DATA SHEET

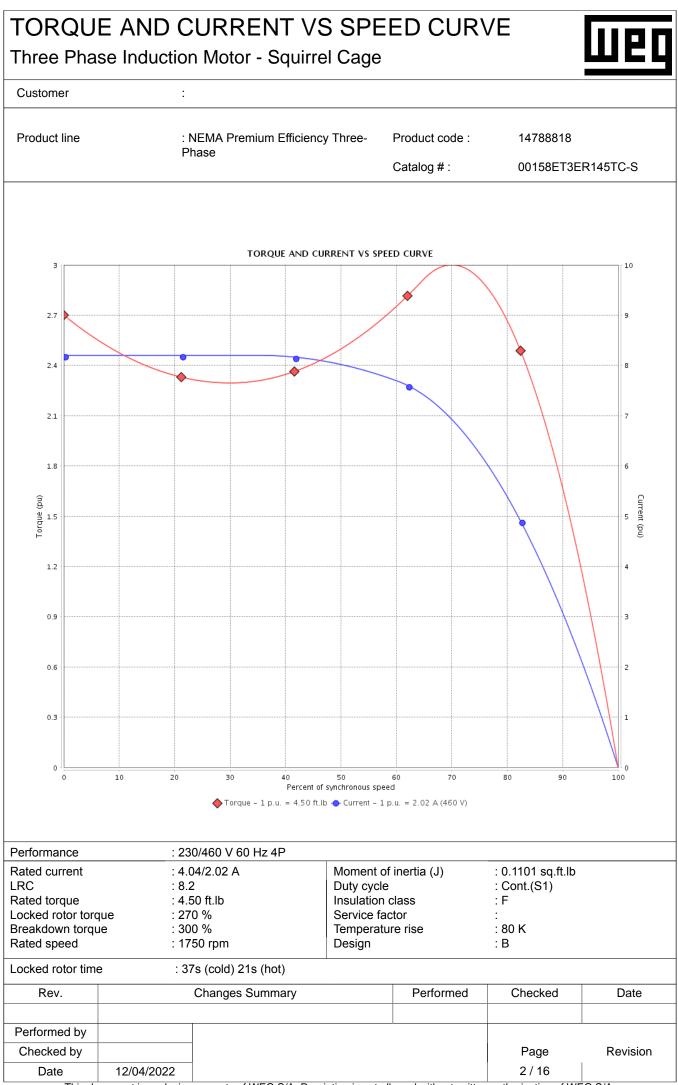
Three Phase Induction Motor - Squirrel Cage

