DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting High Efficiency Product code : 13981165

Three-Phase

Catalog # : .1812EP3EAL71-W22

Frame : 71 Cooling method : IC411 - TEFC

Insulation class : F Mounting : B3L(E)
Duty cycle : S1 Rotation¹ : Both (C

Duty cycle : 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 : 9.3 kg
Protection degree : IP55 Moment of inertia (J) : 0.0008 kgm²

Design : N Output [HP] 0.25 0.25 0.25 0.25 Poles 6 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 1.54/0.772 0.787 0.824 0.881 L. R. Amperes [A] 5.40/2.70 2.75 2.88 3.08 LRC [A] 3.5 3.5 3.5 3.5 No load current [A] 1.40/0.700 0.650 0.725 0.800 Rated speed [RPM] 1100 880 890 900 Slip [%] 8.33 12.00 11.00 10.00 Rated torque [kgfm] 0.165 0.206 0.204 0.202
Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 1.54/0.772 0.787 0.824 0.881 L. R. Amperes [A] 5.40/2.70 2.75 2.88 3.08 LRC [A] 3.5 3.5 3.5 3.5 No load current [A] 1.40/0.700 0.650 0.725 0.800 Rated speed [RPM] 1100 880 890 900 Slip [%] 8.33 12.00 11.00 10.00 Rated torque [kgfm] 0.165 0.206 0.204 0.202
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LRC [A] 3.5 3.5 3.5 No load current [A] 1.40/0.700 0.650 0.725 0.800 Rated speed [RPM] 1100 880 890 900 Slip [%] 8.33 12.00 11.00 10.00 Rated torque [kgfm] 0.165 0.206 0.204 0.202
No load current [A] 1.40/0.700 0.650 0.725 0.800 Rated speed [RPM] 1100 880 890 900 Slip [%] 8.33 12.00 11.00 10.00 Rated torque [kgfm] 0.165 0.206 0.204 0.202
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Slip [%] 8.33 12.00 11.00 10.00 Rated torque [kgfm] 0.165 0.206 0.204 0.202
Rated torque [kgfm] 0.165 0.206 0.204 0.202
1 a alco di reterritarra (0/1) 200 240 240 240 240 240 240 240 240 240
Locked rotor torque [%] 280 210 240 260
Breakdown torque [%] 280 220 240 260
Service factor 1.15 1.00 1.00 1.00
Temperature rise 80 K 80 K 80 K
Locked rotor time 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot)
Noise level ² 47.0 dB(A) 43.0 dB(A) 43.0 dB(A) 43.0 dB(A)
25% 46.1 51.0 47.5 44.1
Efficiency (%) 50% 49.0 53.0 50.0 47.0
75% 57.0 59.0 50.5 54.0
100% 61.0 61.0 59.5 58.0
25% 0.18 0.21 0.20 0.18
Power Factor 50% 0.31 0.37 0.35 0.32
75% 0.40 0.47 0.44 0.41
100% 0.48 0.57 0.53 0.49

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

Bearing type : 6202 ZZ 6202 ZZ Max. traction : 14 kgf Sealing : Oil Seal Oil Seal Max. compression : 23 kgf

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex 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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Three Phase Induction Motor - Squirrel Cage



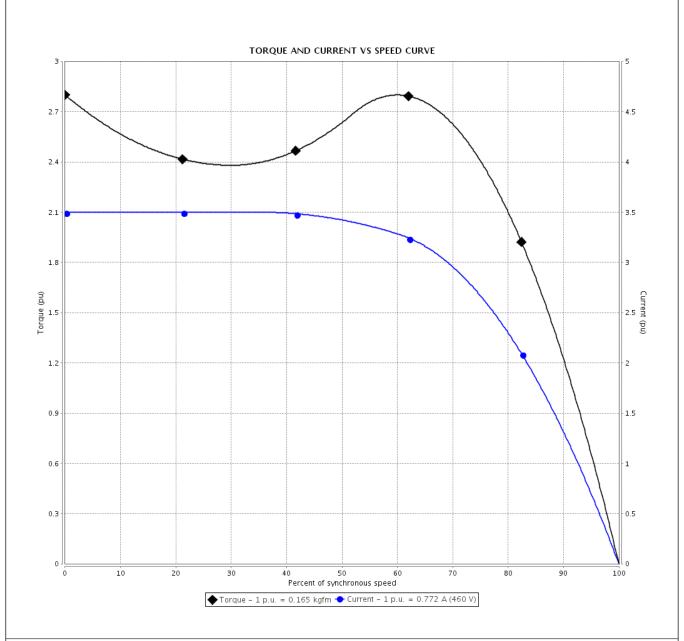
Customer :

