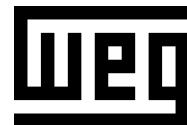


# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :																							
Product line	: W22 NEMA Premium Efficiency Three-Phase		Product code :	12445701																			
Frame	: 143/5T	Locked rotor time	: 36s (cold) 20s (hot)																				
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K																				
Poles	: 2	Duty cycle	: Cont.(S1)																				
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C																				
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.																				
Rated current	: 1.18 A	Protection degree	: IP55																				
L. R. Amperes	: 9.64 A	Cooling method	: IC411 - TEFC																				
LRC	: 8.2x(Code L)	Mounting	: F-1																				
No load current	: 0.616 A	Rotation <sup>1</sup>	: Both (CW and CCW)																				
Rated speed	: 3500 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)																				
Slip	: 2.78 %	Starting method	: Direct On Line																				
Rated torque	: 1.50 ft.lb	Approx. weight <sup>3</sup>	: 41.1 lb																				
Locked rotor torque	: 220 %																						
Breakdown torque	: 310 %																						
Insulation class	: F																						
Service factor	: 1.25																						
Moment of inertia (J)	: 0.0332 sq.ft.lb																						
Output	25%	50%	75%	100%																			
Efficiency (%)	73.8	75.0	79.0	80.0																			
Power Factor	0.37	0.63	0.74	0.80																			
Losses at normative operating points (speed;torque), in percentage of rated output power																							
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)																			
22.8	16.9	16.0	14.5	8.4																			
P6 (0,5;0,25)	P7 (0,25;0,25)																						
6.7	4.4																						
<table border="0"> <tr> <td></td><td style="text-align: center;">Drive end</td><td style="text-align: center;">Non drive end</td></tr> <tr> <td>Bearing type</td><td>: 6205 ZZ</td><td>: 6204 ZZ</td></tr> <tr> <td>Sealing</td><td>: V'Ring</td><td>: V'Ring</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>						Drive end	Non drive end	Bearing type	: 6205 ZZ	: 6204 ZZ	Sealing	: V'Ring	: V'Ring	Lubrication interval	: -	: -	Lubricant amount	: -	: -	Lubricant type	Mobil Polyrex EM		
	Drive end	Non drive end																					
Bearing type	: 6205 ZZ	: 6204 ZZ																					
Sealing	: V'Ring	: V'Ring																					
Lubrication interval	: -	: -																					
Lubricant amount	: -	: -																					
Lubricant type	Mobil Polyrex EM																						
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																							
Date	26/03/2024																						
				Page																			
				Revision																			
				1 / 1																			