

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																																																																																														
Product line	: W22 NEMA Premium Efficiency Three-Phase		Product code :	11578447																																																																																										
				Catalog # : 01536ET3E215TC-W22																																																																																										
<table> <tr><td>Frame</td><td>:</td><td>213/5TC</td><td>Locked rotor time</td><td>: 21s (cold) 12s (hot)</td></tr> <tr><td>Output</td><td>:</td><td>15 HP (11 kW)</td><td>Temperature rise</td><td>: 80 K</td></tr> <tr><td>Poles</td><td>:</td><td>2</td><td>Duty cycle</td><td>: Cont.(S1)</td></tr> <tr><td>Frequency</td><td>:</td><td>60 Hz</td><td>Ambient temperature</td><td>: -20°C to +40°C</td></tr> <tr><td>Rated voltage</td><td>:</td><td>208-230/460 V</td><td>Altitude</td><td>: 1000 m.a.s.l.</td></tr> <tr><td>Rated current</td><td>:</td><td>37.7-34.1/17.0 A</td><td>Protection degree</td><td>: IP55</td></tr> <tr><td>L. R. Amperes</td><td>:</td><td>302-273/136 A</td><td>Cooling method</td><td>: IC411 - TEFC</td></tr> <tr><td>LRC</td><td>:</td><td>8.0x(Code J)</td><td>Mounting</td><td>: F-1</td></tr> <tr><td>No load current</td><td>:</td><td>12.2-11.0/5.50 A</td><td>Rotation¹</td><td>: Both (CW and CCW)</td></tr> <tr><td>Rated speed</td><td>:</td><td>3530 rpm</td><td>Noise level²</td><td>: 72.0 dB(A)</td></tr> <tr><td>Slip</td><td>:</td><td>1.94 %</td><td>Starting method</td><td>: Direct On Line</td></tr> <tr><td>Rated torque</td><td>:</td><td>22.3 ft.lb</td><td>Approx. weight³</td><td>: 171 lb</td></tr> <tr><td>Locked rotor torque</td><td>:</td><td>260 %</td><td></td><td></td></tr> <tr><td>Breakdown torque</td><td>:</td><td>330 %</td><td></td><td></td></tr> <tr><td>Insulation class</td><td>:</td><td>F</td><td></td><td></td></tr> <tr><td>Service factor</td><td>:</td><td>1.25</td><td></td><td></td></tr> <tr><td>Moment of inertia (J)</td><td>:</td><td>0.7214 sq.ft.lb</td><td></td><td></td></tr> <tr><td>Design</td><td>:</td><td>A</td><td></td><td></td></tr> </table>				Frame	:	213/5TC	Locked rotor time	: 21s (cold) 12s (hot)	Output	:	15 HP (11 kW)	Temperature rise	: 80 K	Poles	:	2	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	:	37.7-34.1/17.0 A	Protection degree	: IP55	L. R. Amperes	:	302-273/136 A	Cooling method	: IC411 - TEFC	LRC	:	8.0x(Code J)	Mounting	: F-1	No load current	:	12.2-11.0/5.50 A	Rotation ¹	: Both (CW and CCW)	Rated speed	:	3530 rpm	Noise level ²	: 72.0 dB(A)	Slip	:	1.94 %	Starting method	: Direct On Line	Rated torque	:	22.3 ft.lb	Approx. weight ³	: 171 lb	Locked rotor torque	:	260 %			Breakdown torque	:	330 %			Insulation class	:	F			Service factor	:	1.25			Moment of inertia (J)	:	0.7214 sq.ft.lb			Design	:	A			
Frame	:	213/5TC	Locked rotor time	: 21s (cold) 12s (hot)																																																																																										
Output	:	15 HP (11 kW)	Temperature rise	: 80 K																																																																																										
Poles	:	2	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	:	37.7-34.1/17.0 A	Protection degree	: IP55																																																																																										
L. R. Amperes	:	302-273/136 A	Cooling method	: IC411 - TEFC																																																																																										
LRC	:	8.0x(Code J)	Mounting	: F-1																																																																																										
No load current	:	12.2-11.0/5.50 A	Rotation ¹	: Both (CW and CCW)																																																																																										
Rated speed	:	3530 rpm	Noise level ²	: 72.0 dB(A)																																																																																										
Slip	:	1.94 %	Starting method	: Direct On Line																																																																																										
Rated torque	:	22.3 ft.lb	Approx. weight ³	: 171 lb																																																																																										
Locked rotor torque	:	260 %																																																																																												
Breakdown torque	:	330 %																																																																																												
Insulation class	:	F																																																																																												
Service factor	:	1.25																																																																																												
Moment of inertia (J)	:	0.7214 sq.ft.lb																																																																																												
Design	:	A																																																																																												
Output	25%	50%	75%	100%	Foundation loads																																																																																									
Efficiency (%)	0.000	90.2	91.0	91.0	Max. traction : 330 lb																																																																																									
Power Factor	0.00	0.78	0.85	0.89	Max. compression : 501 lb																																																																																									
<table> <tr><td colspan="2"></td><td>Drive end</td><td colspan="2">Non drive end</td></tr> <tr><td>Bearing type</td><td>:</td><td>6308 ZZ</td><td>6207 ZZ</td><td></td></tr> <tr><td>Sealing</td><td>:</td><td>V'Ring</td><td>V'Ring</td><td></td></tr> <tr><td>Lubrication interval</td><td>:</td><td>0 h</td><td>0 h</td><td></td></tr> <tr><td>Lubricant amount</td><td>:</td><td>0 g</td><td>0 g</td><td></td></tr> <tr><td>Lubricant type</td><td>:</td><td colspan="3" rowspan="3">Mobil Polyrex EM</td></tr> </table>							Drive end	Non drive end		Bearing type	:	6308 ZZ	6207 ZZ		Sealing	:	V'Ring	V'Ring		Lubrication interval	:	0 h	0 h		Lubricant amount	:	0 g	0 g		Lubricant type	:	Mobil Polyrex EM																																																														
		Drive end	Non drive end																																																																																											
Bearing type	:	6308 ZZ	6207 ZZ																																																																																											
Sealing	:	V'Ring	V'Ring																																																																																											
Lubrication interval	:	0 h	0 h																																																																																											
Lubricant amount	:	0 g	0 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>					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	Date
Performed by				
Checked by				
Date	28/03/2024			
		Page	Revision	
		1 / 1		