DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Rolled Steel NEMA Premium Product code: 12674849 Efficiency Three-Phase Catalog #: 00718OT3E213T-S Frame : 213/5T Locked rotor time : 23s (cold) 13s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 208-230/460 V : 1000 m.a.s.l. Altitude Cooling method Rated current : 20.5-18.5/9.25 A : IC01 - ODP L. R. Amperes : 147-133/66.6 A Mounting : F-1 : Both (CW and CCW) LRC : 7.2x(Code H) Rotation¹ No load current : 7.58-8.79/4.39 A Noise level² : 59.0 dB(A) Rated speed : 1770 rpm Starting method : Direct On Line Slip : 1.67 % Rated torque : 22.0 ft.lb Locked rotor torque : 240 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.03 sq.ft.lb Design 25% 50% 75% 100% Output Efficiency (%) 91.0 88.6 89.5 90.2

Notes

Power Factor

0.39

0.77

0.65

0.82

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).
- (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



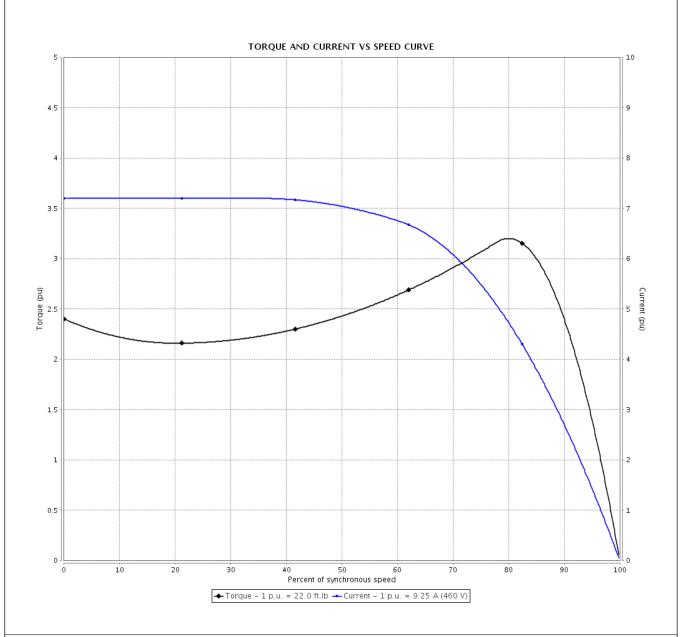
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674849

Catalog #: 00718OT3E213T-S



Performance : 208-230/460 V 60 Hz 4P Rated current : 20.5-18.5/9.25 A Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 22.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 : 320 % Breakdown torque Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



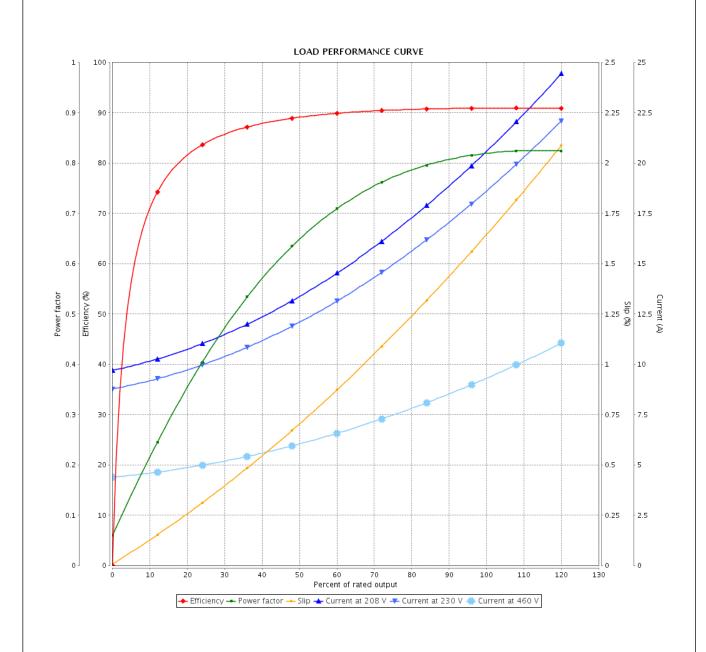
Customer

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674849

Catalog #: 00718OT3E213T-S



			_					
Performance		: 208-230/460 V 60 Hz 4P						
Rated current : 2		0.5-18.5/9.25 A	Moment of inertia (J)		: 1.03 sq.ft.lb			
LRC : 7.		.2	Duty cycle	Duty cycle				
Rated torque : 2		2.0 ft.lb	Insulation class		: F			
		40 %	Service fa	Service factor				
Breakdown torqu	ie : 32	20 %	Temperature rise		: 80 K			
Rated speed	: 1	1770 rpm Design		: B				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



