DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12757940

Phase

Catalog #: 00312ET3E213JP-W22

Frame : 213/5JP Cooling method : IC411 - TEFC

Insulation class : F 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 : 121 lb
Protection degree : IP55 Moment of inertia (J) : 1.20 sq.ft.lb

Protection degre	e	: IP55	Moment of ine	Moment of inertia (J) : 1.20 sq.ft.lb		
Design		: B				
Output [HP]		3	3	3	3	
Poles	Poles		6	6	6	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		8.83/4.41	5.09	4.92	4.87	
L. R. Amperes [A]		61.8/30.9	29.5	31.5	33.1	
LRC [A]		7.0x(Code K)	5.8x(Code H)	6.4x(Code J)	6.8x(Code J)	
No load current [A	<u>\</u>]	5.50/2.75	2.72	2.91	3.05	
Rated speed [RPI	Rated speed [RPM]		965	970	970	
Slip [%]	Slip [%]		3.50	3.00	3.00	
Rated torque [ft.lb	Rated torque [ft.lb]		16.3	16.3 16.2		
Locked rotor torqu	Locked rotor torque [%]		170	200	220	
Breakdown torque	[%]	280	210	210 240		
Service factor		1.25	1.00	1.00 1.00		
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		104s (cold) 58s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	72s (cold) 40s (hot)	
Noise level ²		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
	25%	85.4	88.0	86.1	86.1	
Efficiency (%)	50%	86.5	87.5	86.5	86.5	
Elliciency (70)	75%	88.5	88.5	88.5	88.5	
100%		89.5	87.5	88.5	88.5	
	25%		0.33	0.30	0.28	
Power Factor	50%	0.50	0.57	0.53	0.50	
1 OWEI FACIOI	75%	0.63	0.70	0.66	0.64	
	100%	0.70	0.75	0.73	0.71	

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6309 Z C3 6207 ZZ Max. traction : 186 lb Sealing : V'Ring V'Ring Max. compression : 308 lb

40000 h

Lubricant amount : 13 g 0 g Lubricant type : Mobil Polyrex EM

20000 h

Notes

Lubrication interval

USABLE @208V 9.76A SF 1.15 SFA 11.2A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1 / 21	

Three Phase Induction Motor - Squirrel Cage

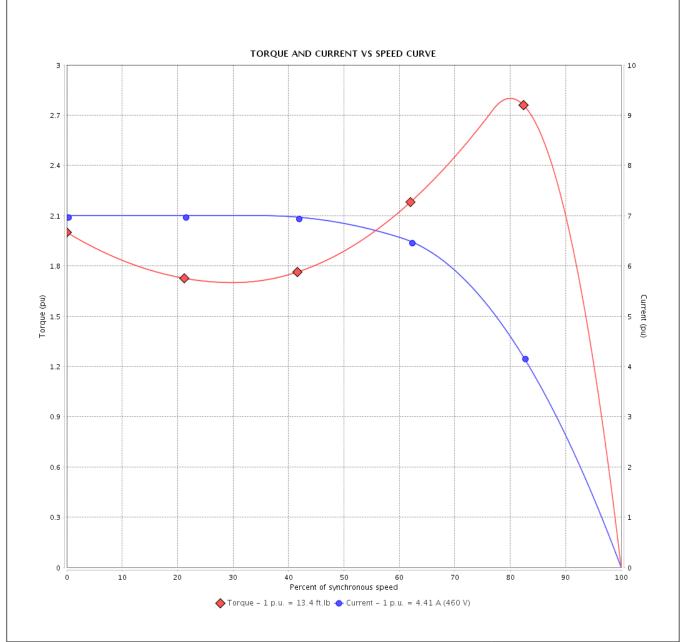


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12757940

Phase

Catalog #: 00312ET3E213JP-W22



Performance : 230/460 V 60 Hz 6P Rated current : 8.83/4.41 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 13.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 104s (cold) 58s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2 / 21	

