DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12775267

Catalog #: 00152ET3E182JM-W22

Frame : 182/4JM Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 95.0 lb

Protection degree		: IP55	Moment of inc	ertia (J) : 0.48	79 sq.ft.lb
Design		: B			
Output [HP]		1.5	1.5	1.5	1.5
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		5.08/2.54	2.68	2.62	2.64
L. R. Amperes [A]		39.6/19.8	16.9	18.1	19.5
LRC [A]		7.8x(Code M)	6.3x(Code J)	6.9x(Code K)	7.4x(Code L)
No load current [A]]	3.25/1.63	1.60	1.71	1.80
Rated speed [RPM	1]	1170	955	960	965
Slip [%]		2.50	4.50	4.00	3.50
Rated torque [ft.lb]	Rated torque [ft.lb]		8.25	8.21	8.16
Locked rotor torqu	e [%]	320	250	300	330
Breakdown torque	[%]	400	290	330	370
Service factor		1.25	1.00	1.00 1.00	
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		28s (cold) 16s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	82.8	86.0	84.1	82.8
Efficiency (%)	50%	84.0	85.5	84.5	84.0
Linciency (70)	75%	86.5	86.5	86.5	85.5
	100%	87.5	85.5	86.5	86.5
	25%	0.25	0.29	0.27	0.25
Power Factor	50%	0.45	0.52	0.48	0.45
1 OWCI I actor	75%	0.54	0.63	0.60	0.57
	100%	0.62	0.73	0.70	0.67

Drive end Non drive end Foundation loads

Bearing type 6307 ZZ 6206 ZZ Max. traction : 145 lb Sealing V'Ring V'Ring Max. compression : 240 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 5.62A SF 1.15 SFA 6.46A

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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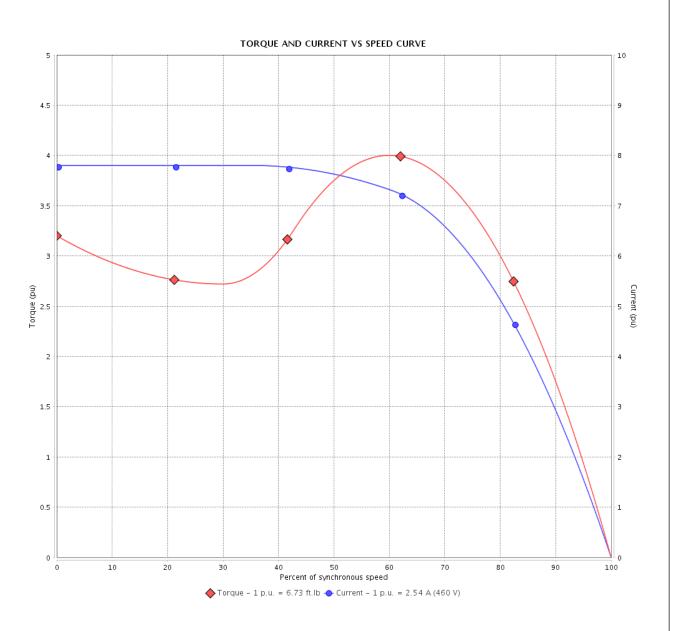


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00152ET3E182JM-W22

12775267



Performance : 230/460 V 60 Hz 6P Rated current : 5.08/2.54 A Moment of inertia (J) : 0.4879 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) : F : 6.73 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 320 % : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12775267 Catalog #: 00152ET3E182JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 8.25 ft.lb ◆ Current - 1 p.u. = 2.68 A (380 V) Performance : 380 V 50 Hz 6P IE4 Rated current : 2.68 A Moment of inertia (J) : 0.4879 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 8.25 ft.lb Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 955 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary**

