

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase Product code : 14052130  
Catalog # : 00736ET3YAL132SFF-W2

Frame	: 132S	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B35L(E)
Duty cycle	: S1	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 158 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.5980 sq.ft.lb
Design	: N		

Output [HP]	10	10	10
Poles	2	2	2
Frequency [Hz]	50	50	60
Rated voltage [V]	380	415	460
Rated current [A]	14.3	13.8	12.3
L. R. Amperes [A]	122	117	119
LRC [A]	8.5	8.5	9.7
No load current [A]	4.70	5.60	4.80
Rated speed [RPM]	2925	2940	3540
Slip [%]	2.50	2.00	1.67
Rated torque [ft.lb]	18.0	17.9	14.8
Locked rotor torque [%]	260	330	330
Breakdown torque [%]	300	370	440
Service factor	1.00	1.00	1.25
Temperature rise	80 K	80 K	80 K
Locked rotor time	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%		
	50%	89.6	88.6
	75%	90.6	90.3
	100%	90.6	90.8
Power Factor	25%		
	50%	0.74	0.65
	75%	0.84	0.77
	100%	0.88	0.83

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6308 ZZ	6207 ZZ	Max. traction : 284 lb
Sealing	: V'Ring	V'Ring	Max. compression : 442 lb
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	13/04/2020		Page 1 / 13	Revision

# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

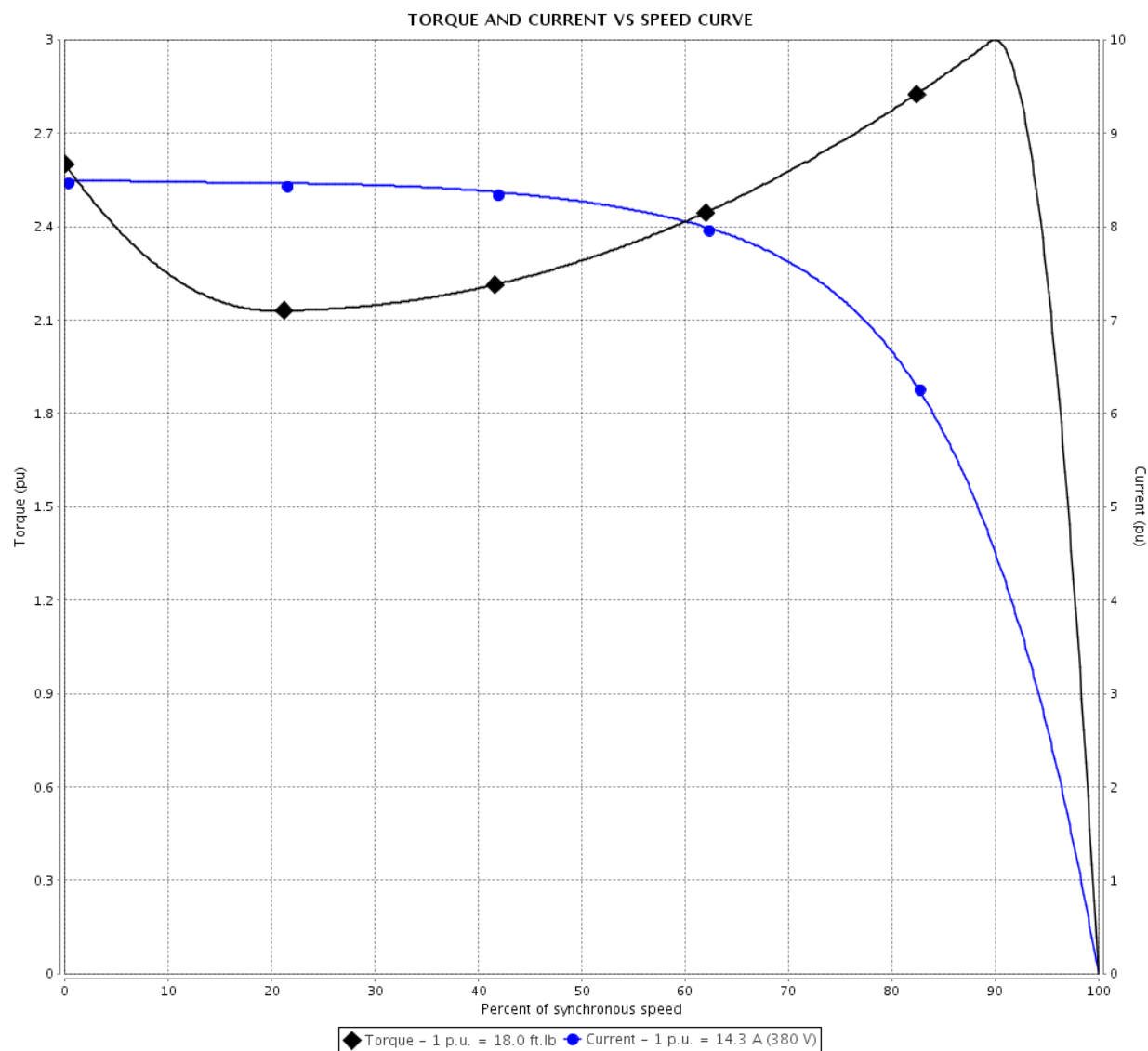
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 380 V 50 Hz 2P

Rated current : 14.3 A  
LRC : 8.5  
Rated torque : 18.0 ft.lb  
Locked rotor torque : 260 %  
Breakdown torque : 300 %  
Rated speed : 2925 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
Duty cycle : S1  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : N

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 13Revision		
Checked by				
Date	13/04/2020			

