

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :																						
Product line	: W40 NEMA Premium Efficiency Three-Phase		Product code :	14495932																		
			Catalog # :	03036OT3E284TS-W40																		
Frame	: 284TS	Locked rotor time	: 18s (cold) 10s (hot)																			
Output	: 30 HP (22 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	: 70.0/35.0 A	Protection degree	: IP23																			
L. R. Amperes	: 441/221 A	Cooling method	: IC01 - ODP																			
LRC	: 6.3x(Code G)	Mounting	: F-1																			
No load current	: 25.0/12.5 A	Rotation <sup>1</sup>	: Both (CW and CCW)																			
Rated speed	: 3545 rpm	Noise level <sup>2</sup>	: 73.0 dB(A)																			
Slip	: 1.53 %	Starting method	: Direct On Line																			
Rated torque	: 44.4 ft.lb	Approx. weight <sup>3</sup>	: 304 lb																			
Locked rotor torque	: 180 %																					
Breakdown torque	: 260 %																					
Insulation class	: F																					
Service factor	: 1.25																					
Moment of inertia (J)	: 1.59 sq.ft.lb																					
Design	: B																					
Output	25%	50%	75%	100%																		
Efficiency (%)	90.0	88.0	90.2	89.7	91.7	90.7	91.7	92.4														
	88.2	88.3	89.8	89.8	90.8	90.8	92.4	92.4														
Power Factor	0.48	0.50	0.73	0.75	0.82	0.83	0.86	0.87														
	0.45	0.41	0.70	0.66	0.80	0.77	0.85	0.83														
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33.33%;"></th><th style="width: 33.33%; text-align: center;">Drive end</th><th style="width: 33.33%; text-align: center;">Non drive end</th></tr> </thead> <tbody> <tr> <td>Bearing type</td><td>: 6311 Z C3</td><td>: 6211 Z C3</td></tr> <tr> <td>Sealing</td><td>: Without Bearing Seal</td><td>: Without Bearing Seal</td></tr> <tr> <td>Lubrication interval</td><td>: 20000 h</td><td>: 20000 h</td></tr> <tr> <td>Lubricant amount</td><td>: 18 g</td><td>: 11 g</td></tr> <tr> <td>Lubricant type</td><td colspan="3" rowspan="3" style="text-align: center;">Mobil Polyrex EM</td></tr> </tbody> </table>					Drive end	Non drive end	Bearing type	: 6311 Z C3	: 6211 Z C3	Sealing	: Without Bearing Seal	: Without Bearing Seal	Lubrication interval	: 20000 h	: 20000 h	Lubricant amount	: 18 g	: 11 g	Lubricant type	Mobil Polyrex EM		
	Drive end	Non drive end																				
Bearing type	: 6311 Z C3	: 6211 Z C3																				
Sealing	: Without Bearing Seal	: Without Bearing Seal																				
Lubrication interval	: 20000 h	: 20000 h																				
Lubricant amount	: 18 g	: 11 g																				
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>																						
Rev.	Changes Summary			Performed																		
				Checked																		
Performed by																						
Checked by																						
Date	29/03/2024																					
			Page	Revision																		
			1 / 1																			