### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Product code: 11438008

Three-Phase

02018ET3E256T-W22 Catalog #:

Frame : 254/6T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Starting method : Direct On Line

Ambient temperature : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 170 kg Altitude

: 0.1305 kgm<sup>2</sup> Protection degree : IP55 Moment of inertia (J)

Design		: B					J	
Output [HP]		20	15	15	15	20	20	20
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		48.2/24.1	21.8	21.2	20.6	29.4	28.0	27.1
L. R. Amperes [A]		333/166	161	167	173	168	174	179
LRC [A]		6.9x(Code H)	7.4x(Code H)	7.9x(Code J)	8.4x(Code K)	5.7x(Code F)	6.2x(Code	6.6x(Code H)
		, ,	,	,	,	, , ,	Ġ)	, ,
No load current [A	]	20.0/10.0	9.90	10.5	11.0	9.90	10.5	11.0
Rated speed [RPN	<b>Л</b> ]	1765	1470	1475	1477	1455	1460	1465
Slip [%]		1.94	2.00	1.67	1.53	3.00	2.67	2.33
Rated torque [kgfm]		8.20	7.41	7.38	7.37	9.98	9.94	9.91
Locked rotor torqu	e [%]	270	250	280	300	190	210	229
Breakdown torque	[%]	280	310	350	370	220	240	270
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		27s (cold)	21s (cold)	25s (cold)	25s (cold)	21s (cold)	25s (cold)	25s (cold)
		15s (hot)	12s (hot)	14s (hot)	14s (hot)	12s (hot)	14s (hot)	14s (hot)
Noise level <sup>2</sup>		64.0 dB(A)	61.0 dB(A)	61.0 dB(A)				
	25%	91.0	90.9	89.2	89.2	92.3	90.8	90.8
Efficiency (%)	50%	91.7	91.0	89.8	89.8	91.7	91.0	91.0
Efficiency (%)	75%	92.4	91.5	91.0	91.3	91.0	91.0	91.7
	100%	93.0	91.4	91.4	91.7	90.2	91.0	91.7
	25%	0.43	0.40	0.37	0.35	0.49	0.46	0.44
Power Factor	50%	0.68	0.65	0.62	0.60	0.75	0.72	0.70
FOWEI FACIOI	75%	0.79	0.78	0.75	0.73	0.83	0.81	0.80
	100%	0.84	0.84	0.82	0.81	0.86	0.85	0.84

Drive end Non drive end Foundation loads

20000 h

Bearing type 6309 C3 6209 C3 Max. traction : 336 kgf V'Ring Sealing V'Ring : 506 kgf Max. compression

20000 h

Lubricant amount 13 g 9 g Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 53.3A SF 1.15 SFA 61.3A

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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#### Three Phase Induction Motor - Squirrel Cage



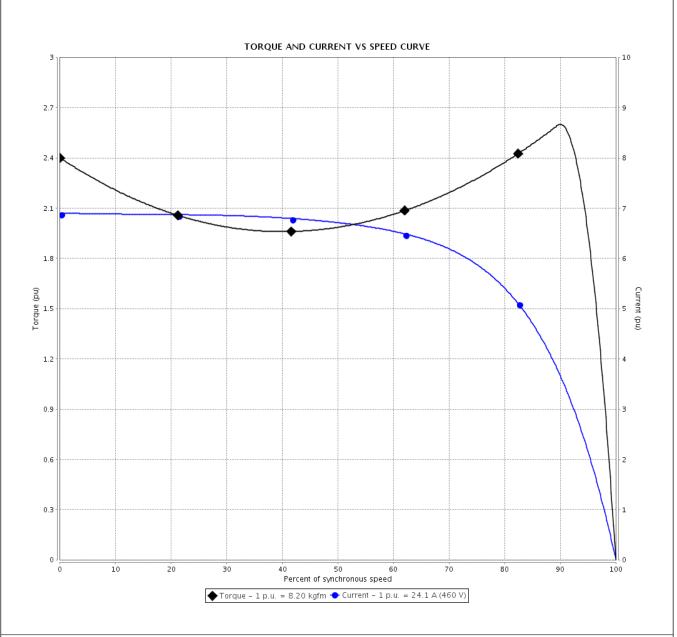
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 48.2/24.1 A Moment of inertia (J) : 0.1305 kgm<sup>2</sup> **LRC** : 6.9 Duty cycle : Cont.(S1) : 8.20 kgfm Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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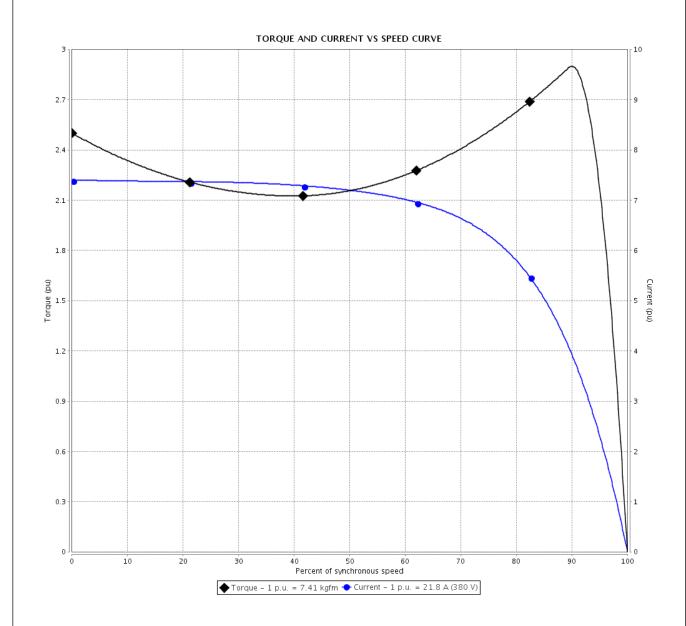
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 21.8 A Moment of inertia (J) : 0.1305 kgm<sup>2</sup> **LRC** : 7.4 Duty cycle : Cont.(S1) : 7.41 kgfm Insulation class : F Rated torque : 250 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K : B Rated speed : 1470 rpm Design

Locked rotor time : 21s (cold) 12s (hot)

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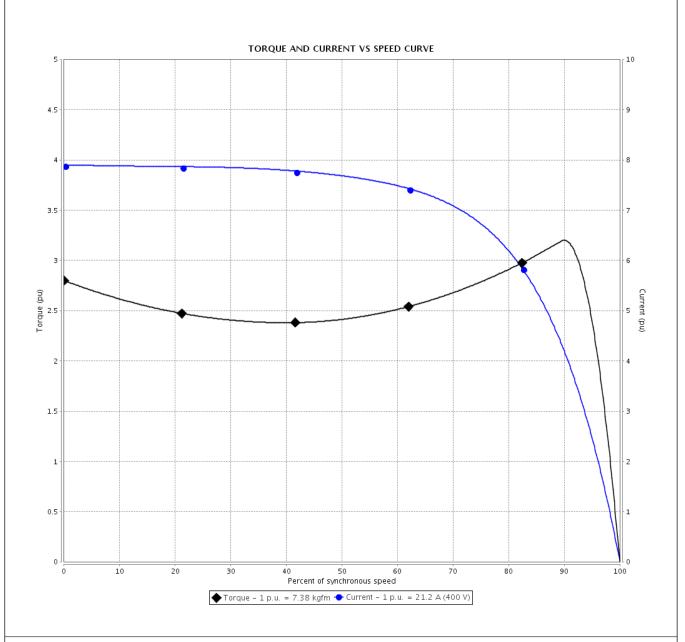
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



