DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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		: NEMA Premium Efficiency T Phase			Ihree- F	Three- Product code :		14293382	
			~			Catalog # :	00212XT3H	1184T	
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 Insulation class Service factor Moment of inerti	ue	: 6 : 60 F : 575 : 2.50 : 18.8 : 7.5 : 1.60 : 116 : 2.92 : 300 : 330 : F : 1.15 : 0.53	P (1.5 kW) Hz V A A (Code L) A 5 rpm 2 % 2 % 2 ft.lb % %		Tempera Duty cyc Ambient Altitude	t temperature on degree method g 1 ¹ vvel ² method	: 82s (cold : 80 K : Cont.(S1) : -20°C to : 1000 m.a : IP55 : IC411 - T : F-1 : Both (CW : 52.0 dB(A : Direct On : 134 lb) +40°C s.I. EFC / and CCW) A)	
Design		: B							
	25%	50%	75%	100%	Foundatio		400		
Efficiency (%) Power Factor	82.5 0.26	84.5 0.47	86.5 0.58	88.5 0.68	Max. tract Max. com		: 123 lb : 257 lb		
Lubrication inter		:		-		-			
Lubricant type				Mo	bil Polyrex I	- EM			
Lubricant type Notes This revision replanust be eliminate 1) Looking the m 2) Measured at 3) Approximate m	laces and a ed. notor from 1m and wir weight sub rocess.	the shaft e th toleranc ject to cha	end. e of +3dB(/	ne, which 4).	These are	e average values	based on tests w e tolerances stipu Checked		
Lubricant type lotes his revision repl nust be eliminate 1) Looking the n 2) Measured at 3) Approximate nanufacturing pr 4) At 100% of fu Rev.	laces and a ed. notor from 1m and wir weight sub rocess.	the shaft e th toleranc ject to cha	end. e of +3dB(/ inges after	ne, which 4).	These are power su	e average values pply, subject to th	e tolerances stip	ulated in NEMA	
Lubricant amour Lubricant type Notes This revision repl must be eliminate (1) Looking the n (2) Measured at (3) Approximate manufacturing pr (4) At 100% of fu Rev. Performed by Checked by	laces and a ed. notor from 1m and wir weight sub rocess.	the shaft e th toleranc ject to cha	end. e of +3dB(/ inges after	ne, which 4).	These are power su	e average values pply, subject to th	e tolerances stip	ulated in NEM	

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 Date
 14/04/2022
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Customer

ID	Application	Туре	Quantity	Sensing	Temperature
1	Winding	Thermostat - 2 wires	1 x Phase		55 °C
•			7 X 1 11050		
Rev.	Chang	ges 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 Efficie Phase	ency Three- Product code :	14293382	
	That	Catalog # :	00212XT3H1	84T
5 jr	TORQUE AND	CURRENT VS SPEED CURVE		
-				
4.5				9
4				8
3.5				7
3				6
(nd) en 2.5 P	· · ·			Current (pu)
Tord				(pu)
2				4
1.5				3
1				2
				\mathbf{A}
0.5				
0	10 20 30 40	50 60 70	80 90	0
		nt of synchronous speed 2 ft.lb 🔶 Current – 1 p.u. = 2.50 A (575 V)		
erformance	: 575 V 60 Hz 6P			
ated current	: 2.50 A : 7.5	Moment of inertia (J) Duty cycle	: 0.5323 sq.ft.lb : Cont.(S1)	
ated torque	ue : 9.02 ft.lb Insulation class		: F	
ocked rotor torque Breakdown torque	: 330 %	Temperature rise	: 1.15 : 80 K	
Rated speed	: 1165 rpm	Design	: B	
ocked rotor time	: 82s (cold) 46s (hot)			
Rev.	Changes Summary	Performed	Checked	Date
Performed by				

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LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : NEMA Premium Efficiency Three-Product code : 14293382 Phase Catalog # : 00212XT3H184T LOAD PERFORMANCE CURVE 100 1 5 4.5 2.7 0.9 90 Λ 0.8 80 4 2.4 Δ 3.5 2.1 70 0.7 0.6 60 3 1.8 Δ Efficiency (%) Power factor 1.5 Current 2.5 % 0.5 50 Þ 0.4 40 2 1.2 0.3 30 1.5 0.9 0.2 20 1 0.6 0.1 10 0.5 0.3 0 0 0 0 ó 10 20 110 120 130 30 40 50 60 70 80 90 100 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛕 Current at 575 V Performance : 575 V 60 Hz 6P : 2.50 A Rated current Moment of inertia (J) : 0.5323 sq.ft.lb LRC : 7.5 Duty cycle : Cont.(S1) : 9.02 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Date

14/04/2022

THERMAL LIMIT CURVE

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Three Phase Induction Motor - Squirrel Cage

