### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12792530 Catalog #: 00158OT3V145T-SG Frame : 143/5T Locked rotor time : 27s (cold) 15s (hot) Output : 1.5 HP (1.1 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 : 4.76/2.38 A : IC01 - ODP L. R. Amperes : 41.4/20.7 A Mounting : F-1 : Both (CW and CCW) LRC : 8.7x(Code L) Rotation<sup>1</sup> No load current : 2.76/1.38 A Noise level<sup>2</sup> : 52.0 dB(A) Rated speed : 1760 rpm Starting method : Direct On Line Slip : 2.22 % Approx. weight<sup>3</sup> : 42.6 lb Rated torque : 4.48 ft.lb Locked rotor torque : 280 % Breakdown torque : 330 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1426 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 86.5 86.5 : 107 lb Efficiency (%) 83.6 84.0 Max. traction : 150 lb Power Factor 0.32 0.56 0.69 0.77 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



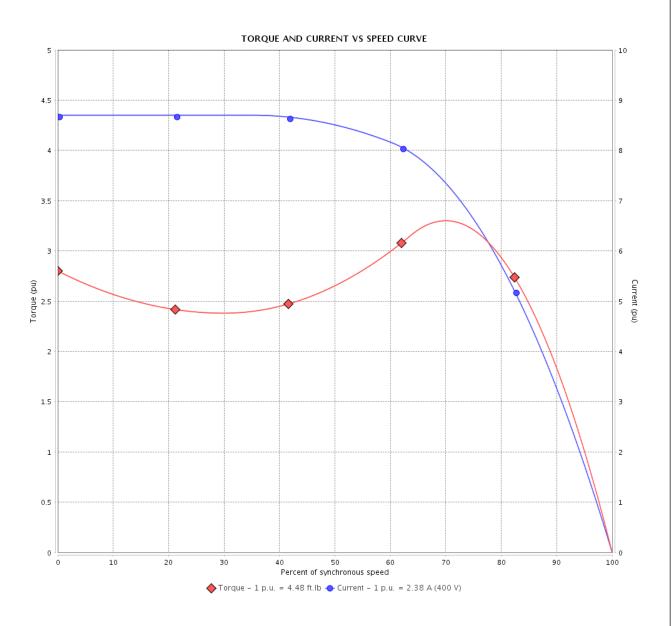
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12792530

Catalog #: 00158OT3V145T-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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1426 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor time	: 27s (cold) 15s (hot)	Design	. D	

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

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

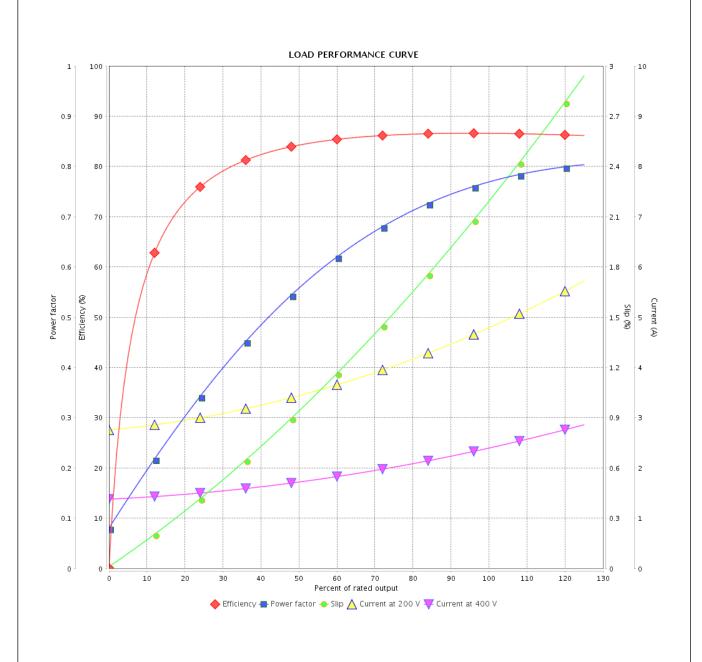


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12792530

Phase

Catalog #: 00158OT3V145T-SG



Performance	: 2	: 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)		
Rated torque	: 4	.48 ft.lb	Insulation class		: F		
Locked rotor torque	e : 2	80 %	Service factor		: 1.15		
Breakdown torque	: 3	30 %	Temperature rise		: 80 K		
Rated speed	: 1	760 rpm	Design		: B		
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



