DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Saw Arbor Motor Three-Phase	Product code :	10023134
		Catalog # :	01018ES3ESA90LR

Frame	: 90L/MS	Locked rotor time	: 10s (cold) 6s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 32.5-29.4/14.7 A	Protection degree	: IP54
L. R. Amperes	: 260-235/117 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B3R(D)
No load current	: 18.0-16.3/8.13 A	Rotation[1]	: CCW
Rated speed	: 1715 rpm	Noise level[2]	: 51.0 dB(A)
Slip	: 4.72 %	Starting method	: Direct On Line
Rated torque	: 30.2 ft.lb	Approx. weight[3]	: 182 lb
Locked rotor torque	: 400 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 0.3989 sq.ft.lb		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	84.5	85.5	85.5
Power Factor	0.54	0.67	0.75

Foundation loads

Max. traction	: 829 lb
Max. compression	: 1011 lb

		Drive end	Non drive end
Bearing type	:	6308 ZZ	6208 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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			Page	Revision
Date	22/01/2018		1 / 1	

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