Product line : Multimounting High Efficiency

Three-Phase

Product code: 13981165

Catalog #: .1812EP3EAL71-W22



Performance : 230/460 V 60 Hz 6P Rated current : 1.54/0.772 A Moment of inertia (J) : 0.0008 kgm² **LRC** : 3.5 Duty cycle : S1 : F : 0.165 kgfm Insulation class Rated torque Service factor Locked rotor torque : 280 % : 1.15 : 80 K Breakdown torque : 280 % Temperature rise Rated speed : 1100 rpm Design : N

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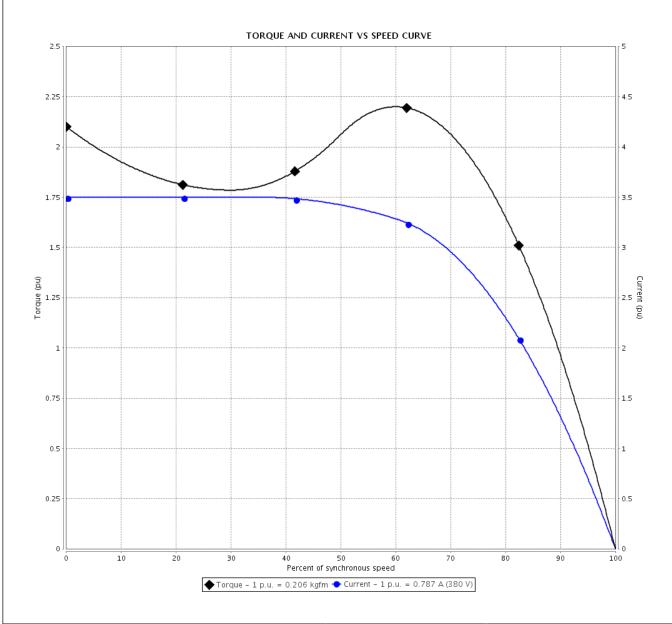
Customer :

Product line : Multimounting High Efficiency Pro

Three-Phase

Product code: 13981165

Catalog #: .1812EP3EAL71-W22



Performance	: 380 V 50 Hz 6P IE2			
Rated current	: 0.787 A	Moment of inertia (J)	: 0.0008 kgm²	
LRC	: 3.5	Duty cycle	: S1	
Rated torque	: 0.206 kgfm	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 880 rpm	Design	: N	

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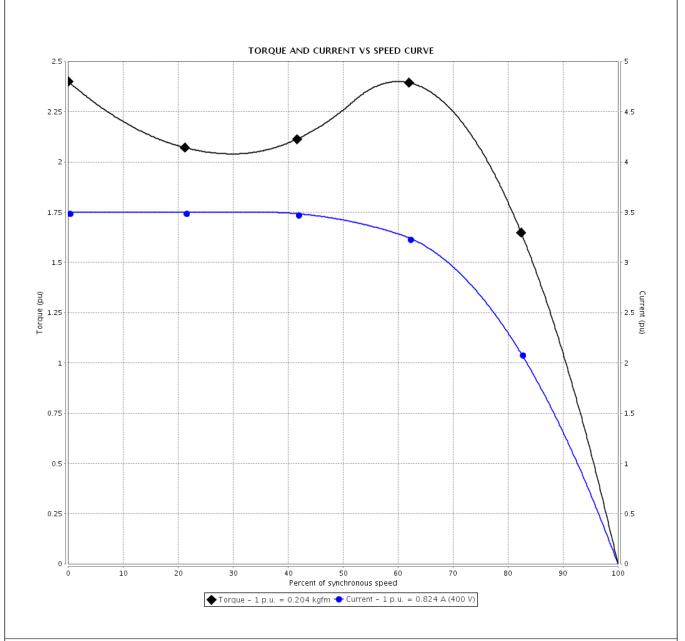
Customer :

Product line : Multimounting High Efficiency

Three-Phase

Product code: 13981165

Catalog # : .1812EP3EAL71-W22



: 400 V 50 Hz 6P IE2 Performance Rated current : 0.824 A Moment of inertia (J) : 0.0008 kgm² **LRC** : 3.5 Duty cycle : S1 : 0.204 kgfm Insulation class : F Rated torque : 240 % Service factor Locked rotor torque : 1.00 : 80 K Breakdown torque : 240 % Temperature rise Rated speed : 890 rpm Design : N

