## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



		: W22 Phas		um Voltage Th	hree- Pro	oduct code :	13298587	
		11105	<b>.</b>		Ca	atalog # :	20012ET3X	(L449-W22MV
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tor Breakdown torq	que	: 6 : 60 F : 2300 : 51.6 : 310 : 6.0x : 24.3 : 118 : 1.25 : 886 : 150 : 210	HP (150 k dz 0 V 3 A 4 (Code G) 3 A 5 rpm 5 % ft.lb %	:W)	Locked ro Temperatu Duty cycle Ambient te Altitude Protection Cooling m Mounting Rotation <sup>1</sup> Noise leve Starting m Approx. w	ure rise emperature n degree nethod el <sup>2</sup> nethod	: 25s (cold) : 80 K : Cont.(S1) : -20°C to - : 1000 m.a : IP55 : IC411 - TI : F-1 : Both (CW : 71.0 dB(A : VFD : 2975 lb	+40°C .s.l. EFC and CCW)
Insulation class Service factor Design		: F : 1.00 : A	)					
Output	25%	50%	75%	100%	Foundation	loads		
Efficiency (%)	92.6	92.8	93.6	93.6	Max. tractio	n	: 3870 lb	
Power Factor	0.37	0.63	0.73	0.78	Max. compr	ression	: 6844 lb	
Bearing type Sealing Lubrication inter Lubricant amou Lubricant type		:	63 Inp 11	<u>re end</u> 22 C3 ro/Seal 000 h 60 g		<u>Non drive end</u> 6319 C3 Inpro/Seal 13000 h 45 g	Į	
Notes					bil Polyrex EN	И		
This revision rep must be eliminat (1) Looking the r	ed. notor from	the shaft e	nd.	one, which	These are a	average values	based on tests w	
Notes This revision rep must be eliminat (1) Looking the r (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu Rev.	ed. notor from 1m and wir weight sub rocess.	the shaft e th toleranc oject to cha	nd. e of +3dB(	one, which A).	These are a power supp	average values		
This revision rep must be eliminat (1) Looking the r (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu Rev.	ed. notor from 1m and wir weight sub rocess.	the shaft e th toleranc oject to cha	nd. e of +3dB( nges after	one, which A).	These are a power supp	average values	e tolerances stipu	lated in NEM
This revision rep must be eliminat (1) Looking the r (2) Measured at (3) Approximate manufacturing pi (4) At 100% of fu	ed. notor from 1m and wir weight sub rocess.	the shaft e th toleranc oject to cha	nd. e of +3dB( nges after	one, which A).	These are a power supp	average values	e tolerances stipu	lated in NEM

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13/04/2020

Date

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Three Phase Induction Motor - Squirrel Cage

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Customer

Thermal protection							
ID	Application	Туре	Quantity	Sensing Temperature			
1	Winding	PT100 - 3 wires	2 x Phase	-			
2	DE bearing	PT100 - 3 wires	1 x Bearing	-			
3	NDE bearing	PT100 - 3 wires	1 x Bearing	-			

Space heater information

Voltage: 110 - 127 V

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2020			2/6	
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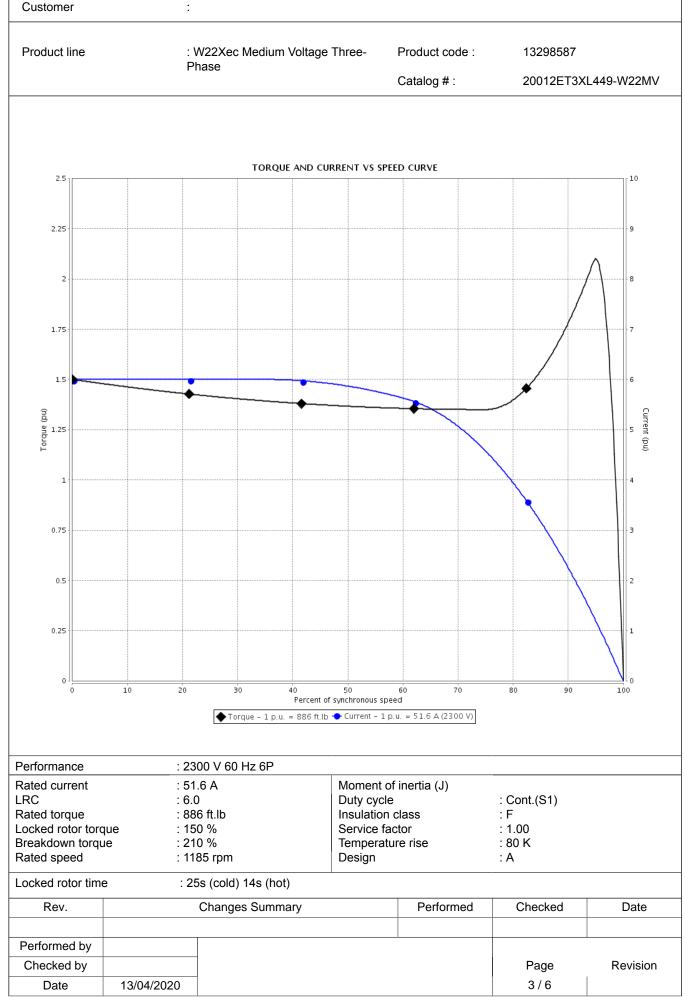
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## TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