Three Phase Induction Motor - Squirrel Cage

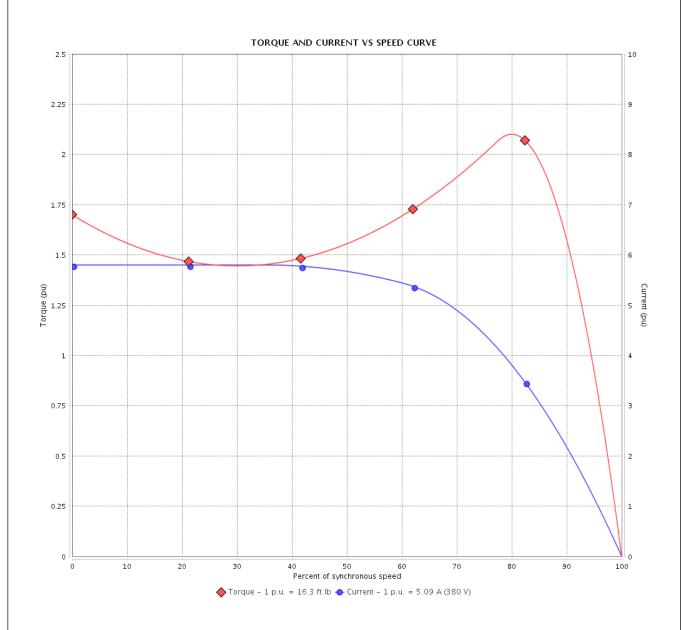


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00312ET3E213JP-W22

12757940



Performance	: 380 V 50 Hz 6P IE4			
Rated current	: 5.09 A	Moment of inertia (J)	: 1.20 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 16.3 ft.lb	Insulation class	:F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 965 rpm	Design	: B	
Locked rotor time	· 72s (cold) 40s (hot)			

Locked rotor time

		, , , ,			
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			3 / 21	

Three Phase Induction Motor - Squirrel Cage



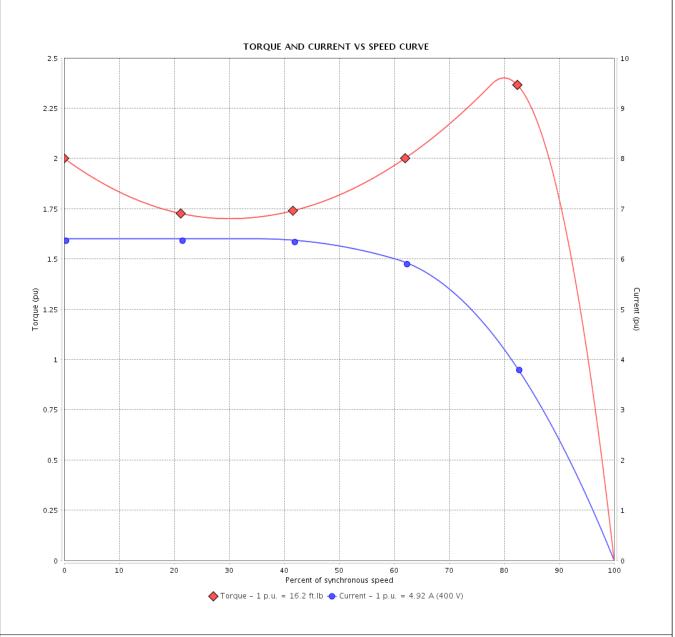
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12757940

Catalog #: 00312ET3E213JP-W22



Performance : 400 V 50 Hz 6P IE4 Rated current : 4.92 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 16.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 970 rpm Design : B

Locked rotor time : 72s (cold) 40s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 21	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12757940 Catalog #: 00312ET3E213JP-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. = 16.2 ft.lb ◆ Current - 1 p.u. = 4.87 A (415 V) Performance : 415 V 50 Hz 6P IE4 Rated current : 4.87 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 16.2 ft.lb : F : 220 % Locked rotor torque Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Locked rotor time : 72s (cold) 40s (hot)