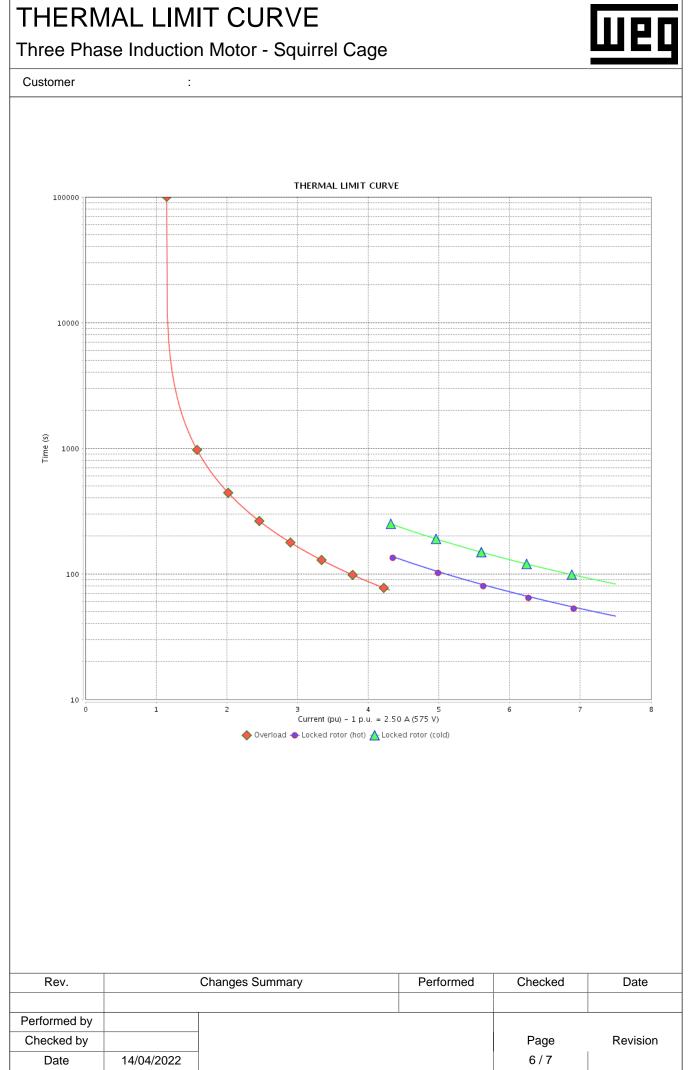
Customer

Catalog # : 00212XT3H184T	Product line	: NEMA Premium Efficiency Three-	Product code :	14293382
		Phase	Catalog # :	00212XT3H184T

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Performance	: 5	75 V 60 Hz 6P				
Rated current: 2.50 ALRC: 7.5Rated torque: 9.02 ft.lbLocked rotor torque: 300 %Breakdown torque: 330 %Rated speed: 1165 rpm		.5 0.02 ft.lb 000 % 330 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5323 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t				·	
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
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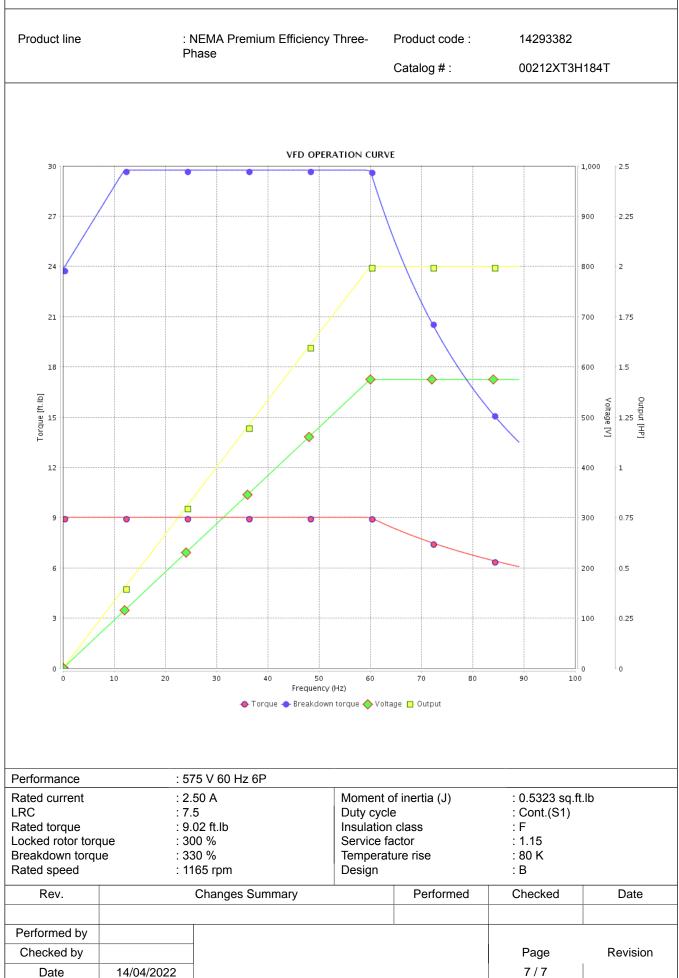
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VFD OPERATION CURVE

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Customer



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