

DATA SHEET

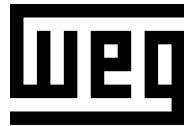
Three Phase Induction Motor - Squirrel Cage



Customer :																							
Product line	: W21 Explosion Proof High Efficiency Three-Phase		Product code :	11833296																			
Frame	: 213TC	Locked rotor time	: 37s (cold) 21s (hot)																				
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 105 K																				
Poles	: 4	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	: 19.0/9.52 A	Protection degree	: IP55																				
L. R. Amperes	: 122/60.9 A	Cooling method	: IC411 - TEFC																				
LRC	: 6.4x(Code H)	Mounting	: F-2																				
No load current	: 7.00/3.50 A	Rotation ¹	: Both (CW and CCW)																				
Rated speed	: 1755 rpm	Noise level ²	: 58.0 dB(A)																				
Slip	: 2.50 %	Starting method	: Direct On Line																				
Rated torque	: 22.4 ft.lb	Approx. weight ³	: 170 lb																				
Locked rotor torque	: 200 %																						
Breakdown torque	: 260 %																						
Insulation class	: F																						
Service factor	: 1.15																						
Moment of inertia (J)	: 0.9800 sq.ft.lb																						
Design	: B																						
Output	25%	50%	75%	100%																			
Efficiency (%)	87.2	83.3	87.5	82.5	89.5	85.5	89.5	84.0															
Power Factor	0.42	0.41	0.64	0.65	0.75	0.77	0.81	0.82															
	0.38	0.37	0.63	0.62	0.75	0.74	0.81	0.81															
<table border="0"> <tr> <td></td><td style="text-align: center;"><u>Drive end</u></td><td style="text-align: center;"><u>Non drive end</u></td></tr> <tr> <td>Bearing type</td><td>: 6308 2RS</td><td>: 6207 2RS</td></tr> <tr> <td>Sealing</td><td>: Oil Seal</td><td>: Lip Seal</td></tr> <tr> <td>Lubrication interval</td><td>: -</td><td>: -</td></tr> <tr> <td>Lubricant amount</td><td>: -</td><td>: -</td></tr> <tr> <td>Lubricant type</td><td colspan="3" rowspan="3" style="text-align: center;">Mobil Polyrex EM</td></tr> </table>						<u>Drive end</u>	<u>Non drive end</u>	Bearing type	: 6308 2RS	: 6207 2RS	Sealing	: Oil Seal	: Lip Seal	Lubrication interval	: -	: -	Lubricant amount	: -	: -	Lubricant type	Mobil Polyrex EM		
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Notes:																							
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>																							
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																			
Performed by																							
Checked by																							
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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	27/03/2024			