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## LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : W22Xec Medium Voltage Three-Product code : 13298587 Phase Catalog # : 20012ET3XL449-W22MV LOAD PERFORMANCE CURVE 100 100 1 2 90 90 1.8 0.9 0.8 80 1.6 80 70 70 1.4 0.7 60 0.6 60 1.2 E Power factor Current Slip (%) Efficiency 0.5 50 1 50 Þ 40 0.4 40 0.8 0.3 30 0.6 30 20 20 0.4 0.2 0.1 10 0.2 10 0 0 0 0 10 zo 30 40 50 60 70 80 90 100 110 120 130 ò Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛧 Current at 2300 V Performance : 2300 V 60 Hz 6P Rated current : 51.6 A Moment of inertia (J) LRC : 6.0 Duty cycle : Cont.(S1) : 886 ft.lb Insulation class : F Rated torque Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1185 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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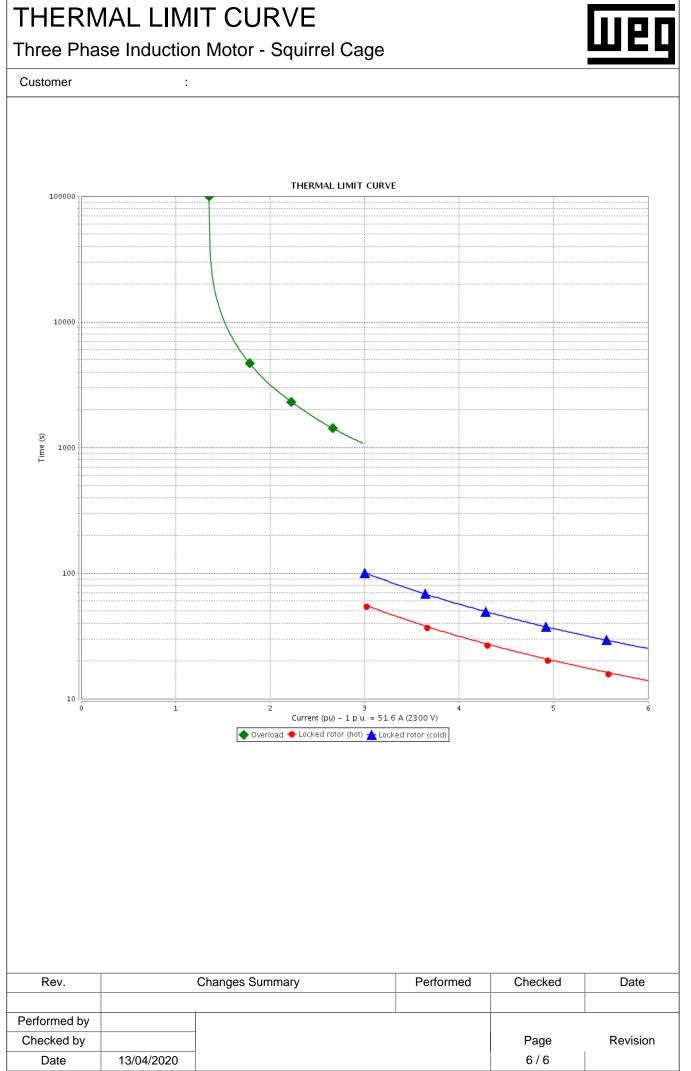
## Customer

Product line	: W22Xec Medium Voltage Three- Phase	Product code :	13298587
		Catalog # :	20012ET3XL449-W22MV