Rev. Changes Summary Performed Checked Date

Performed by
Checked by
Date 14/04/2022 Page Revision

This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage



Customer :

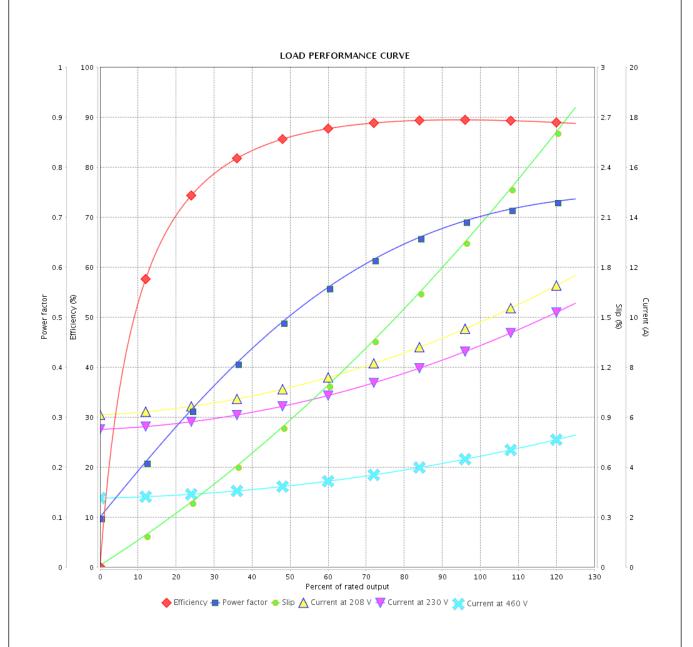
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00312ET3E213JP-W22

12757940

6/21



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.83/4.41 A : 7.0 : 13.4 ft.lb : 200 % : 280 % : 1175 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.20 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer

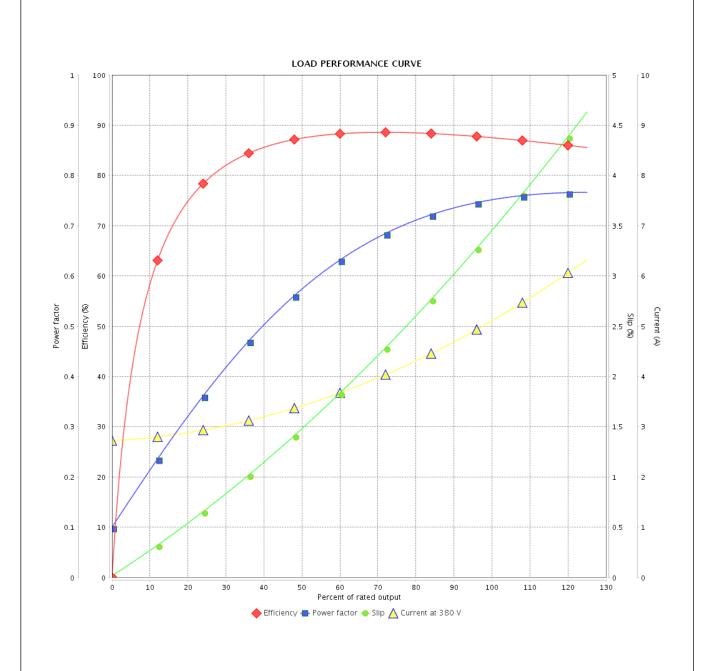
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00312ET3E213JP-W22

12757940

7/21



Performance	: 380 V 50 Hz 6P IE4				
Rated current	: 5.09 A	Moment of ine	ertia (J)	: 1.20 sq.ft.lb	
LRC	: 5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 16.3 ft.lb	Insulation class	SS	: F	
Locked rotor torque	: 170 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 210 %			: 80 K	
Rated speed	: 965 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- F

