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 (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

Altitude : 1000 m.a.s.l. Approx. weight³ : 9.3 kg

Protection degree : IP55 Moment of inertia (J) : 0.0008 kgm²

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Design		: N				
Output [HP]		0.25	0.25	0.25	0.25	
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	1]	1100	880	890	900	
Slip [%]		8.33	12.00	11.00	10.00	
Rated torque [kgfn	ո]	0.165	0.206	0.204	0.202	
Locked rotor torqu		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	80 K	
Locked rotor time		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	
Linciency (70)	75%	57.0	59.0	56.5	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	
1 OWELL ACIO	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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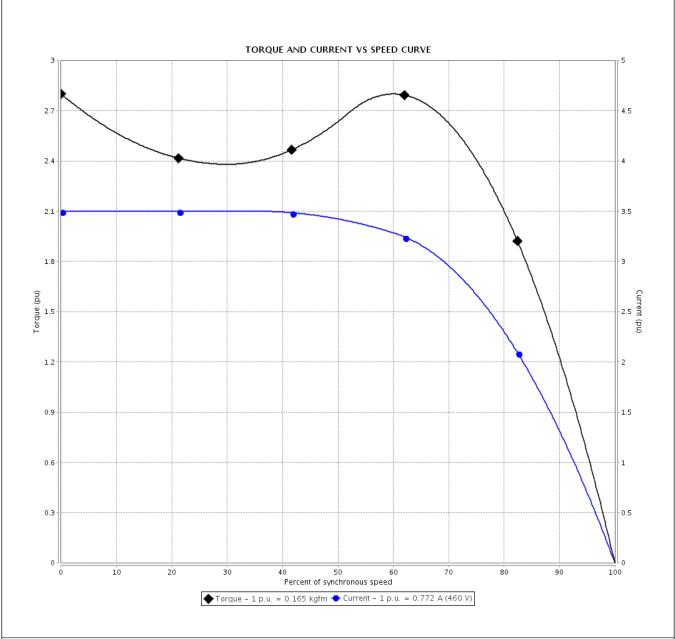
Customer :

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 Insulation class : F Rated torque : 0.165 kgfm Locked rotor torque : 280 % Service factor : 1.15 : 80 K Breakdown torque : 280 % Temperature rise Rated speed : 1100 rpm Design : N

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

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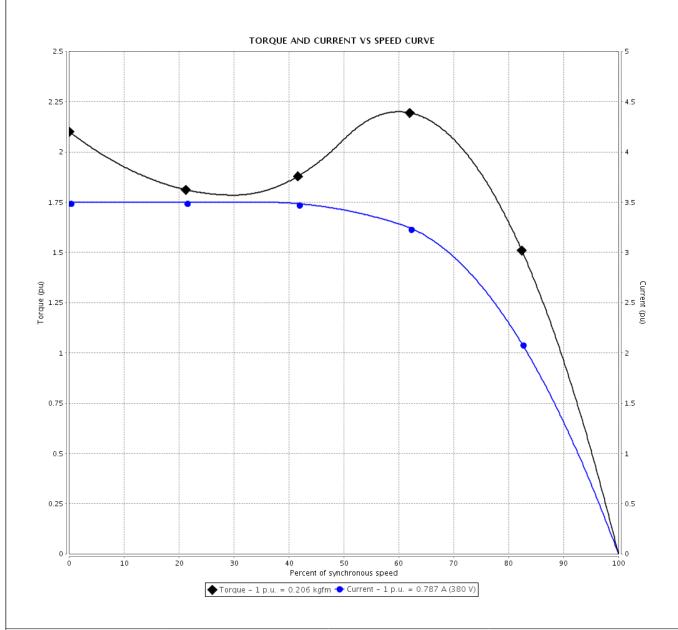
Customer :

Product line : Multimounting High Efficiency

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	
Looked roter time	: 27a (aald) 15a (bat)			

