

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: W22 High Efficiency Three-Phase		Product code :	12823174
Frame : 184TC Output : 5 HP (3.7 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 13.6/6.80 A L. R. Amperes : 95.2/47.6 A LRC : 7.0x(Code J) No load current : 7.50/3.75 A Rated speed : 1750 rpm Slip : 2.78 % Rated torque : 15.0 ft.lb Locked rotor torque : 190 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.3683 sq.ft.lb Design : B		Locked rotor time : 23s (cold) 13s (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 : W-6 Rotation ¹ : Both (CW and CCW) Noise level ² : 56.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 99.1 lb		
Output	25%	50%	75%	100%
Efficiency (%)	86.2	85.1	86.5	85.5
	85.2	86.2	85.5	86.5
Power Factor	0.34	0.42	0.60	0.70
	0.39	0.36	0.67	0.63
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	13.8	15.1	15.1
	P2 (0,5;1,0)	12.6	13.8	13.8
	P3 (0,25;1,0)	12.9	14.1	14.1
	P4 (0,9;0,5)	7.2	7.9	7.9
	P5 (0,5;0,5)	5.6	6.1	6.1
	P6 (0,5;0,25)	4.1	4.5	4.5
	P7 (0,25;0,25)	3.3	3.6	3.6
Drive end Bearing type : 6207 ZZ Sealing : V'Ring Lubrication interval : - Lubricant amount : - Lubricant type : Mobil Polyrex EM				
Non drive end				
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.	
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