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Customer

Catalog # : 007 Frame :: 143/5TC Cooling method :: 16 Insulation class :: F Mounting :: W Ambient temperature :: Cont.(S1) Rotation1 :: D Ambient temperature :: 20°C to +40°C Starting method :: D Ambient temperature :: 20°C to +40°C Starting method :: D Design :: B Moment of inertia (J) :: 0.0 Output [HP] 1.5 1.5 Moment of inertia (J) :: 0.0 Rated ourrent [A] : 404/2.02 : 482/2.41 : 0.2 : 1.371.07 : 0.2 Rated ourrent [A] : 0.2171.08 : 2131.07 : 0.2	Product line		: NEMA Premium Efficiency Three- Phase		hree-	Product code :	14788818		
Insulation class :: F Mounting :: W Ambient temperature :: 20°C to +40°C Rotation' :: W Antiude :: 1000 m.a.s.l. Approx. weight' :: 33 Protection degree :: IP55 Moment of inertia (J) :: 0.0 Design :: B Moment of inertia (J) :: 0.0 Output [HP] 1.5 1.5 : 0.0 Casted voltage [V] :: 230/460 : 190/380 : 0.0 Rated voltage [V] ::: 230/460 : 190/380 : 0.0 Rated voltage [V] ::: 230/460 : 190/380 : 0.0 Rated voltage [V] ::: 230/460 :: 50:0 : 0.0 Rated ourrent [A] :: 10:0 :: 10:0 : 10:0 Rated speed [RPM] :: 175 : 16:0 Silp [%] :: 16:0 Locked rotor torque [%] : 10:0 : 0.0 : 0.0 Cocked rotor torque [%] <			1 11030			Catalog # :	00158ET3E	R145TC-S	
Insulation class : F Mounting : W Ambient temperature : 20°C to +40°C Rotation ¹ : W Ambient temperature : 20°C to +40°C Starting method : D Attitude : 1000 m.a.s.l. Approx. weight ¹ : 33 Protection degree : 1P55 Moment of inertia (J) : 0.0 Design : B 1.5 : 0 : 0 Dutput [HP] 1.5 1.5 : 0 : 0 Trequency [Hz] 60 50 : 0 : 0 Stated ournent [A] 4.04/2.02 4.82/2.41 : 0 : 0 : 0 R. Amperes [A] 3.1/16.6 29.4/14.7 : 0	Frame		: 143/5TC		Cooling	g method	: IC411 - TE	FC	
Duty cycle : Cont (S1) Retation ¹ : B Ambient temperature : 20°C to +40°C Starting method D Attitude : 1000 m.a.s.l. Approx. weight ¹ : 33 Protection degree : IP55 Moment of inertia (J) : 0.0 Design : B Moment of inertia (J) : 0.0 Dutput [HP] 1.5 1.5 intervalue requency [Hz] 60 50 1 Stated voltage [V] 230/460 190/380 1 RC [A] 33.1/16.6 29.4/14.7 intervalue RC [A] 8.2x(Code K) 6.1x(Code H) iolad current [A] 2.17/1.08 Via load current [A] 2.17/1.08 2.13/1.07 1 Rated torque [Kib] 4.50 5.55 iocked notor torque [%i] 270 Ip [SW] 2.78 85.2 86.1 iocked notor torque [%i] iocked notor torque [%i] 25% Power Factor 50% 85.5 84.7 iocked notor torque [%i] iockin 0.35 0.41	Insulation class		: F				: W-6		
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Power Factor 50% 0.59 0.67 75% 0.72 0.78 100% 0.79 0.84 Bearing type : 6205 ZZ 6203 ZZ Sealing : V'Ring Without Bearing type : 6205 ZZ 6203 ZZ Sealing : V'Ring Without Bearing Seal : - - Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM Max. compression Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A These are average values based or power supply, subject to the toleran MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. MG-1. (4) At 100% of full load. Kev. Changes Summary Performed Chemic Chem			86	6.5		82.7		83.6	
Power Factor 75% 0.72 0.78 100% 0.79 0.84 Bearing type : 6205 ZZ 6203 ZZ Sealing : V'Ring Without Bearing type : 6205 ZZ 6203 ZZ Sealing : V'Ring Without Bearing type : 0.79 0.84 Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM Max. compression Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A These are average values based or power supply, subject to the toleran (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). MG-1. MG-1. (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. Performed Performed Performed by		25%	0.3	35		0.41		0.37	
Power Factor 75% 0.72 0.78 100% 0.79 0.84 Bearing type : 6205 ZZ 6203 ZZ Sealing : V'Ring Without Bearing type : 6205 ZZ 6203 ZZ Sealing : V'Ring Without Bearing type : 0.79 0.84 Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM Max. compression Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A These are average values based or power supply, subject to the toleran MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. MG-1. (4) At 100% of full load. Changes Summary Performed Chemic Chemi		50%	0.5	59				0.62	
100% 0.79 0.84 Drive end Non drive end Foundation loads Bearing type : 6205 ZZ 6203 ZZ Sealing : V'Ring Without Bearing Seal	Power Factor							0.75	
Drive end Bearing type Drive end 6205 ZZ Non drive end 6203 ZZ Foundation loads Sealing : V'Ring Without Bearing Seal Max. traction : 11 Lubrication interval : - - - - Lubrication interval : - - - - Lubricant amount : - - - - Lubricant type : Mobil Polyrex EM Max. compression : 15 Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A These are average values based or power supply, subject to the toleran (1) Looking the motor from the shaft end. . MG-1. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). . . MG-1. (3) Approximate weight subject to changes after manufacturing process. . Performed . (4) At 100% of full load. Performed by 								0.82	
Bearing type : 6205 ZZ 6203 ZZ Max. traction : 11. Sealing : V'Ring Without Max. compression : 15 Lubrication interval : - <		10070	I		Founda			0.02	
Sealing : V'Ring Without Bearing Seal Max. compression : 11 Lubrication interval : - - - - Lubricant amount : - - - - - Lubricant amount : -	Decring type								
Bearing Seal Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A This revision replaces and cancel the previous one, which must be eliminated. These are average values based or power supply, subject to the toleran MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. MG-1. (4) At 100% of full load. Event Changes Summary Performed Cher Performed by							: 115 lb		
Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A This revision replaces and cancel the previous one, which must be eliminated. These are average values based or power supply, subject to the toleran MG-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). MG-1. (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. Performed by Performed by	Sealing		: V'Ring		Max. co	mpression	: 153 lb		
Lubricant amount : - - Lubricant type : Mobil Polyrex EM Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A This revision replaces and cancel the previous one, which must be eliminated. These are average values based or power supply, subject to the toleran (1) Looking the motor from the shaft end. These are average values based or power supply, subject to the toleran (3) Approximate weight subject to changes after manufacturing process. MG-1. (4) At 100% of full load. Experiment (2) Changes Summary Performed Chemic (2) Changes Summary Performed by Image: Summary (2) Performed Chemic (2) Performed Chemic (2) Performed	Lubrication interv	/al	: -	-					
Lubricant type : Mobil Polyrex EM Notes USABLE @208V 4.47A SF 1.00 SFA 4.47A 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. Rev. Changes Summary Performed by			• _	_					
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manufacturing process. (4) At 100% of full load. Rev. Changes Summary Performed Performed by	nust be eliminate 1) Looking the m 2) Measured at 1	ed. lotor from the Im and with to	shaft end. olerance of +3dl	B(A).	power s				
Performed by	nanufacturing pro	ocess.							
	Rev.		Changes S	ummary		Performed	Checked	Date	
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Date 12/04/2022 1 /		10/04/000	2				1 / 16	í.	



