### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12792532 Catalog #: 00218OT3V145T-SG Frame : 143/5T Locked rotor time : 30s (cold) 17s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 6.19/3.09 A : IC01 - ODP L. R. Amperes Mounting : F-1 : 47.6/23.8 A : 7.7x(Code K) : Both (CW and CCW) LRC Rotation<sup>1</sup> No load current : 3.16/1.58 A Noise level<sup>2</sup> : 52.0 dB(A) Rated speed : 1740 rpm Starting method : Direct On Line Slip : 3.33 % Approx. weight<sup>3</sup> : 40.2 lb Rated torque : 6.04 ft.lb Locked rotor torque : 260 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1168 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 86.5 86.5 : 148 lb Efficiency (%) 85.2 Max. traction Power Factor 0.36 0.74 0.81 : 188 lb 0.61 Max. compression Drive end Non drive end Bearing type 6205 ZZ 6203 ZZ

Sealing Without Bearing Seal Without Bearing Seal Lubrication interval

Lubricant amount

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



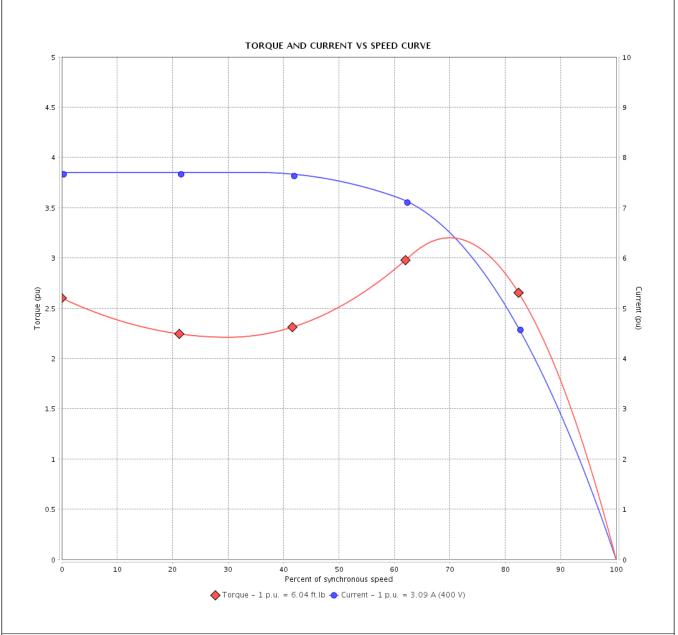
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12792532

Catalog #: 00218OT3V145T-SG



Performance : 200/400 V 60 Hz 4P Rated current : 6.19/3.09 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 6.04 ft.lb Insulation class Rated torque : 260 % Service factor Locked rotor torque : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1740 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



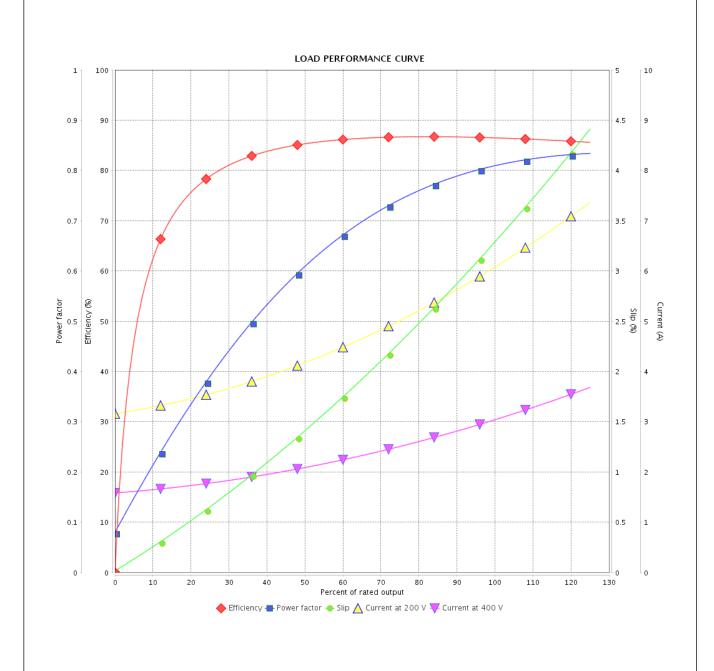
Customer

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12792532

Catalog #: 00218OT3V145T-SG



Performance	:	200/400 V 60 Hz 4P					
Rated current		6.19/3.09 A	Moment of	Moment of inertia (J)		.lb	
LRC :		7.7	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		6.04 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque		260 %	Service fa	Service factor		: 1.15	
Breakdown torque		320 %	Temperat	Temperature rise			
Rated speed		1740 rpm Design		: B			
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