: 400 V 50 Hz 4P IE3 Performance Rated current : 21.2 A Moment of inertia (J) : 0.1305 kgm<sup>2</sup> **LRC** : 7.9 Duty cycle : Cont.(S1) : F : 7.38 kgfm Insulation class Rated torque : 280 % Service factor Locked rotor torque : 1.00

Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

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

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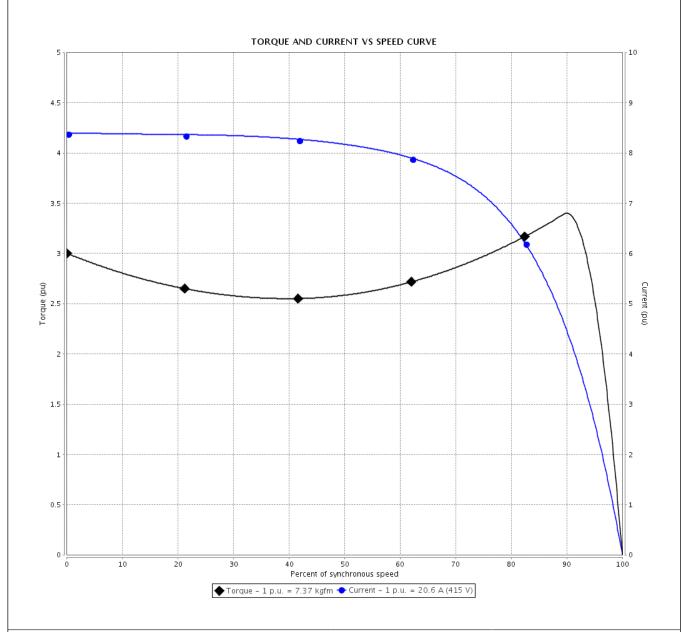
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



: 415 V 50 Hz 4P IE3 Performance Rated current : 20.6 A Moment of inertia (J) : 0.1305 kgm<sup>2</sup> **LRC** : 8.4 Duty cycle : Cont.(S1) : 7.37 kgfm Insulation class : F Rated torque : 300 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 370 % Temperature rise : B Rated speed : 1477 rpm Design Locked rotor time : 25s (cold) 14s (hot)

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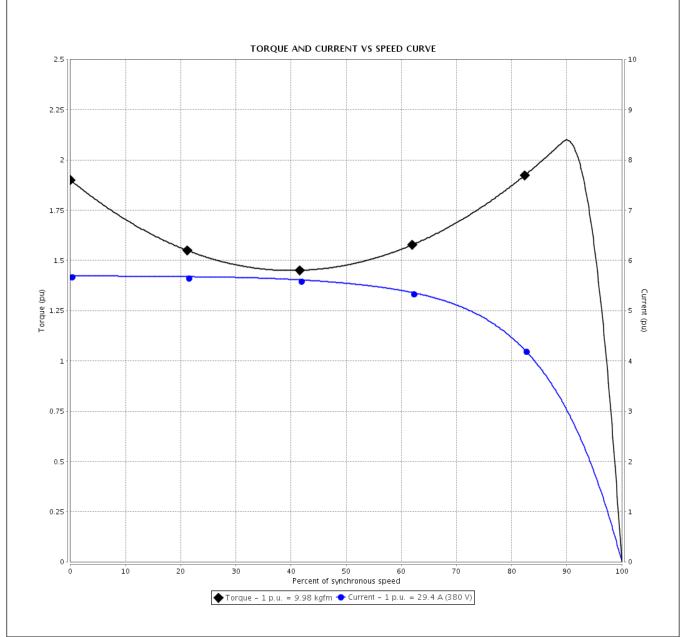
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



: 380 V 50 Hz 4P IE1 Performance Rated current : 29.4 A Moment of inertia (J) : 0.1305 kgm<sup>2</sup> **LRC** : 5.7 Duty cycle : Cont.(S1) : 9.98 kgfm Insulation class Rated torque : F : 190 % Service factor Locked rotor torque : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

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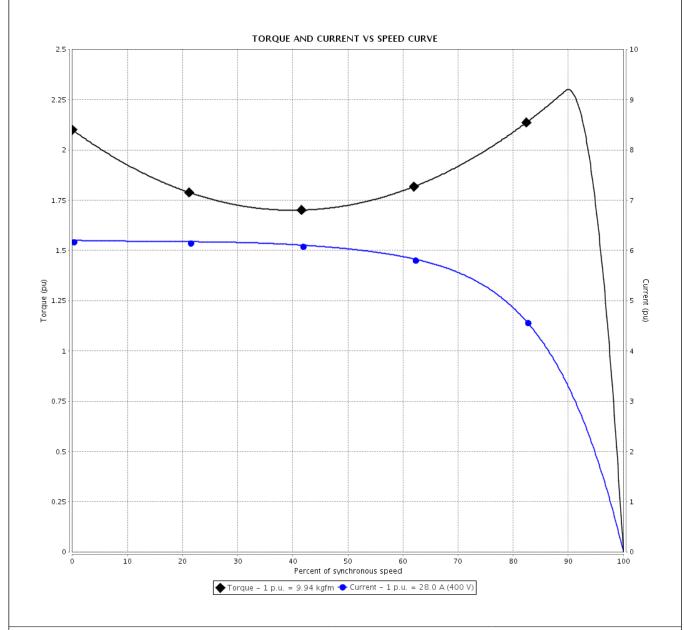
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 28.0 A Moment of inertia (J) : 0.1305 kgm<sup>2</sup> **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.94 kgfm : 210 % : 1.00 Locked rotor torque Service factor Breakdown torque : 240 % Temperature rise : 105 K : B Rated speed : 1460 rpm Design Locked rotor time : 25s (cold) 14s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