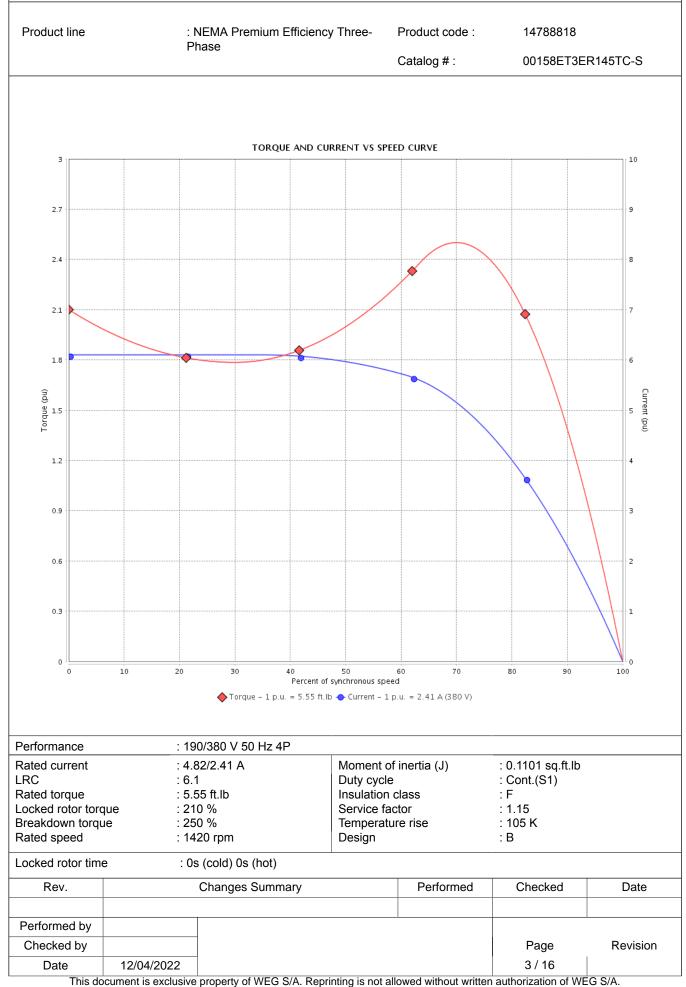
TORQUE AND CURRENT VS SPEED CURVE

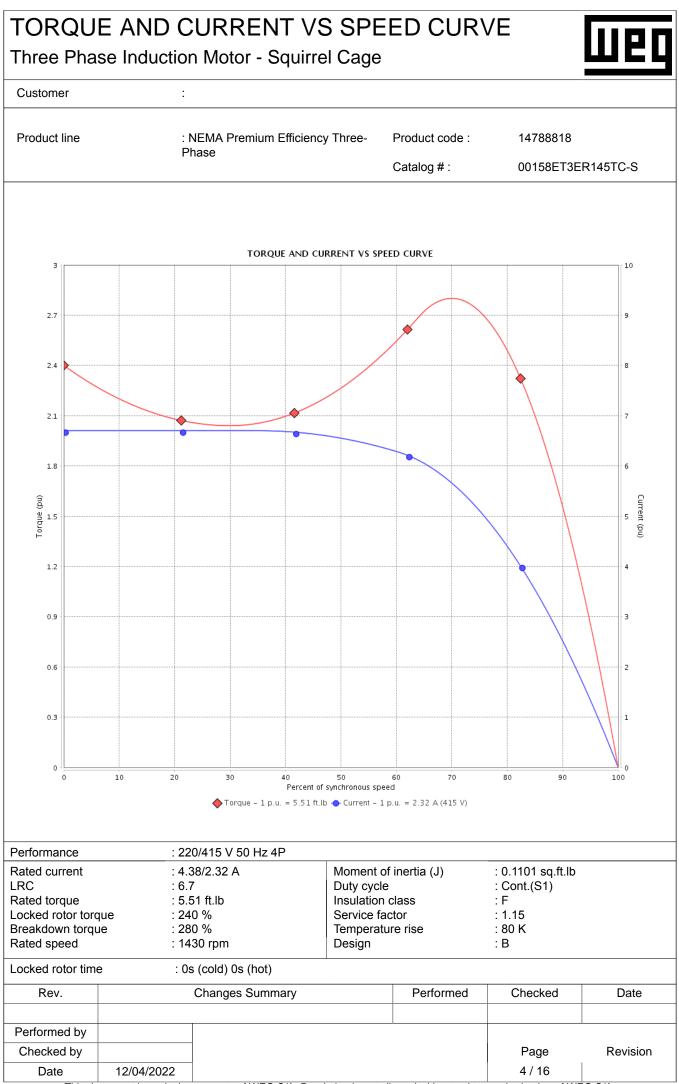
Three Phase Induction Motor - Squirrel Cage

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Customer

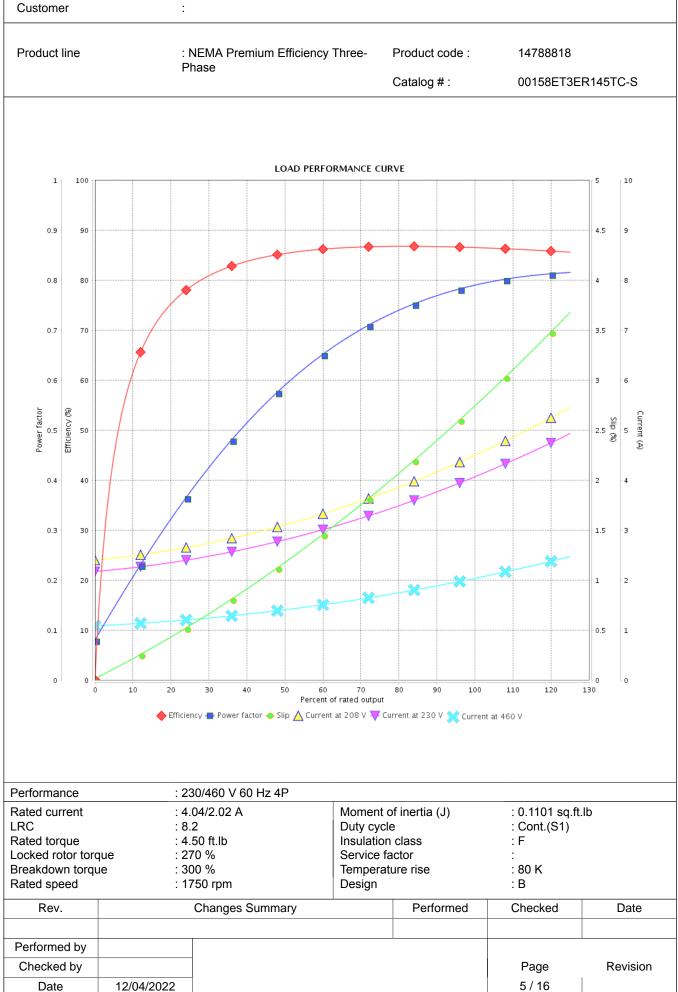




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Three Phase Induction Motor - Squirrel Cage