Phase

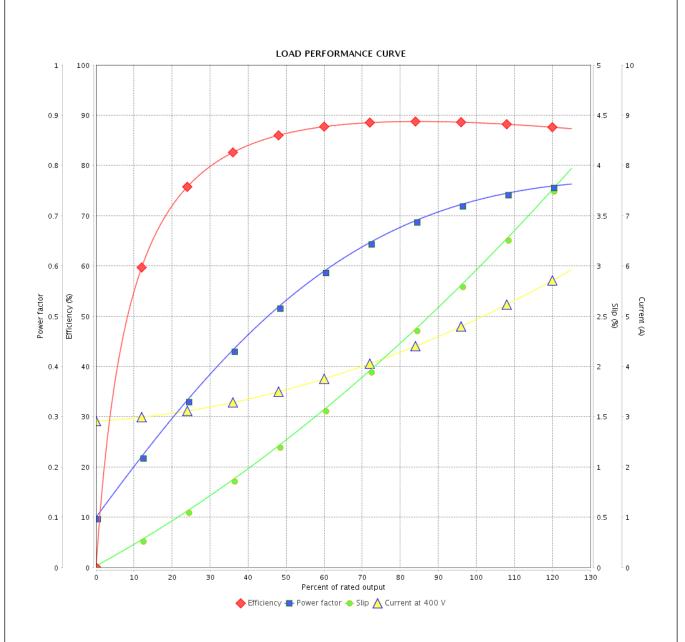
Product code: 12757940

Catalog #: 00312ET3E213JP-W22

Page

8 / 21

Revision



Performance	: 400 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.92 A : 6.4 : 16.2 ft.lb : 200 % : 240 % : 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

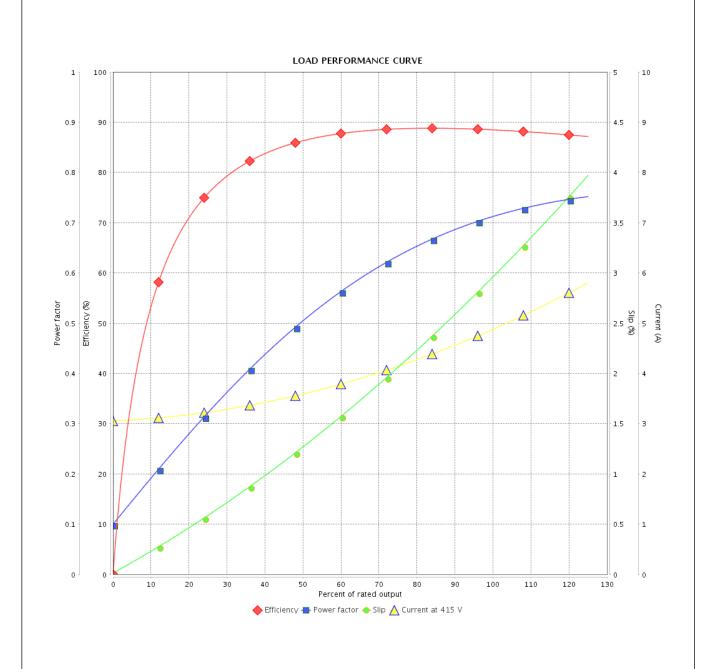
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12757940

Catalog #: 00312ET3E213JP-W22



Performance	mance : 415 V 50 Hz 6P IE4					
Rated current	: 4	.87 A	Moment o	f inertia (J)	: 1.20 sq.ft.lb	
LRC	: 6	.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	6.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	Temperature rise Design		: 80 K		
Rated speed	: 9			: B		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				9 / 21	