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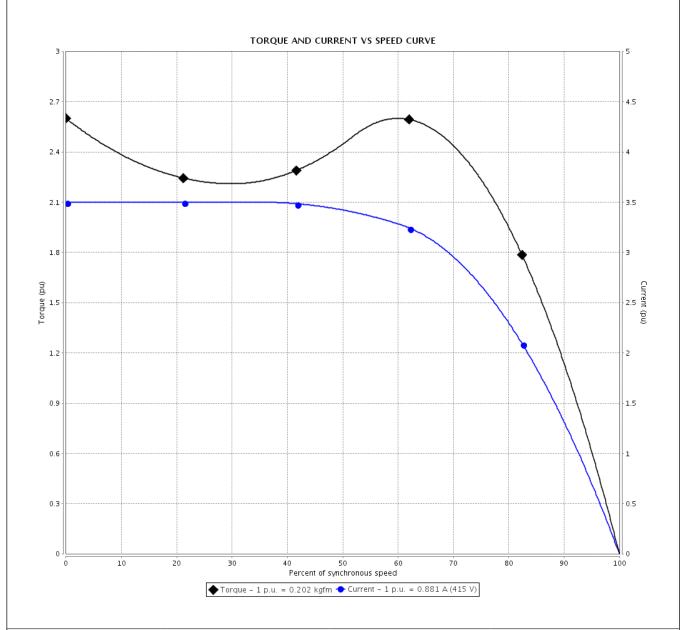


Customer :

Product line : Multimounting High Efficiency Product code : 13981165

Three-Phase

Catalog # : .1812EP3EAL71-W22



Performance	: 415 V 50 Hz 6P IE2			
Rated current	: 0.881 A	Moment of inertia (J)	: 0.0008 kgm²	
LRC	: 3.5	Duty cycle	: S1	
Rated torque	: 0.202 kgfm	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 900 rpm	Design	: N	
Looked reter time	: 27a (aald) 15a (bat)			

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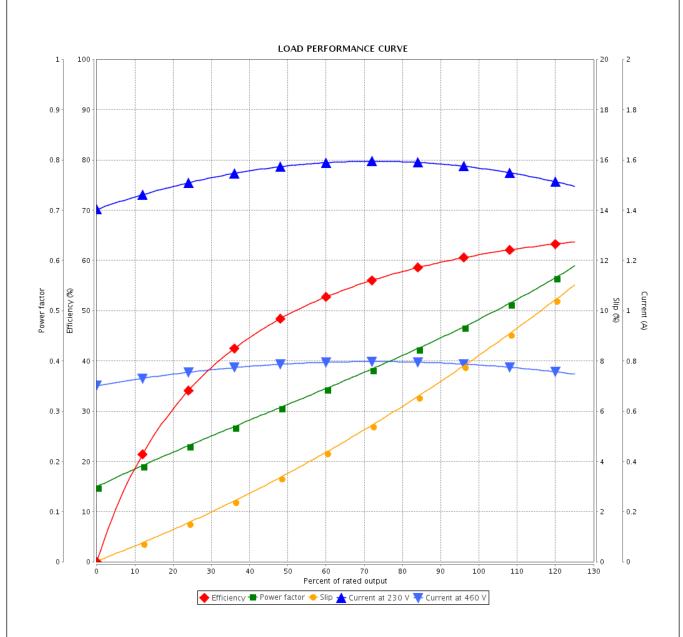
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Product line : Multimounting High Efficiency