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

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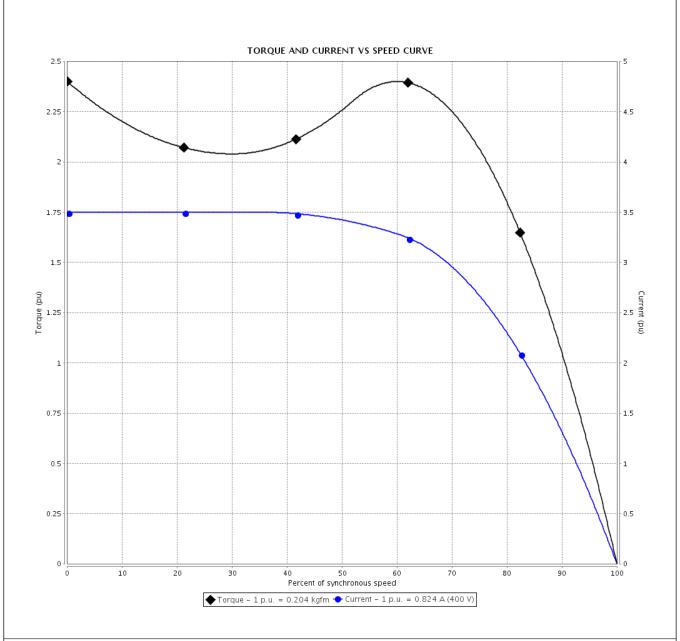
Customer :

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 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 890 rpm Design : N

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

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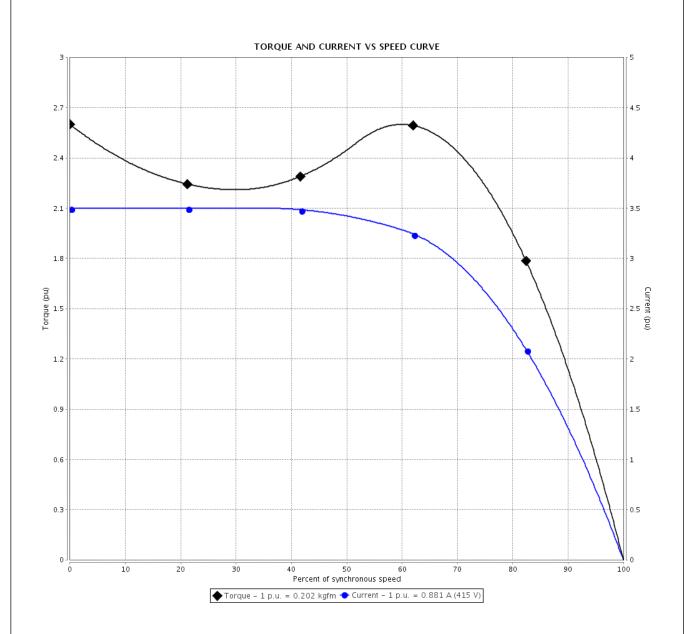


Customer

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

LOCKCU TOTOL TITLE	. 2	73 (cold) 103 (flot)			
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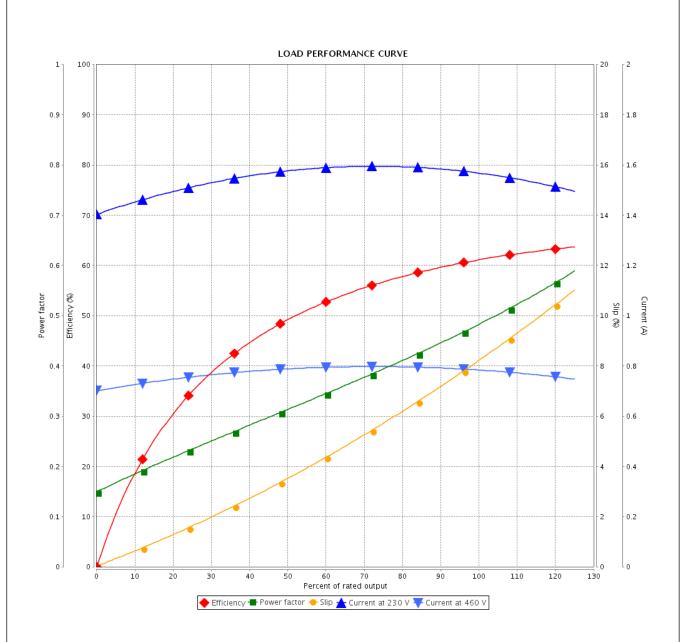
Customer :

Product line : Multimounting High Efficiency Product code :