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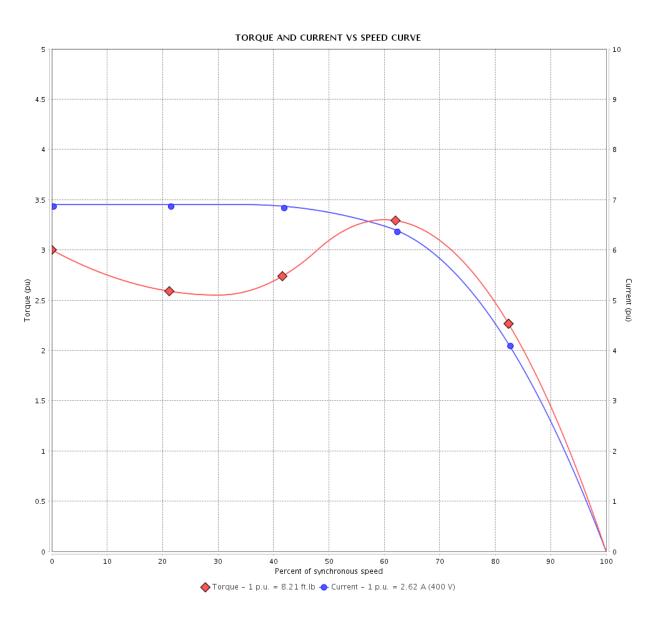
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12775267

Catalog #: 00152ET3E182JM-W22



Performance	: 400 V 50 Hz 6P IE4		
Rated current	: 2.62 A	Moment of inertia (J)	: 0.4879 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 8.21 ft.lb	Insulation class	:F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 960 rpm	Design	: B
-	•		

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12775267 Catalog #: 00152ET3E182JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu)

Performance	: 415 V 50 Hz 6P IE4		
Rated current	: 2.64 A	Moment of inertia (J)	: 0.4879 sq.ft.lb
RC	: 7.4	Duty cycle	: Cont.(S1)
ated torque	: 8.16 ft.lb	Insulation class	: F
cked rotor torque	: 330 %	Service factor	: 1.00
eakdown torque	: 370 %	Temperature rise	: 80 K
ated speed	: 965 rpm	Design	: B

40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 8.16 ft.lb ♦ Current – 1 p.u. = 2.64 A (415 V)

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

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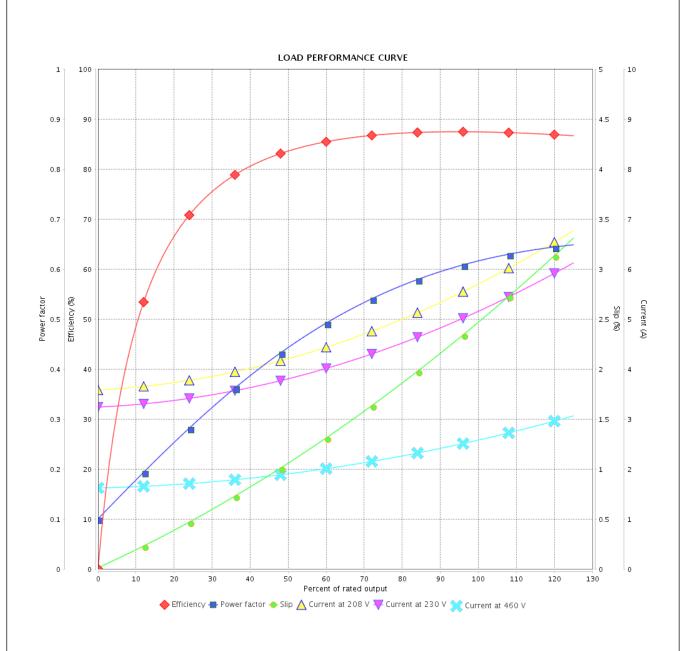
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Performance	: 230/460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.08/2.54 A : 7.8 : 6.73 ft.lb : 320 % : 400 % : 1170 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4879 sq.f : Cont.(S1) : F : 1.25 : 80 K : B	t.lb
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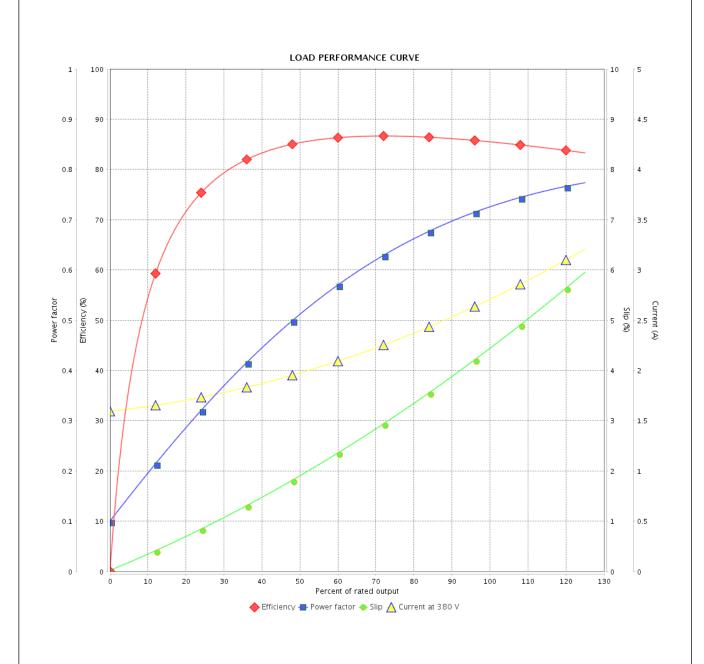


