DATA SHEET

Three Phase Induction Motor - Squirrel Cage



: 02018EG3E256T-W22 Product line : W22 Super Premium Efficiency Product code: 11715185 Three-Phase Catalog #: 02018EG3E256T-W22 Frame : 254/6T Locked rotor time : 54s (cold) 30s (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 : 49.4/24.7 A Protection degree : IP55 L. R. Amperes : 366/183 A Cooling method : IC411 - TEFC LRC : 7.4x(Code J) Mounting : F-1 No load current : 22.0/11.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 372 lb Locked rotor torque : 260 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.29 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 94.1 : 805 lb Efficiency (%) 92.4 93.0 93.6 Max. traction Power Factor 0.39 0.75 0.81 : 1176 lb 0.63 Max. compression Non drive end Drive end 6209 C3 Bearing type 6309 C3 V'Ring Sealing V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 g Lubricant type Mobil Polyrex EM Notes

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



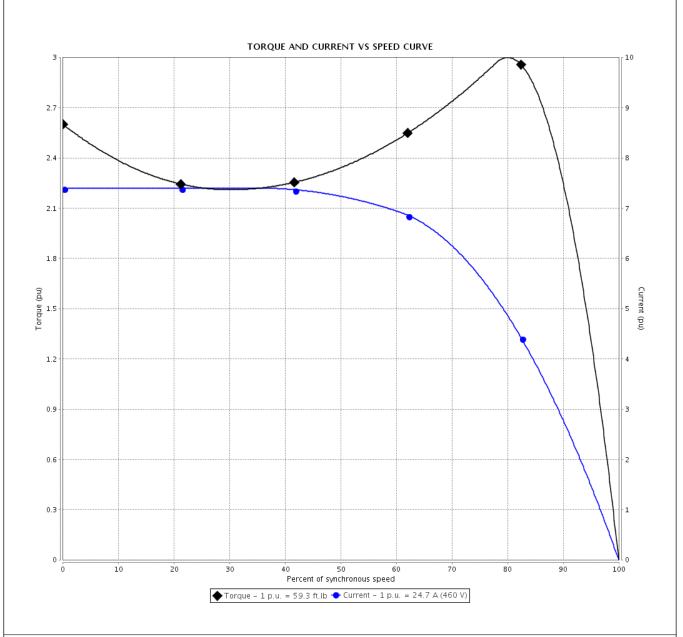
Customer : 02018EG3E256T-W22

Product line : W22 Super Premium Efficiency P

Three-Phase

Product code: 11715185

Catalog #: 02018EG3E256T-W22



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC	: 49.4/24.7 A : 7.4	Moment of inertia (J) Duty cycle	: 4.29 sq.ft.lb : Cont.(S1)
Rated torque	: 59.3 ft.lb	Insulation class	: F
Locked rotor torque Breakdown torque	: 260 % : 300 %	Service factor Temperature rise	: 1.25 : 80 K
Rated speed	: 1770 rpm	Design	: A

Locked rotor time : 54s (cold) 30s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