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 kgm² : S1 : F : 1.15 : 80 K : N	
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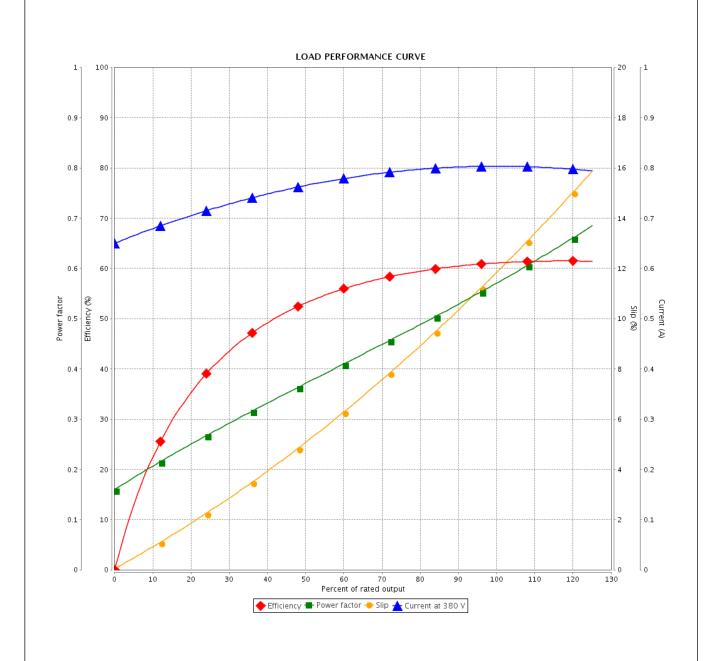
Customer

Product line : Multimounting High Efficiency Product

Three-Phase

Product code: 13981165

Catalog # : .1812EP3EAL71-W22



Performance	: 3	80 V 50 Hz 6P IE2				
Rated current	: O).787 A	Moment o	f inertia (J)	: 0.0008 kgm²	
LRC	: 3	3.5	Duty cycle	;	: S1	
Rated torque	: 0).206 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque		20 %	Temperati	ıre rise	: 80 K	
Rated speed	: 8	80 rpm	Design		: N	
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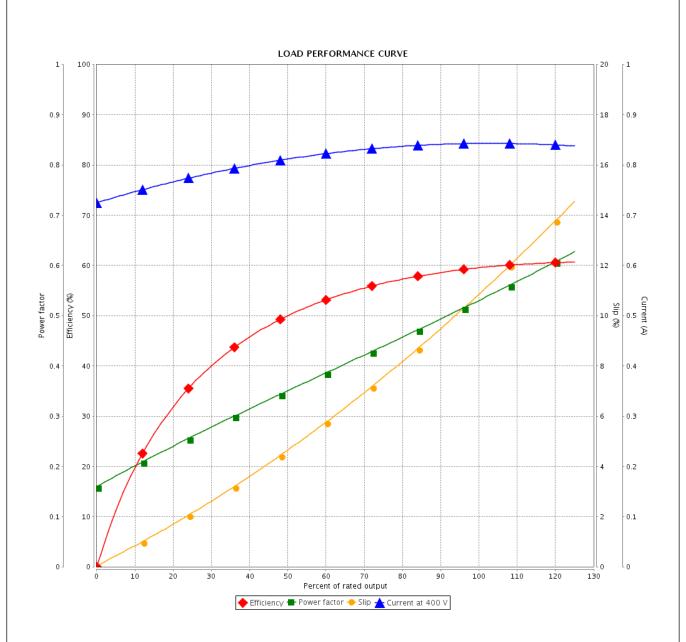
Customer :

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	: 0	: 0.824 A		of inertia (J)	: 0.0008 kgm	2
LRC	: 3	.5	Duty cycle		: S1	
Rated torque	: 0	.204 kgfm	Insulation	class	: F	
Locked rotor torg	jue : 2	40 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 2	40 %	Temperat	ure rise	: 80 K	
Rated speed	: 8	90 rpm	Design		: N	
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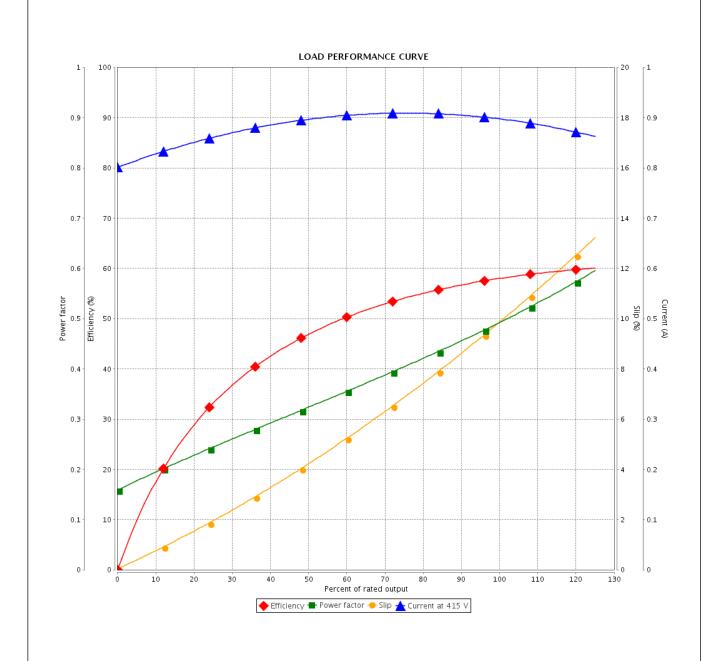
Customer :

