

DATA SHEET

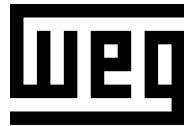
Three Phase Induction Motor - Squirrel Cage



Customer	:															
Product line	: W22 NEMA Premium Efficiency Three-Phase		Product code :	11922537												
Frame	: 444/5TS	Locked rotor time	: 52s (cold) 29s (hot)													
Output	: 125 HP	Temperature rise	: 80 K													
Poles	: 2	Duty cycle	: Cont.(S1)													
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C													
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.													
Rated current	: 134 A	Protection degree	: IP55													
L. R. Amperes	: 884 A	Cooling method	: IC411 - TEFC													
LRC	: 6.6x(Code G)	Mounting	: F-3													
No load current	: 34.0 A	Rotation ¹	: Both (CW and CCW)													
Rated speed	: 3570 rpm	Noise level ²	: 81.0 dB(A)													
Slip	: 0.83 %	Starting method	: Direct On Line													
Rated torque	: 184 ft.lb	Approx. weight ³	: 1663 lb													
Locked rotor torque	: 200 %															
Breakdown torque	: 250 %															
Insulation class	: F															
Service factor	: 1.15															
Moment of inertia (J)	: 33.5 sq.ft.lb															
Design	: B															
Output	25%	50%	75%	100%	Foundation loads											
Efficiency (%)	93.0	92.7	93.6	93.2	94.5	94.3	95.0	94.7	Max. traction	: 582 lb						
	92.7	92.2	93.2	92.8	94.3	94.3	94.7	94.8								
	93.9	93.9	94.0	94.0	94.5	94.5	94.5	94.5								
	93.4		94.0		94.5		95.0									
Power Factor	0.59	0.57	0.82	0.79	0.87	0.87	0.89	0.89	Max. compression	: 2245 lb						
	0.54	0.51	0.77	0.75	0.87	0.85	0.89	0.89								
	0.64	0.62	0.85	0.84	0.88	0.88	0.89	0.89								
	0.59		0.82		0.87		0.89									
Losses at normative operating points (speed;torque), in percentage of rated output power																
Losses (%)	P1 (0,9;1,0)	4.8	4.8	4.8	4.8	4.8	4.8	4.8								
	P2 (0,5;1,0)	3.0	3.0	3.0	3.0	3.0	3.0	3.0								
	P3 (0,25;1,0)	2.5	2.5	2.5	2.5	2.5	2.5	2.5								
	P4 (0,9;0,5)	3.1	3.1	3.1	3.1	3.1	3.1	3.1								
	P5 (0,5;0,5)	1.4	1.4	1.4	1.4	1.4	1.4	1.4								
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1								
	P7 (0,25;0,25)	0.5	0.5	0.5	0.5	0.5	0.5	0.5								
			Drive end			Non drive end										
Bearing type	:	NU-314 C3				6314 C3										
Sealing	:	WSeal				WSeal										
Lubrication interval	:	2000 h				4000 h										
Lubricant amount	:	27 g				27 g										
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																
Date	28/03/2024					Page	Revision									
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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.

Changes Summary

Performed

Checked

Date

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Date

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