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

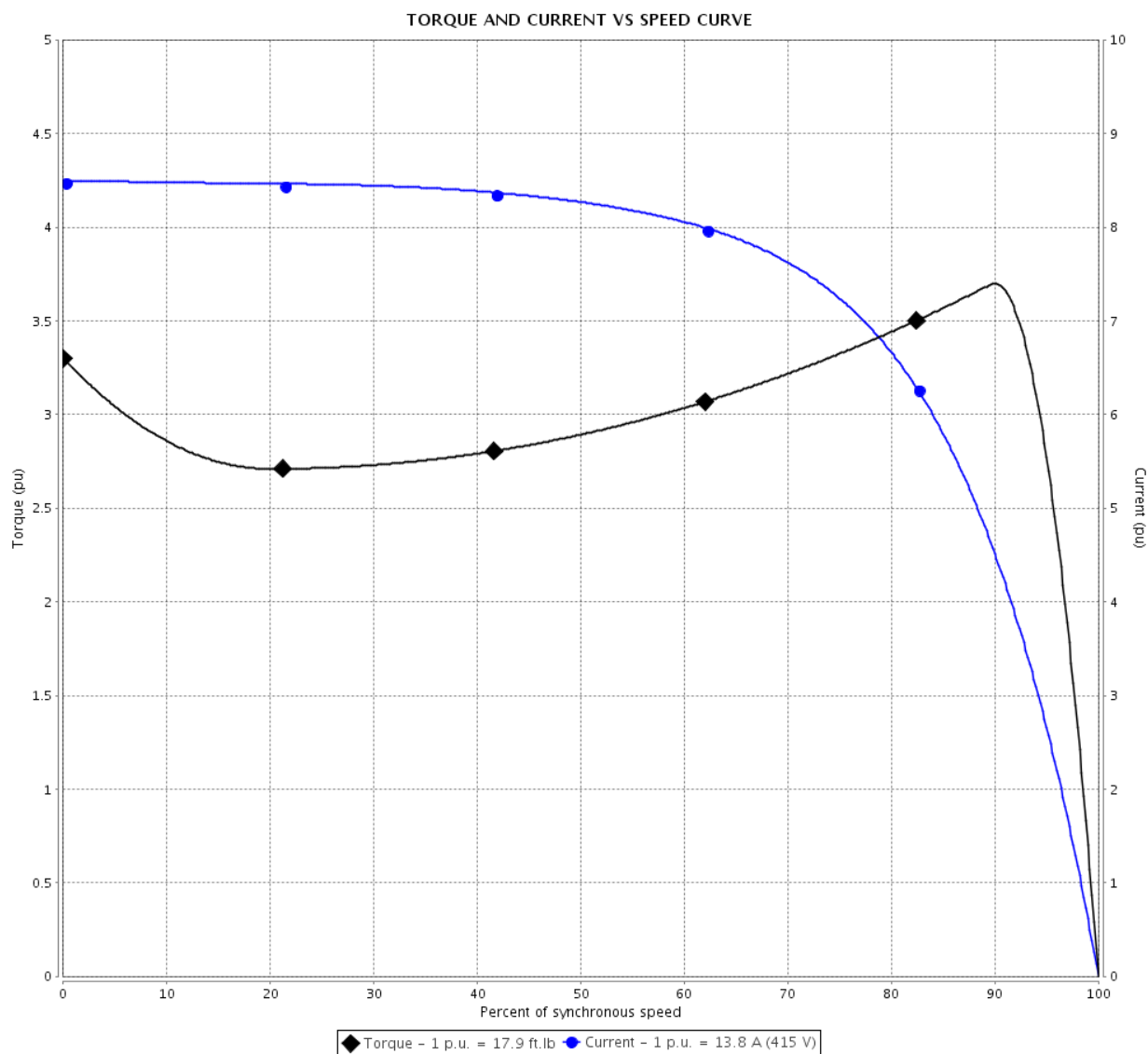
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 415 V 50 Hz 2P

Rated current	: 13.8 A	Moment of inertia (J)	: 0.5980 sq.ft.lb
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 17.9 ft.lb	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: N

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 13		
Checked by				
Date	13/04/2020			
		Revision		

# TORQUE AND CURRENT VS SPEED CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

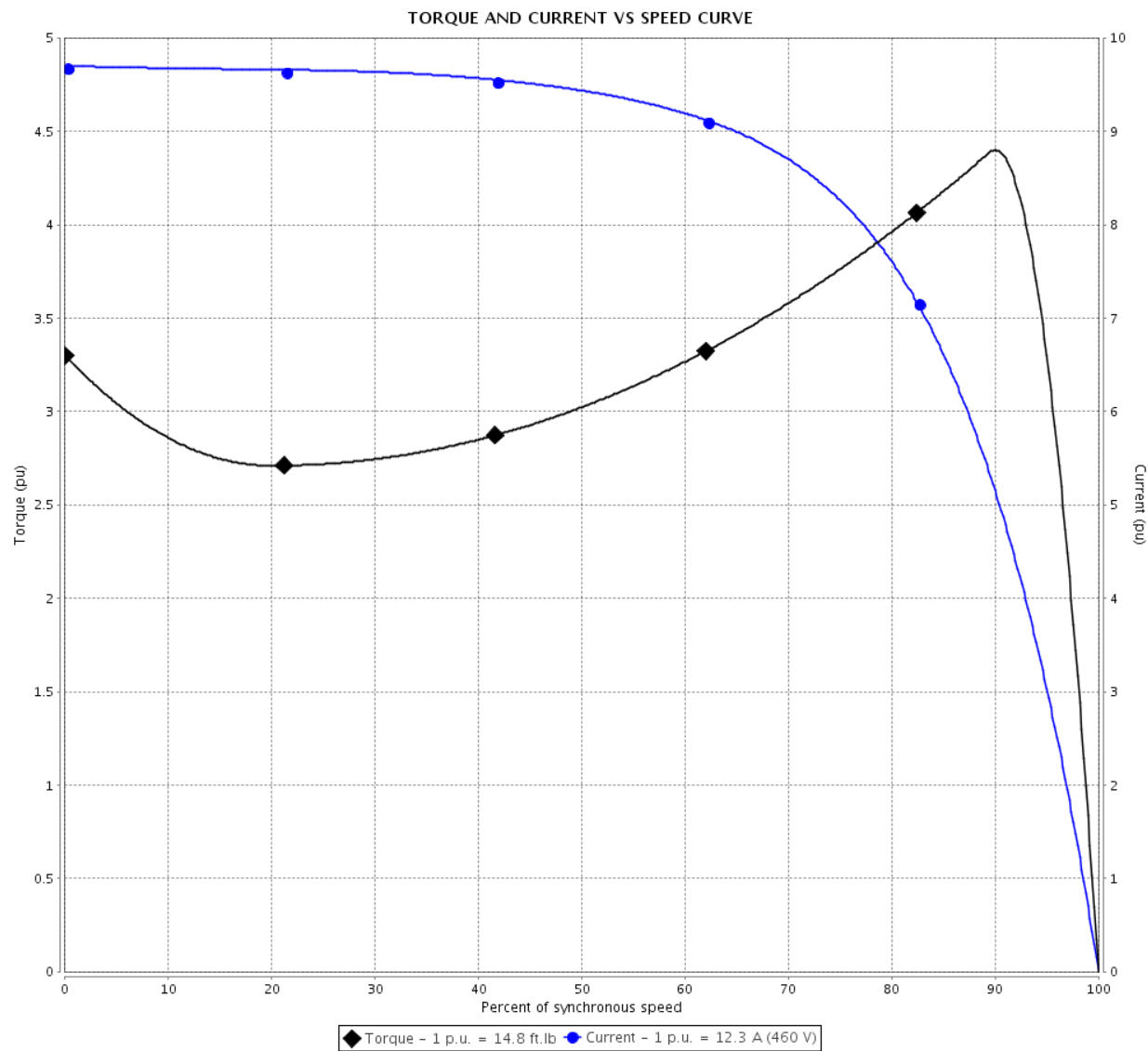
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 460 V 60 Hz 2P

Rated current : 12.3 A  
LRC : 9.7  
Rated torque : 14.8 ft.lb  
Locked rotor torque : 330 %  
Breakdown torque : 440 %  
Rated speed : 3540 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
Duty cycle : S1  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : N

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 4 / 13Revision		
Checked by				
Date	13/04/2020			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