Three-Phase

Product code: 13981165

Catalog #: .1812EP3EAL71-W22



Performance	: 23	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		54/0.772 A .5 .165 kgfm 80 % 80 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0008 kgm² : S1 : F : 1.15 : 80 K	
Rated speed	: 11	100 rpm	Design		: N	
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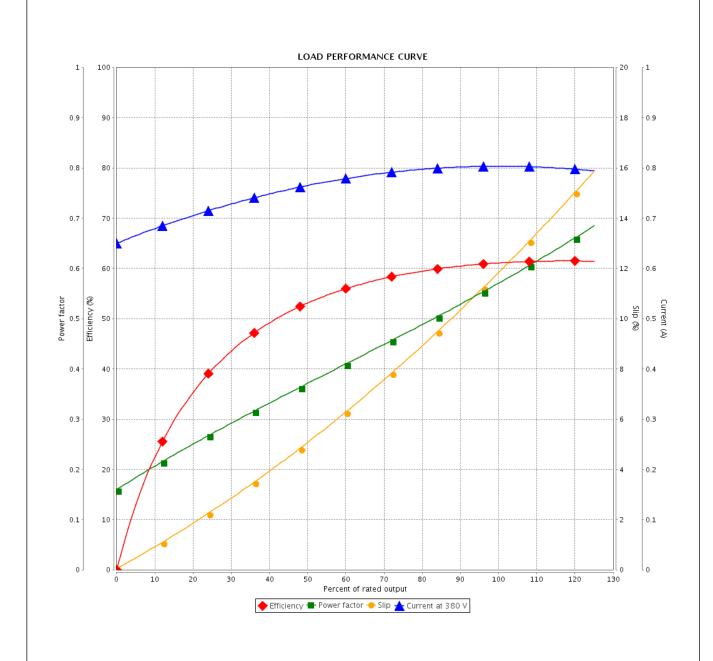
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Product line : Multimounting High Efficiency Product code :

Three-Phase

roduct code: 13981165

Catalog # : .1812EP3EAL71-W22



Performance	: 38	30 V 50 Hz 6P IE2				
Rated current :		787 A	Moment of inertia (J)		: 0.0008 kgm²	
LRC : 3.		5	Duty cycle)	: S1	
Rated torque : 0		206 kgfm	• •		: F	
Locked rotor torqu	ue : 2′	10 %	Service fa	ctor	: 1.00	
•		20 %	Temperature rise		: 80 K	
Rated speed	: 88	30 rpm Design			: N	
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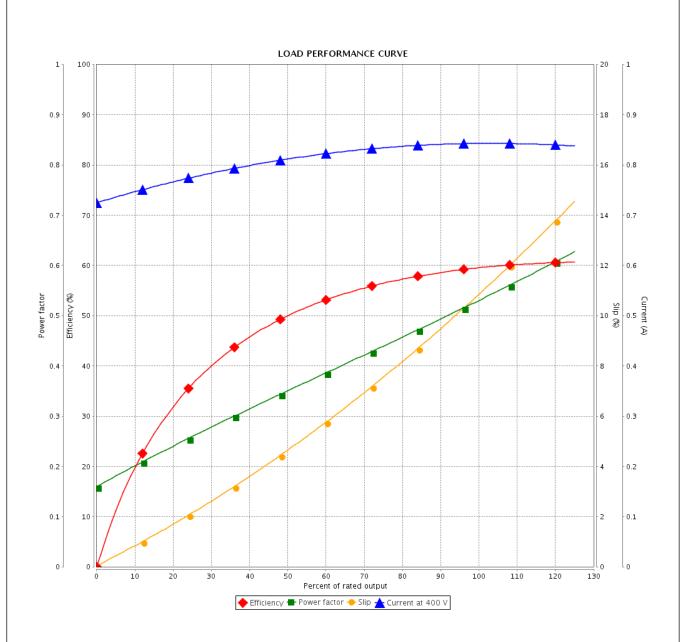
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Product line : Multimounting High Efficiency Product code :

Three-Phase

Product code: 13981165

Catalog #: .1812EP3EAL71-W22



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque		.824 A	Moment of inertia (J)		: 0.0008 kgm²	
		.5	Duty cycle		: S1	
		.204 kgfm		Insulation class		
		40 %	Service fa	actor	: 1.00	
Breakdown torque		40 %	Temperat	Temperature rise		
Rated speed	: 8) rpm Design		: N		
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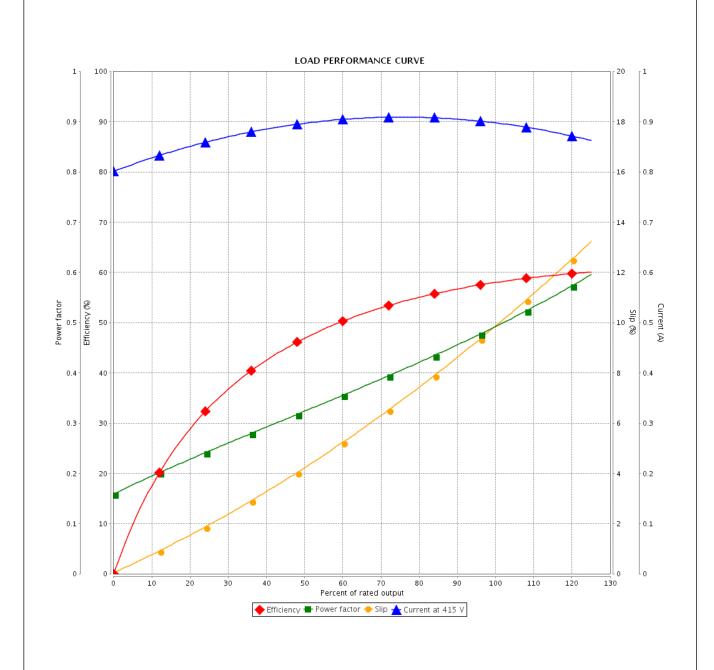
Customer

