

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 13207635

Frame	: 254/6TC	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 47.0/23.5 A	Protection degree	: IP55
L. R. Amperes	: 296/148 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code G)	Mounting	: F-1
No load current	: 14.0/7.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level <sup>2</sup>	: 75.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 29.9 ft.lb	Approx. weight <sup>3</sup>	: 216 lb
Locked rotor torque	: 190 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.05 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	90.7	90.2	91.0	90.2	Max. traction	: 264 lb
Power Factor	0.53	0.78	0.86	0.89	Max. compression	: 480 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6208 Z C3
Sealing	:	V'Ring	Without Bearing Seal
Lubrication interval	:	15797 h	20000 h
Lubricant amount	:	13 g	8 g
Lubricant type	:	Mobil Polyrex EM	

Notes:  
USABLE @208V 52.0A SF 1.00 SFA 52.0A

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		Revision
Checked by		1 / 1		
Date	26/03/2024			