Product line : Multimounting High Efficiency Pro

Three-Phase

Product code: 13981165

Catalog #: .1812EP3EAL71-W22



Performance	:	415 V 50 Hz 6P IE2				
Rated current	:	: 0.881 A		f inertia (J)	: 0.0008 kgm	2
LRC	:	3.5	Duty cycle	;	: S1	
Rated torque	:	0.202 kgfm	Insulation	class	: F	
Locked rotor torq	ue :	260 %	Service fa	ctor	: 1.00	
Breakdown torque		260 %	Temperat	ure rise	: 80 K	
Rated speed		900 rpm	Design		: N	
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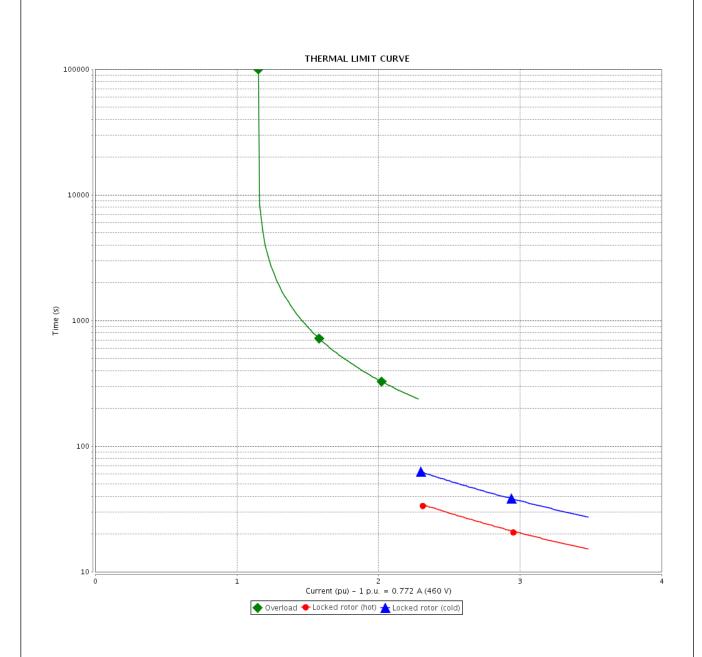


Customer	:					
Product line	:1	Multimounting High Efficien	cy l	Product code :	13981165	
	T	hree-Phase	(Catalog # :	.1812EP3EA	L71-W22
Performance	: 2:	30/460 V 60 Hz 6P				
Rated current	: 1.	54/0.772 A	Moment of	f inertia (J)	: 0.0008 kgm²	
LRC	: 3.	5	Duty cycle		: S1 : F	
Rated torque Locked rotor torque		165 kgfm 30 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 28	30 %	Temperatu		: 80 K	
Rated speed	: 1 ²	100 rpm	Design		: N	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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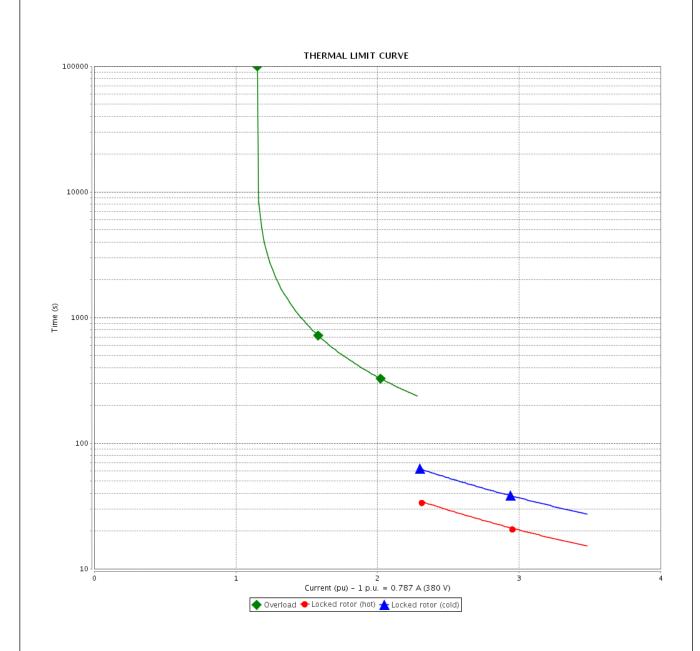