Customer



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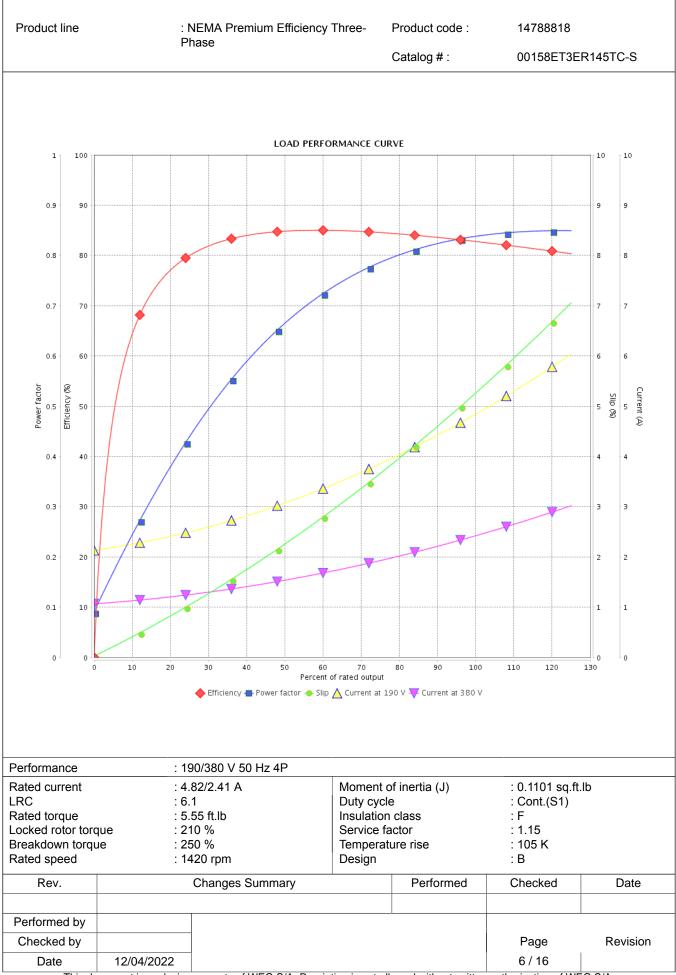
LOAD PERFORMANCE CURVE

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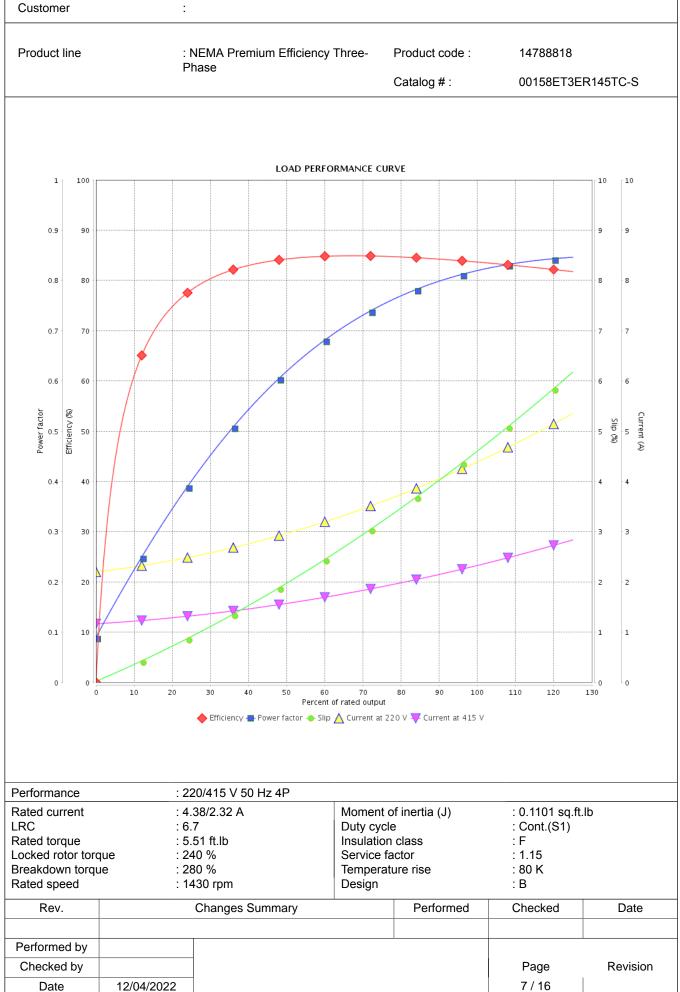
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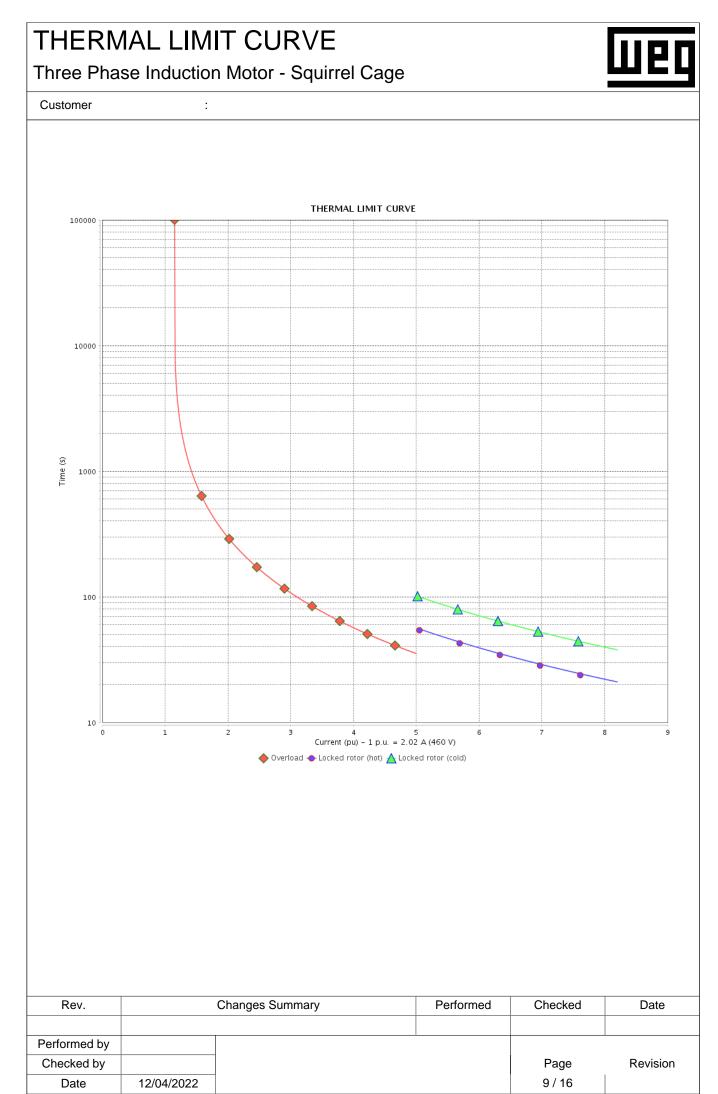
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THERMAL LIMIT CURVE						
Three Phase Induc	tion Motor - Squirrel Cage		шсц			
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14788818			
		Catalog # :	00158ET3ER145TC-S			

