

## DATA SHEET

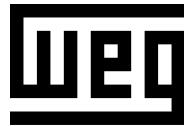
## Three Phase Induction Motor - Squirrel Cage



Customer :															
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11807570												
Frame	: 364/5TS	Locked rotor time	: 25s (cold) 14s (hot)												
Output	: 60 HP (45 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	: 134/67.0 A	Protection degree	: IP55												
L. R. Amperes	: 884/442 A	Cooling method	: IC411 - TEFC												
LRC	: 6.6x(Code G)	Mounting	: F-3												
No load current	: 32.0/16.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)												
Rated speed	: 3555 rpm	Noise level <sup>2</sup>	: 79.0 dB(A)												
Slip	: 1.25 %	Starting method	: Direct On Line												
Rated torque	: 88.6 ft.lb	Approx. weight <sup>3</sup>	: 866 lb												
Locked rotor torque	: 200 %														
Breakdown torque	: 260 %														
Insulation class	: F														
Service factor	: 1.25														
Moment of inertia (J)	: 10.6 sq.ft.lb														
Design	: B														
Output	25%	50%	75%	100%	Foundation loads										
Efficiency (%)	91.0	91.1	91.7	92.1	93.0	92.8	93.6	93.7	Max. traction : 481 lb						
	90.7	90.7	91.7	91.6	92.8	92.9	93.7	93.7							
	92.7	92.2	92.4	92.4	93.0	93.0	92.4	93.0							
Power Factor	0.59	0.60	0.81	0.81	0.88	0.88	0.90	0.89	Max. compression : 1347 lb						
	0.57	0.53	0.79	0.76	0.87	0.85	0.89	0.89							
	0.65	0.62	0.85	0.83	0.88	0.89	0.89	0.90							
	0.59	0.81	0.88	0.88	0.90										
Losses at normative operating points (speed;torque), in percentage of rated output power															
Losses (%)	P1 (0,9;1,0)	6.3	6.3	6.3	6.3	6.3	6.3	6.3							
	P2 (0,5;1,0)	4.7	4.7	4.7	4.7	4.7	4.7	4.7							
	P3 (0,25;1,0)	4.4	4.4	4.4	4.4	4.4	4.4	4.4							
	P4 (0,9;0,5)	3.3	3.3	3.3	3.3	3.3	3.3	3.3							
	P5 (0,5;0,5)	1.7	1.7	1.7	1.7	1.7	1.7	1.7							
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1							
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6							
				Drive end	Non drive end										
Bearing type		: 6314 C3		: 6314 C3											
Sealing		: WSeal		: WSeal											
Lubrication interval		: 4000 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	29/03/2024														

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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

Performed by			Page 2 / 2	Revision
Checked by				
Date	29/03/2024			