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- ·		201/5011 00154	,			
Performance	: 38	30 V 50 Hz 6P IE4	1			
Rated current	: 2.	68 A	Moment o	f inertia (J)	: 0.4879 sq.ft.lb	
LRC	: 6.	3	Duty cycle)	: Cont.(S1)	
Rated torque		25 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque		90 %	Temperati	Temperature rise		
Rated speed	: 9	55 rpm	Design		: B	
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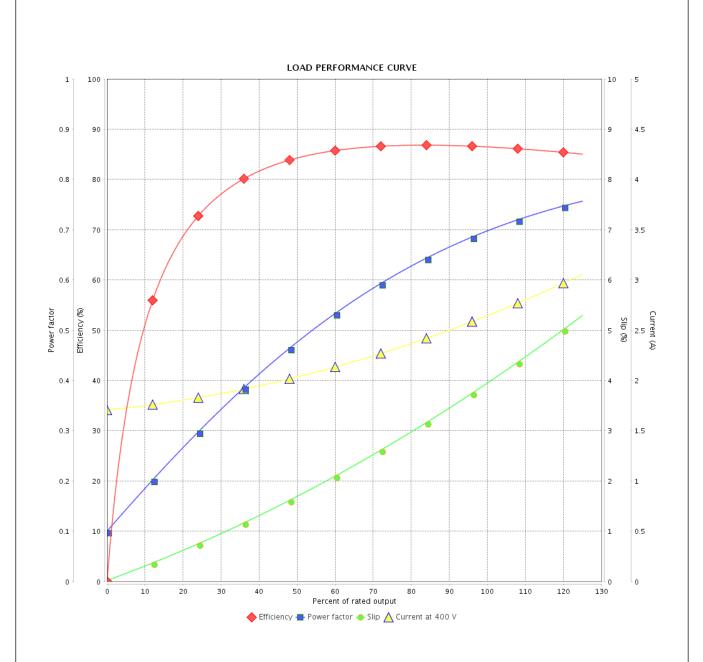
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Performance	: 40	00 V 50 Hz 6P IE4				
Rated current	: 2.	: 2.62 A		of inertia (J)	: 0.4879 sq.ft.lb	
LRC	: 6.	9	Duty cycle	е	: Cont.(S1)	
Rated torque	: 8.	21 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 30	00 %	Service fa	actor	: 1.00	
		30 %	Temperature rise		: 80 K	
Rated speed	: 96	30 rpm	Design		: B	
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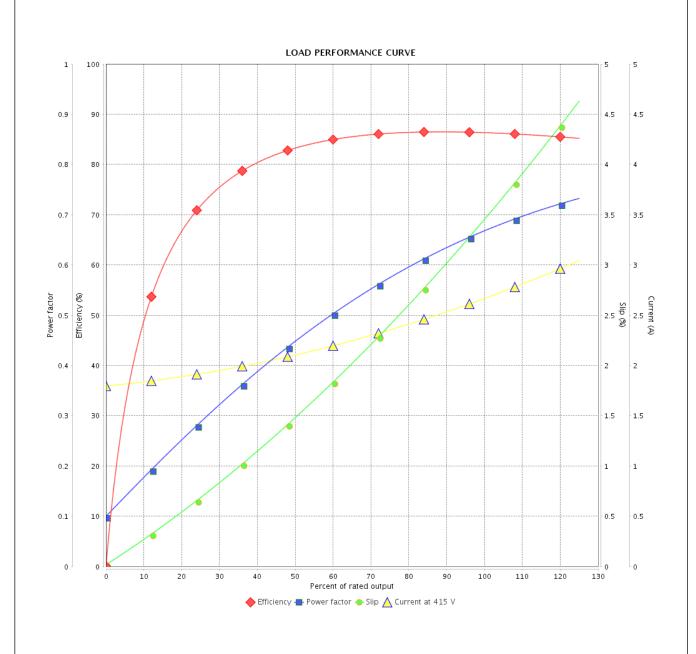
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Product line : NEMA Premium Efficiency Three- Product code : 12775267