Product line : Multimounting High Efficiency Product code :

Three-Phase

Product code : 13981165

Catalog #:



Performance : 415 V 50 Hz 6P IE2	
Rated current : 0.881 A Moment of inertia (J) : 0.0	008 kgm²
LRC : 3.5 Duty cycle : S1	-
Rated torque : 0.202 kgfm Insulation class : F	
Locked rotor torque : 260 % Service factor : 1.0	1
Breakdown torque : 260 % Temperature rise : 80	
Rated speed : 900 rpm Design : N	
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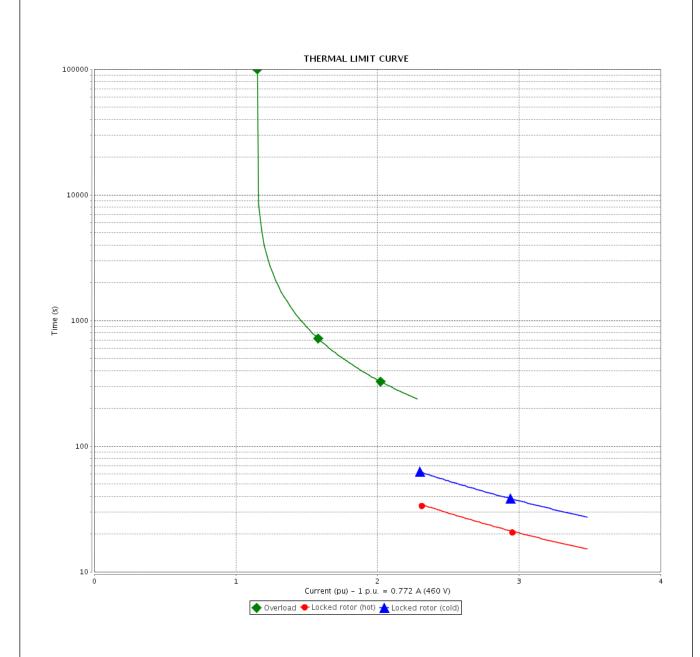


Customer	:					
Product line	: N Ti	Multimounting High Efficiend nree-Phase	-	Product code :	13981165 .1812EP3EAL	71 ₋ W22
				Salaioy # .	.101ZEF3EAL	.7 1-VVZZ
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constan	: 1. : 3. : 0. que : 28 ue : 28 : 11	30/460 V 60 Hz 6P 54/0.772 A 5 165 kgfm 30 % 00 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 0.0008 kgm ² : S1 : F : 1.15 : 80 K : N	
Cooling constant		Changes Summary		Performed	Checked	Date
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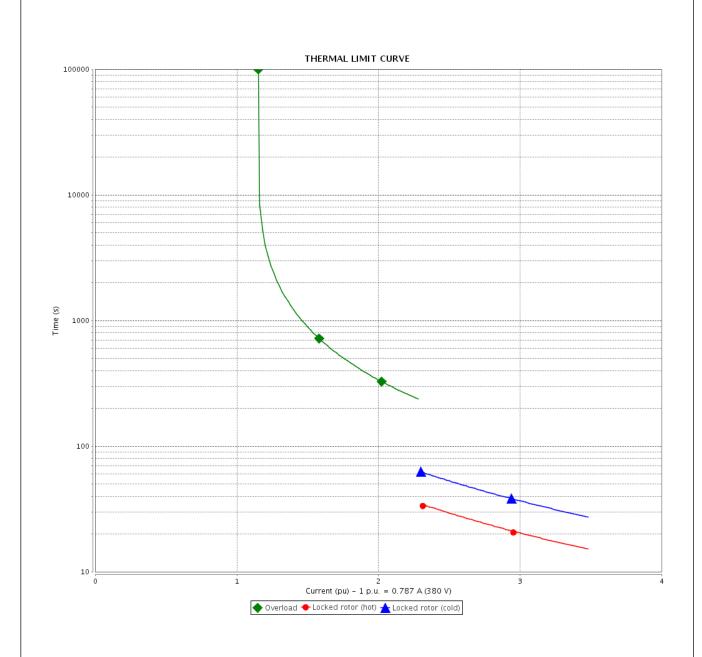