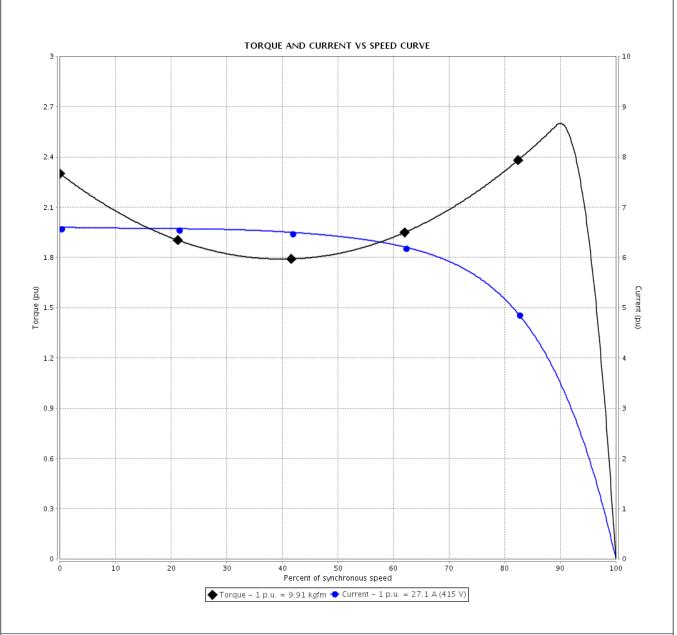
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



: 415 V 50 Hz 4P IE2 Performance Rated current : 27.1 A Moment of inertia (J) : 0.1305 kgm<sup>2</sup> **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 9.91 kgfm : F : 229 % Service factor Locked rotor torque : 1.00 Breakdown torque : 270 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B

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

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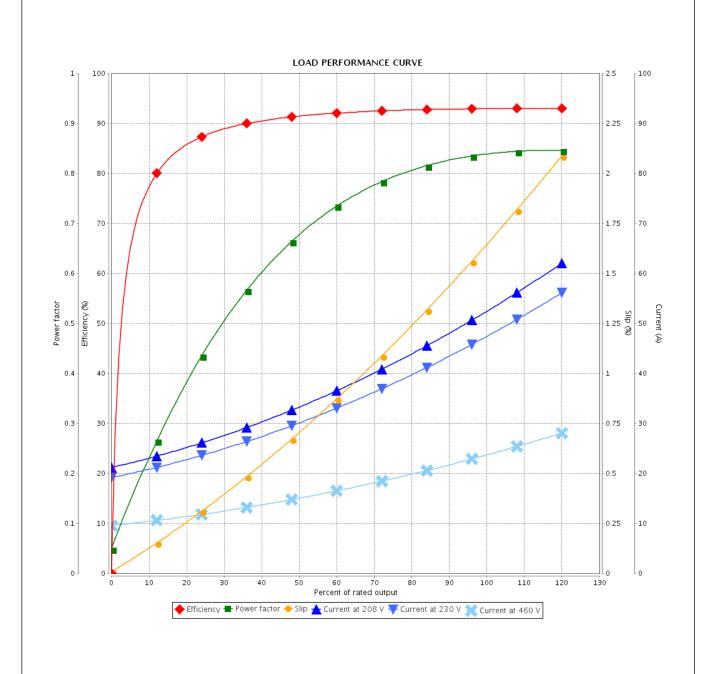


Customer

Product line : W22 NEMA Premium Efficiency Product code : 11438008

Three-Phase

Catalog #: 02018ET3E256T-W22



Performance	::	230/460 V 60 Hz 4P				
Rated current : 48		48.2/24.1 A	Moment o	Moment of inertia (J)		
LRC : 6.		6.9	Duty cycle	}	: Cont.(S1)	
Rated torque : 8		8.20 kgfm	Insulation	class	: F	
•		270 %	Service fa	ctor	: 1.25	
Breakdown torque		280 %	Temperati	Temperature rise		
Rated speed	:	1765 rpm	Design		: B	
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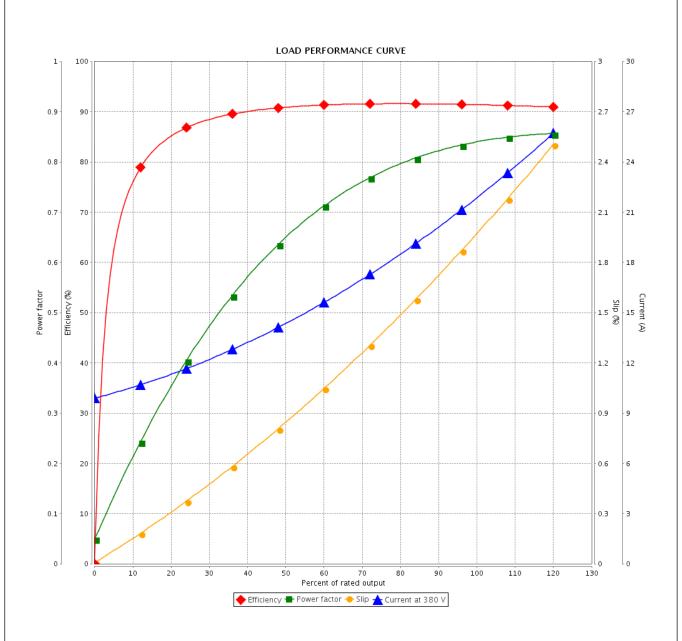
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance	: 380 V 50 Hz 4P IE3	: 380 V 50 Hz 4P IE3			
Rated current	: 21.8 A	Moment of inertia (J)		: 0.1305 kgm²	2
LRC	: 7.4	Duty cycle Insulation class Service factor Temperature rise		: Cont.(S1) : F : 1.00 : 80 K	
Rated torque	: 7.41 kgfm				
Locked rotor torque	: 250 %				
Breakdown torque	: 310 %				
Rated speed	: 1470 rpm	Design		: B	
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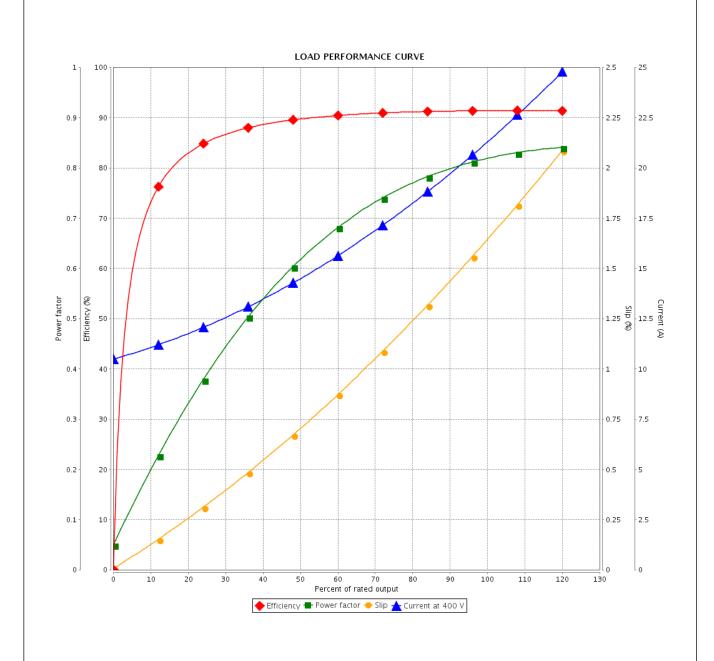
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Product line : W22 NEMA Premium Efficiency Pro