Phase

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Performance	: 415 V 50 Hz 6P IE4				
Rated current	: 2.64 A	Moment of	f inertia (J)	: 0.4879 sq.ft.lb	
LRC	: 7.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8.16 ft.lb	Insulation class		: F	
Locked rotor torque	: 330 %	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torque	: 370 %				
Rated speed	: 965 rpm	Design		: B	
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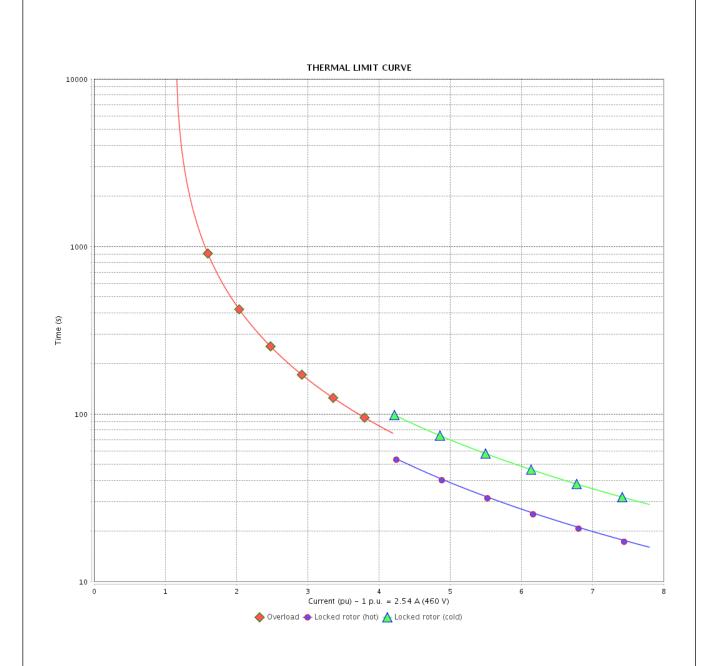


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Product line		: NEMA Premium Efficiency	Throo	Product code :	12775267	
r roduct line		Phase			12773207	
				Catalog # :	00152ET3E1	82JM-W22
Performance		: 230/460 V 60 Hz 6P				
Rated current		: 5.08/2.54 A	Moment o	of inertia (J)	: 0.4879 sq.ft.l	b
LRC		: 7.8 : 6.73 ft.lb	Duty cycle	Э	: Cont.(S1) : F	
Rated torque Locked rotor torc		: 0.73 T.ID : 320 %	Service fa		: F : 1.25	
Breakdown torqu	ie	: 400 %	Temperat		: 80 K	
Rated speed		: 1170 rpm	Design		: B	
Heating constant						
Cooling constant						
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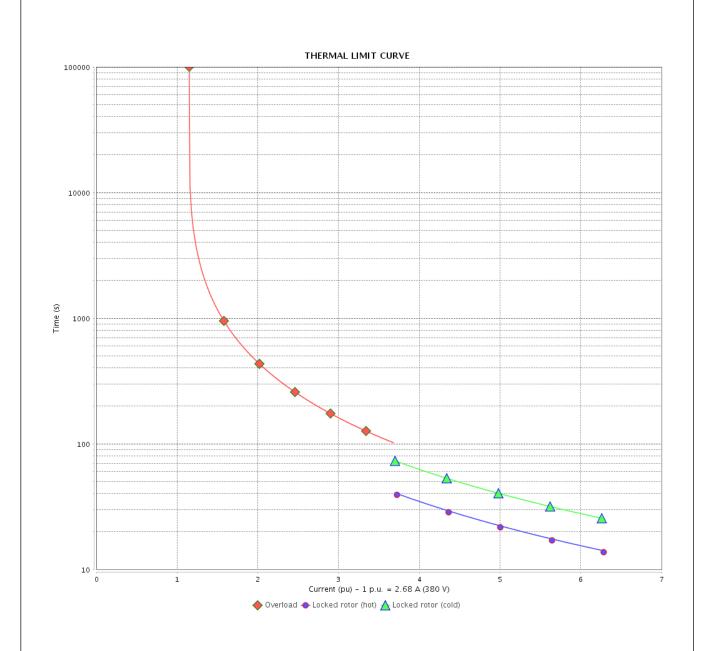