Three Phase Induction Motor - Squirrel Cage

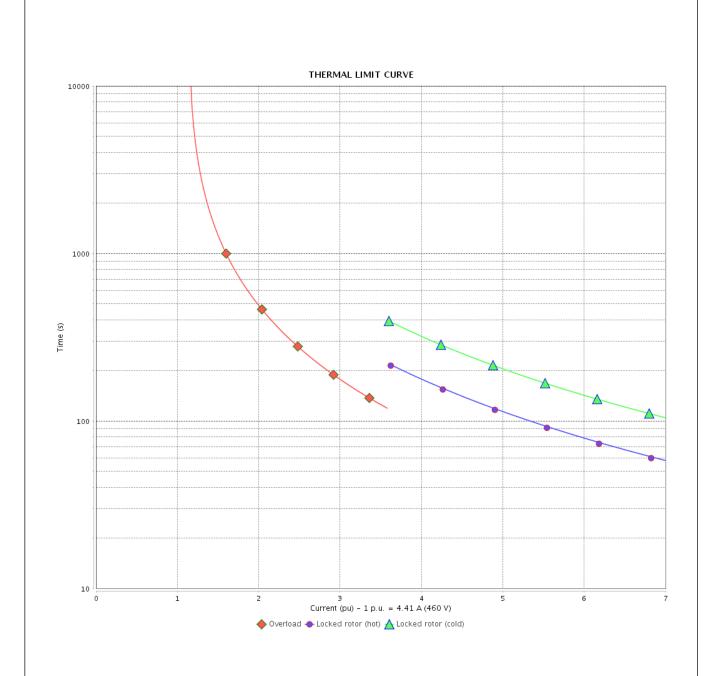


Customer	:					
Product line	: NE Pha	:MA Premium Efficiency se		Product code :	12757940 00312ET3E2	13JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		% %	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.20 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	C	hanges Summary		Performed	Checked	Date
Performed by Checked by	4/04/0022				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by			,		1
Checked by				Page	Revision
Date	14/04/2022			11 / 21	

Three Phase Induction Motor - Squirrel Cage

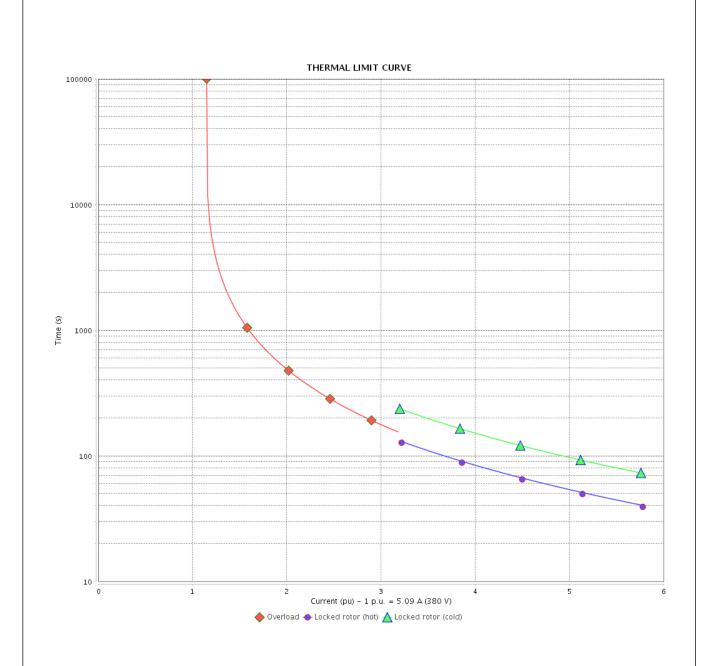


Customer	:					
Product line		NEMA Premium Efficiency nase		Product code :	12757940 00312ET3E2 ²	3JP-W22
Performance	. 38	80 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 5. : 16 : 17 e : 2	09 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 1.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	14/04/0005				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			13 / 21	

