DATA SHEET

Three Phase Induction Motor - Squirrel Cage



								•
Customer		:						
Product line		: NEN Phas		m Efficiency	Three-	Product code : Catalog # :	13248674 00158OT3V145TC-SG	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J)		: 1.5 : 4 : 60 H : 200 : 4.76 : 41.4 : 8.75 : 2.76 : 176 : 2.22 : 4.48 : 280 : 330 : F	: 60 Hz : 200/400 V : 4.76/2.38 A : 41.4/20.7 A : 8.7x(Code L) : 2.76/1.38 A : 1760 rpm : 2.22 % : 4.48 ft.lb : 280 % : 330 % : F : 1.15 : 0.1426 sq.ft.lb		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³		: 27s (cold) 15s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IC01 - ODP : F-1 : Both (CW and CCW) : 52.0 dB(A) : Direct On Line : 42.6 lb	
Output	25%	50%	75%	100%	Founda	ation loads		
Efficiency (%)	83.6	84.0	86.5	86.5	Max. tr	action	: 107 lb	
Power Factor	0.32	0.56	0.69	0.77	Max. c	ompression	: 150 lb	
Bearing type		:		e end 05 ZZ		Non drive end 6203 ZZ	1	

Bearing type : 6205 ZZ 6203 ZZ
Sealing : Without Bearing Seal Without Bearing Seal
Lubrication interval : - -

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



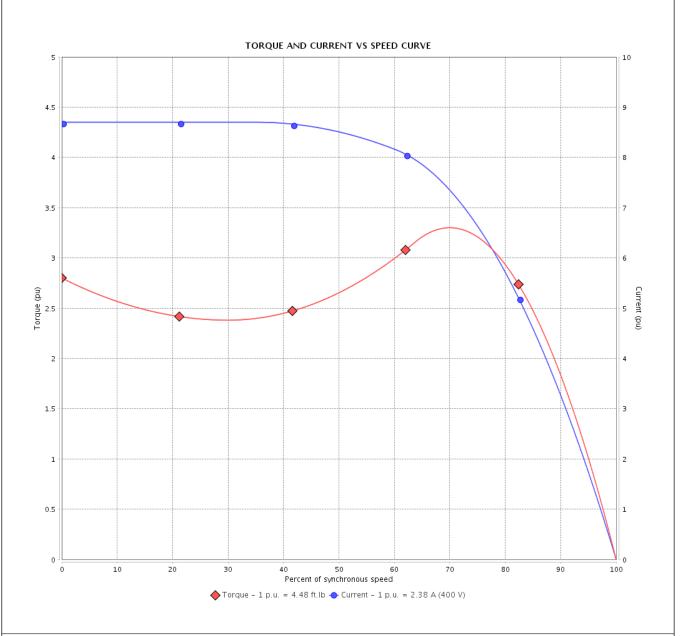
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 13248674

Catalog #: 00158OT3V145TC-SG



Performance : 200/400 V 60 Hz 4P Rated current : 4.76/2.38 A Moment of inertia (J) : 0.1426 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) : F : 4.48 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 280 % : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

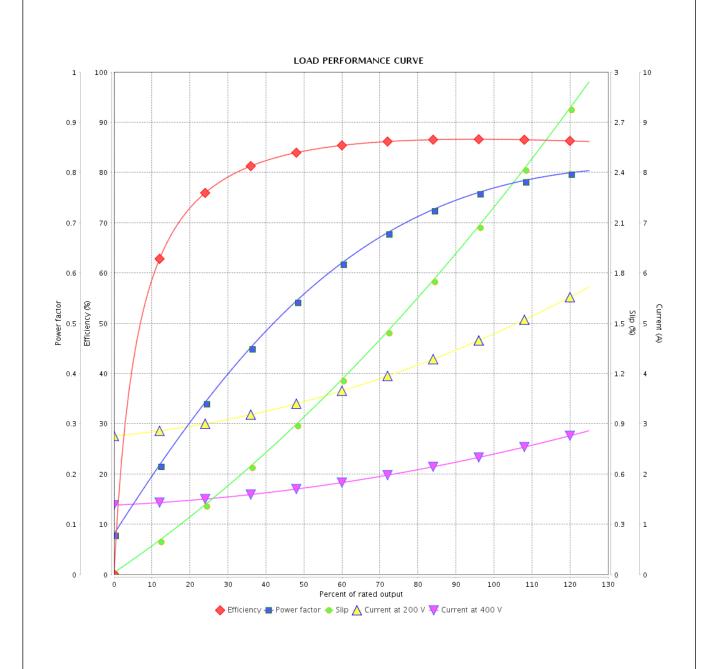


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13248674

Phase

Catalog #: 00158OT3V145TC-SG



Performance	::	200/400 V 60 Hz 4P				
Rated current	: 4	: 4.76/2.38 A Moment of		f inertia (J)	: 0.1426 sq.ft.lb	
LRC		3.7	Duty cycle		: Cont.(S1)	
Rated torque		4.48 ft.lb	Insulation class		:F	
Locked rotor torque		280 %	Service factor		: 1.15	
Breakdown torque	::	: 330 % : 1760 rpm		Temperature rise Design		
Rated speed	:					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