Three-Phase

Product code: 11438008

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Performance	: 4	00 V 50 Hz 4P IE3					
Rated current	: 2	1.2 A	Mo	Moment of inertia (J)		: 0.1305 kgm	2
LRC : 7.9		.9	Du	ity cycle	. ,	: Cont.(S1)	
Rated torque : 7.		.38 kgfm	Ins	sulation o	class	: F	
		80 %	Se	ervice fac	ctor	: 1.00	
Breakdown torque		50 %	Te	Temperature rise		: 80 K	
Rated speed	: 1	475 rpm Design			: B		
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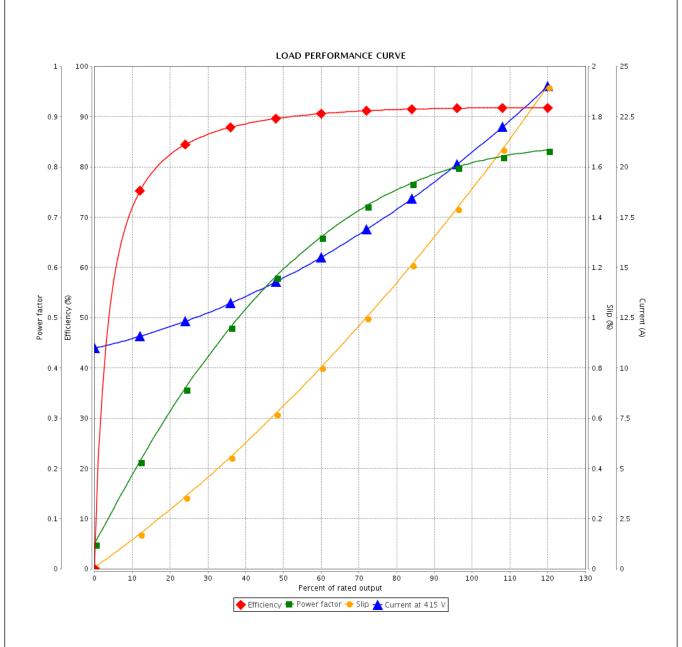
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

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Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 20.6 A	Moment of inertia (J)		: 0.1305 kgm²	
LRC	: 8.4	Duty cycle	)	: Cont.(S1)	
Rated torque	: 7.37 kgfm	Insulation class		: F	
Locked rotor torque	: 300 %	Service factor		: 1.00	
Breakdown torque	: 370 %	Temperature rise		: 80 K	
Rated speed	: 1477 rpm	Design		: B	
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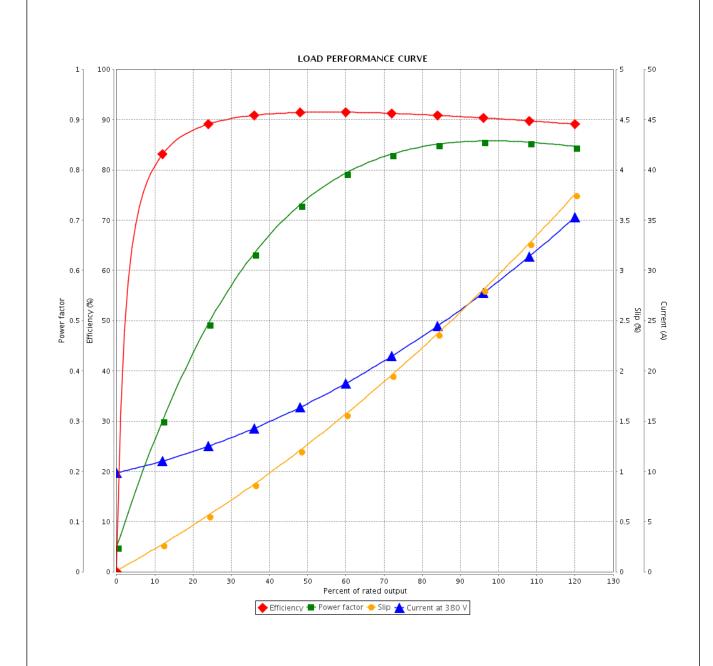
Customer

Product line : W22 NEMA Premium Efficiency Product

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance	: 3	: 380 V 50 Hz 4P IE1				
Rated current	: 2	: 29.4 A Mome		Moment of inertia (J)		
LRC	: 5	5.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 9	.98 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	20 %	Temperature rise		: 105 K	
Rated speed : 1455 rpm		Design		: B		
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Three-Phase

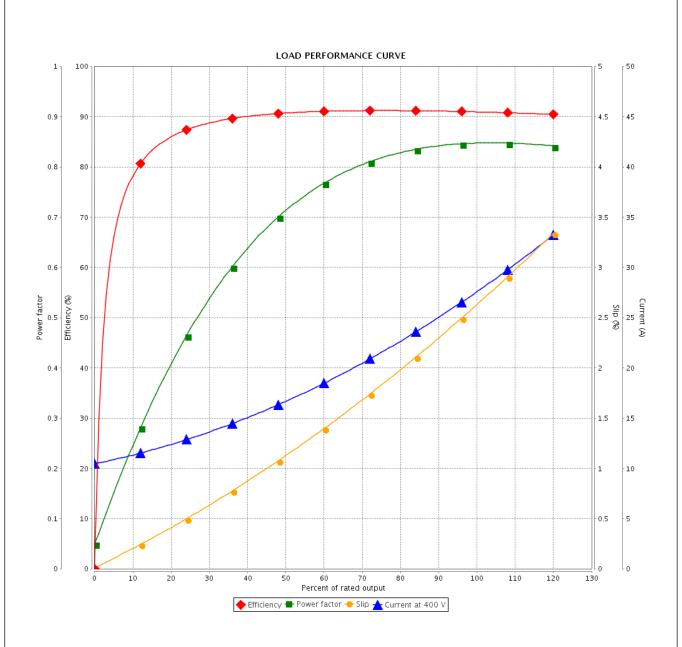
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Performance : 400 V 50 Hz 4P IE2 : 0.1305 kgm<sup>2</sup> Rated current : 28.0 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.2 Insulation class Rated torque : 9.94 kgfm : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



