## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer		:							
Product line		: NEN Phas		m Efficiency	Three-	Product code :	11554522		
						Catalog # :	00158ET3H <sup>2</sup>	145JM-W22	
Frame Output Poles			: 143/5JM : 1.5 HP (1.1 kW)			ed rotor time perature rise	: 25s (cold) : 80 K	14s (hot)	
Frequency Rated voltage Rated current		: 60 H : 575	: 60 Hz : 575 V : 1.62 A			Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55			
L. R. Amperes LRC		: 13.6 : 8.4	: 13.6 A : 8.4x(Code L)			ing method nting	: IC411 - TE : F-1		
No load current Rated speed Slip		: 0.880 A : 1755 rpm : 2.50 %			Starti	e level² ing method	: Both (CW : 51.0 dB(A) : Direct On I	,	
Rated torque Locked rotor torque Breakdown torque		: 4.49 ft.lb : 290 % : 350 %			Appro	ox. weight³	: 53.6 lb		
Insulation class Service factor	o ( I)	: F : 1.25 : 0.1431 sq.ft.lb							
Moment of inerti Design	a (J)	: 0.12	+3 i Sq.it.ib						
Output	25%	50%	75%	100%	Founda	ation loads			
Efficiency (%) Power Factor	81.3 0.35	82.5 0.60	85.5 0.70	86.5 0.79	Max. tr	action ompression	: 110 lb : 163 lb		
Bearing type		:		r <u>e end</u> 206 ZZ		Non drive er 6204 ZZ			
Sealing Lubrication inter	val	:	V	"Ring -		V'Ring -			
Lubricant amour Lubricant type	nt	: :		- M	obil Polyre	- ex 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



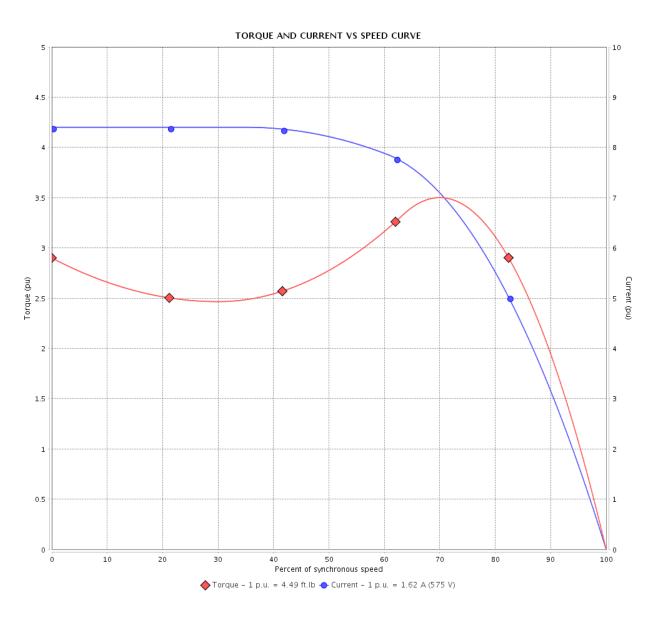
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11554522

Catalog #: 00158ET3H145JM-W22



Performance	: 575 V 60 Hz 4P			
Rated current	: 1.62 A	Moment of inertia (J)	: 0.1431 sq.ft.lb	
LRC	: 8.4	Duty cycle	: Cont.(S1)	
Rated torque	: 4.49 ft.lb	Insulation class	: F	
Locked rotor torque	: 290 %	Service factor	: 1.25	
Breakdown torque	: 350 %	Temperature rise	: 80 K	
Rated speed	: 1755 rpm	Design	: B	

Locked rotor time : 25s (cold) 14s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

