
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes:  
USABLE @208V 5.12A SF 1.15 SFA 5.88A

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 / 2 Revision		
Checked by				
Date	27/03/2024			

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	27/03/2024				