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Product line	:1	Multimounting High Efficien	cy I	Product code :	13981165	
	TI	nree-Phase	(Catalog # :	.1812EP3EA	L71-W22
Performance	· 3	80 V 50 Hz 6P IE2				
Rated current		787 A	Moment of	f inertia (J)	: 0.0008 kgm²	
LRC	: 3.	5	Duty cycle		: S1 : F	
Rated torque Locked rotor torque		206 kgfm 10 %	Insulation Service fa		: F : 1.00	
Breakdown torque	e : 22	20 %	Temperatu		: 80 K	
Rated speed	: 88	30 rpm	Design		: N	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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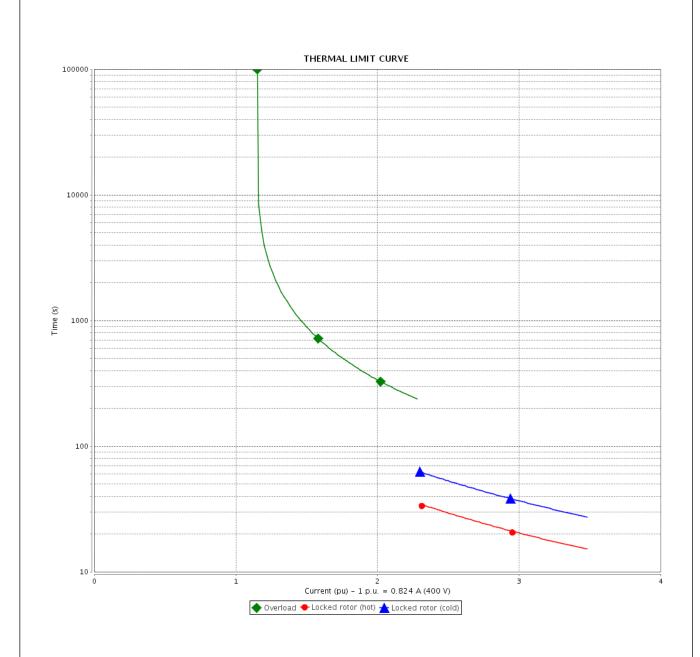


Customer	:				
Product line	: Multimounting High Efficien Three-Phase		Product code :	13981165 .1812EP3EA	L71-W22
			Catalog # .	.1012EF3EA	L/ I-wzz
Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 0.824 A : 3.5 : 0.204 kgfm e : 240 % : 240 % : 890 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	
Heating constant					
Cooling constant	Changes Summan		Dorformad	Checked	Doto
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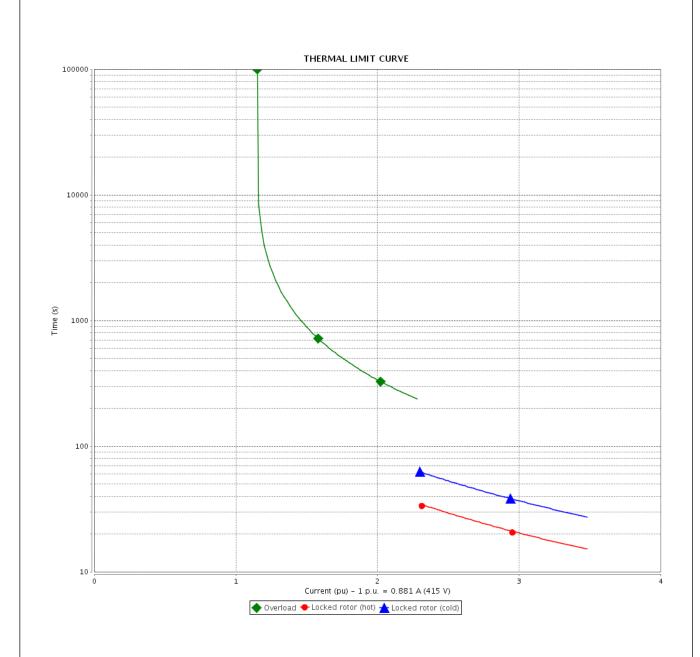