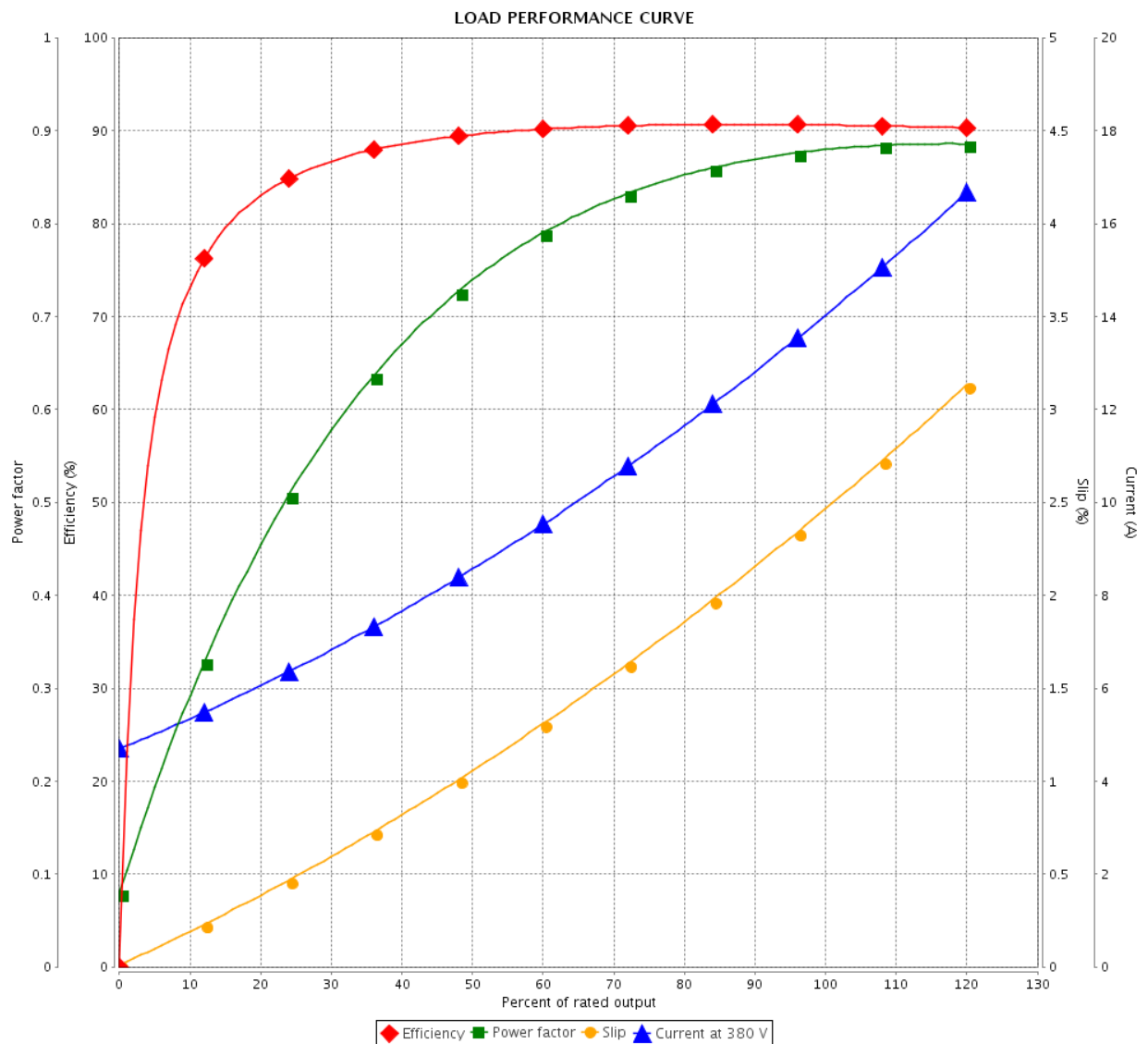
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 380 V 50 Hz 2P

Rated current : 14.3 A  
 LRC : 8.5  
 Rated torque : 18.0 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 300 %  
 Rated speed : 2925 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 5 / 13		
Checked by				
Date	13/04/2020			
			Revision	

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

Subject to change without notice

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

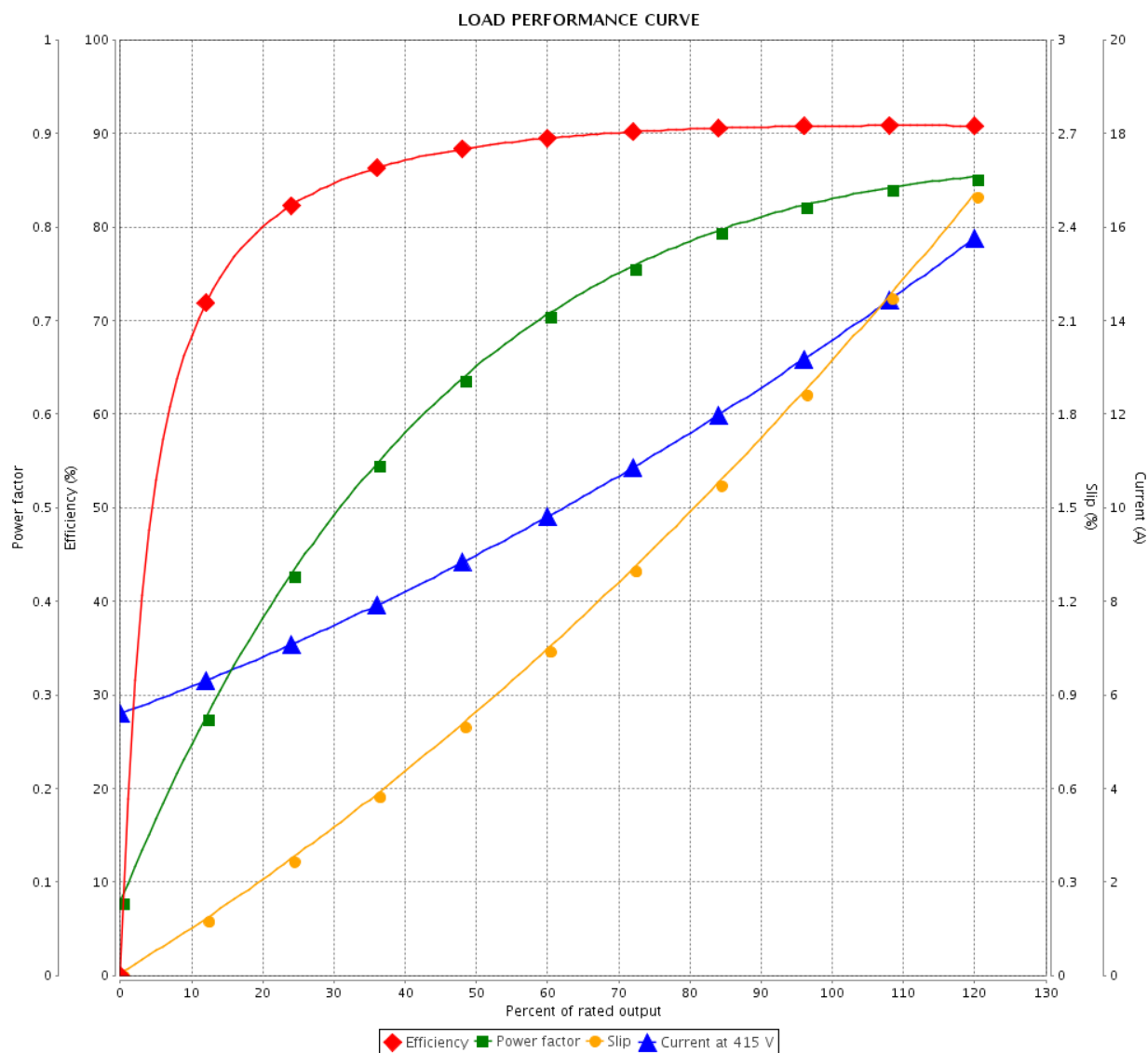
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 415 V 50 Hz 2P