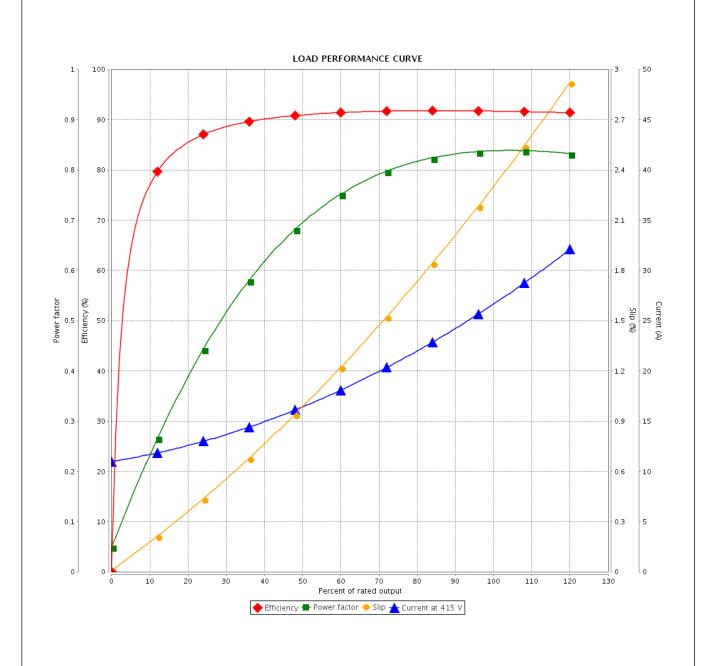
Customer

Product line : W22 NEMA Premium Efficiency Product code:

Three-Phase

11438008

Catalog #: 02018ET3E256T-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 2	7.1 A	1 A Moment of inertia (J		: 0.1305 kgm²	
LRC	: 6	6	Duty cycle	)	: Cont.(S1)	
Rated torque	: 9	91 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torqu	que : 270 % Temperature rise		ıre rise	: 105 K		
Rated speed	: 14	465 rpm	Design		: B	
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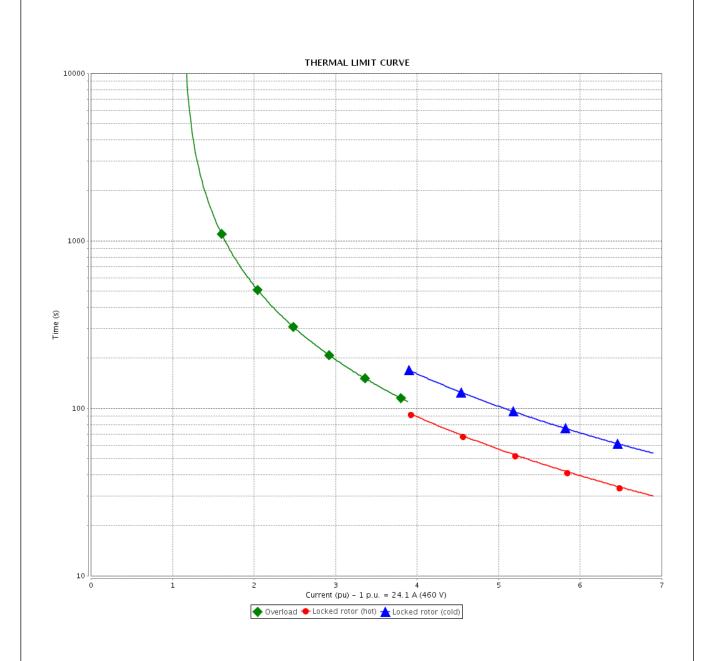


Customer	:				
Product line	: W22 NEMA Premium Effici Three-Phase		Product code : Catalog # :	11438008 02018ET3E25	56T-W22
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 48.2/24.1 A	Moment o	f inertia (J)	: 0.1305 kgm²	
LRC Rated torque	: 6.9 : 8.20 kgfm	Duty cycle	class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 270 % : 280 %	Service fa		: 1.25 : 80 K	
Rated speed Heating constant	: 1765 rpm	Design		: B	
Cooling constant					
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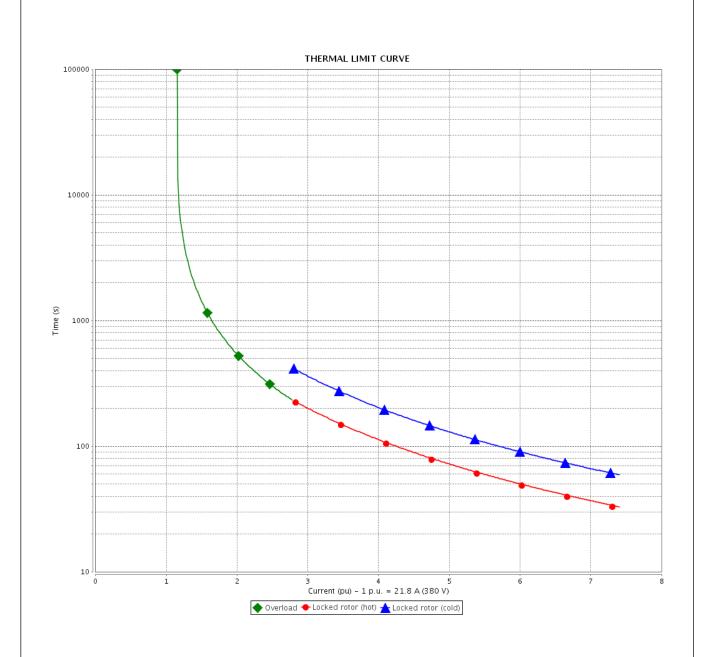


Customer	:				
Product line	: W22 NEMA Premium Effici Three-Phase		Product code : Catalog # :	11438008 02018ET3E25	6T-W22
Derformance	. 200 V 50 Hz 4D IF2				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 380 V 50 Hz 4P IE3 : 21.8 A : 7.4 : 7.41 kgfm : 250 % : 310 % : 1470 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.1305 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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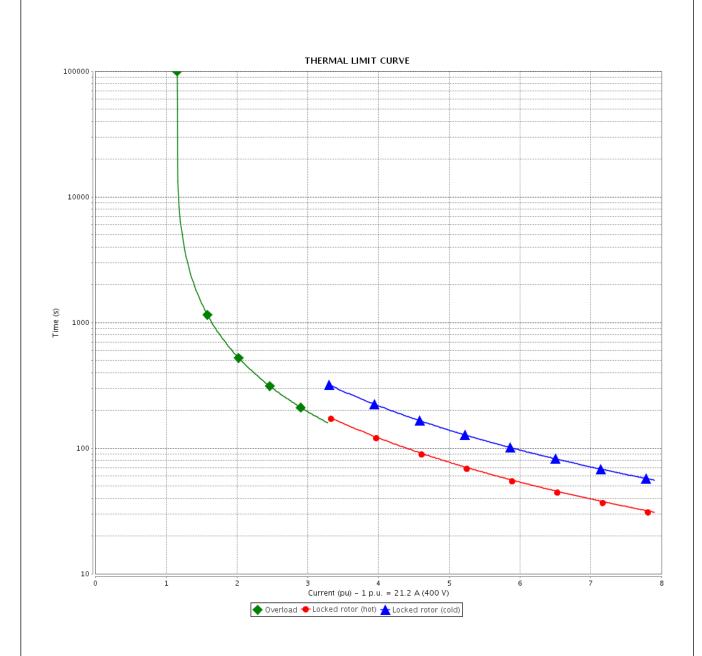