Performance	:2	: 230/460 V 60 Hz 4P				
Rated current: 4.04/2.02 ALRC: 8.2Rated torque: 4.50 ft.lbLocked rotor torque: 270 %Breakdown torque: 300 %Rated speed: 1750 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1101 sq.ft.lb : Cont.(S1) : F : : 80 K : B		
Heating constant						
Cooling constant						
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				8 / 16	



THERMAL	LIMIT CURVE		
Three Phase In	duction Motor - Squirrel Cage	;	<u> </u>
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14788818
	Those	Catalog # :	00158ET3ER145TC-S

Heating constant

Locked rotor torque

Breakdown torque

Performance Rated current

Rated torque

LRC

Rated speed : 1420 rpm Design : B Cooling constant Performed Checked Date Rev. **Changes Summary** Performed by Checked by Page Revision 12/04/2022 10/16 Date

: 190/380 V 50 Hz 4P

: 4.82/2.41 A

: 5.55 ft.lb

: 210 %

: 250 %

: 6.1

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Moment of inertia (J)

Duty cycle Insulation class

Service factor

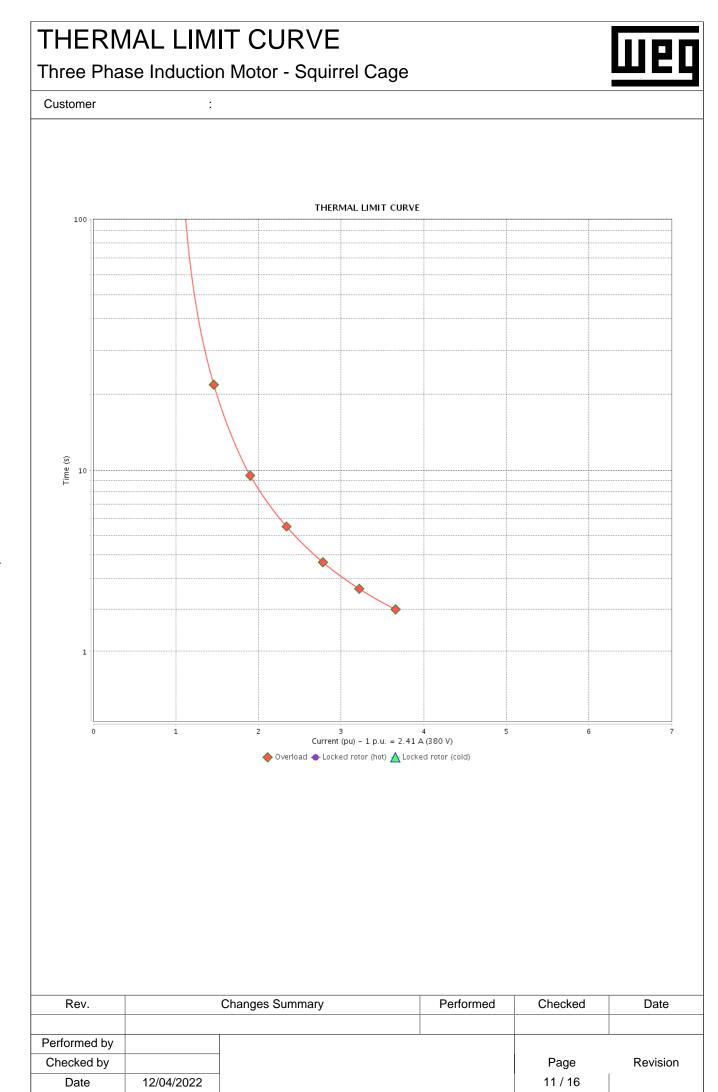
Temperature rise

: 0.1101 sq.ft.lb : Cont.(S1)