Rated current : 13.8 A  
 LRC : 8.5  
 Rated torque : 17.9 ft.lb  
 Locked rotor torque : 330 %  
 Breakdown torque : 370 %  
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				6 / 13	
Date					

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

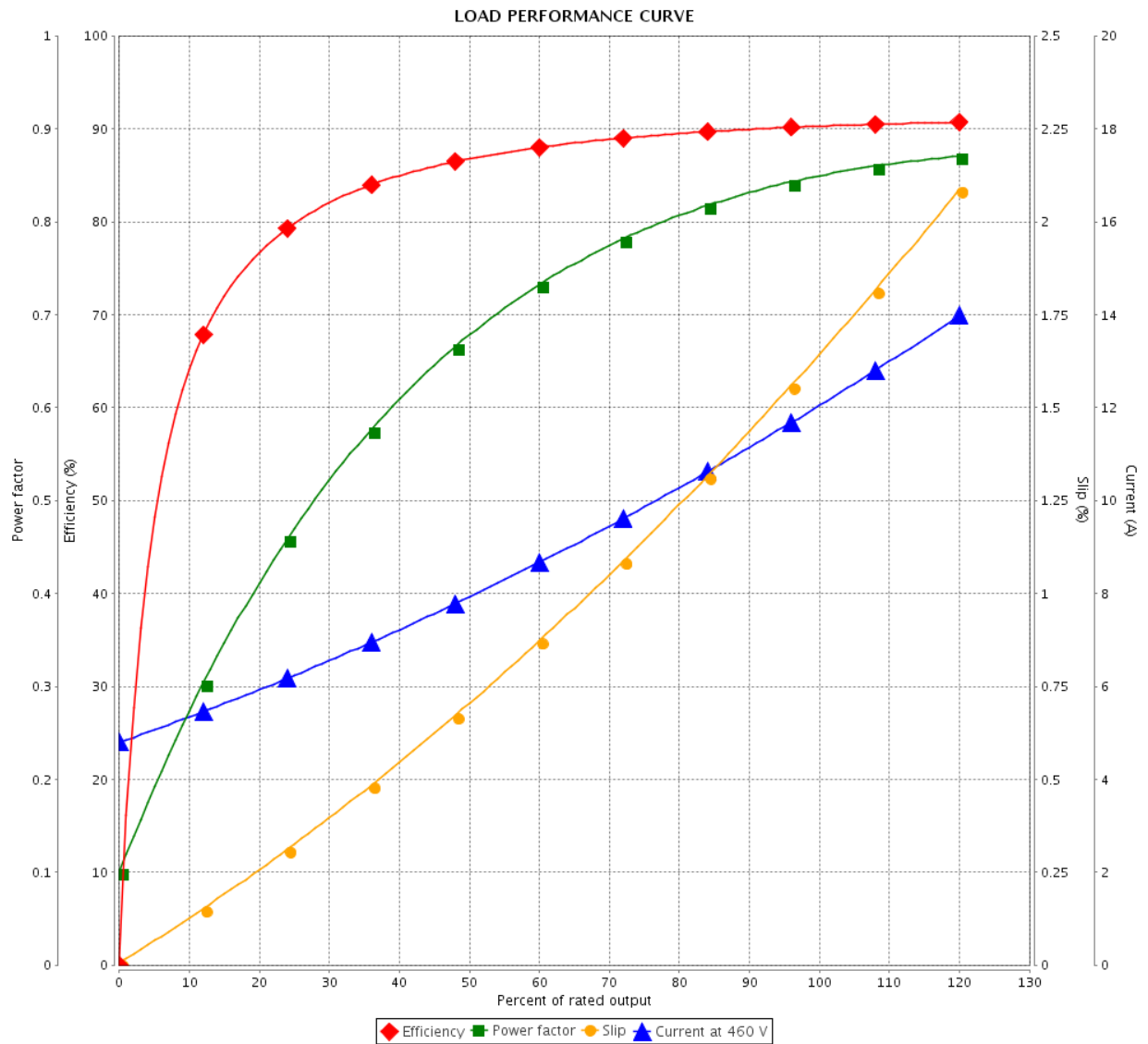
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 460 V 60 Hz 2P

Rated current : 12.3 A  
 LRC : 9.7  
 Rated torque : 14.8 ft.lb  
 Locked rotor torque : 330 %  
 Breakdown torque : 440 %  
 Rated speed : 3540 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by				Page 7 / 13
Checked by				
Date				
13/04/2020				Revision

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

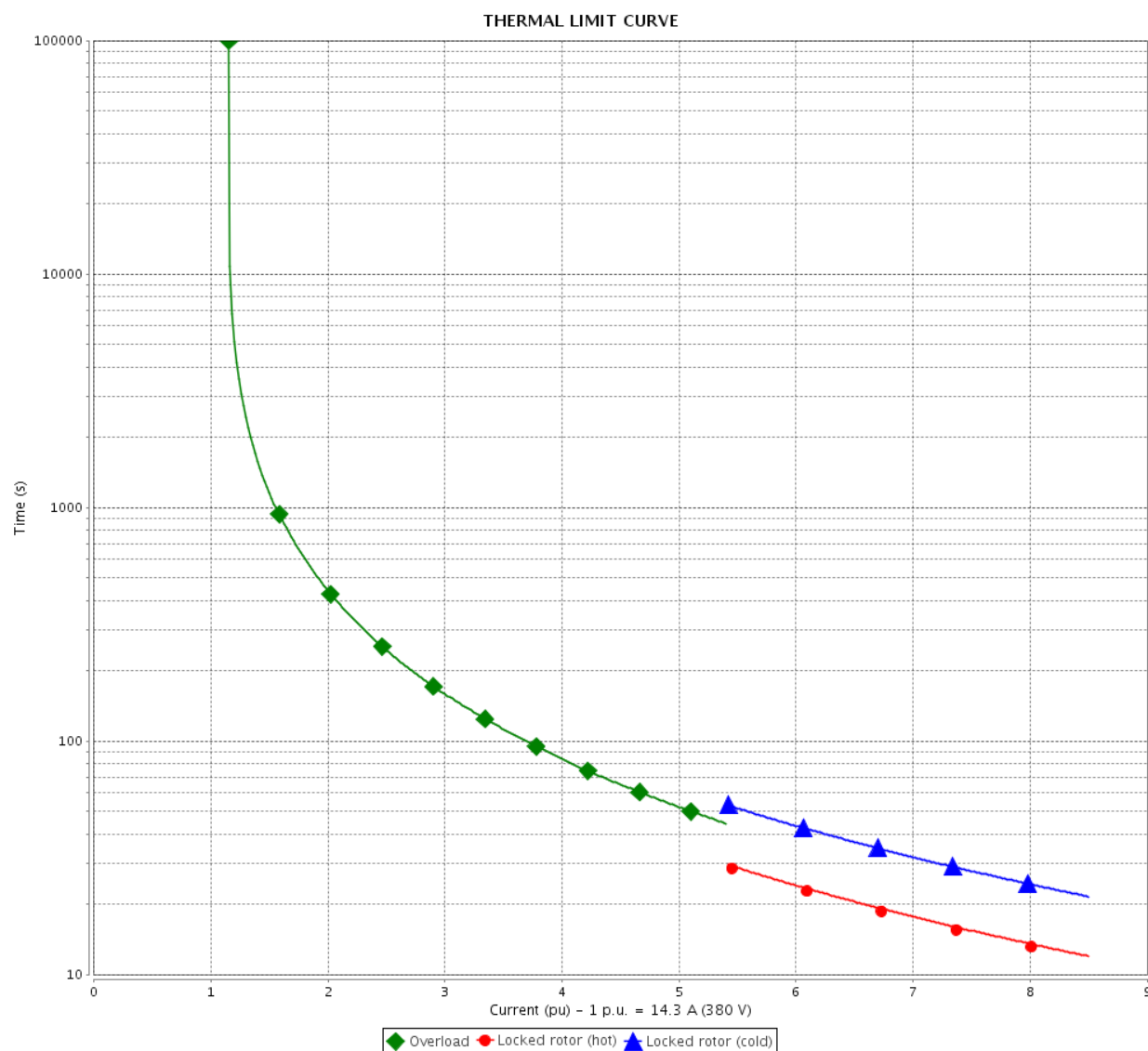
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 380 V 50 Hz 2P