Customer	:					
Product line	: 1	Multimounting High Efficien	icy	Product code :	13981165	
	TI	nree-Phase		Catalog # :	.1812EP3EA	I 71-\W22
			· · · · · · · · · · · · · · · · · · ·		.101221 324	L/ 1-VVZZ
Performance		15 V 50 Hz 6P IE2				
Rated current LRC	: 0. : 3.	881 A 5	Moment of Duty cycle	f inertia (J)	: 0.0008 kgm² : S1	
Rated torque	: 0.	202 kgfm	Insulation	class	: F	
Locked rotor torque Breakdown torque		60 % 60 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		00 rpm	Design	110 1130	: N	
Heating constant						
Cooling constant						
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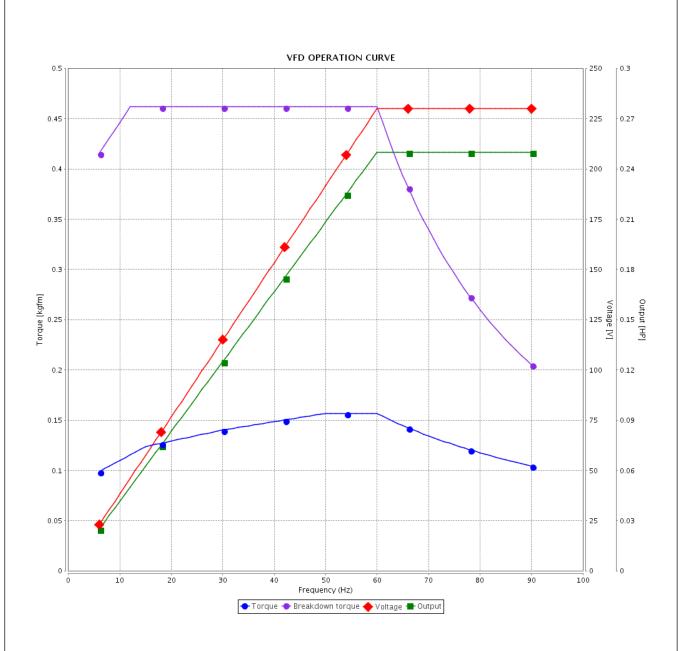
Customer :

Product line : Multimounting High Efficiency Product co

Three-Phase

Product code: 13981165

Catalog # : .1812EP3EAL71-W22



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.54/0.772 A : 3.5 : 0.165 kgfm : 280 % : 280 % : 1100 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0008 kgm ² : S1 : F : 1.15 : 80 K : N	2
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Three Phase Induction Motor - Squirrel Cage



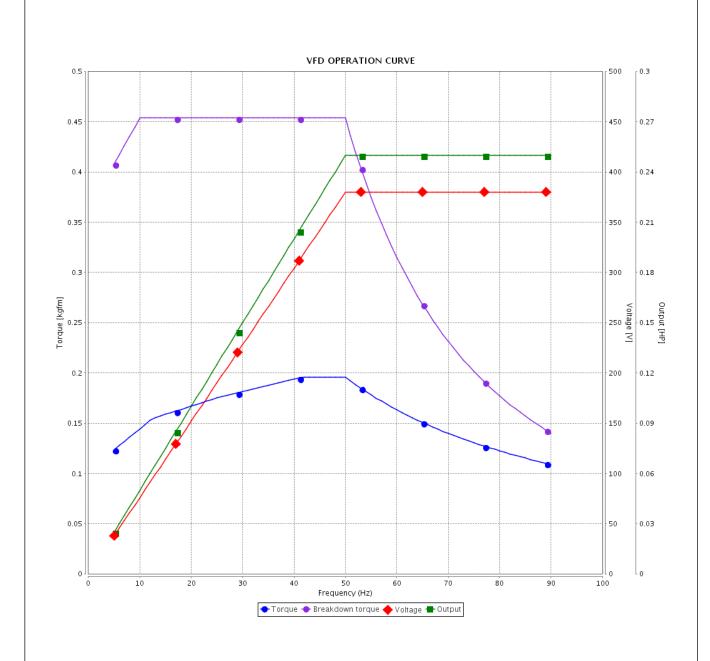
Customer

Product line : Multimounting High Efficiency Product code : 13

Three-Phase

roduct code : 13981165

Catalog # : .1812EP3EAL71-W22



Performance		: 380 V 50 Hz 6P IE2				
Rated current		: 0.787 A Moment		Moment of inertia (J)		2
LRC		: 3.5	Duty cycle	;	: S1	
Rated torque		: 0.206 kgfm	Insulation	class	: F	
Locked rotor torqu	ue	: 210 %	Service fa	ctor	: 1.00	
Breakdown torque	е	: 220 %	Temperati	ıre rise	: 80 K	
Rated speed		: 880 rpm	Design		: N	
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Three Phase Induction Motor - Squirrel Cage



