

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12751161

Catalog # : 00536ET3E184T-S

Frame : 182/4T
Output : 5 HP (3.7 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 11.8/5.90 A
L. R. Amperes : 92.0/46.0 A
LRC : 7.8x(Code J)
No load current : 4.40/2.20 A
Rated speed : 3500 rpm
Slip : 2.78 %
Rated torque : 7.50 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.2079 sq.ft.lb
Design : B

Locked rotor time : 34s (cold) 19s (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 : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 78.5 lb

Output	50%	75%	100%
Efficiency (%)	87.5 86.9	88.5 87.0	88.5 87.1
	87.7	88.0	88.2
Power Factor	0.76 0.73	0.85 0.83	0.89 0.88
	0.66	0.78	0.85

Foundation loads
Max. traction : 150 lb
Max. compression : 218 lb

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

Losses (%)	P1 (0,9;1,0)	12.5	13.0	12.8
	P2 (0,5;1,0)	10.5	10.9	10.8
	P3 (0,25;1,0)	10.1	10.5	10.3
	P4 (0,9;0,5)	6.6	6.8	6.8
	P5 (0,5;0,5)	4.4	4.6	4.5
	P6 (0,5;0,25)	3.1	3.2	3.1
	P7 (0,25;0,25)	2.2	2.3	2.2

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	6205 ZZ
Sealing	:	V'Ring	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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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