Customer	:				
Product line	: W22 NEMA Premium Effici Three-Phase		Product code : Catalog # :	11438008 02018ET3E2	56T-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 21.2 A : 7.9 : 7.38 kgfm	Duty cycle Insulation	class	: 0.1305 kgm² : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 280 % : 350 % : 1475 rpm	Service fa Temperatu Design		: 1.00 : 80 K : B	
Heating constant					
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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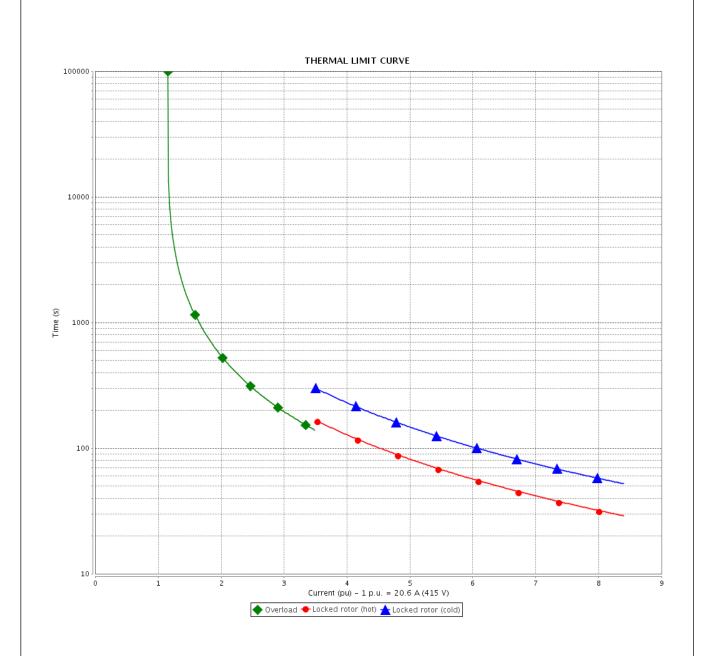


Customer		:				
Dec Letter		MOONEMA B		2111.	44.400000	
Product line		: W22 NEMA Premium Efficient Three-Phase		Product code :	11438008	
			(	Catalog # :	02018ET3E25	56T-W22
Performance	:	415 V 50 Hz 4P IE3				
Rated current		20.6 A	Moment of		: 0.1305 kgm²	
LRC Rated torque		8.4 7.37 kgfm	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq		300 %	Service fa		: 1.00	
Breakdown torqu	ie :	370 %	Temperatu	ıre rise	: 80 K	
Rated speed		1477 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Commercial		Dorforms!	Charles	Data
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

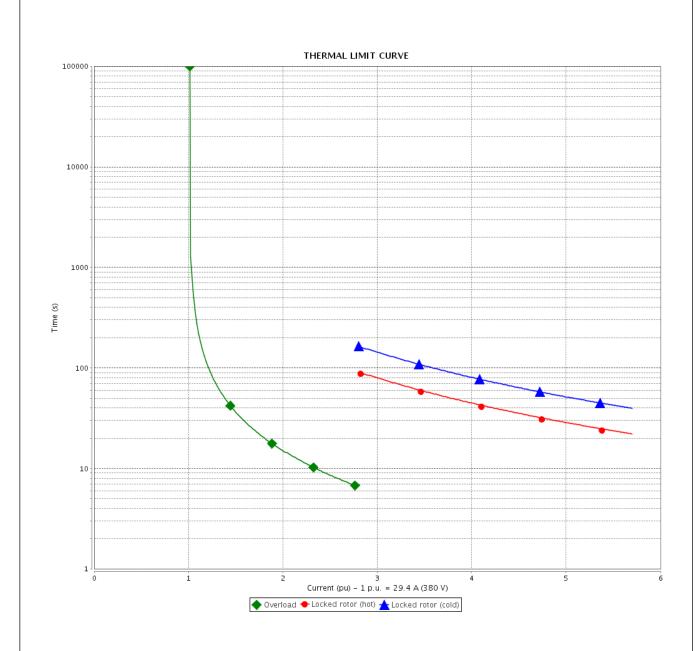


Customer	:				
Product line	: W22 NEMA Premium Effici	ency I	Product code :	11438008	
	Three-Phase				56T-W22
			Catalog # :	02018ET3E2	56T-W22
Performance Rated current LRC Rated torque Locked rotor torque	: 380 V 50 Hz 4P IE1 : 29.4 A : 5.7 : 9.98 kgfm : 190 %	Moment of Duty cycle Insulation Service fac	class	: 0.1305 kgm² : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 220 % : 1455 rpm	Temperatu Design		: 1.00 : 105 K : B	
Heating constant Cooling constant					
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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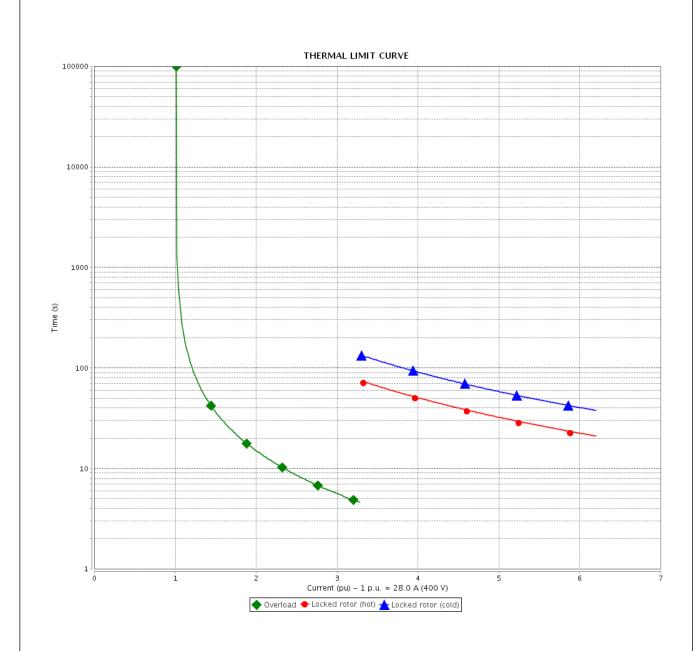


Customer		:				
Product line		: W22 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	11438008 02018ET3E25	6T-W22
Performance	:	400 V 50 Hz 4P IE2				
Rated current LRC Rated torque	:	28.0 A 6.2 9.94 kgfm	Duty cycle Insulation	class	: 0.1305 kgm² : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ue :	210 % 240 % 1460 rpm	Service fa Temperatu Design		: 1.00 : 105 K : B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