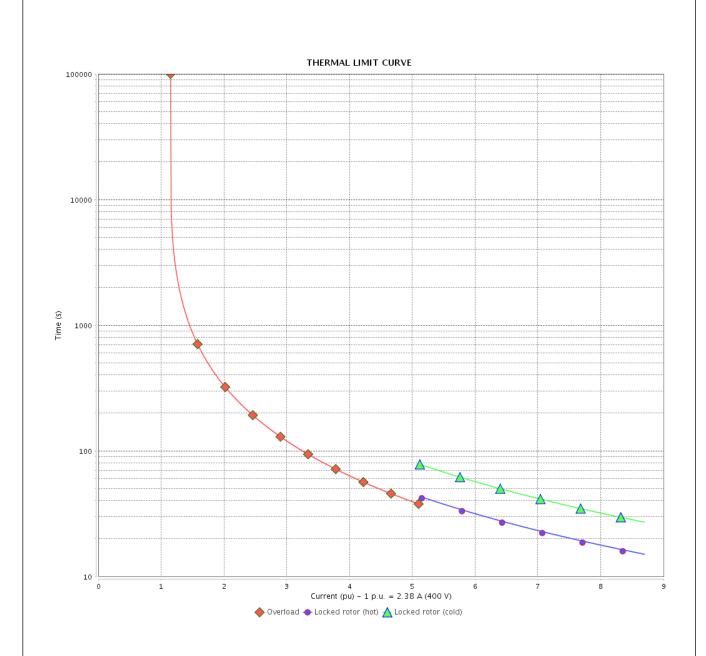
Customer	:					
Product line	:1	NEMA Premium Efficiency	Three-	Product code :	12792530	
		hase		Catalog # :	00158OT3V1	45T SC
				Catalog # .	001360134	451-36
Performance	: 20	00/400 V 60 Hz 4P				
Rated current		.76/2.38 A	Moment o	f inertia (J)	: 0.1426 sq.ft.l	b
LRC Rated torque	: 8. : 4.	.7 .48 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	e : 28	80 %	Service fa	ctor	: 1.15	
Breakdown torque		30 % 760 rpm	Temperatu	ıre rise	: 80 K	
Rated speed	: 1,	760 rpm	Design		: 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



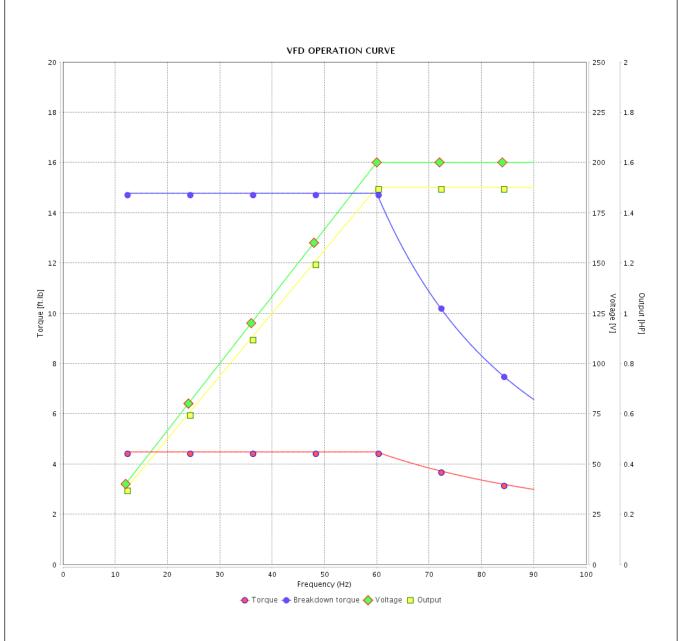
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12792530

