

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :																																		
Product line	: W22 Single-Phase		Product code :	14174395																														
			Catalog # :	00318ES1E184TC-W22																														
Frame	: 182/4TC		Locked rotor time	: 14s (cold) 8s (hot)																														
Output	: 3 HP (2.2 kW)		Temperature rise	: 80 K																														
Poles	: 4		Duty cycle	: Cont.(S1)																														
Frequency	: 60 Hz		Ambient temperature	: -20°C to +40°C																														
Rated voltage	: 208-230/460 V		Altitude	: 1000 m.a.s.l.																														
Rated current	: 14.5-13.8/6.90 A		Protection degree	: IP55																														
L. R. Amperes	: 112-106/53.1 A		Cooling method	: IC411 - TEFC																														
LRC	: 7.7x(Code K)		Mounting	: F-1																														
No load current	: 5.78-6.70/3.35 A		Rotation ¹	: Both (CW and CCW)																														
Rated speed	: 1745 rpm		Noise level ²	: 60.0 dB(A)																														
Slip	: 3.06 %		Starting method	: Direct On Line																														
Rated torque	: 9.03 ft.lb		Approx. weight ³	: 110 lb																														
Locked rotor torque	: 290 %																																	
Breakdown torque	: 270 %																																	
Insulation class	: F																																	
Service factor	: 1.15																																	
Moment of inertia (J)	: 0.3735 sq.ft.lb																																	
Output	25%	50%	75%	100%																														
Efficiency (%)	62.3	65.0	74.0	77.0																														
Power Factor	0.50	0.79	0.87	0.90																														
<table border="0"> <tr> <th colspan="2"></th> <th>Drive end</th> <th colspan="2">Non drive end</th> </tr> <tr> <td>Bearing type</td> <td>:</td> <td>6207 ZZ</td> <td>6206 ZZ</td> <td></td> </tr> <tr> <td>Sealing</td> <td>:</td> <td>VRing</td> <td>VRing</td> <td></td> </tr> <tr> <td>Lubrication interval</td> <td>:</td> <td>-</td> <td>-</td> <td></td> </tr> <tr> <td>Lubricant amount</td> <td>:</td> <td>-</td> <td>-</td> <td></td> </tr> <tr> <td>Lubricant type</td> <td>:</td> <td colspan="3" rowspan="4" style="text-align: center;">Mobil Polyrex EM</td> </tr> </table>							Drive end	Non drive end		Bearing type	:	6207 ZZ	6206 ZZ		Sealing	:	VRing	VRing		Lubrication interval	:	-	-		Lubricant amount	:	-	-		Lubricant type	:	Mobil Polyrex EM		
		Drive end	Non drive end																															
Bearing type	:	6207 ZZ	6206 ZZ																															
Sealing	:	VRing	VRing																															
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>																																		
<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>																																		

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	28/03/2024			
			Page	Revision
			1 / 1	