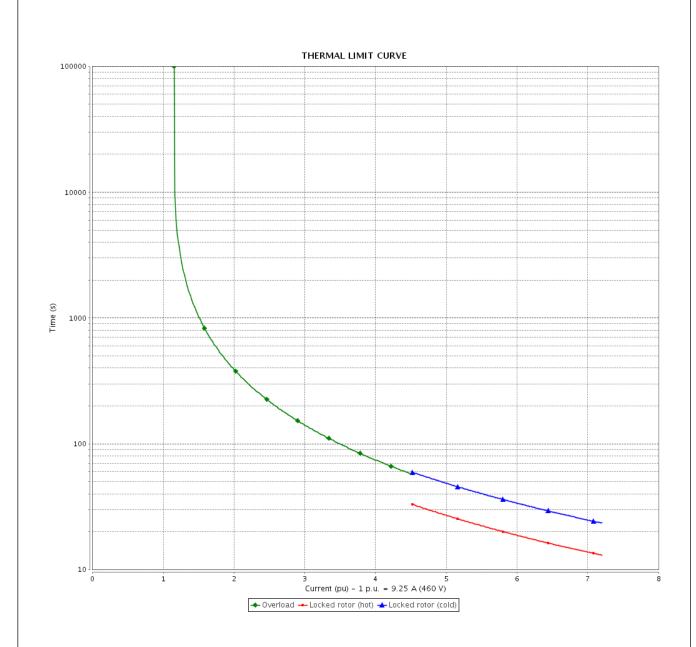
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Product line	:1	Rolled Steel NEMA Premiu	m I	Product code :	12674849	
	E [.]	fficiency Three-Phase		Catalog # :	00718OT3E2	12T C
				Catalog # .	00716013E2	131-3
Performance	: 20	08-230/460 V 60 Hz 4P				
Rated current		0.5-18.5/9.25 A	Moment of	f inertia (J)	: 1.03 sq.ft.lb	
LRC Rated torque	: 7. : 22	.2 2.0 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	e : 24	40 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		20 % 770 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 1	7 7 0 1 PHH	pesign		. U	
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



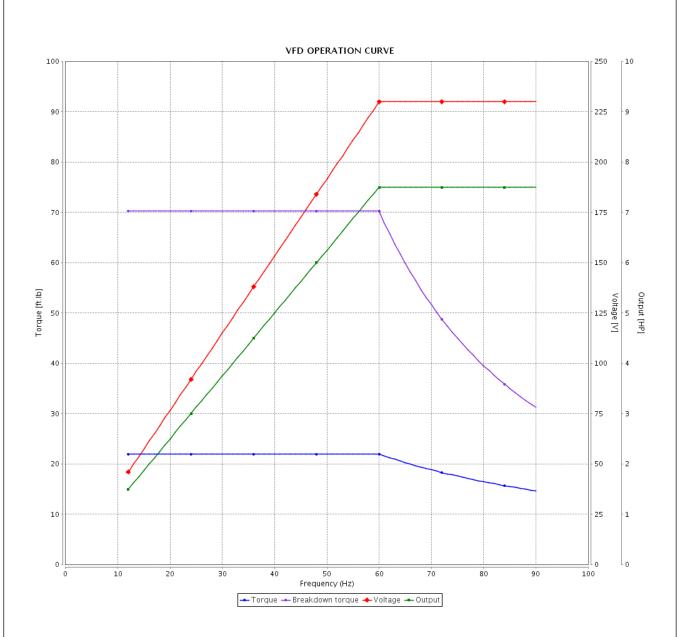
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674849

Catalog #: 00718OT3E213T-S



							
Performance	: 208-230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 20.5-18.5/9.25 A : 7.2 : 22.0 ft.lb : 240 % : 320 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K			
Rated speed	: 1770 rpm	Design		: B			
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26/01/2018

Date