: F

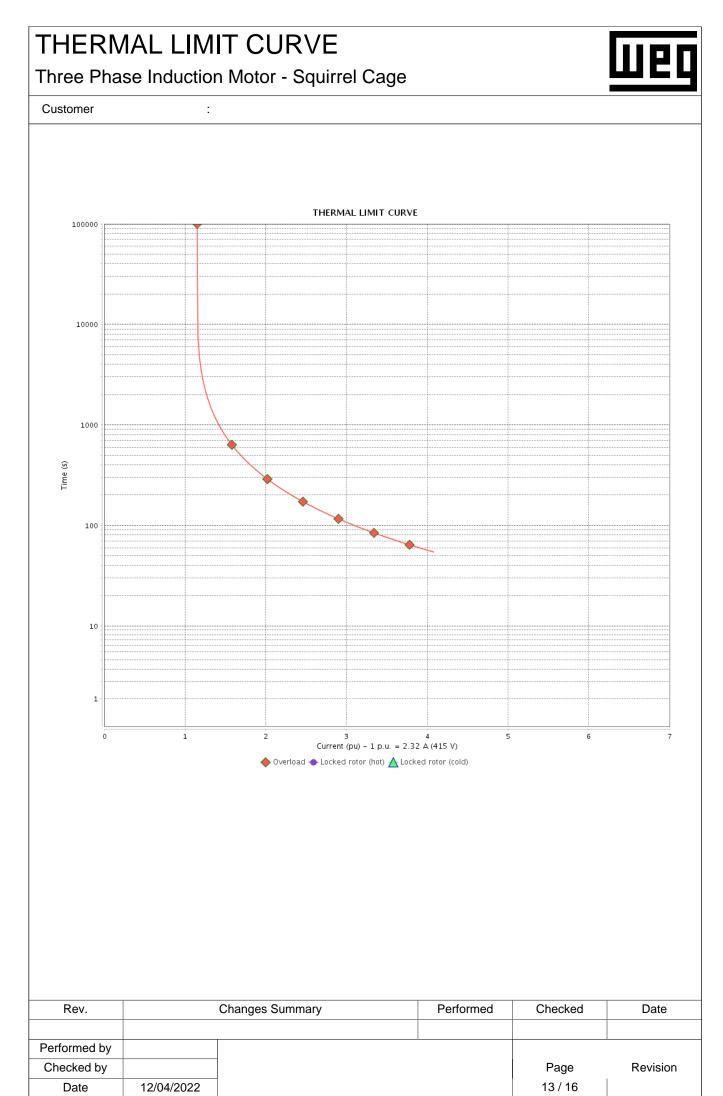
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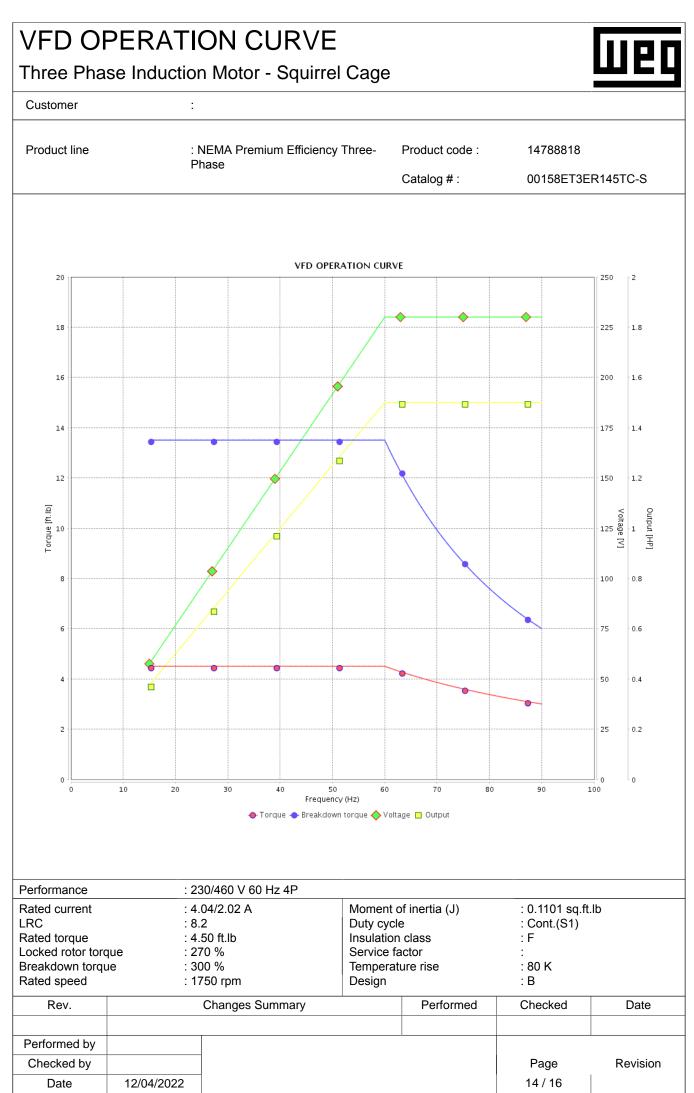
: 105 K

