

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Three-Phase Product code : 14051984
Catalog # : .5518EP3EAL80FF-W22

Frame	: 80	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 0.75 HP (0.55 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 1.35 A	Protection degree	: IP55
L. R. Amperes	: 7.16 A	Cooling method	: IC411 - TEFC
LRC	: 5.3	Mounting	: B35L(E)
No load current	: 0.900 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1430 rpm	Noise level ²	: 44.0 dB(A)
Slip	: 4.67 %	Starting method	: Direct On Line
Rated torque	: 2.75 ft.lb	Approx. weight ³	: 31.9 lb
Locked rotor torque	: 170 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0574 sq.ft.lb		
Design	: N		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	69.6	69.6	71.0	71.0	76.0	76.0	77.1	77.1	Max. traction	: 50 lb
	71.1		72.0		76.5		77.0			
Power Factor	0.33	0.27	0.59	0.53	0.72	0.65	0.80	0.75	Max. compression	: 81 lb
	0.26		0.50		0.63		0.72			

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	27.7	27.7	27.9
	P2 (0,5;1,0)	22.2	22.2	22.3
	P3 (0,25;1,0)	22.2	22.2	22.3
	P4 (0,9;0,5)	20.2	20.2	20.3
	P5 (0,5;0,5)	14.0	14.0	14.1
	P6 (0,5;0,25)	12.8	12.8	12.9
	P7 (0,25;0,25)	9.0	9.0	9.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6204 ZZ	6203 ZZ
Sealing	:	Oil Seal	Oil 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				
Date	26/03/2024			
			Page	Revision
			1 / 1	