

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase

Product code : 10579598

Catalog # : 007180T3E213TF3

Frame : 213/5T
 Output : 7.5 HP (5.5 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 230/460 V
 Rated current : 18.1/9.03 A
 L. R. Amperes : 135/67.7 A
 LRC : 7.5x(Code J)
 No load current : 7.60/3.80 A
 Rated speed : 1765 rpm
 Slip : 1.94 %
 Rated torque : 22.3 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 270 %
 Insulation class : F
 Service factor : 1.15
 Moment of inertia (J) : 0.9198 sq.ft.lb
 Design : B

Locked rotor time : 21s (cold) 12s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP21
 Cooling method : IC01 - ODP
 Mounting : F-3
 Rotation¹ : Both (CW and CCW)
 Noise level² : 58.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 103 lb

Output	25%		50%		75%		100%	
Efficiency (%)	88.1	83.1	89.0	84.7	90.2	87.0	91.0	88.6
	81.9	80.8	83.7	82.8	86.8	86.6	88.6	88.6
	87.1	86.0	86.5	86.5	87.5	87.5	86.5	87.7
	85.4		86.5		87.5		88.5	
Power Factor	0.43	0.37	0.68	0.57	0.79	0.71	0.84	0.80
	0.33	0.31	0.53	0.50	0.67	0.63	0.76	0.73
	0.46	0.42	0.68	0.64	0.80	0.76	0.86	0.83
	0.38		0.60		0.73		0.81	

Foundation loads
 Max. traction : 435 lb
 Max. compression : 538 lb

	Drive end	Non drive end
Bearing type	6208 ZZ	6206 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				
Date	25/03/2024			

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 Revision