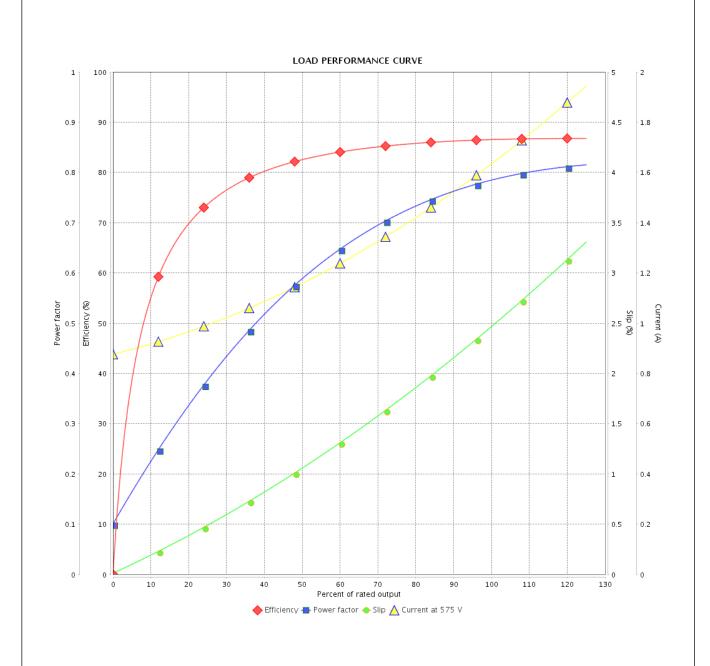


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11554522

Phase

Catalog #: 00158ET3H145JM-W22



Performance	: 5	: 575 V 60 Hz 4P						
Rated current		1.62 A	.62 A Moment of inertia (J)		: 0.1431 sq.ft.lb			
LRC : 8		8.4	Duty cycle	Duty cycle				
Rated torque : 4		4.49 ft.lb	Insulation	Insulation class				
Locked rotor torque : 2		290 %	Service fa	Service factor		: 1.25		
Breakdown torque		350 %	Temperati	Temperature rise		: 80 K		
Rated speed	: '	1755 rpm	Design	Design				
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



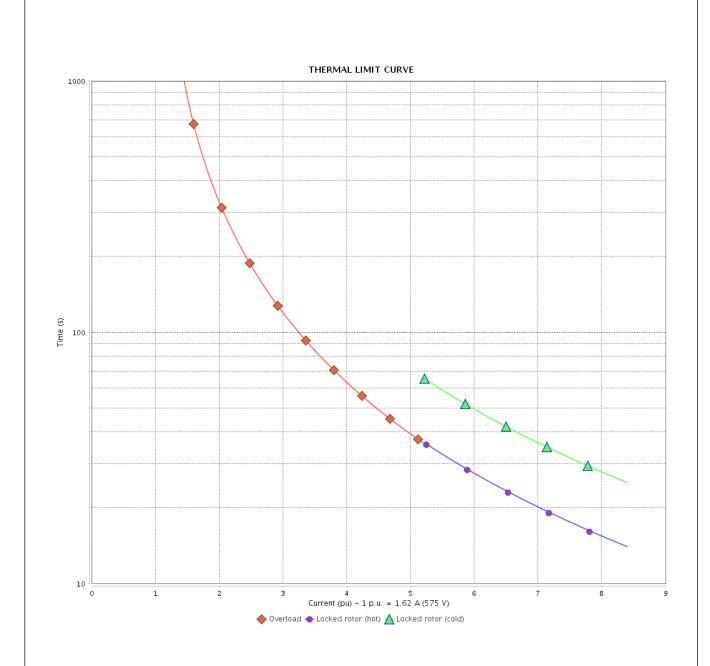
Customer	:					
Product line		NEMA Premium Efficiency	/ Three-	Product code :	11554522	
	P	hase		Catalog # :	00158ET3H1	45JM-W22
Performance	: 57	75 V 60 Hz 4P	<del> </del>			
Rated current		62 A	Moment o	f inertia (J)	: 0.1431 sq.ft.l	b
LRC Rated torque	: 8. : 4.	.4 .49 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 29	90 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		50 % 755 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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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 :

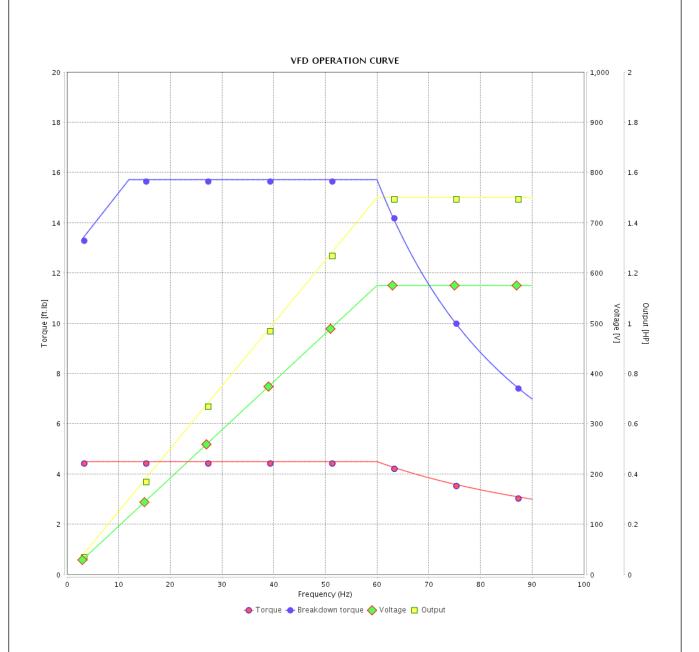
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00158ET3H145JM-W22

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11554522



Performance	: 575 V 60 Hz 4P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.62 A : 8.4 : 4.49 ft.lb : 290 % : 350 % : 1755 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	: Cont.(S1) class : F ctor : 1.25		lb			
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Performed by								
Checked by				Page	Revision			

14/04/2022

Date