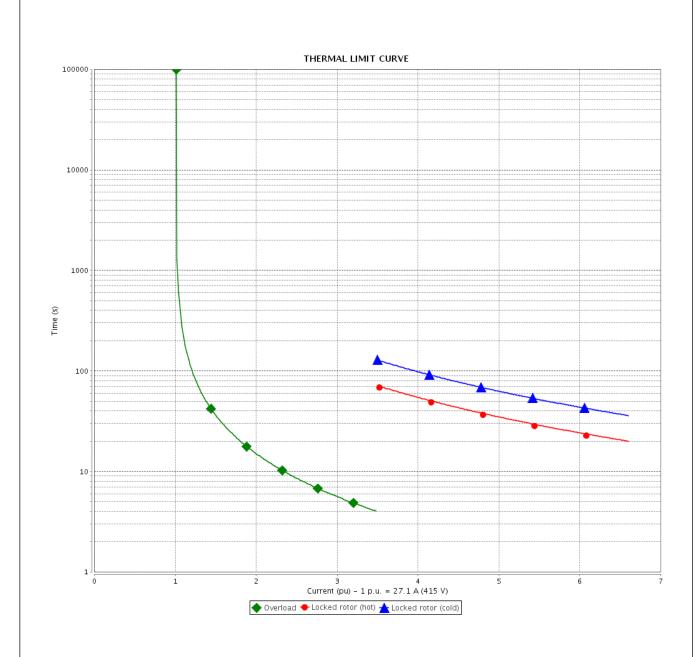


Customer	:				
Product line	: W22 NEMA Premium Effic	ciency	Product code :	11438008	
	Three-Phase		Catalog # :	02018ET3E2	256T-W22
Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.1 A : 6.6 : 9.91 kgfm : 229 % : 270 % : 1465 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1305 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	·				
Cooling constant					
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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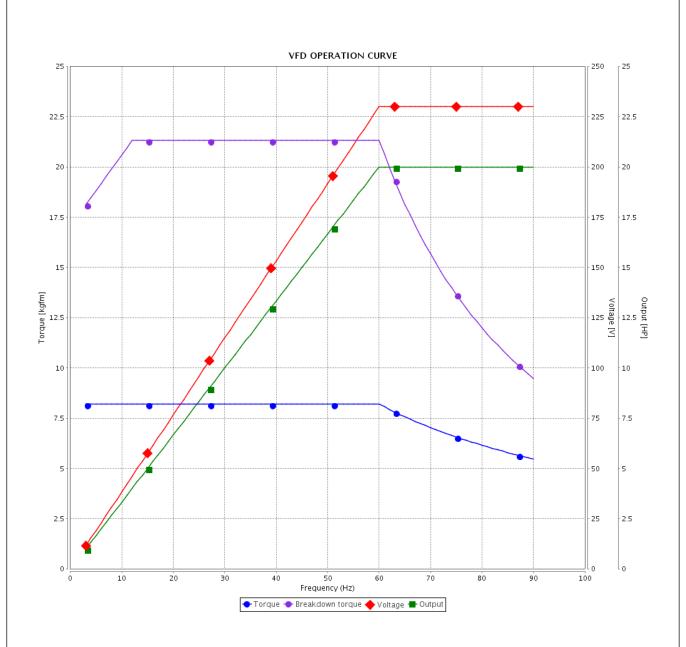
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 48.2/24.1 A : 6.9 : 8.20 kgfm : 270 % : 280 % : 1765 rpm	: 6.9       Duty cycle       : Cont.(S1)         : 8.20 kgfm       Insulation class       : F         : 270 %       Service factor       : 1.25         : 280 %       Temperature rise       : 80 K			
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#### Three Phase Induction Motor - Squirrel Cage



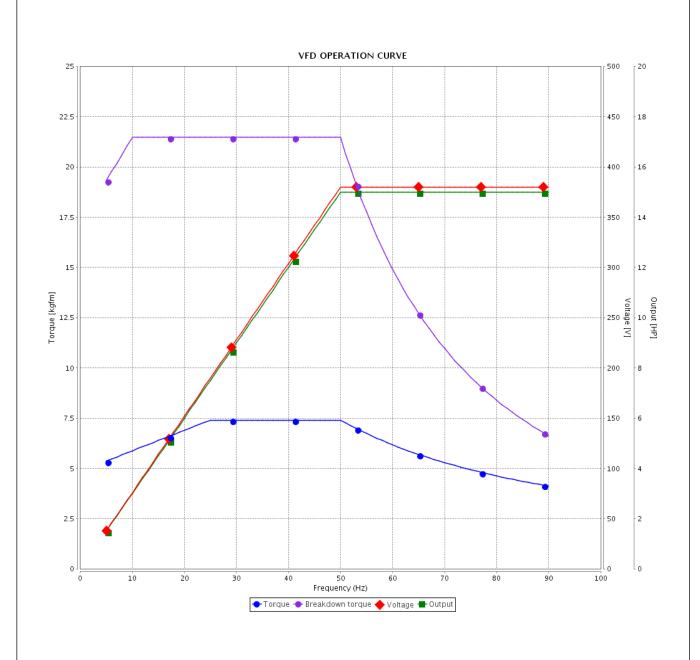
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.8 A : 7.4 : 7.41 kgfm : 250 % : 310 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1305 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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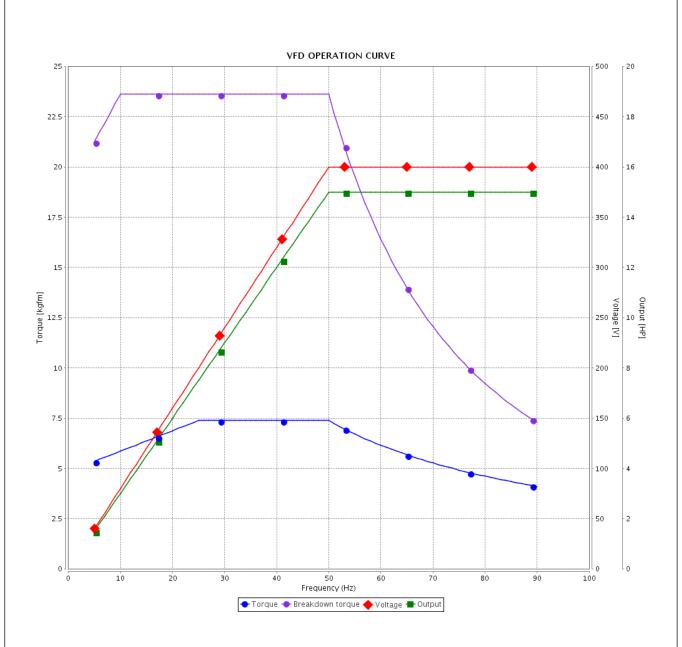
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance : 400 V 50 Hz 4P IE3 : 0.1305 kgm<sup>2</sup> Rated current : 21.2 A Moment of inertia (J) **LRC** : 7.9 Duty cycle : Cont.(S1) : 7.38 kgfm Insulation class : F Rated torque Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