Three Phase Induction Motor - Squirrel Cage

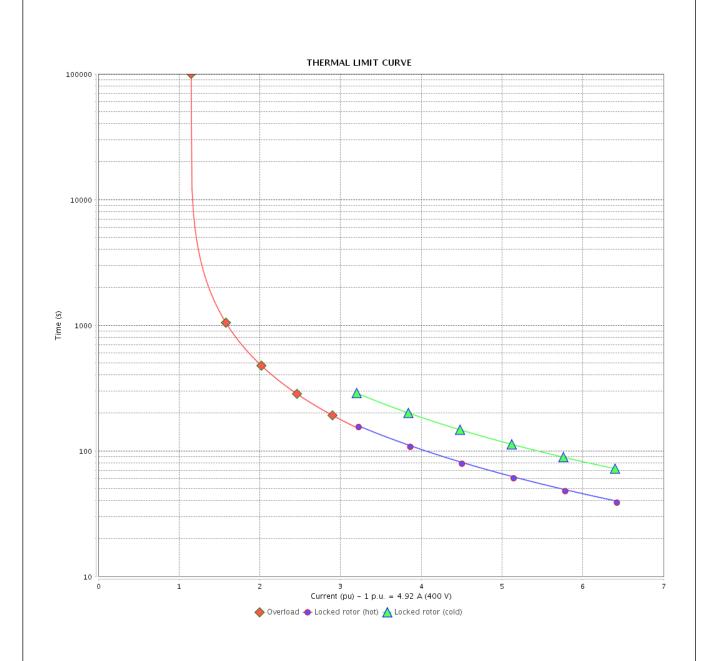


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	12757940 00312ET3E21	3JP-W22
Denfermen		400 V 50 H= 0D IE4				
Performance Rated current		400 V 50 Hz 6P IE4 4.92 A	Moment o	f inertia (J)	: 1.20 sq.ft.lb	
LRC Rated torque	:	6.4 16.2 ft.lb	Duty cycle	;	: Cont.(S1) : F	
Locked rotor tord	que :	200 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		240 % 970 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant	t					
Cooling constant	t		1			
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				14 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			15 / 21	

Three Phase Induction Motor - Squirrel Cage

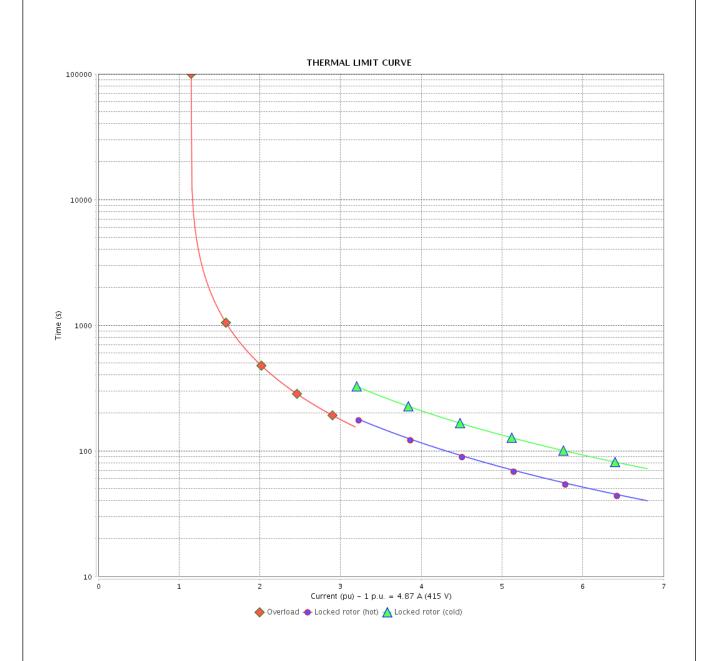


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12757940 00312ET3E2 ²	3.IP-W22
					0001221022	
Performance		: 415 V 50 Hz 6P IE4				
Rated current LRC		: 4.87 A : 6.8	Moment of Duty cycle	of inertia (J)	: 1.20 sq.ft.lb : Cont.(S1)	
Rated torque		: 16.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 270 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 970 rpm	Design	uro 1100	: B	
Heating constan						
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				16 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

