DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : AutomationSTE Customer reference : AutomationSTE

Product line : Rolled Steel NEMA Premium Efficiency Product code : 12636593

Three-Phase

: F

: 1.15

: 0.0514 kgm²

Catalog #: 02036ET3E256T-S

Frame : 254/6T Locked rotor time : 21s (cold) 12s (hot)

Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 45.4/22.7 A Protection degree : IP55

L. R. Amperes : 300/150 A Cooling method : IC411 - TEFC LRC : 6.6x(Code G) Mounting : F-1

No load current : 13.8/6.88 A Rotation¹ : Both (CW and CCW)
Rated speed : 3515 rpm Noise level² : 75.0 dB(A)
Slip : 2.36 % Starting method : Direct On Line

Rated torque : 200 %

Breakdown torque : 290 %

Starting method : Direct On Line Approx. weight³ : 98.7 kg

Approx. weight³ : 98.7 kg

Design : B

Output 50% 75% 100% Foundation loads

 Efficiency (%)
 90.0
 91.0
 91.0
 Max. traction
 : 1366 N

 Power Factor
 0.81
 0.88
 0.91
 Max. compression
 : 2333 N

Drive end
Bearing typeDrive end
6309 Z C3Non drive end
6208 Z C3Sealing:V'RingWithout Bearing Seal
20000 hLubrication interval:15797 h20000 h

Lubricant amount : 13 g 8 g

Lubricant type : Mobil Polyrex EM

Notes:

Insulation class

Moment of inertia (J)

Service factor

USABLE @208V 50.2A SF 1.00 SFA 50.2A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

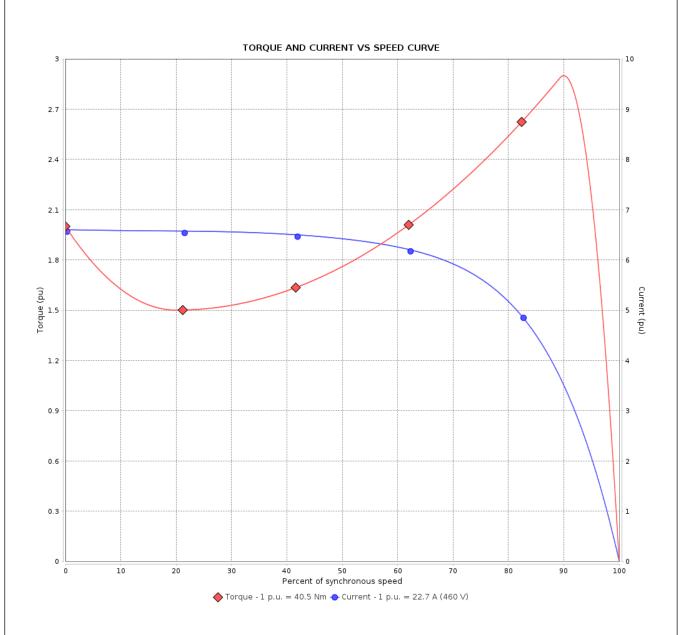


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Three-Phase

Catalog #: 02036ET3E256T-S



Performance : 230/460 V 60 Hz 2P Rated current : 45.4/22.7 A Moment of inertia (J) : 0.0514 kgm² **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 40.5 Nm Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



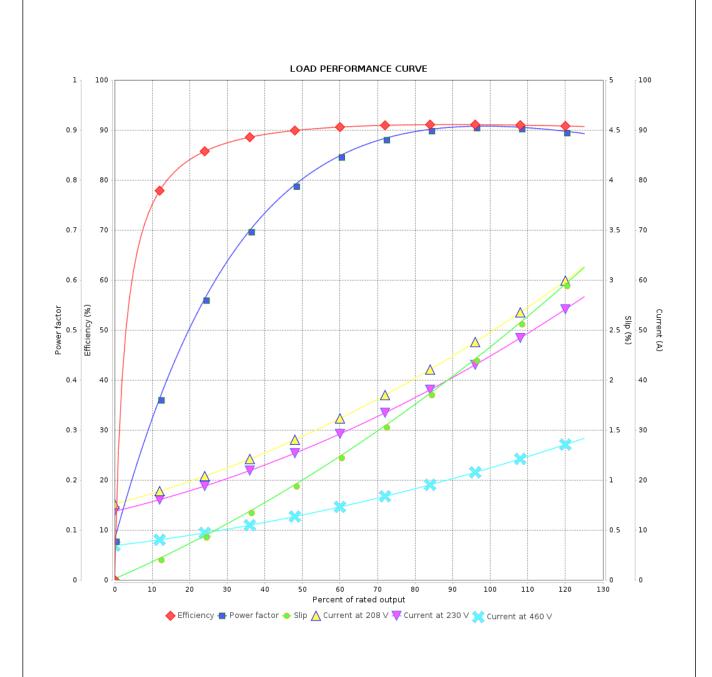
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Performance	:	: 230/460 V 60 Hz 2P						
Rated current	:	l l		Moment of inertia (J) Duty cycle		: 0.0514 kgm² : Cont.(S1)		
LRC	:							
Rated torque	:			class	:F			
Locked rotor torque	e :			ctor	: 1.15	: 1.15		
Breakdown torque	:			ıre rise	: 80 K : B			
Rated speed	:							
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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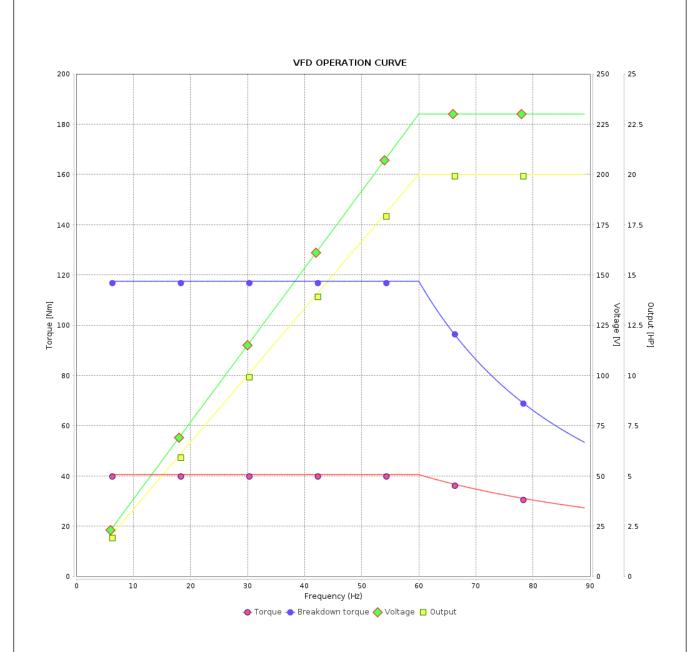
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Three-Phase

Catalog # : 02036ET3E256T-S

12636593

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Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 40 que : 20 ue : 29	Moment of inertia (J) 5.6 Duty cycle 10.5 Nm Insulation class 200 % Service factor 7emperature rise 15.4/22.7 A Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0514 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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