DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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		: NEM Phase		m Efficiency ⊺		Product code : Catalog # :	14306728 00158XT3⊦	1145T
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torq Breakdown torqu Insulation class Service factor Moment of inertia Design	e	: 4 : 60 H : 575 : 1.64 : 14.6 : 8.9x : 0.96 : 175 : 2.50 : 4.49 : 270 : 350 : F : 1.15	HP (1.1 kV Iz V A G(Code L) 60 A 5 rpm 9 % 9 ft.lb % %		Locked Temper Duty cy Ambien Altitude Protecti Cooling Mountin Rotation Noise le Starting	rotor time ature rise cle t temperature on degree method	: 25s (cold) : 80 K : Cont.(S1) : -20°C to - : 1000 m.a : IP55 : IC411 - TI : F-1) 14s (hot) +40°C .s.l. EFC / and CCW)
Output	25%	50%	75%	100%	Foundatio	on loads		
Efficiency (%) Power Factor	80.2 0.34	81.5 0.58	85.5 0.70	86.5 0.78	Max. tract Max. com	tion	: 100 lb : 173 lb	
Bearing type Sealing Lubrication interv		:		05 2RS il Seal -		6204 2RS Lip Seal -		
Lubricant amoun Lubricant type Notes		:		- Mo	bil Polyrex	EM		
Lubricant type	aces and o d. otor from m and wit veight sub	the shaft e	nd. e of +3dB(one, which A).	These an	e average values	based on tests w he tolerances stipu	
Lubricant type Notes This revision repla must be eliminate (1) Looking the mi (2) Measured at 1 (3) Approximate w manufacturing pro-	aces and o d. otor from m and wit veight sub	the shaft e th tolerance ject to cha	nd. e of +3dB(one, which A).	These arr power su	e average values		

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 1 / 7

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Customer

1		Thermal protection			
ID	Application	Туре	Quantity		Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	15	55 °C
Rev.	Chang	les Summary	Performed	Checked	Date
erformed by					
Checked by				Page	Revision

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: NEMA Premium Efficiency T	hree- Product code :	14306728		
	Phase	Catalog # :	00158XT3H1	0158XT3H145T	
	TORQUE AND CURR	ENT VS SPEED CURVE			
5				10	
4.5	• • • • • • • • • • • • • • • • • • • •			9	
4 -				8	
3.5				7	
				6	
3			•	6	
Dr.5			4	Current (pu)	
L orgu				, ut (pu)	
2					
2					
1.5				3	
1				2	
				\mathbb{N}	
0.5				1	
0					
0	Percent of syn	50 60 70 Chronous speed	80 90	100	
	◆ Torque - 1 p.u. = 4.49 ft.lb ◀	- Current - 1 p.u. = 1.64 A (575 V)			
) o uf o uno					
rformance : 575 V 60 Hz 4P ted current : 1.64 A Mor		Noment of inertia (J)	: 0.1303 sq.ft.lb		
RC : 8.9 Duty c		Outy cycle	cycle : Cont.(S1)		
ocked rotor torque	: 270 %	Service factor	: 1.15		
Breakdown torque Rated speed		emperature rise Design	: 80 K : B		
ocked rotor time	: 25s (cold) 14s (hot)	-			
Rev.	Changes Summary	Performed	Checked	Date	
Performed by			Deres	Devi	
Checked by			Page	Revision	

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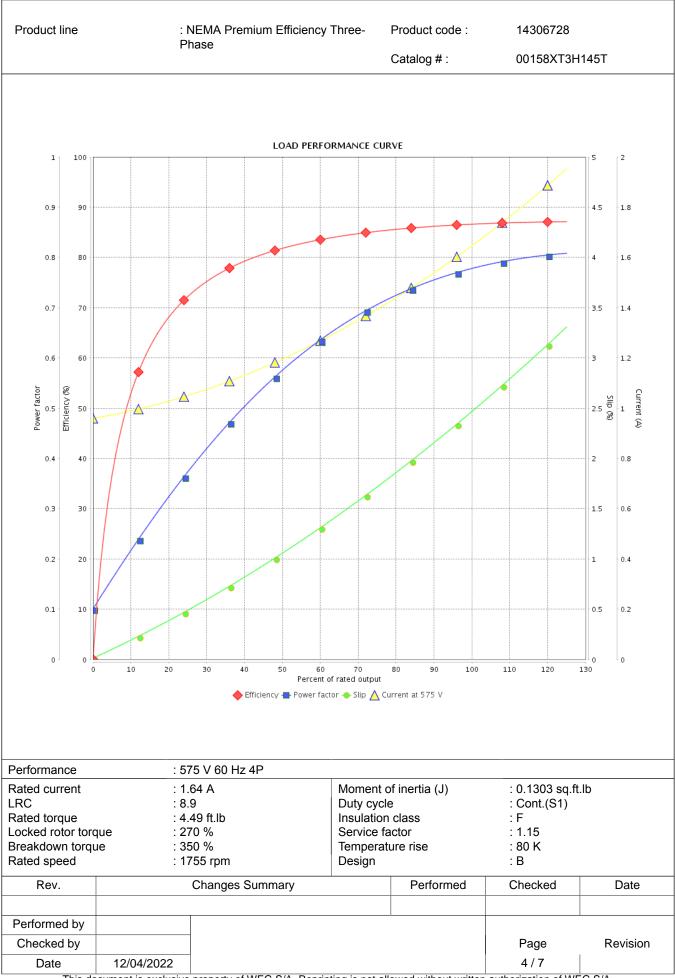
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer



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THERMAL LIMIT CURVE

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Three Phase Induction Motor - Squirrel Cage

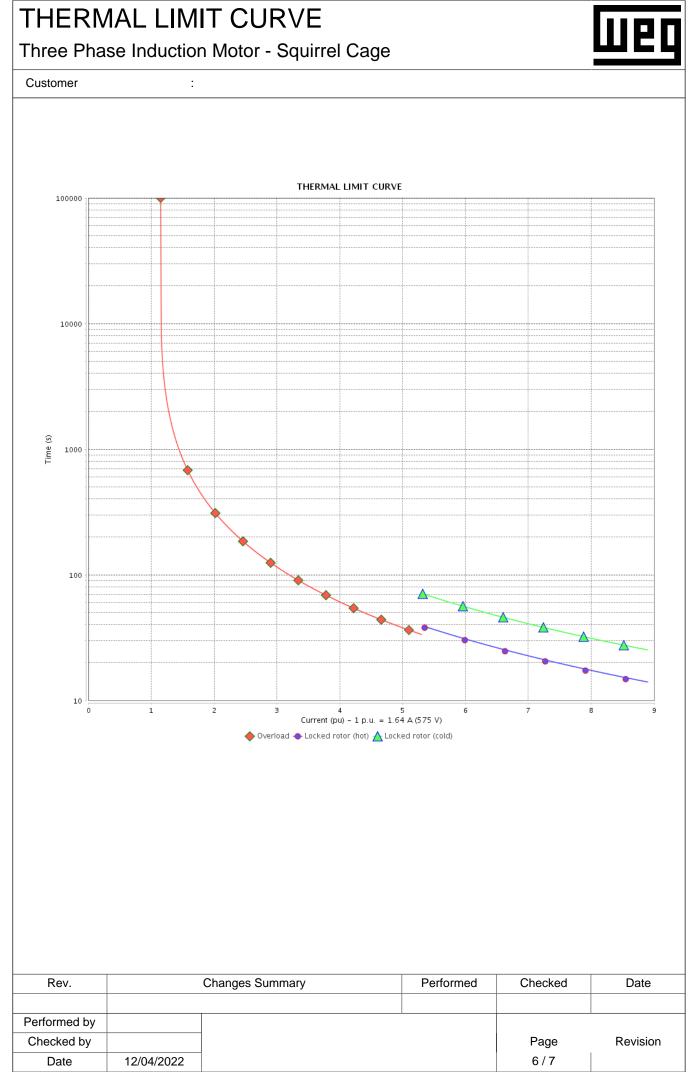
Customer

······································	roduct code :	14306728	
Phase Cata	atalog # : (00158XT3H145T	

Шед

Performance	: 5	75 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		.64 A 9.9 9.49 ft.lb 170 % 150 % 755 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1303 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant						
Rev.	Rev. Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				5/7	

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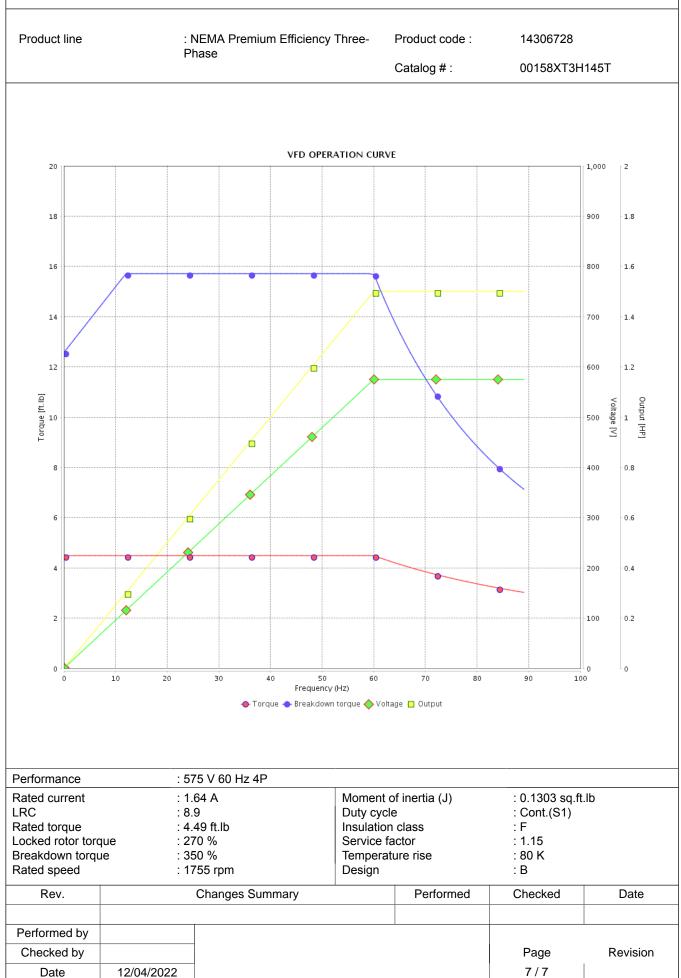
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VFD OPERATION CURVE

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Customer



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