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Product line	:1	NEMA Premium Efficiency	Three-	Product code :	12775267	
	Р	hase		Catalog # :	00152ET3E1	82 IM-\N/22
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Performance	: 38	80 V 50 Hz 6P IE4	1			
Rated current		.68 A	Moment o	f inertia (J)	: 0.4879 sq.ft.l	b
LRC Rated torque	: 6. : 8.	.3 .25 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torqu	e : 25	50 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		90 % 55 rpm	Temperatu Design	ire rise	: 80 K : B	
		r				
Heating constant Cooling constant						
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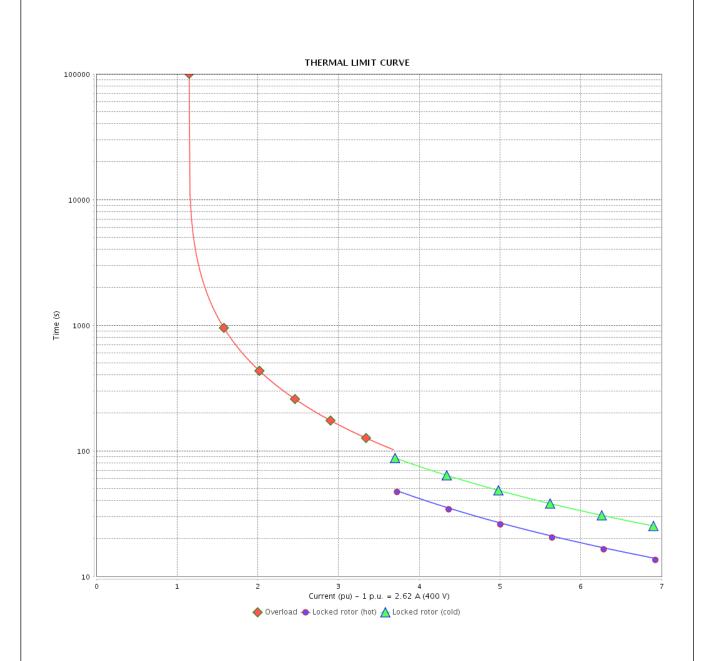


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12775267	
		Thase		Catalog # :	00152ET3E1	82JM-W22
Performance	:	400 V 50 Hz 6P IE4				
Rated current		2.62 A 6.9		f inertia (J)	: 0.4879 sq.ft.ll	b
LRC Rated torque		6.9 8.21 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torg	que :	300 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		330 % 960 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant		•	<u> </u>			
Cooling constant						
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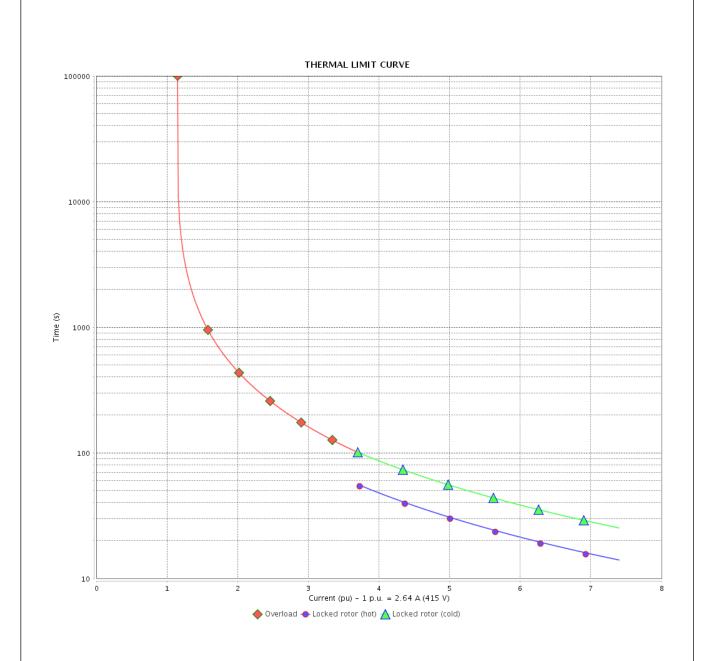


