

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower High Efficiency Three-Phase

Product code : 12172561

Catalog # : 00589EP3PCT184VF1-W2

Frame : 182/4T
Output : 5 HP (3.7 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 200 V
Rated current : 15.3 A
L. R. Amperes : 114 A
LRC : 7.4x(Code J)
No load current : 8.51 A
Rated speed : 1750 rpm
Slip : 2.78 %
Rated torque : 15.0 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.4461 sq.ft.lb

Locked rotor time : 12s (cold) 7s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 58.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 99.7 lb

Output	25%	50%	75%	100%				
Efficiency (%)	83.2	64.0	84.0	66.0	86.5	72.0	87.0	74.0
Power Factor	0.34	0.19	0.58	0.34	0.72	0.44	0.80	0.52

Foundation loads
Max. traction : 56 lb
Max. compression : 156 lb

	Drive end	Non drive end
Bearing type	6207 2RS	6206 2RS
Sealing	V'Ring	V'Ring
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		Page 1 / 2 Revision		
Checked by				
Date	28/03/2024			

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Space heater information

Voltage: 110-127/200-240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 2 / 2		Revision
Checked by					
Date	28/03/2024				