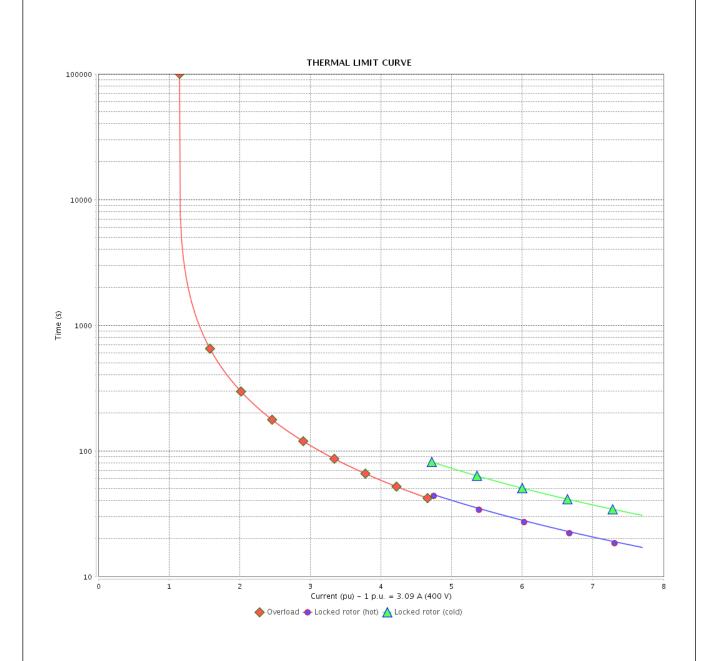
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Product line	:1	NEMA Premium Efficiency	Three-	Product code :	12792532	
	P	hase		Catalog # :	00218OT3V1	45T SC
				Catalog # .	0021801371	451-5G
Performance	: 20	00/400 V 60 Hz 4P				
Rated current		19/3.09 A	Moment o	f inertia (J)	: 0.1168 sq.ft.ll	)
LRC Rated torque	: 7. : 6	7 04 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torqu	ue : 26	60 %	Service fa	ctor	: 1.15	
Breakdown torque		20 %	Temperatu	ıre rise	: 80 K : B	
Rated speed	. 11	740 rpm	Design		. Б	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



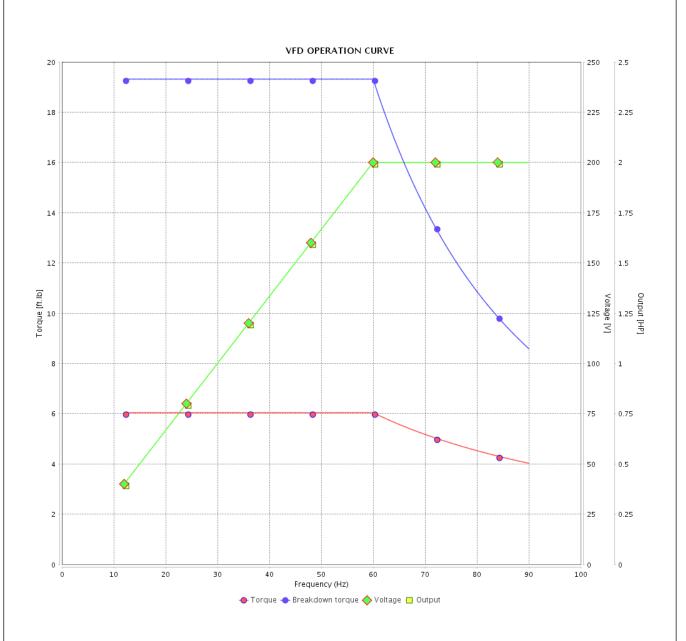
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12792532

Catalog #: 00218OT3V145T-SG



Performance	: 200/400 V 60 Hz 4P					
Rated current	: 6.19/3.09 A Moment		of inertia (J)	: 0.1168 sq.ft.lb : Cont.(S1)		
LRC	: 7.7	<ul><li>: 7.7</li><li>: 6.04 ft.lb</li><li>: 260 %</li><li>Duty cycle</li><li>Insulation class</li><li>Service factor</li></ul>				
Rated torque	: 6.04 ft.lb			: F		
Locked rotor torque	: 260 %			: 1.15 : 80 K : B		
Breakdown torque	: 320 % Ten		ure rise			
Rated speed	: 1740 rpm	740 rpm Design				
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14/04/2022

Date