Rated current : 14.3 A  
 LRC : 8.5  
 Rated torque : 18.0 ft.lb  
 Locked rotor torque : 260 %  
 Breakdown torque : 300 %  
 Rated speed : 2925 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by		<div style="display: flex; justify-content: space-between;"> <div>Page 8 / 13</div> <div>Revision</div> </div>		
Checked by				
Date				
	13/04/2020			

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

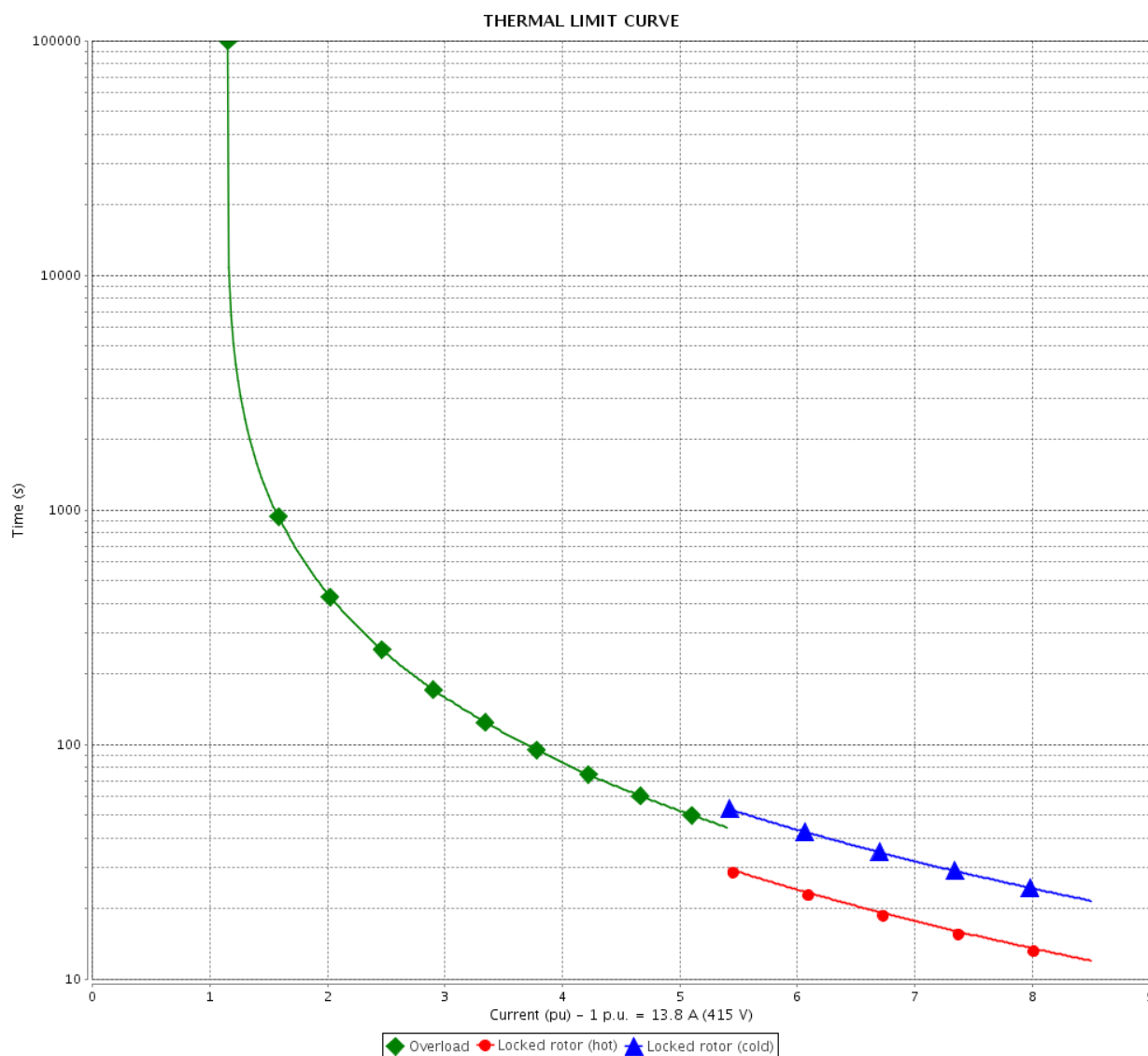
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 415 V 50 Hz 2P

Rated current : 13.8 A  
 LRC : 8.5  
 Rated torque : 17.9 ft.lb  
 Locked rotor torque : 330 %  
 Breakdown torque : 370 %  
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 9 / 13		
Checked by				
Date	13/04/2020			
		Revision		

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer :