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12775267 00152ET3E1	82JM-W22
Performance		: 415 V 50 Hz 6P IE4				
Rated current	:	: 2.64 A	Moment o	of inertia (J)	: 0.4879 sq.ft.l	b
LRC Rated torque		: 7.4 : 8.16 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 330 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 370 % : 965 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t			1	T	
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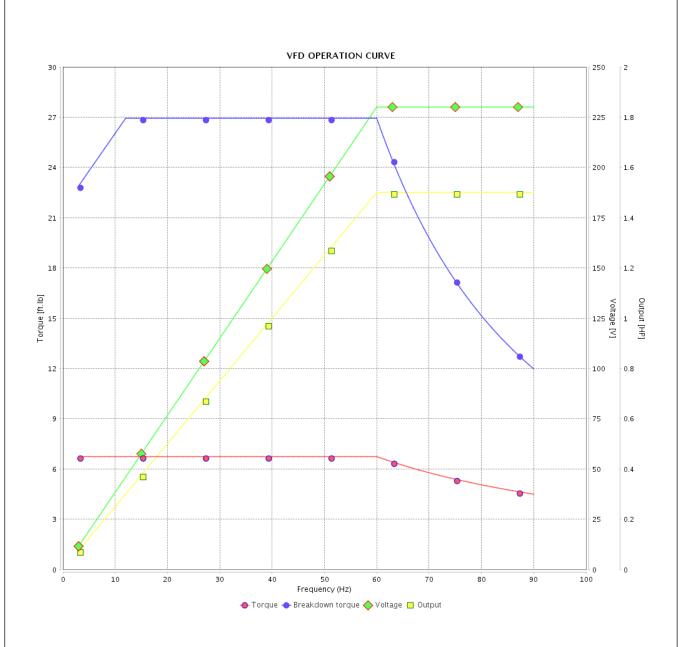
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Performance	: 2	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 6 que : 3 ie : 4	.08/2.54 A .8 .73 ft.lb 20 % 00 % 170 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.4879 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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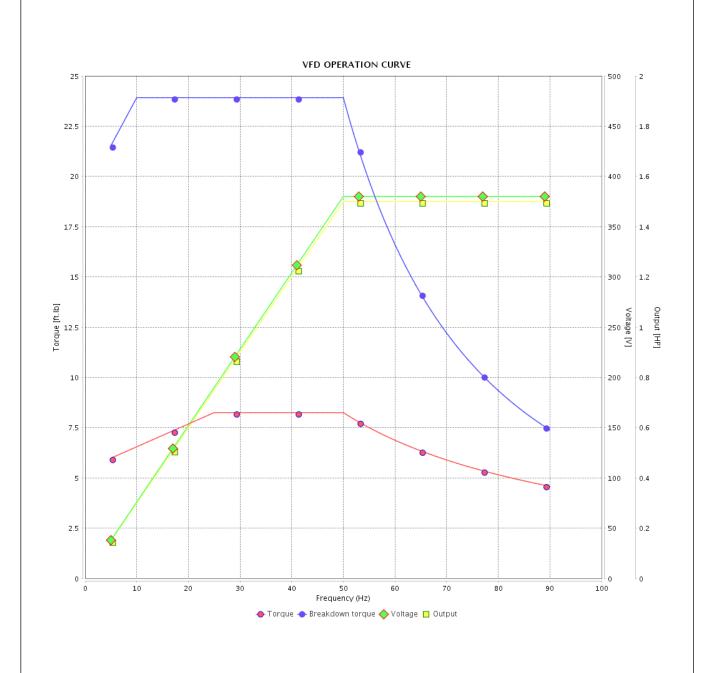
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12775267

