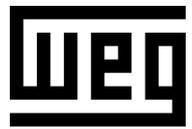


DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 High Efficiency Three-Phase	Product code : 12822486 Catalog # : 00112EP3ER145TC-W22				
Frame : 145TC Output : 1 HP (0.75 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 3.26/1.63 A L. R. Amperes : 18.6/9.29 A LRC : 5.7x(Code J) No load current : 2.42/1.21 A Rated speed : 1150 rpm Slip : 4.17 % Rated torque : 4.57 ft.lb Locked rotor torque : 250 % Breakdown torque : 280 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.1303 sq.ft.lb Design : B	Locked rotor time : 41s (cold) 23s (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 : 50.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 47.9 lb				
Output 25% 50% 75% 100% Efficiency (%) 74.9 76.1 75.5 75.5 80.0 78.5 80.0 77.0 76.2 73.4 75.5 74.0 78.5 78.5 77.0 78.5 Power Factor 0.27 0.33 0.50 0.58 0.63 0.71 0.72 0.78 0.28 0.26 0.53 0.50 0.67 0.64 0.75 0.73	Foundation loads Max. traction : 97 lb Max. compression : 145 lb				
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	23.7	28.3	28.3	26.0
	P2 (0,5;1,0)	20.7	24.7	24.7	22.7
	P3 (0,25;1,0)	21.2	25.3	25.3	23.2
	P4 (0,9;0,5)	14.8	17.6	17.6	16.2
	P5 (0,5;0,5)	11.0	13.1	13.1	12.1
	P6 (0,5;0,25)	9.3	11.1	11.1	10.2
	P7 (0,25;0,25)	7.0	8.3	8.3	7.6
Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	Drive end 6205 ZZ V'Ring - - Mobil Polyrex EM	Non drive end 6204 ZZ V'Ring - -			
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			Page	Revision	
Date	28/03/2024		1 / 1		