Customer	:			
Product line	: Multimounting High Efficie	ncy Product cod	de: 13981165	
	Three-Phase	Catalog # :	.1812EP3EA	AL71-W22
Performance	: 380 V 50 Hz 6P IE2			
Rated current	: 0.787 A	Moment of inertia (J)	: 0.0008 kgm ²	2
LRC Rated torque	: 3.5 : 0.206 kgfm	Duty cycle Insulation class	: S1 : F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 220 % : 880 rpm	Temperature rise Design	: 80 K : N	
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Heating constant Cooling constant				
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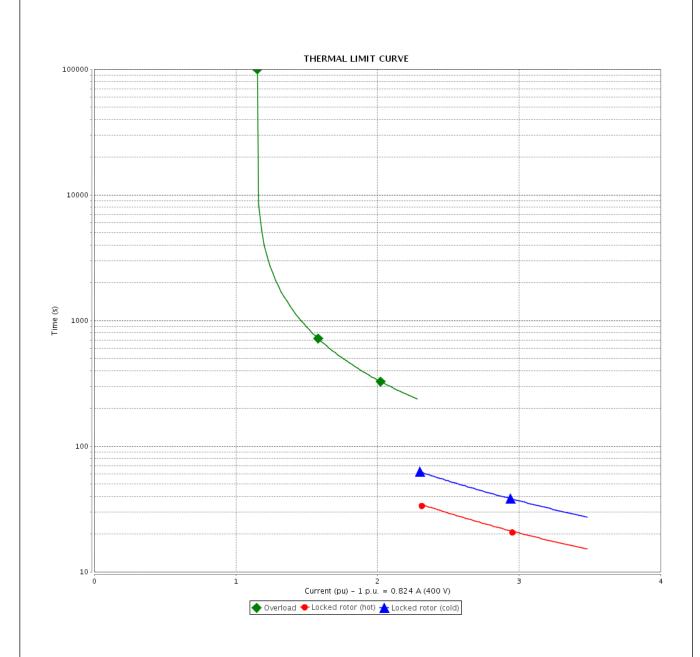


Customer	:					
Product line	: 1	Multimounting High Efficien	cy I	Product code :	13981165	
	TI	hree-Phase		Catalog # :	.1812EP3EA	I 71-\W22
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Performance		00 V 50 Hz 6P IE2	l			
Rated current LRC	: 0. : 3.	824 A 5	Moment of Duty cycle	f inertia (J)	: 0.0008 kgm² : S1	
Rated torque	: 0.	204 kgfm	Insulation	class	: F	
Locked rotor torque Breakdown torque		40 % 40 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		90 rpm	Design	110 H3C	: N	
Heating constant						
Cooling constant						
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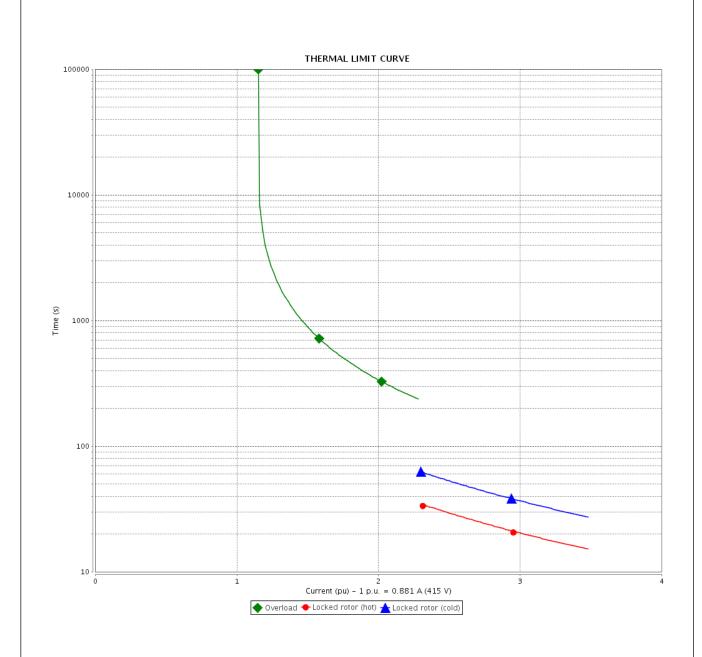