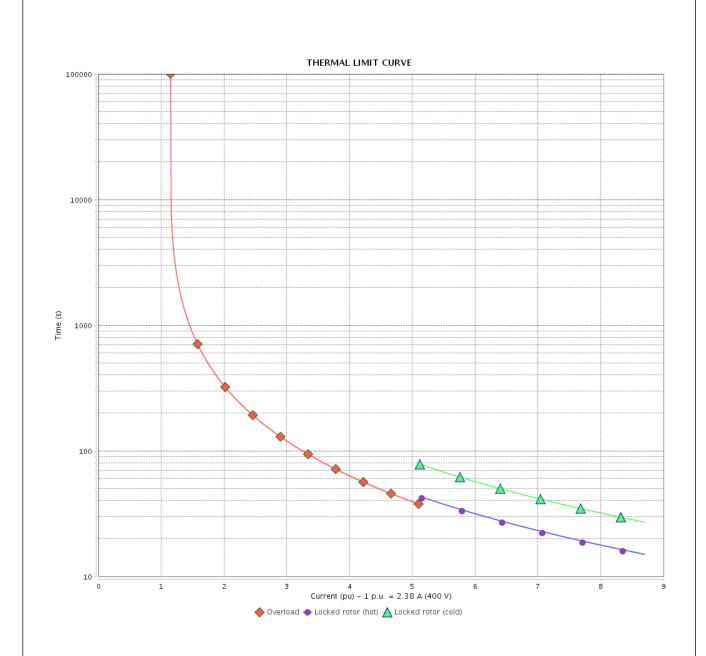
Customer	:				
Product line	: NEMA Premium Efficier Phase		Product code : Catalog # :	13248674 00158OT3V1	45TC-SG
Performance	: 200/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.76/2.38 A : 8.7 : 4.48 ft.lb : 280 % : 330 % : 1760 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1426 sq.ft.I : Cont.(S1) : F : 1.15 : 80 K : B	b
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



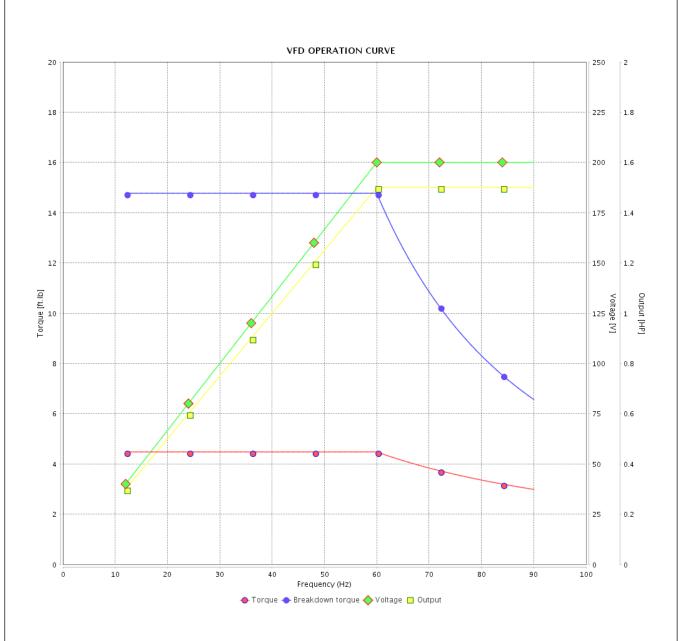
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13248674

Catalog #: 00158OT3V145TC-SG



Performance	: 200/400 V 60 Hz 4P					
Rated current	: 4.76/2.38 A Moment of ir		a (J)	: 0.1426 sq.ft.lb		
LRC	: 8.7	Duty cycle		: Cont.(S1)		
Rated torque	: 4.48 ft.lb	Insulation class		: F		
Locked rotor torque	: 280 %	Service factor		: 1.15		
Breakdown torque	: 330 %	Temperature rise		: 80 K		
Rated speed	: 1760 rpm	Design		: B		
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12/04/2022

Date