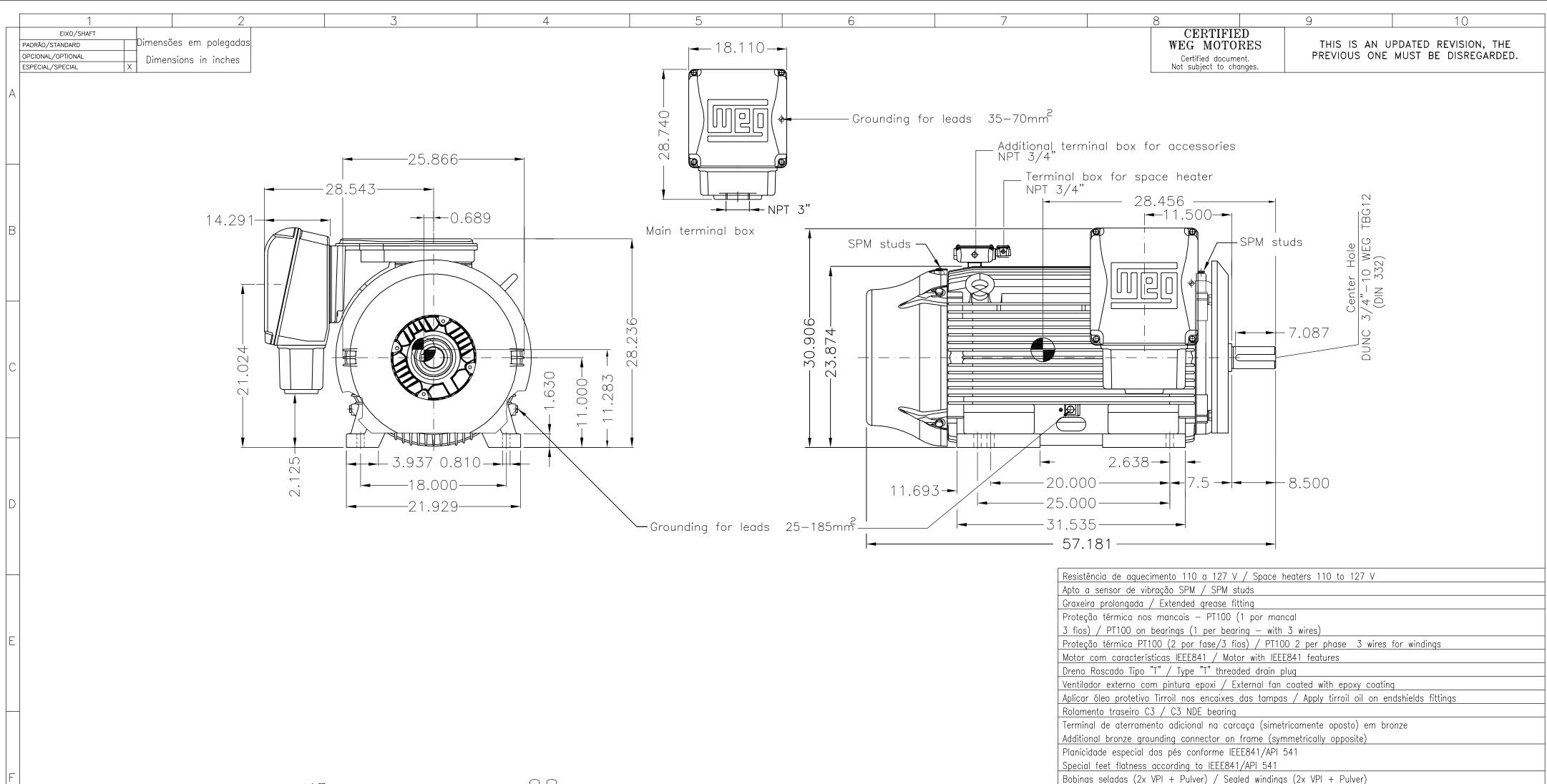
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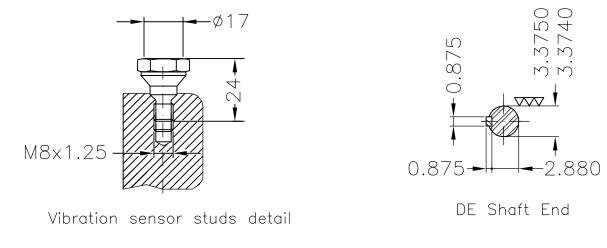
Performance : 2300 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		51.6 A 6.0 886 ft.lb 150 % 210 % 1185 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.00 : 80 K : A	
Heating constant						
Cooling constant	t					
Rev.	Rev. Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date 13/04/2020				5/6		
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	Forma cons	Forma construtiva NEMA F-1 / Mounting NEMA F-1								
	Forma construtiva B3D / Mounting B3R(D)									
	WEG ELECTRIC CORPORATION - WEC									
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	500001619525		ALT. CONFORM	E CLAIM 415525398		SCATOLIN	ALISSON	ALISSON	05.09.2019	05
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	EXEC. /EXECUTED	DVEGINI		THREE-PHASE W22Xec MOTOR				0275		
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Balanceamento reduzido  $\frac{1}{2}$  chaveta / Reduced balancing with half key

Saída de graxa conforme IEEE841 / Grease outlet according to IEEE841

Pintar interior da caixa de ligação com cor Munsell 2.5 YR 6/14

Carcaça com furação para pinos guia / Frame with holes on foot for dowel pins

Epoxi na passagem dos cabos / Epoxy in the leads outlet

Finish color Munsell 2.5 YR 6/14 inside of terminal box

Vedação — INPRO/SEAL / Sealing — INPRO/SEAL

Tampa traseira com mancal eletricamente isolado

NDE endshield with electrically insulated bearing hub Defletor de ar dianteiro / Drive-End Air Deflector Plano de pintura 203A / Painting plan 203A

Ventilador de Alumínio / Aluminum fan

Categoria A / Design A

Pintura interna tropicalizada conforme IEEE841 / Tropicalized internal painting according to IEEE841