Customer	:				
Product line	: Multimounting High Efficiend	cy l	Product code :	13981165	
	Three-Phase	(Catalog # :	.1812EP3EA	.l 71 ₋ \W22
				.101221 327	AL / 1-VVZZ
Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC	: 0.881 A : 3.5	Moment of Duty cycle	finertia (J)	: 0.0008 kgm² : S1	
Rated torque	: 0.202 kgfm	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 260 % : 260 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed	: 900 rpm	Design	ire rise	: N	
Heating constant		-			
Cooling constant					
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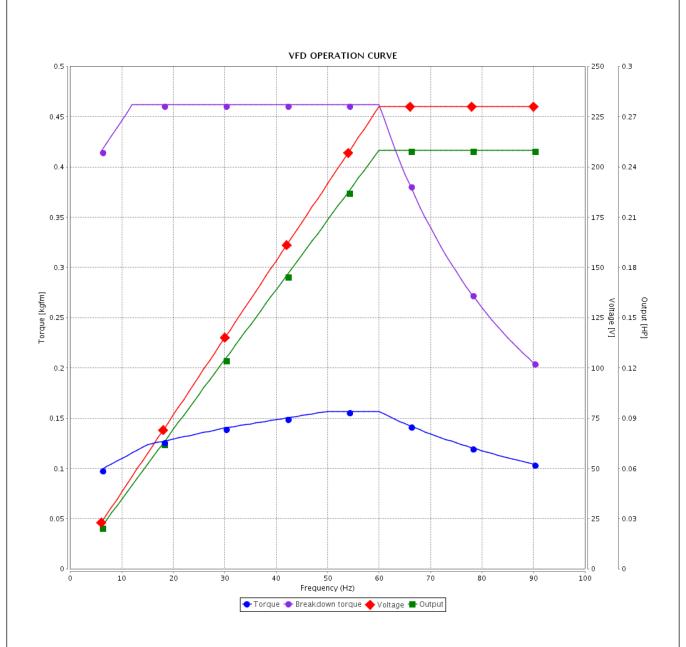
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Product line : Multimounting High Efficiency Pr

Three-Phase

Product code: 13981165

Catalog # : .1812EP3EAL71-W22



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

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Three Phase Induction Motor - Squirrel Cage



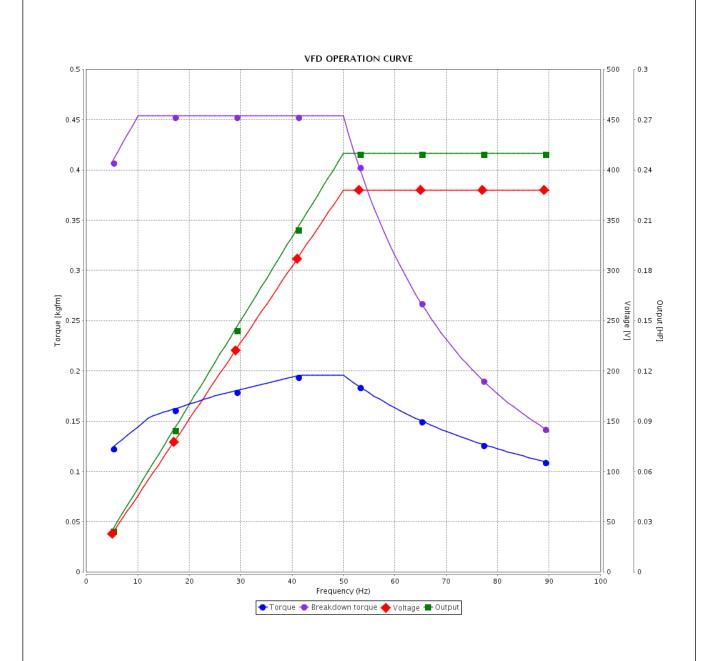
Customer

Product line : Multimounting High Efficiency Product code :