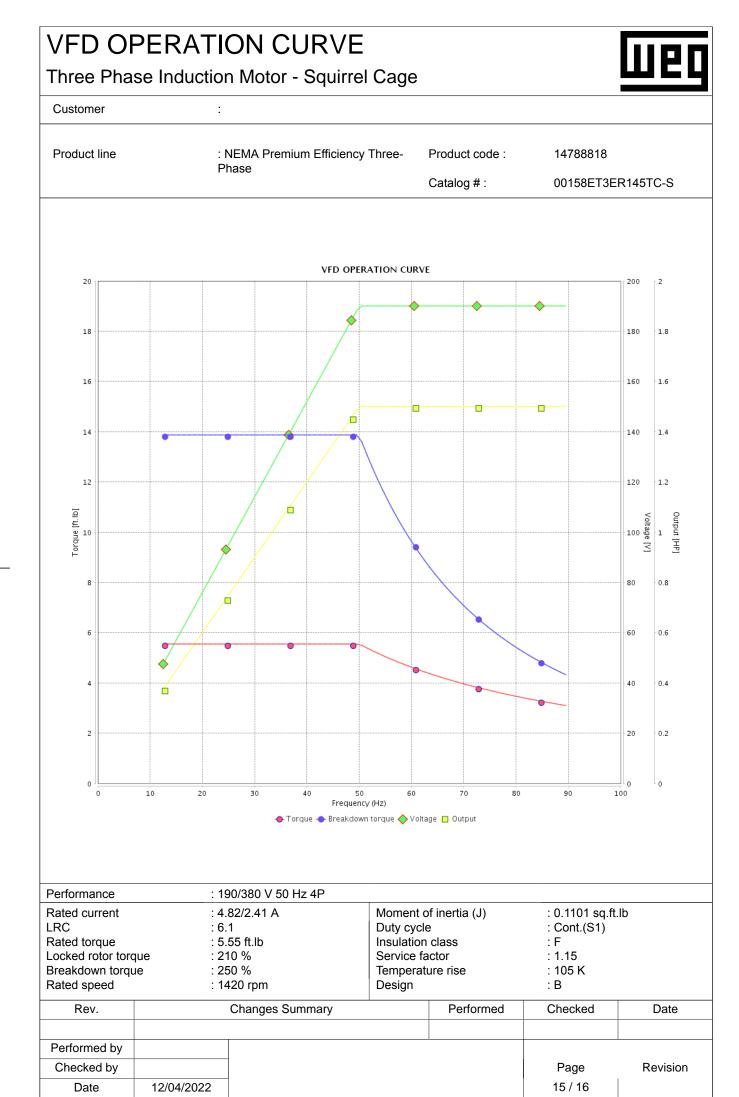


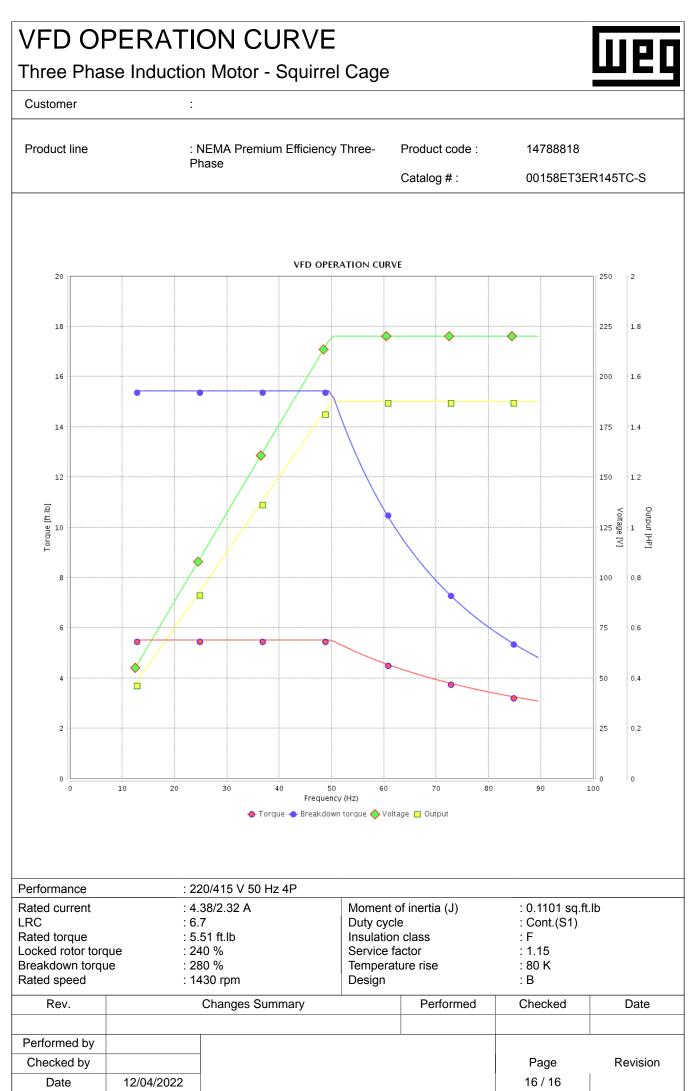
THERMAL LIMIT CURVE							
Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14788818				
	1 11050	Catalog # :	00158ET3ER145TC-S				