Customer

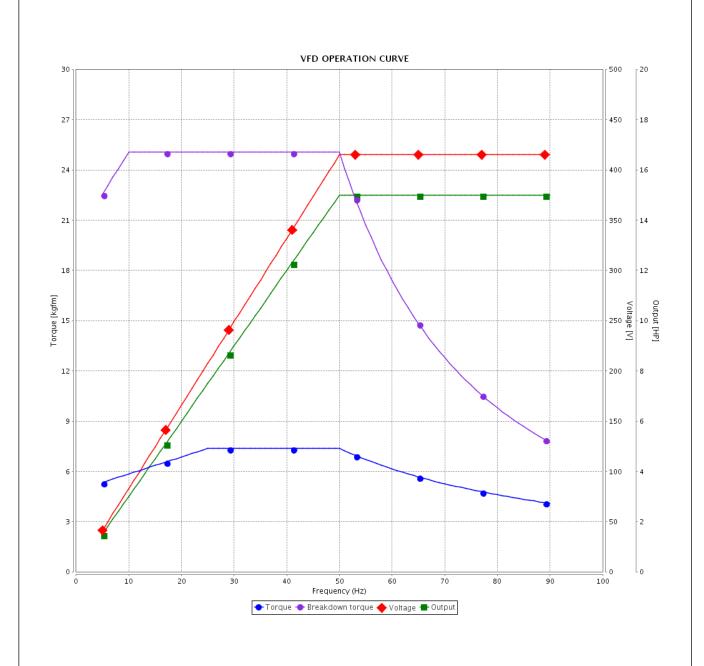
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 20.6 A : 8.4 : 7.37 kgfm : 300 % : 370 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1305 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed  Rev.	: 1477 rpm  Changes Summary	Design	Performed	: B Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : W22 NEMA Premium Efficiency

Three-Phase

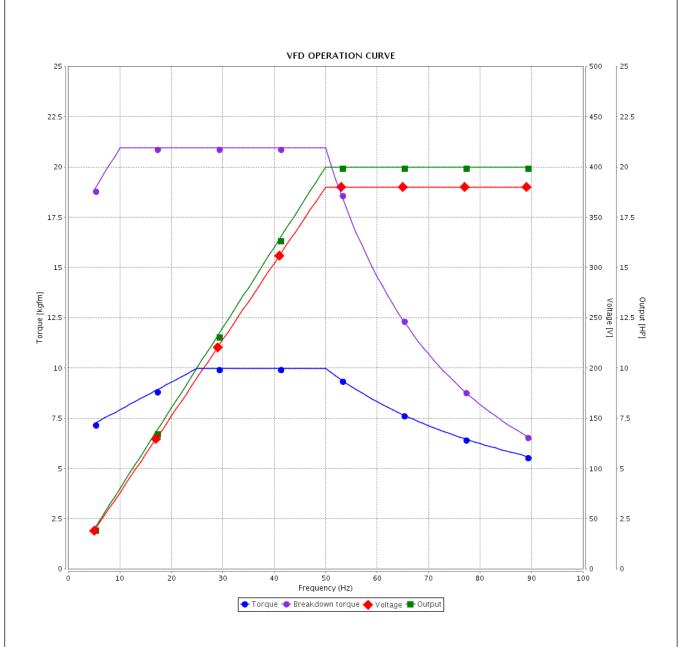
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Performance	: 3	880 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 9 jue : 1 ie : 2	29.4 A 5.7 9.98 kgfm 90 % 220 % 455 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1305 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



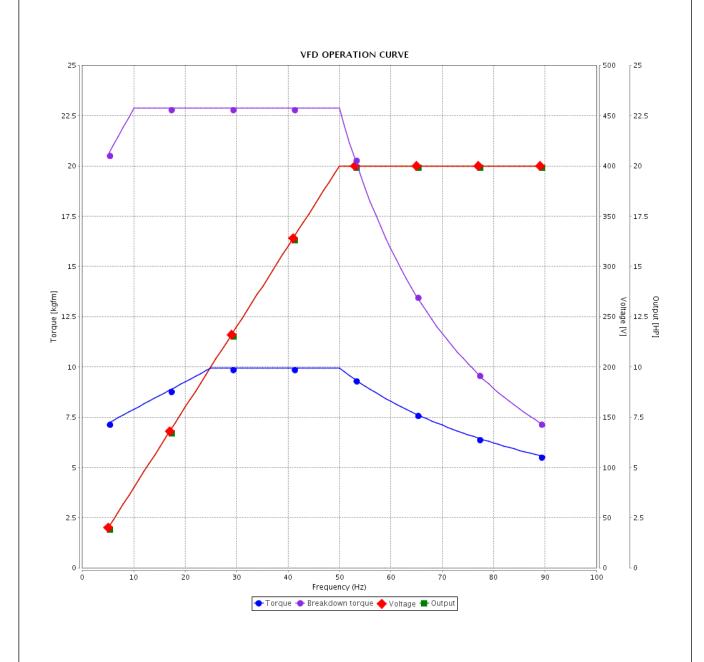
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current : 28.0 A		Moment o	f inertia (J)	: 0.1305 kgm²		
LRC	: 6	.2	, , ,		: Cont.(S1)	
Rated torque	: 9	.94 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	kdown torque : 240 % Temperature rise		ıre rise	: 105 K		
Rated speed	: 1	460 rpm	Design		: B	
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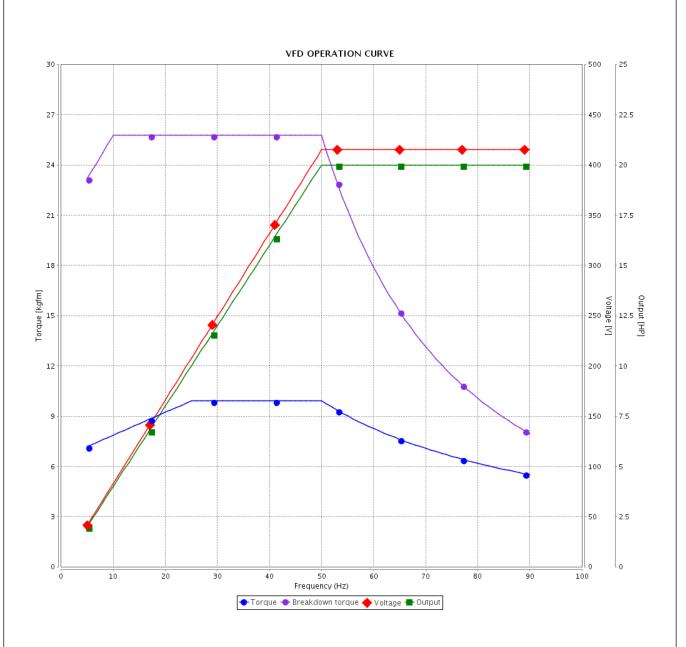
22/03/2021

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11438008

Catalog #: 02018ET3E256T-W22



Performance : 415 V 50 Hz 4P IE2 : 0.1305 kgm<sup>2</sup> Rated current : 27.1 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 9.91 kgfm : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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