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Performance	: 3	80 V 50 Hz 6P IE4	ļ			
Rated current	: 2	.68 A	B A Moment of inertia (J)		: 0.4879 sq.ft.lb	
LRC	: 6	.3	Duty cycle	Duty cycle		
Rated torque	: 8	.25 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ue : 2	50 %	Service fa	Service factor		
Breakdown torque	e : 2	90 %	Temperature rise		: 80 K	
Rated speed	: 9	55 rpm	Design		: B	
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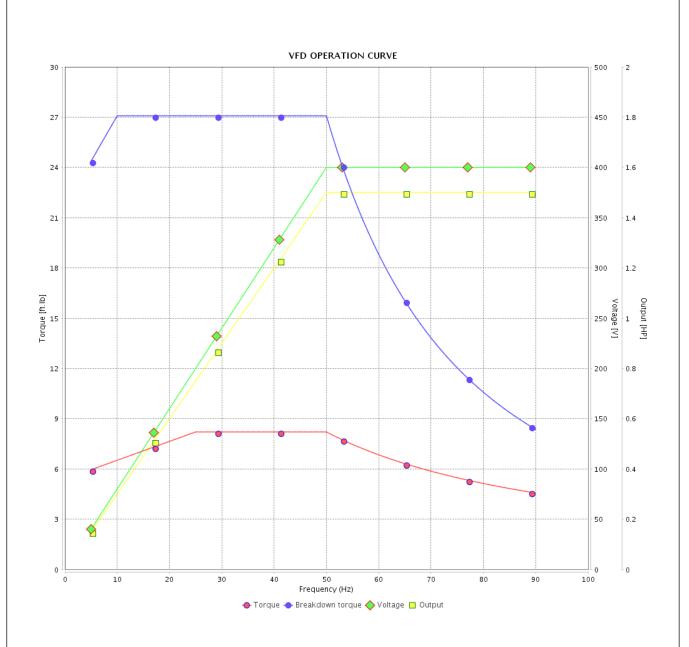
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Performance		: 400 V 50 Hz	6P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 2.62 A : 6.9 : 8.21 ft.lb : 300 % : 330 % : 960 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.4879 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
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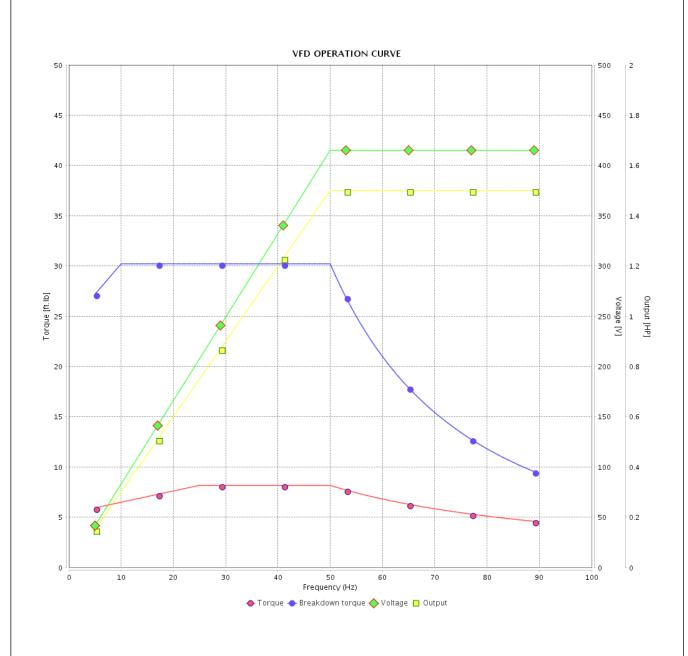
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Performance	: 415 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.64 A : 7.4 : 8.16 ft.lb : 330 % : 370 % : 965 rpm	Moment of inertia (J) : 0.4879 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B)	
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