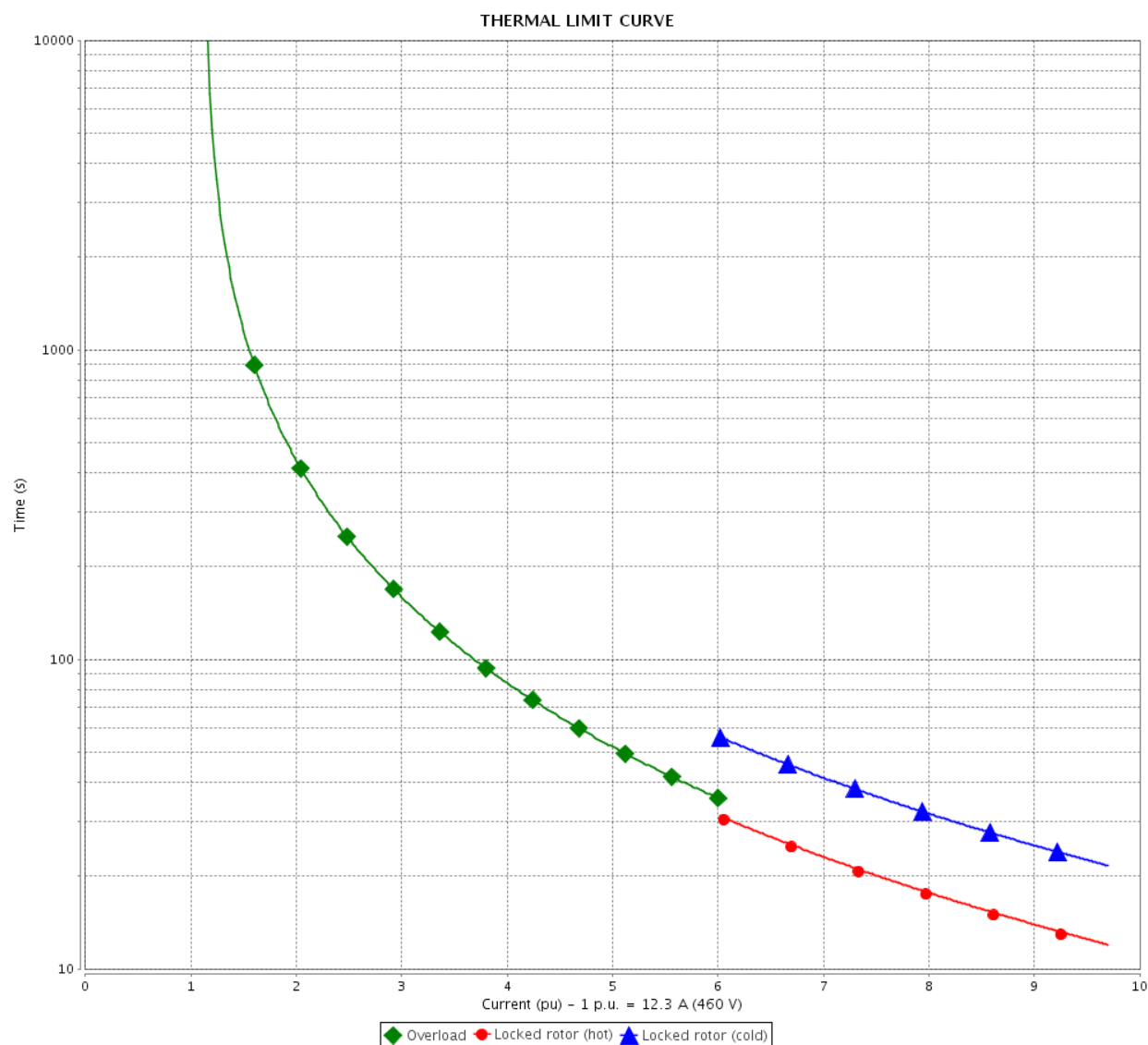
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 460 V 60 Hz 2P

Rated current : 12.3 A  
LRC : 9.7  
Rated torque : 14.8 ft.lb  
Locked rotor torque : 330 %  
Breakdown torque : 440 %  
Rated speed : 3540 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
Duty cycle : S1  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : N

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 10 / 13Revision		
Checked by				
Date	13/04/2020			

# VFD OPERATION CURVE

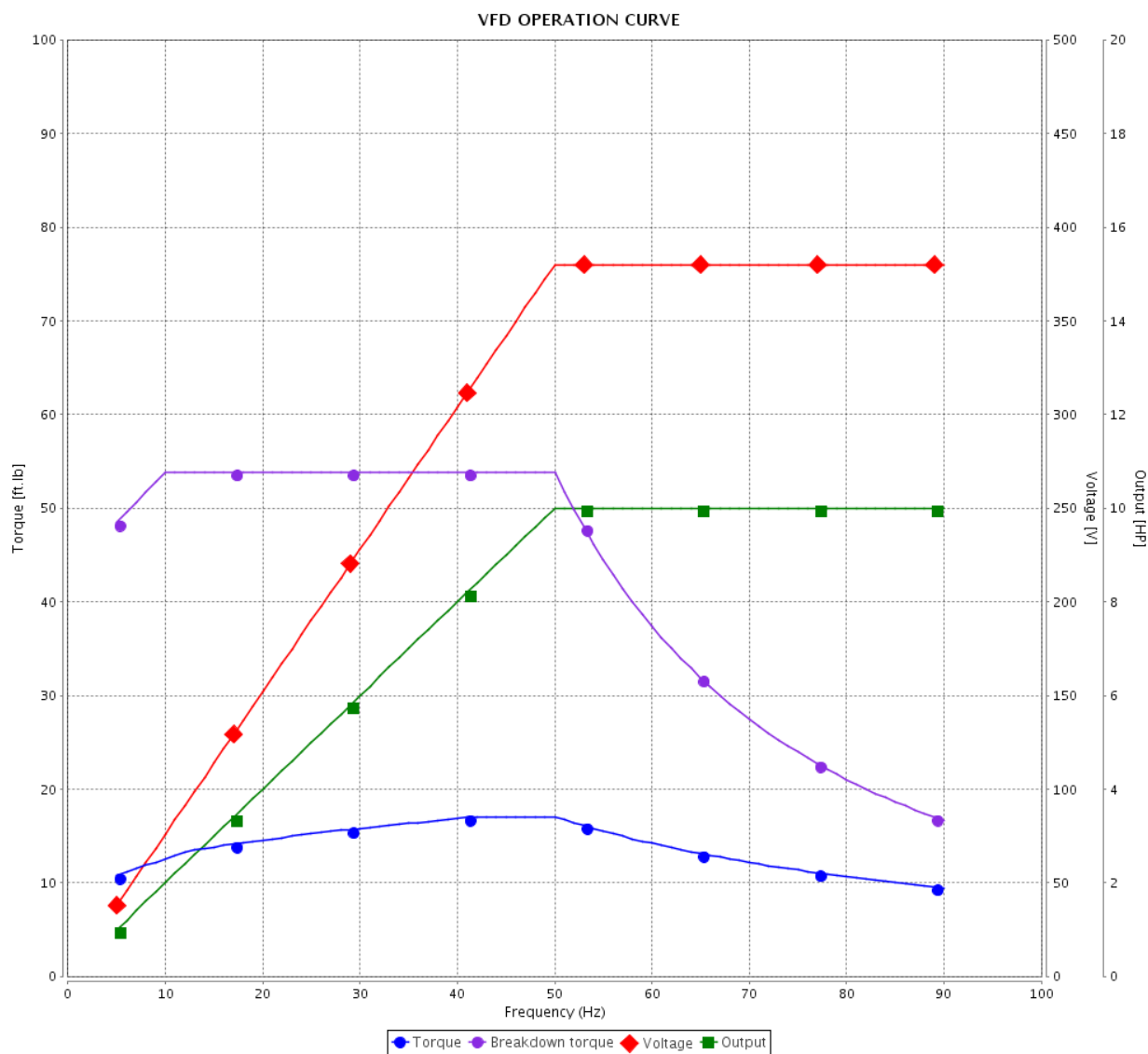
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 14052130  
Catalog # : 00736ET3YAL132SFF-W2