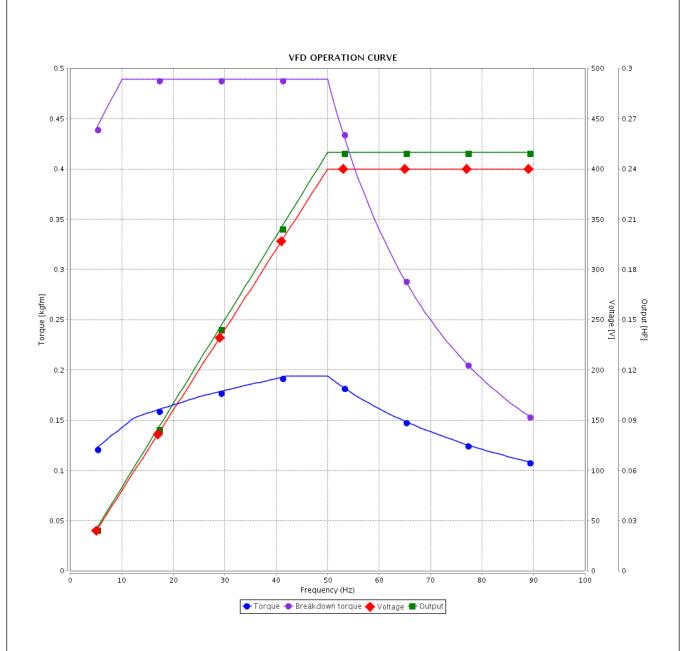
Customer :

Product line : Multimounting High Efficiency

Three-Phase

Product code: 13981165

Catalog # : .1812EP3EAL71-W22



Performance	: 400 V 50 Hz 6P IE	2			
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 3.5 Duty cycle orque : 0.204 kgfm Insulation class rotor torque : 240 % Service factor own torque : 240 % Temperature rise		: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N		
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Three Phase Induction Motor - Squirrel Cage



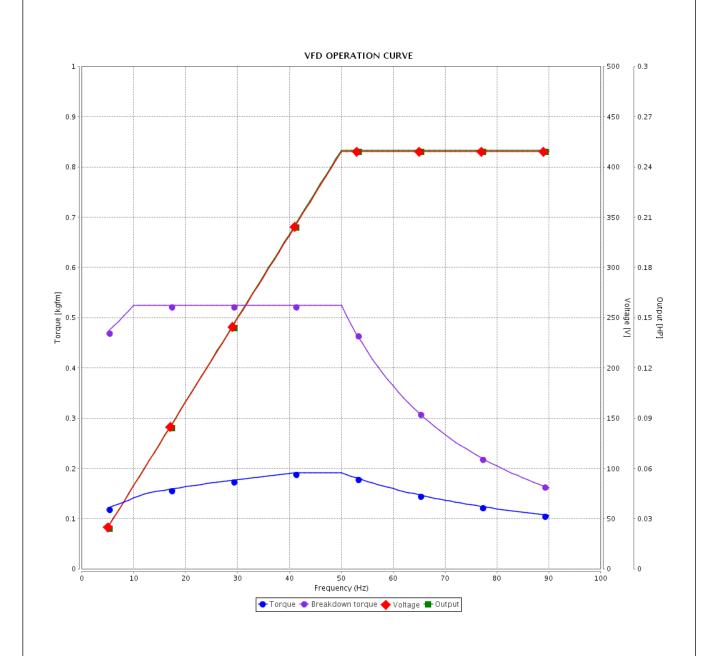
Customer

Product line : Multimounting High Efficiency P

Three-Phase

Product code: 13981165

Catalog #: .1812EP3EAL71-W22



Performance	: 4	115 V 50 Hz 6P IE2				
Rated current	ated current : 0.881 A		Moment o	Moment of inertia (J)		
LRC	: 3	3.5	Duty cycle	;	: S1	
Rated torque	: ().202 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 2	260 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	260 %	Temperature rise		: 80 K	
Rated speed	: 9	900 rpm	Design		: N	
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