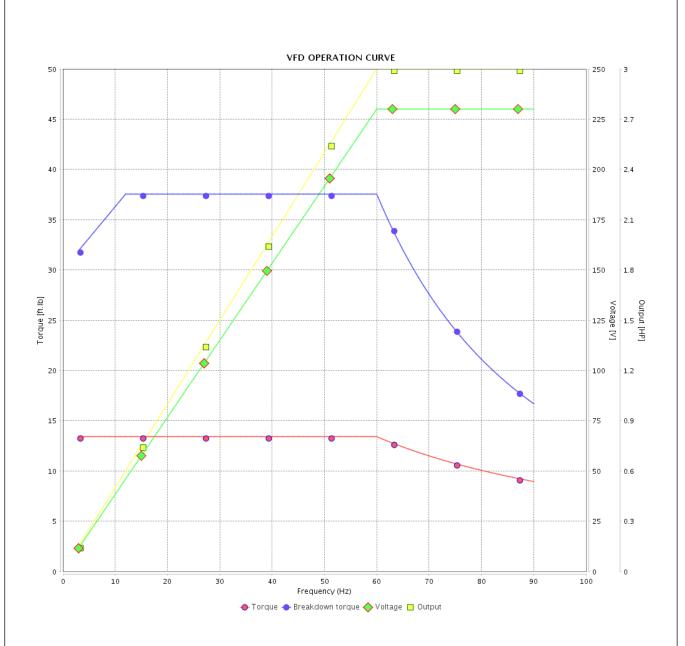
Product code: 12757940

Catalog #: 00312ET3E213JP-W22

Page

18 / 21

Revision



Performance : 230/460 V 60 Hz 6P Rated current : 8.83/4.41 A Moment of inertia (J) : 1.20 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.0 : 13.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

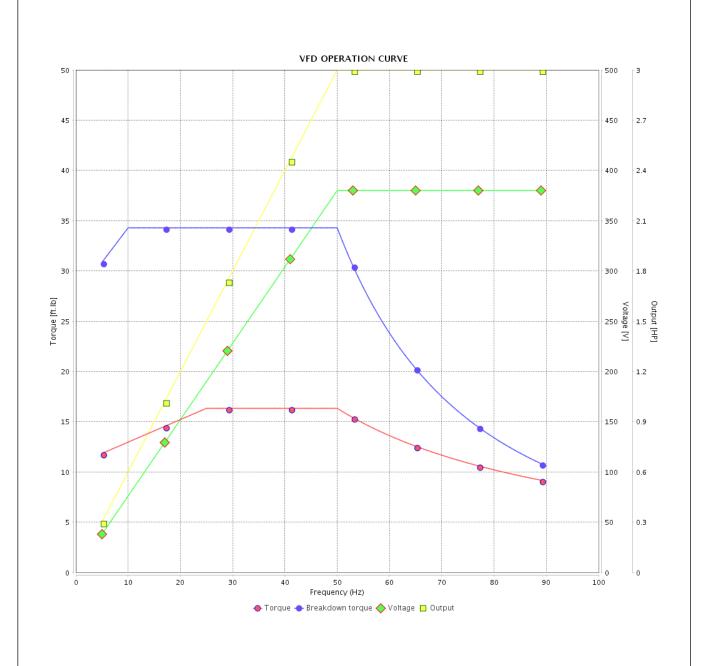


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12757940

Phase

Catalog #: 00312ET3E213JP-W22



Performance	: 38	80 V 50 Hz 6P IE4				
Rated current				nt of inertia (J) : 1.20 sq.ft.lb		
LRC	: 5.	.8 6.3 ft.lb	Duty cycle		: Cont.(S1) : F	
Rated torque Locked rotor torqu		70 %			. r : 1.00	
Breakdown torque : 210 %		10 %	Temperati	Temperature rise		
Rated speed	: 90	65 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
		-			_	
Checked by					Page	Revision
Date	14/04/2022				19 / 21	