Performance : 380 V 50 Hz 2P

Rated current : 14.3 A  
LRC : 8.5  
Rated torque : 18.0 ft.lb  
Locked rotor torque : 260 %  
Breakdown torque : 300 %  
Rated speed : 2925 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
Duty cycle : S1  
Insulation class : F  
Service factor : 1.00  
Temperature rise : 80 K  
Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 11 / 13		
Checked by				
Date	13/04/2020			
		Revision		

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

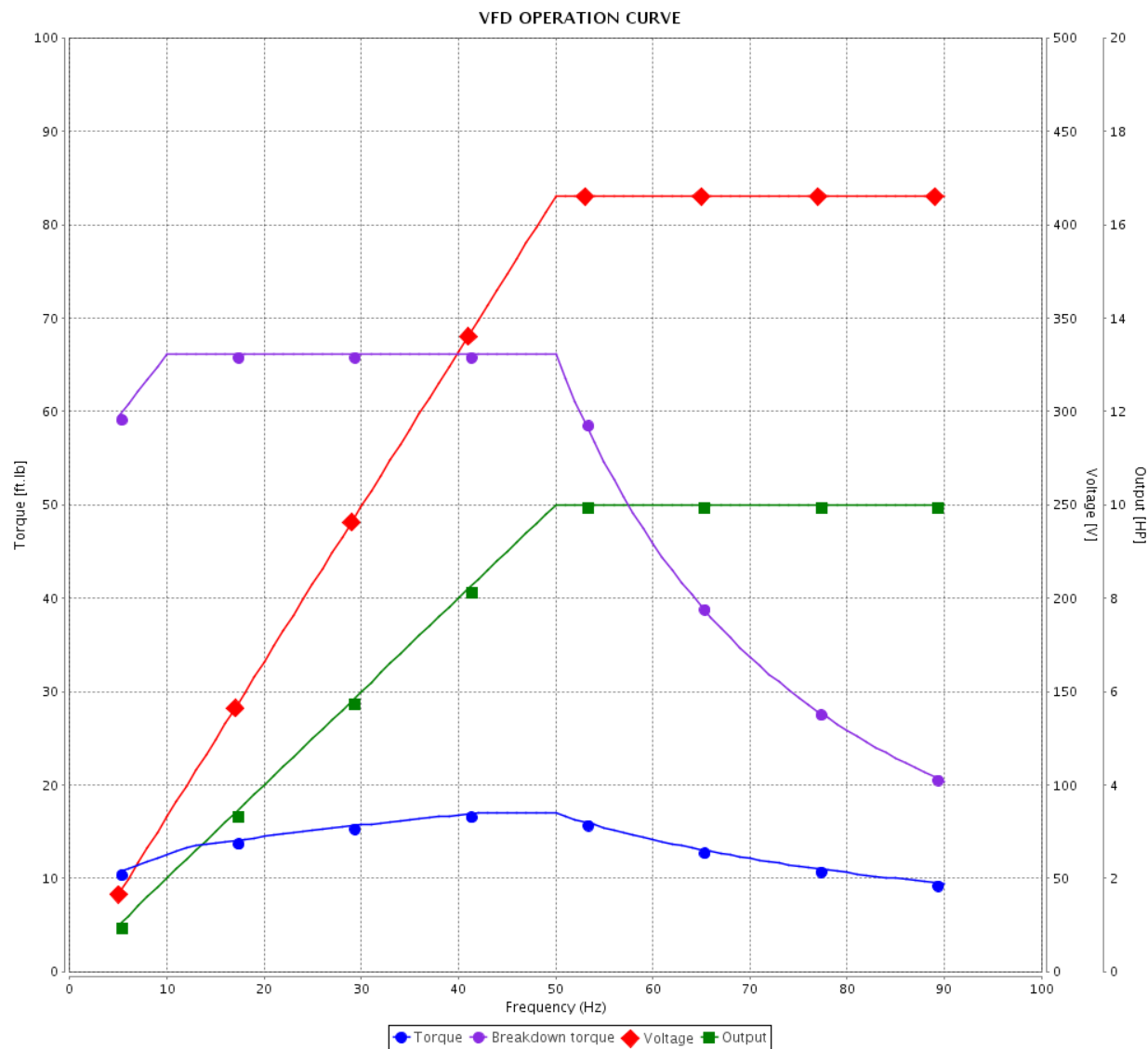
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2



Performance : 415 V 50 Hz 2P

Rated current : 13.8 A  
 LRC : 8.5  
 Rated torque : 17.9 ft.lb  
 Locked rotor torque : 330 %  
 Breakdown torque : 370 %  
 Rated speed : 2940 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		<div>Page</div> <div>Revision</div>		
Checked by				
Date	13/04/2020			

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

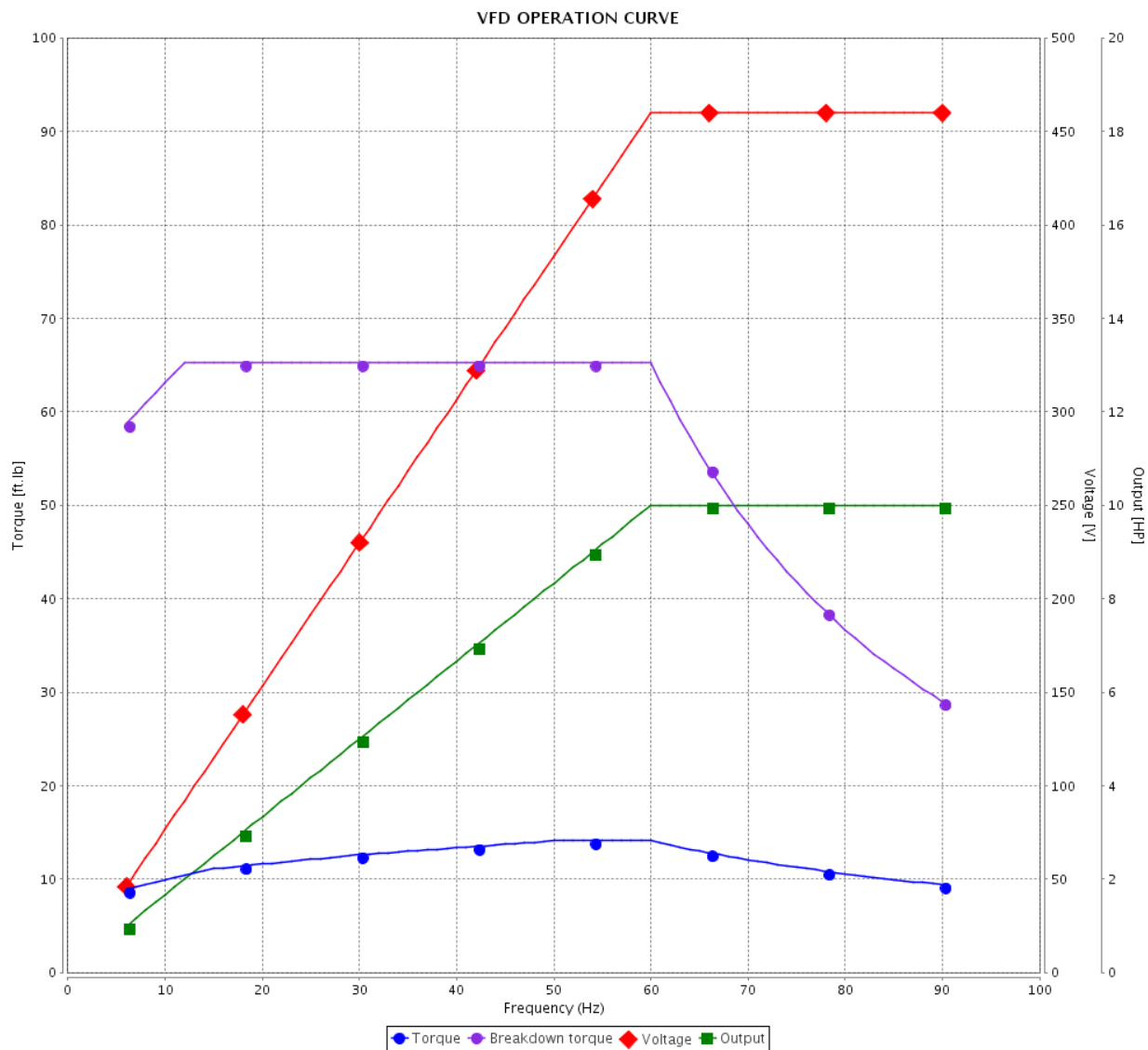
Product line : Multimounting IE3 Three-Phase

