

ABB BALDOR RELIANCE III

Customer information packet

VPECP84313T-4

75HP, 3555RPM, 3PH, 60HZ, 365VP, TEFC, V1

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	365LP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	81.500 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	81.5 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1544
Layout	617428-660
Eff. date	03-15-2024
CD Diagram	416820-036
Poles	02
Leads	3#2
Proprietary	False
Created date	02-28-2019

KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	V1
No Load Current	15.5 a
Number of Poles	2
Overall Length	37.27 IN
Power Factor	92
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Service Factor	1.15
Shaft Diameter	2.124 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

000613007EX				
CAT NO	VPECP84313T-4	SPEC NO.	A36-9017-1544	
NO. ROTOR BARS	38	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE	15.5	
5 YEAR WARRANTY		WINDING RES @25 C	.0744	OHMS
MFG. DATE	SER.NO			
	SFA 94.3			

NP4566

CAT NO	VPECP84313T-4			SPEC NO.		A36-9017-1544					
HP	75	AMPS	81.5	VOLTS		460		DESIGN	B		
FRAME SIZE	365VP	RPM	3555	HZ	60	AMB	40	SF	1.15		
D.E. BRG.DATA	6313	O.D.E. BRG.DATA		7310		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	65BC03JP30X		TYPE	ENCL	TEFC	CODE	G				
O.D.E. BRG.	BA2B_459310		POWER FACTOR		92		NEMA-NOM-EFFICIENCY			93.6	
3/4 LOAD EFF.	94.0	IP	56	MAX CORR KVAR		5		GUARANTEED EFFICIENCY			92.4
TEMP CODE	T3	TEMP =	200								
CHP HZ	60-75	CT HZ	15-60	VT HZ	0-60						
INVERTER-TEMP-CODE	T3										
SER.NO.				MOTOR WEIGHT							

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365LPZ	75	P	3/60	3555	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
81.5	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
892018	418141005TE	---	---	.0744		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	15.5	3600	9.28	0	
1/4	18.8	24.6	3589	78.1	91.5	
2/4	37.6	41.1	3577	91.3	93.9	
3/4	56.2	60.4	3565	92.7	94.0	
4/4	75.0	81.5	3553	92.0	93.6	
5/4	93.8	103	3539	91.2	93.1	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	220	244	530	
PULL UP		1565	190	211	435	
BREAKDOWN		3383	226	250	259	
FULL LOAD		3553	100	111	81.5	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 93.6% GUARANTEED MIN. EFF. 92.4%						
		DR. BY G. R. WEBB CK. BY W. L. SMITH APP. BY W. L. SMITH DATE 01/05/12		A-C MOTOR PERFORMANCE DATA A36WG1544-R028 ISSUE DATE 03/31/21		

REL S.O.

