

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 12802185
Catalog # : 02018EP3ER256TC-S

Frame	: 254/6TC	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 49.8/24.9 A	Protection degree	: IP55
L. R. Amperes	: 294/147 A	Cooling method	: IC411 - TEFC
LRC	: 5.9x(Code G)	Mounting	: F-1
No load current	: 21.6/10.8 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 59.7 ft.lb	Approx. weight ³	: 216 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.15 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	90.8	91.0	91.0	91.0	Max. traction	: 665 lb
Power Factor	0.41	0.67	0.78	0.83	Max. compression	: 881 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	:	20000 h	20000 h
Lubricant amount	:	13 g	8 g
Lubricant type	:	Mobil Polyrex EM	

Notes:
USABLE @208V 55.1A SF 1.00 SFA 55.1A

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 1 / 1		
Checked by				
Date	26/03/2024			