

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																																																																							
Product line	: Rolled Steel Standard Efficiency Three-Phase		Product code :	14096588																																																																			
			Catalog # :	.2518ES3E56CFL-S																																																																			
<table> <tr><td>Frame</td><td>: 56C</td><td>Locked rotor time</td><td>: 68s (cold) 38s (hot)</td></tr> <tr><td>Output</td><td>: 0.25 HP (0.18 kW)</td><td>Temperature rise</td><td>: 80 K</td></tr> <tr><td>Poles</td><td>: 4</td><td>Duty cycle</td><td>: Cont.(S1)</td></tr> <tr><td>Frequency</td><td>: 60 Hz</td><td>Ambient temperature</td><td>: -20°C to +40°C</td></tr> <tr><td>Rated voltage</td><td>: 208-230/460 V</td><td>Altitude</td><td>: 1000 m.a.s.l.</td></tr> <tr><td>Rated current</td><td>: 1.15-1.04/0.521 A</td><td>Protection degree</td><td>: IP55</td></tr> <tr><td>L. R. Amperes</td><td>: 7.26-6.56/3.28 A</td><td>Cooling method</td><td>: IC411 - TEFC</td></tr> <tr><td>LRC</td><td>: 6.3x(Code M)</td><td>Mounting</td><td>: F-1</td></tr> <tr><td>No load current</td><td>: 0.776-0.900/0.450 A</td><td>Rotation¹</td><td>: Both (CW and CCW)</td></tr> <tr><td>Rated speed</td><td>: 1765 rpm</td><td>Noise level²</td><td>: 52.0 dB(A)</td></tr> <tr><td>Slip</td><td>: 1.94 %</td><td>Starting method</td><td>: Direct On Line</td></tr> <tr><td>Rated torque</td><td>: 0.744 ft.lb</td><td>Approx. weight³</td><td>: 17.7 lb</td></tr> <tr><td>Locked rotor torque</td><td>: 240 %</td><td></td><td></td></tr> <tr><td>Breakdown torque</td><td>: 300 %</td><td></td><td></td></tr> <tr><td>Insulation class</td><td>: F</td><td></td><td></td></tr> <tr><td>Service factor</td><td>: 1.15</td><td></td><td></td></tr> <tr><td>Moment of inertia (J)</td><td>: 0.0453 sq.ft.lb</td><td></td><td></td></tr> </table>				Frame	: 56C	Locked rotor time	: 68s (cold) 38s (hot)	Output	: 0.25 HP (0.18 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	: 1.15-1.04/0.521 A	Protection degree	: IP55	L. R. Amperes	: 7.26-6.56/3.28 A	Cooling method	: IC411 - TEFC	LRC	: 6.3x(Code M)	Mounting	: F-1	No load current	: 0.776-0.900/0.450 A	Rotation ¹	: Both (CW and CCW)	Rated speed	: 1765 rpm	Noise level ²	: 52.0 dB(A)	Slip	: 1.94 %	Starting method	: Direct On Line	Rated torque	: 0.744 ft.lb	Approx. weight ³	: 17.7 lb	Locked rotor torque	: 240 %			Breakdown torque	: 300 %			Insulation class	: F			Service factor	: 1.15			Moment of inertia (J)	: 0.0453 sq.ft.lb		
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Output	25%	50%	75%	100%																																																																			
Efficiency (%)	54.4	56.7	57.5	59.3																																																																			
	52.5	55.7	63.7	67.9																																																																			
Power Factor	0.24	0.28	0.43	0.50																																																																			
	0.25	0.44	0.54	0.63																																																																			
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<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																																																																			
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