Product code :

14052130

Catalog # :

00736ET3YAL132SFF-W2

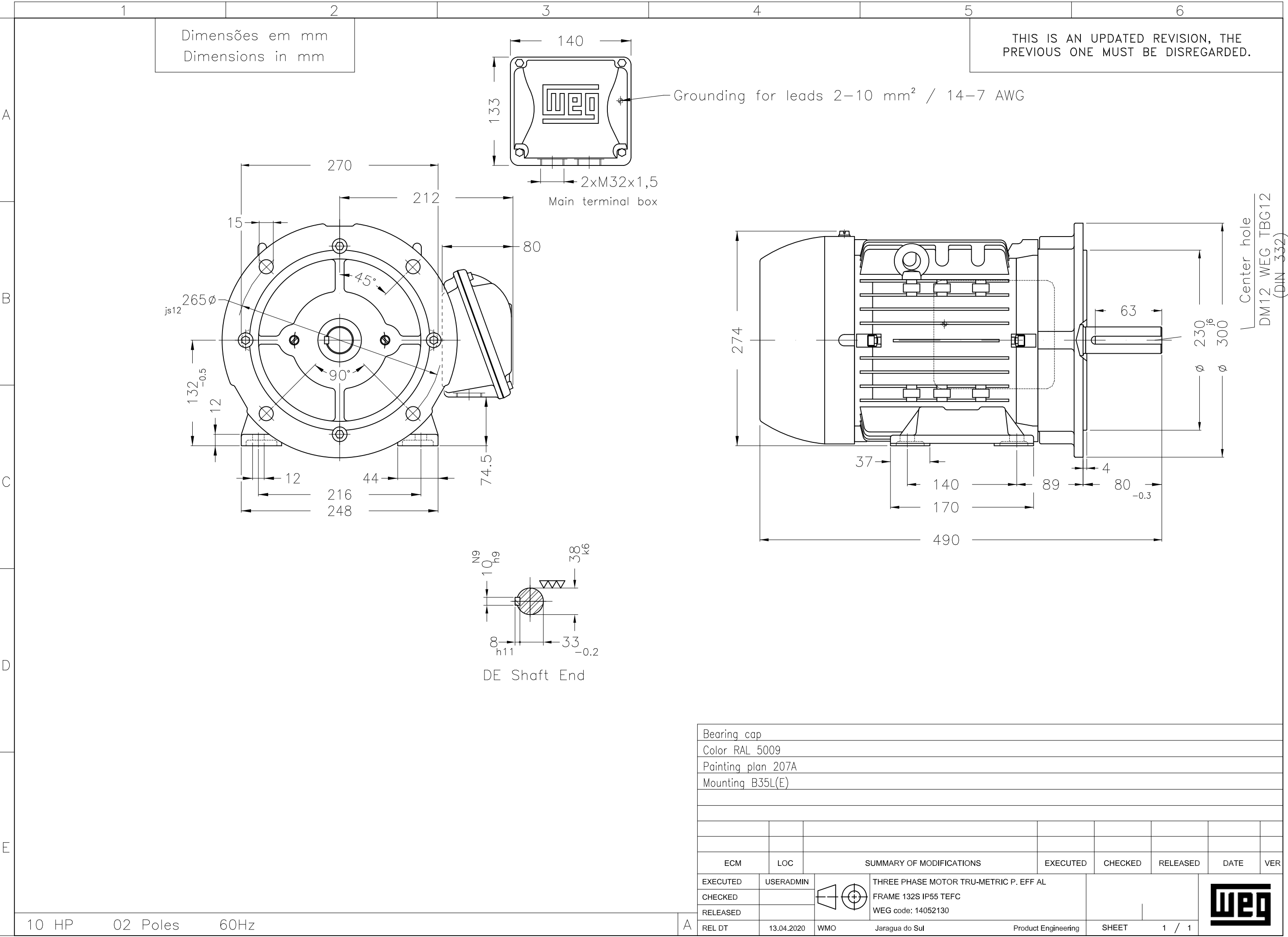


Performance : 460 V 60 Hz 2P

Rated current : 12.3 A  
 LRC : 9.7  
 Rated torque : 14.8 ft.lb  
 Locked rotor torque : 330 %  
 Breakdown torque : 440 %  
 Rated speed : 3540 rpm

Moment of inertia (J) : 0.5980 sq.ft.lb  
 Duty cycle : S1  
 Insulation class : F  
 Service factor : 1.25  
 Temperature rise : 80 K  
 Design : N

Rev.	Changes Summary		Performed	Checked	Date
Performed by		Page 13 / 13			Revision
Checked by					
Date	13/04/2020				



MADE IN BRAZIL



IE3-90.2%

CC029A

Severe Duty

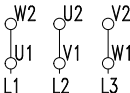
PH 3 FRAME AL132S

MODEL 00736ET3YAL132SFF-W2

INS CL. F ENCL TEFC TYPE ET IP55 DUTY CONT.

kW(HP)	Hz	VOLTS	RPM	AMPS	PF	SFA
7.5(10)	50	380 Δ	2925	14.3	0.88	-
		415 Δ	2940	13.8	0.83	-
7.5(10)	60	460 Δ	3540	12.3	0.85	15.4

Hz	SF	CODE	Δt (k)	ALT 1000 m.a.s.l.	MAX AMB. 40°C
50	1.00	K	80	NEMA EFF 60Hz DES	
60	1.25	L	80	NOM(%) 90.2	3/4(%) 89.5



Δ DELTA RUN



→ 6308-ZZ

MOBIL POLYREX EM

→ 6207-ZZ

158 Lbs

TEMP CODE T3C

Class I, Div. 2, Gr. B, C and D

Class I, Zone 2, IIC



MOD.TE01A0X0\$0000100861

C US  
LR 50962

EEV 78282

14052130