RPM 3555

S.F. 1.15

ROTOR 418141005TE

FRAME 365LPZ

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 81.5

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

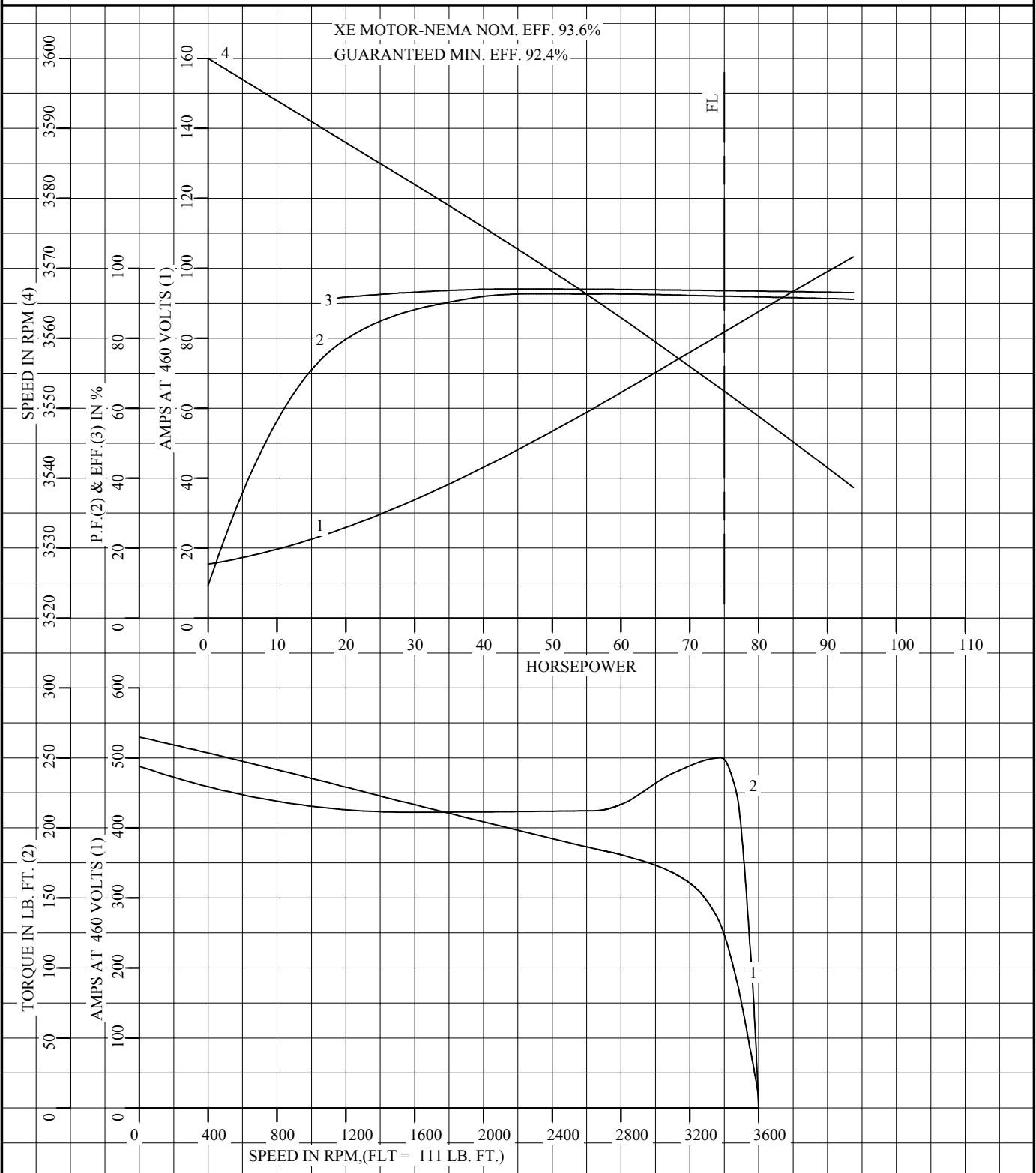
STATOR RES. @ 25 °C .0744

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892018

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
 A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
 CK. BY W. L. SMITH
 APP. BY W. L. SMITH
 DATE 01/05/12

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG1544-R028

ISSUE DATE 03/31/21

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REL. S.O.