Catalog #: 00158OT3V145T-SG

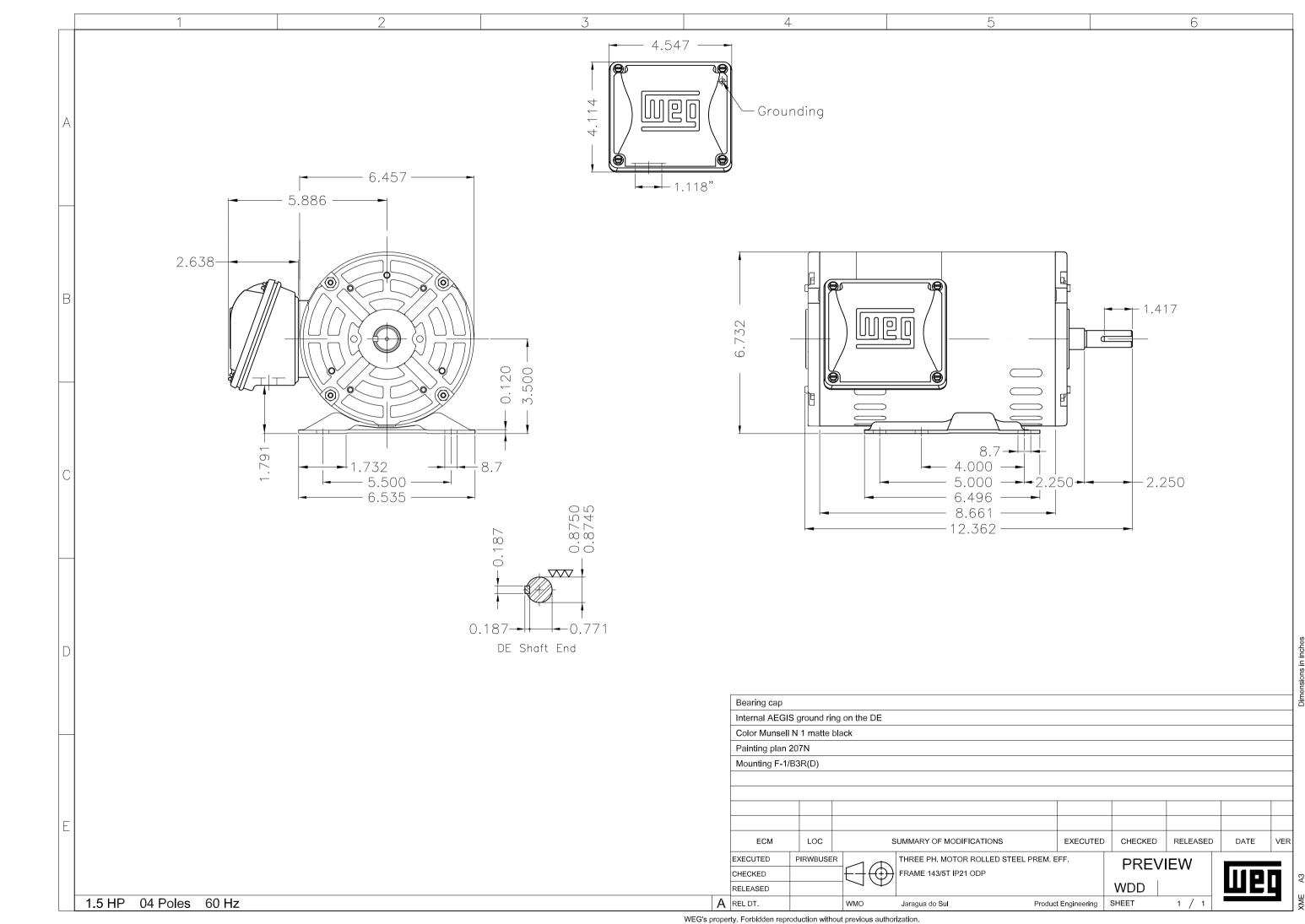


Performance	: 200/400 V 60 Hz 4P	: 200/400 V 60 Hz 4P						
Rated current	: 4.76/2.38 A	Moment of inertia (J)		: 0.1426 sq.ft.lb				
LRC	: 8.7	Duty cycle		: Cont.(S1)				
Rated torque	: 4.48 ft.lb	Insulation	class	: F				
Locked rotor torque	e : 280 %	Service factor		: 1.15				
Breakdown torque	: 330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

Date









**&** Energy Verifi

> MODEL 001580T3V145T-SG V01.TO0IC0X0N 6NOV2021

CC029A

12792530

MADE IN MÉXICO

Hz 60

143/51 CONT

1000 m.a.s.l

1.76/2.38 5.47/2.74

200/400 1.15

> F AT 80K 2°04

> > NS CL INC. WB

CODE DES ODP

86.5%

HER MON NEMA RPM 3FA 냃 监

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT ODE 6203-2Z T12

8205-ZZ

牌

Ξ

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical



71-BLU

MOBIL POLYREX EM

T9-BRK RED 13-ORG F5-BLK L7-PNK







choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine

conformément aux codes électriques locaux et nationaux afin d'éviter tout