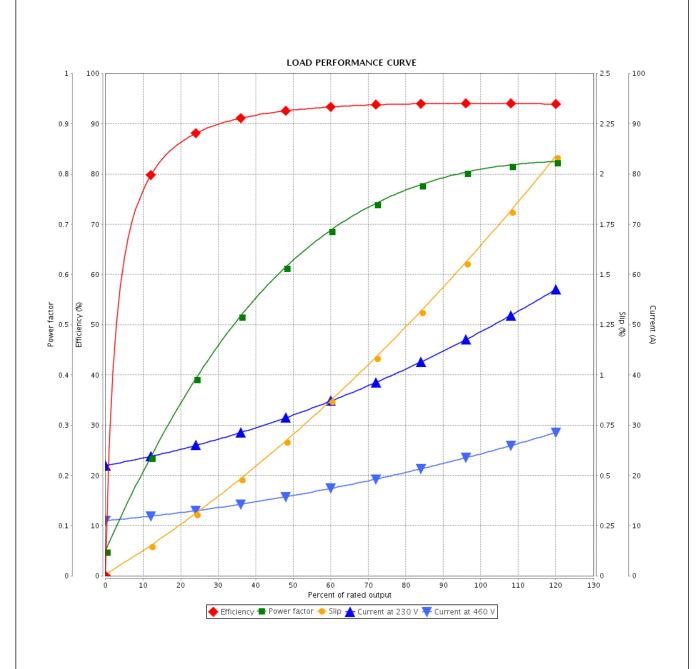


Customer : 02018EG3E256T-W22

Product line : W22 Super Premium Efficiency Product code : 11715185

Three-Phase

Catalog #: 02018EG3E256T-W22



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	49.4/24.7 A	Moment of inertia (J)		: 4.29 sq.ft.lb : Cont.(S1)	
LRC	:	: 7.4 Duty cycle : 59.3 ft.lb Insulation c : 260 % Service fact : 300 % Temperature		}		
Rated torque	:			class	:F	
Locked rotor torqu	e :			factor : 1.25		
Breakdown torque	:			ıre rise	: 80 K	
Rated speed	:	1770 rpm	770 rpm Design		: A	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



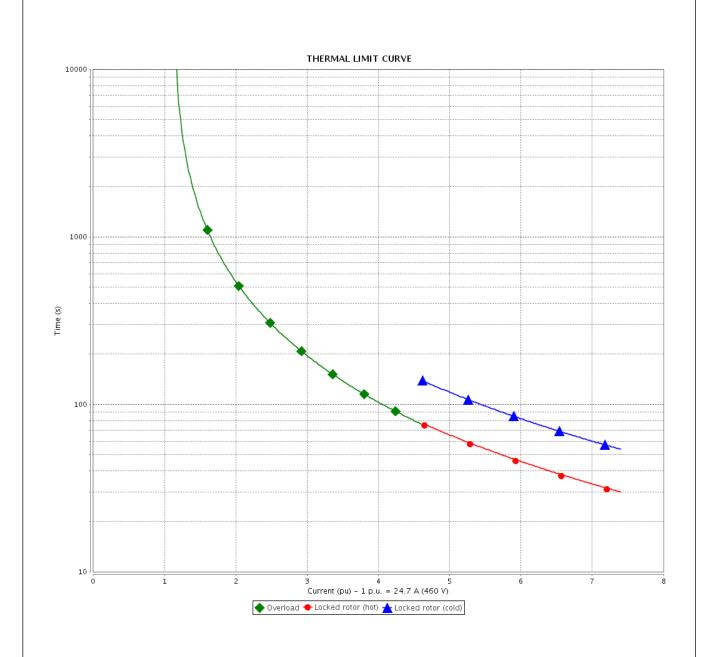
Customer	: 02018EG3E256T-W22				
Product line	: W22 Super Premium Efficie Three-Phase		Product code :	11715185 02018EG3E2	56T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230/460 V 60 Hz 4P : 49.4/24.7 A : 7.4 : 59.3 ft.lb : 260 % : 300 % : 1770 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 4.29 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : A	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : 02018EG3E256T-W22



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



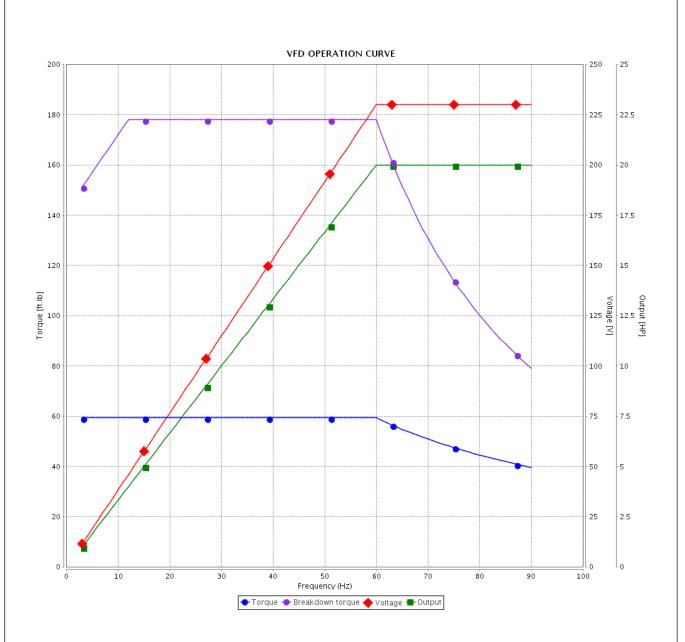
Customer : 02018EG3E256T-W22

Product line : W22 Super Premium Efficiency

Three-Phase

Product code: 11715185

Catalog #: 02018EG3E256T-W22



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 49.4/24.7 A : 7.4 : 59.3 ft.lb : 260 % : 300 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.29 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : A	
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Date