RPM 3555

S.F. 1.15

ROTOR 418141005TE

FRAME 365LPZ

VOLTS 460

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HP 75

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DUTY CONT

ENCLOSURE TEFC

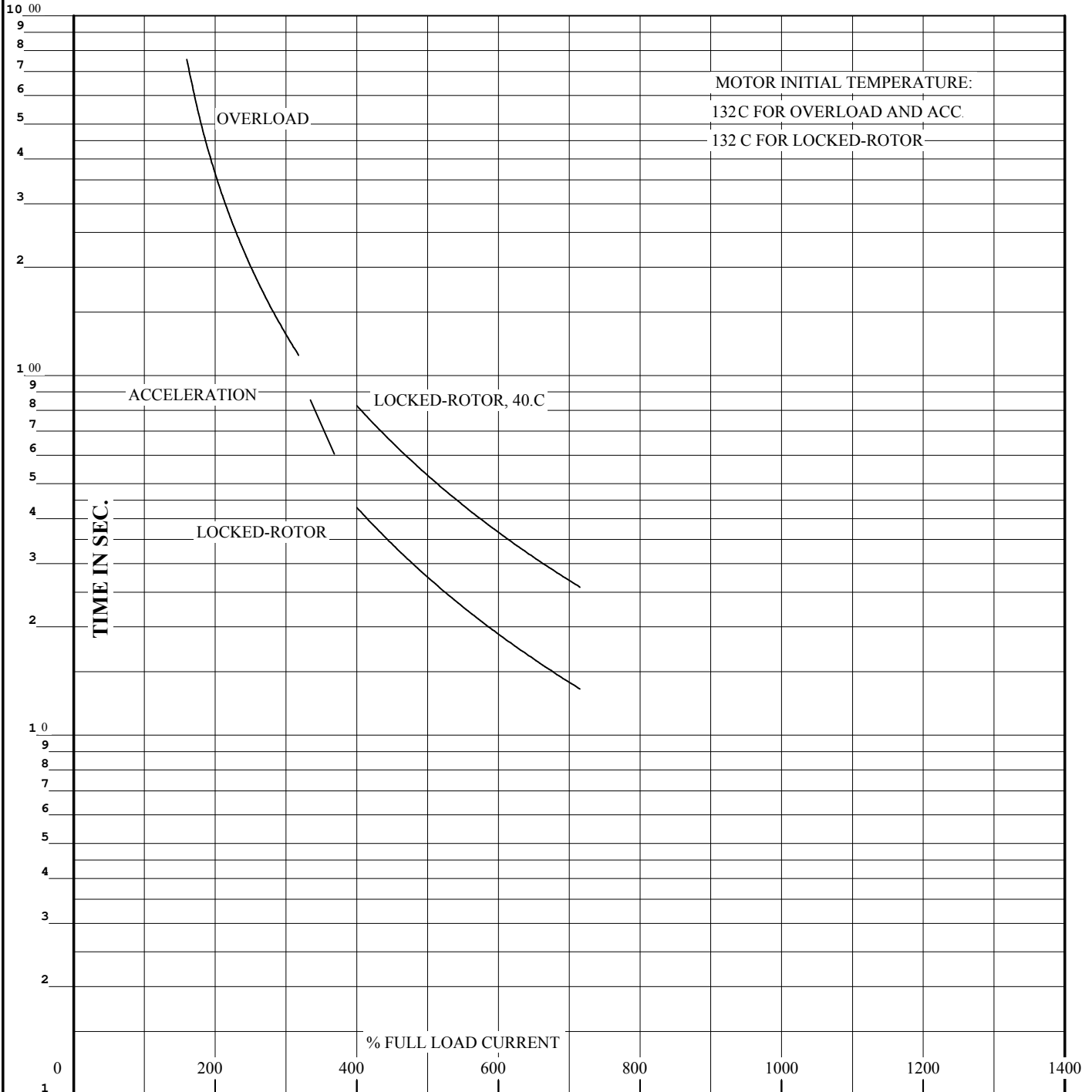
STATOR RES. @ 25 °C .0744

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892018

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 93.6%

GUARANTEED MIN. EFF. 92.4%