Three-Phase

roduct code : 13981165

Catalog # : .1812EP3EAL71-W22



Performance	: 3	80 V 50 Hz 6P IE2				
Rated current : 0.787 A		Moment o	Moment of inertia (J)		2	
LRC	: 3	.5	Duty cycle	` '	: S1	
Rated torque	: 0	.206 kgfm	Insulation		: F	
Locked rotor torq		10 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	20 %	Temperature rise		: 80 K	
Rated speed	•			: N		
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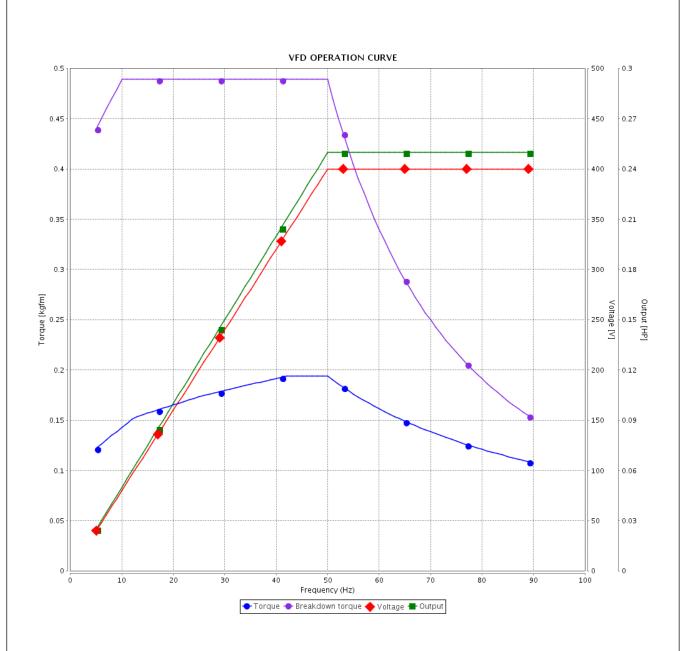
Customer :

Product line : Multimounting High Efficiency

Three-Phase

Product code: 13981165

Catalog # : .1812EP3EAL71-W22



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 : 240 % : 240 % : 890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	
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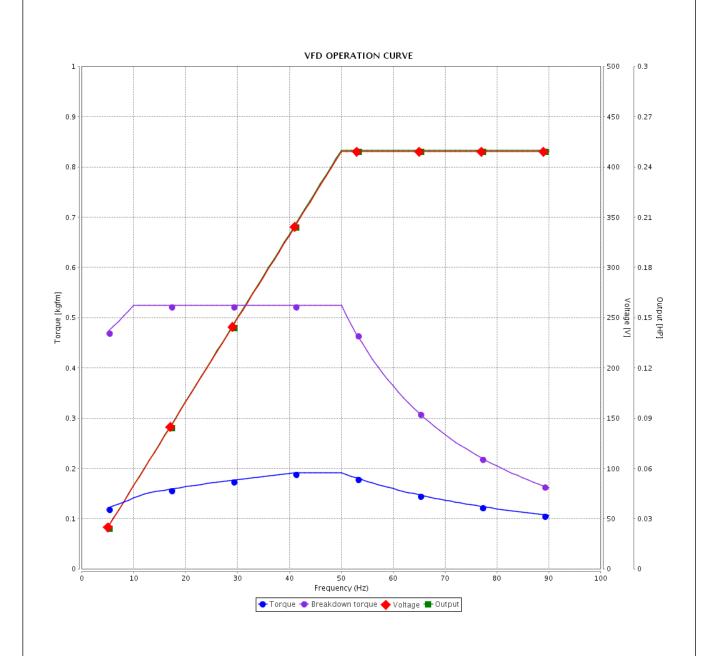
Customer

Product line : Multimounting High Efficiency Product

Three-Phase

Product code: 13981165

Catalog #: .1812EP3EAL71-W22



Performance	: 4	115 V 50 Hz 6P IE2				
Rated current	: C).881 A	Moment o	f inertia (J)	: 0.0008 kgm²	
LRC	: 3	3.5	Duty cycle)	: S1	
Rated torque	: 0).202 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 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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