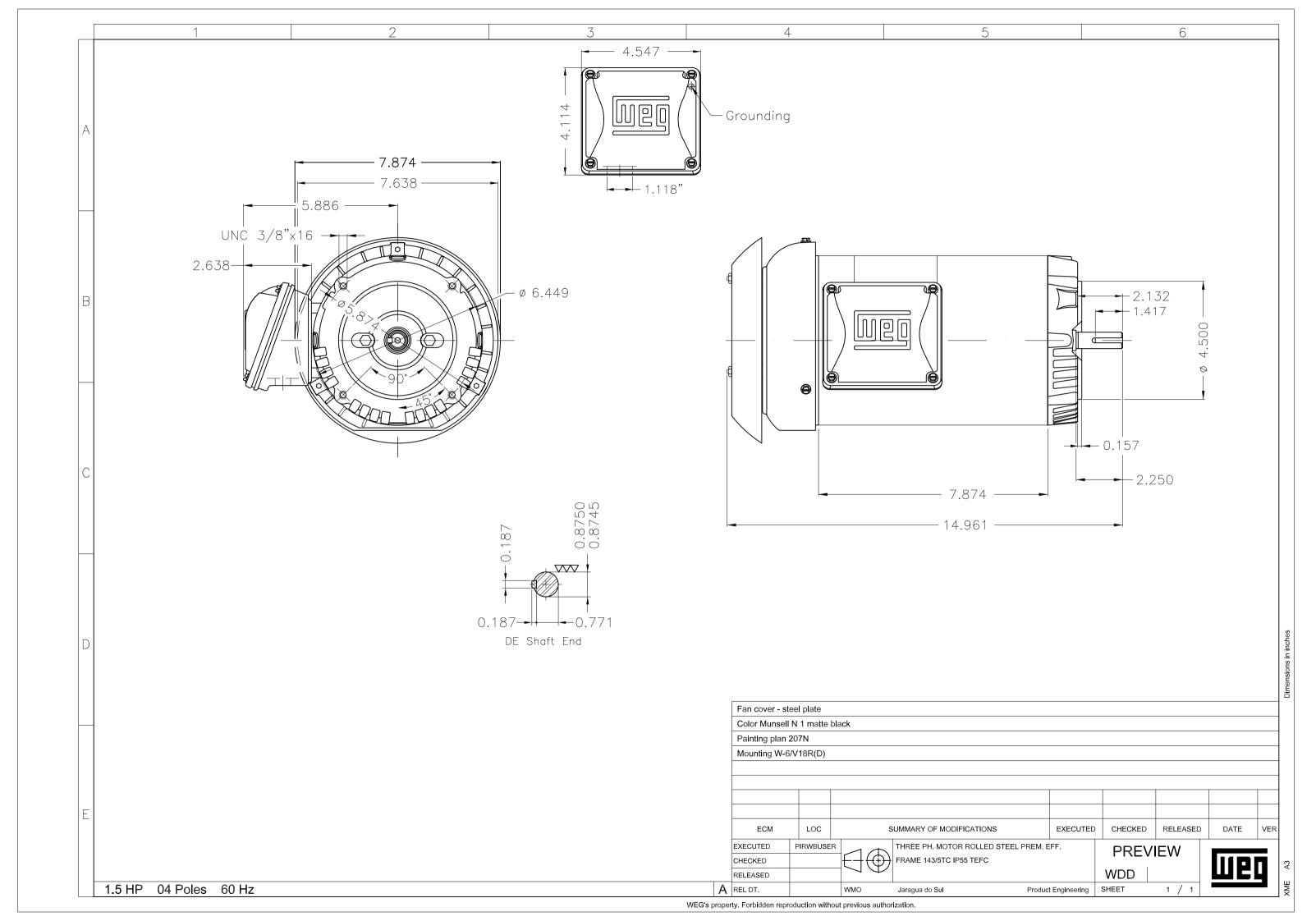
Performance	: 2	: 220/415 V 50 Hz 4P				
Rated current: 4.38/2.32 ALRC: 6.7Rated torque: 5.51 ft.lbLocked rotor torque: 240 %Breakdown torque: 280 %Rated speed: 1430 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1101 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant						
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				12 / 16	











COUSTED COUSTED COUSTING	For 60H2: Class I, Zone 2, IIC Class I, DIV2, Gr. A,B,C,D - T3 DIV 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1	3 1 Hz 50 1 Hz 10 1 Hz 10 <th1 10<="" hz="" th=""> <th1 10<="" hz="" th=""> <th1 10<="" hz="" th=""><th>YY L</th></th1></th1></th1>	YY L
e For	ş	HP 115 HP 115 FA 4.042.02 FA 4.042.02 FA 4.042.02 FF 4.042.02 FF 4.042.02 FF 4.07 FO 4.042.02 FP 0.79 RPM 150 NOM EFF 6.5% SOHA 1500 NOM	YY LI L2 L3 Y LI L2 L3 MTERIANGE ANY TNOL LINE WIRES TO REVEASE THE ROTATION MARTING. MOTO LINE WIRES TO REVEASE THE ROTATION AND AND AND AND LINE WIRES TO REVEASE THE ROTATION AND AND AND AND AND AND AND AND AND AND
	MADE IN MEXICO MAT: 14788818 CC029A WO1.TE0ICOXON MODEL 00158ET3ET45TC-S 24MAR2022 BIN:	Hz 80 K IPE5 CODE K V4.47A IPE5 ING: 1.5HP ING: 1.5HP ING: 1.5HP ING: 1.5HP ING: 1.5HP ING: 1.5HP	L2 L3 VGE ANY TWO LINE V VGE ANY TWO LINE V VGE MOTOR MUST be 9 VGE MOTOR MUST be 1 VGE FIBSORMENT A AMENT ISSORMENT A AMENT ISSORMENT A
	MADE IN MÉXICO MAT: 14788818 W01.TE0IC0X0N MODEL 00158E1 24MAR2022 B	PH 3 Th 50 DUTY CONT. DUTY CONT. DUTY CONT. ALT 1000 m.a.s.l ALT T000 m.a.s.l INIS CLF FOR CONT. DEF ALS NIS CLF FOR CONT. DEF DEF ALTERNATE RATING: LEFC CO DEF ALTERNATE RATING: ALTERNATE RATING: LOPE DE ALTERNATE RATING: ALTERNATE RATING: LOPE DE ALTERNATE RATING: ALTERNATE RATING: LOPE DE ALTERNATE RATING: TA TA TA	