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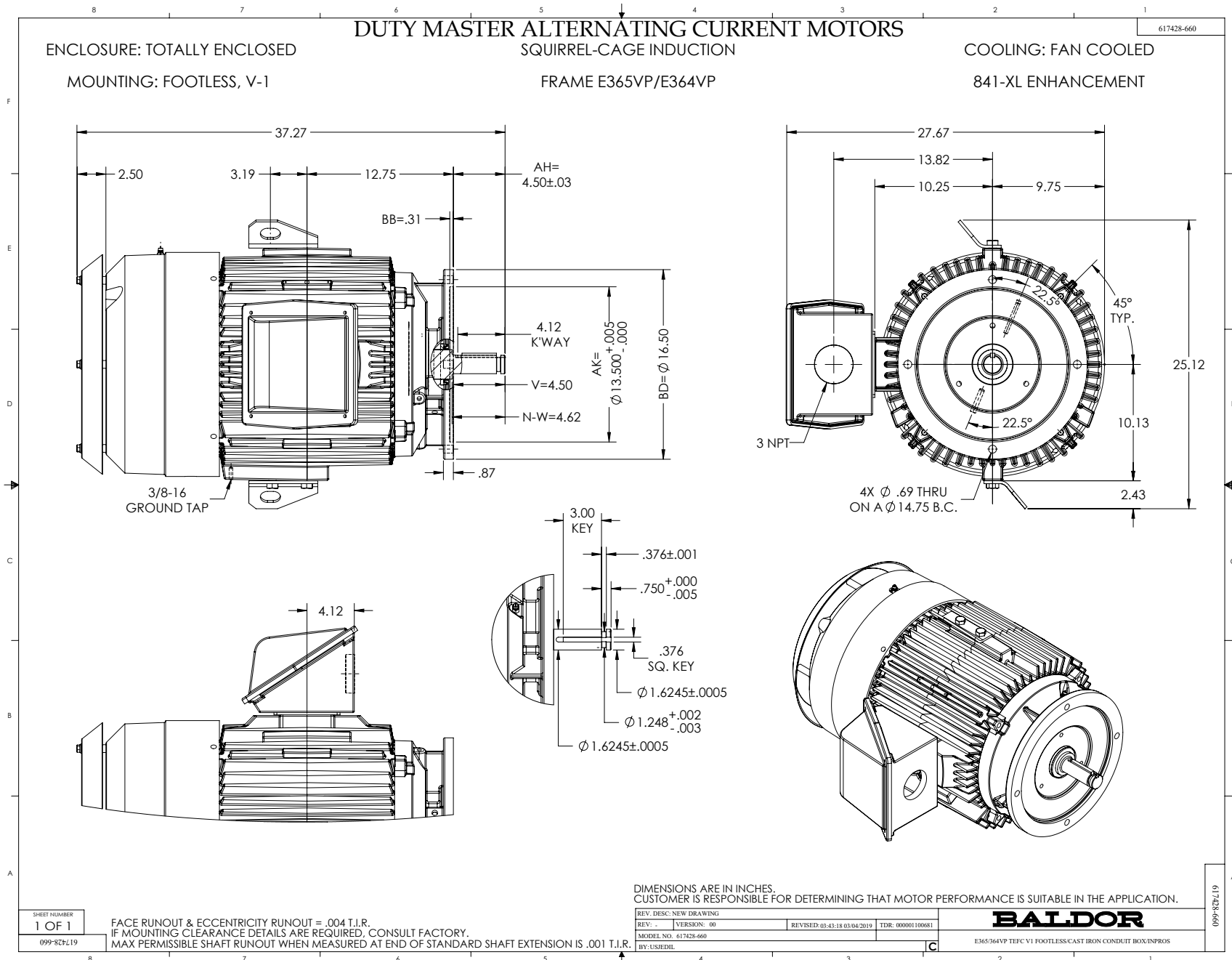
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB
CK. BY W. L. SMITH
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DATE 01/05/12

**A-C MOTOR
PERFORMANCE
CURVES**

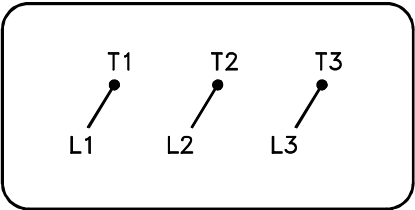
A36WG1544-R028

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416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1