Three Phase Induction Motor - Squirrel Cage



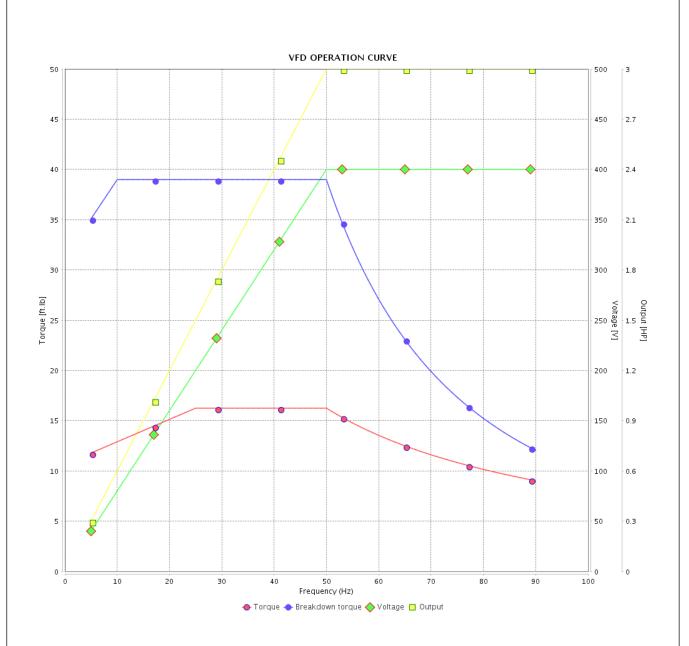
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12757940

Catalog #: 00312ET3E213JP-W22



Performance : 400 V 50 Hz 6P IE4 : 4.92 A Moment of inertia (J) : 1.20 sq.ft.lb Rated current **LRC** : 6.4 Duty cycle : Cont.(S1) : 16.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 970 rpm Design : B D ----Changes Summary Ob - - 1 - - - 1

Rev.		Changes Summary	Performed	Спескеа	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			20 / 21	

Three Phase Induction Motor - Squirrel Cage



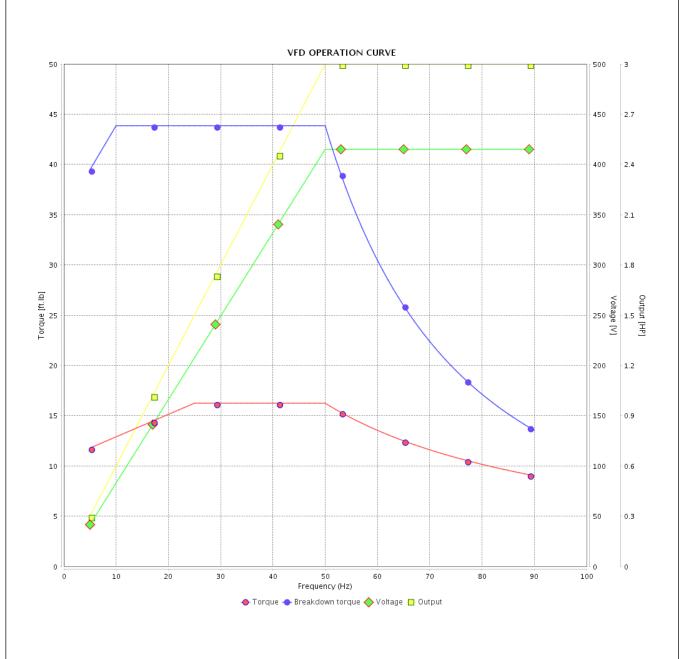
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00312ET3E213JP-W22

12757940



Performance	:	: 415 V 50 Hz 6P IE4				
Rated current	:	4.87 A	Moment o	f inertia (J)	: 1.20 sq.ft.lb	
LRC	:	6.8	Duty cycle)	: Cont.(S1)	
Rated torque	:	16.2 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	220 %	Service fa	ctor	: 1.00	
Breakdown torque		270 %	Temperature rise		: 80 K	
Rated speed	:	970 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				21 / 21	

