

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:							
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11990828					
Frame	: 182T	Locked rotor time	: 73s (cold) 41s (hot)					
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K					
Poles	: 2	Duty cycle	: Cont.(S1)					
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C					
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.					
Rated current	: 7.26/3.63 A	Protection degree	: IP55					
L. R. Amperes	: 62.4/31.2 A	Cooling method	: IC411 - TEFC					
LRC	: 8.6x(Code K)	Rotation ¹	: Both (CW and CCW)					
No load current	: 2.60/1.30 A	Noise level ²	: 66.0 dB(A)					
Rated speed	: 3510 rpm	Starting method	: Direct On Line					
Slip	: 2.50 %	Approx. weight ³	: 91.8 lb					
Rated torque	: 4.49 ft.lb							
Locked rotor torque	: 250 %							
Breakdown torque	: 380 %							
Insulation class	: F							
Service factor	: 1.25							
Moment of inertia (J)	: 0.1889 sq.ft.lb							
Design	: B							
Output	25%	50%	75%	100%				
Efficiency (%)	82.0	79.5	82.5	81.0	86.5	84.5	86.5	85.8
	79.1	77.8	80.6	79.7	84.5	84.1	85.8	85.9
	84.4	84.4	84.0	84.0	86.5	86.5	85.5	85.5
	84.4		84.0		86.5		85.5	
Power Factor	0.50	0.44	0.75	0.68	0.84	0.79	0.88	0.86
	0.41	0.39	0.65	0.63	0.77	0.75	0.84	0.82
	0.56	0.52	0.80	0.77	0.87	0.86	0.90	0.89
	0.50		0.75		0.84		0.88	
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	14.1	14.1	14.1	14.1	14.1	14.1	14.1
	P2 (0,5;1,0)	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	P3 (0,25;1,0)	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	P4 (0,9;0,5)	8.7	8.7	8.7	8.7	8.7	8.7	8.7
	P5 (0,5;0,5)	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	P6 (0,5;0,25)	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	P7 (0,25;0,25)	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Drive end					Non drive end			
Bearing type	:	6207 ZZ			6206 ZZ			
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.					These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.			
(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.								
Rev.	Changes Summary			Performed	Checked	Date		
Performed by								
Checked by							Page	Revision
Date	28/03/2024						1 / 1	