

ABB BALDOR RELIANCE III

Customer information packet

VHECP4313T

75HP, 3550RPM, 3PH, 60HZ, 365HP, 1464M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365HP
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Bracket Mounted
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	161.000 A @ 230.0 V 80.700 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	80.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0761
Layout	617428-035
Eff. date	03-30-2016
CD Diagram	416820-002
Poles	02
Leads	3#2,6#4
Proprietary	False
Created date	10-19-2010

Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.36 IN
Power Factor	92
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW														
CAT.NO.	VHECP4313T					SPEC NO.		P36G3417						
HP	75	AMPS		161/80.7			VOLTS		230/460			DESIGN		B
FRAME	365HP	RPM	3555			HZ	60	AMB		40	SF	1.15		
DRIVE END BEARING	65BC03J30X			PH	3	DUTY	CONT		INSUL.CLASS			F		
OPP D.E. BEARING	65BC03J30X			TYPE	P	ENCL	TEFC		CODE		F			
D.E.BRG.DATA	6313			POWER FACTOR			91.5		NEMA NOM EFFICIENCY			94.5		
O.D.E.BRG.DATA	6313			MAX CORR KVAR			05.0		GUARANTEED EFFICIENCY			93.6		
3/4 LOAD EFF.	95.4		NEMA NOM/CSA QUOTED EFF											
SER.NO.						MOTOR WEIGHT			1042					

000901002AAA	
SUIT FOR 208V @ 179 AMPS	

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FRAME 365HP

RPM 3555 VOLTS 230/460

NEMA DESIGN F

TEST S.O. TYPICAL DATA

HP 75

AMPS 161/80.7

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

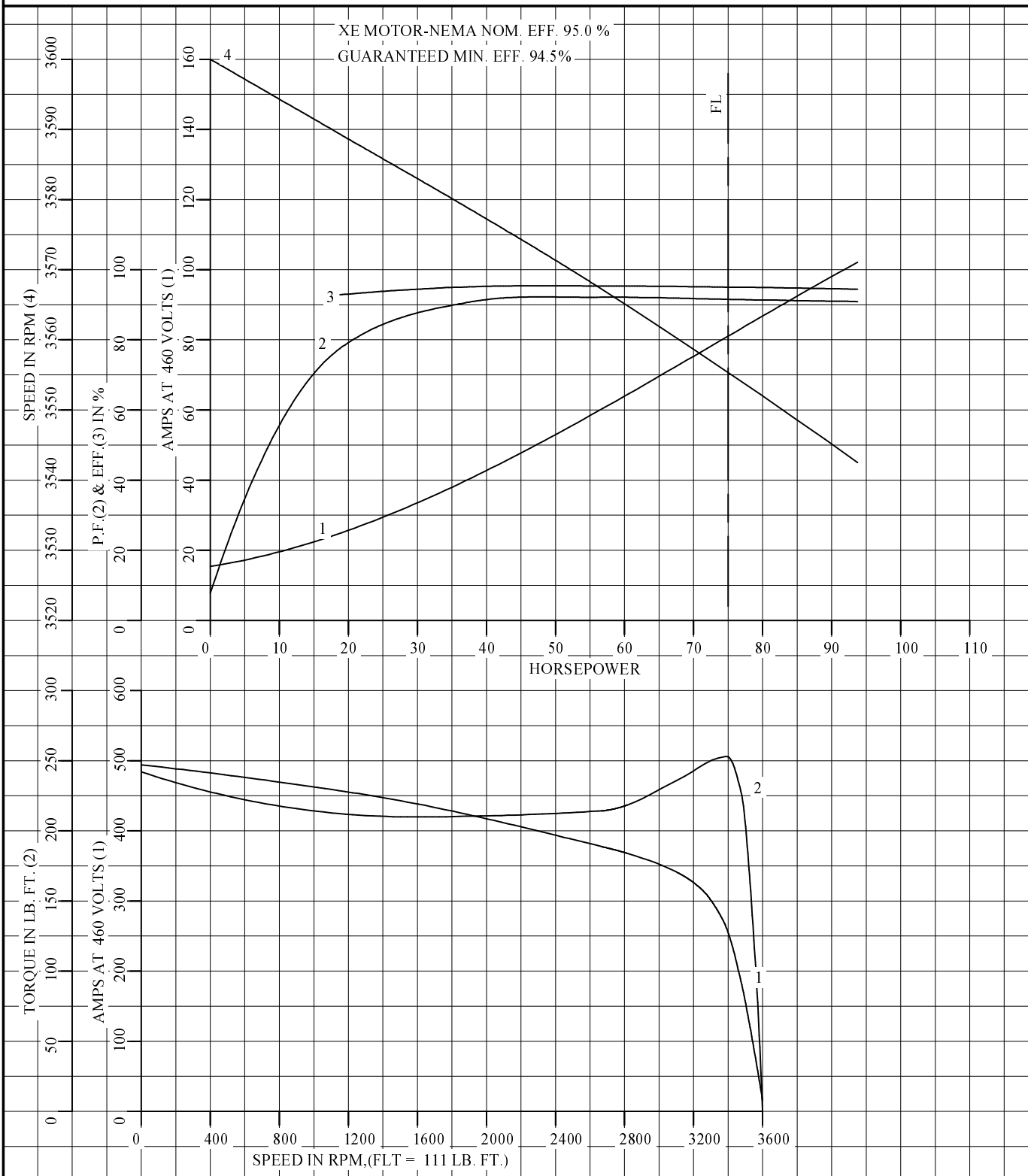
STATOR RES. @ 25 °C .0186/.0744

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892019

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

DR. BY J.J. HARRISON
CK. BY G.R. WEBB
APP. BY W.L. SMITH
DATE 10/16/02

**A-C MOTOR
PERFORMANCE
CURVES** A36WG0761-R001
ISSUE DATE 12/15/10

REL. S.O.

RPM 3555

S.F. 1.15

ROTOR 418141005TE

FRAME 365HP

VOLTS 230/460

NEMA DESIGN F

TEST S.O. TYPICAL DATA

HP 75

AMPS 161/80.7

CODE LETTER F

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

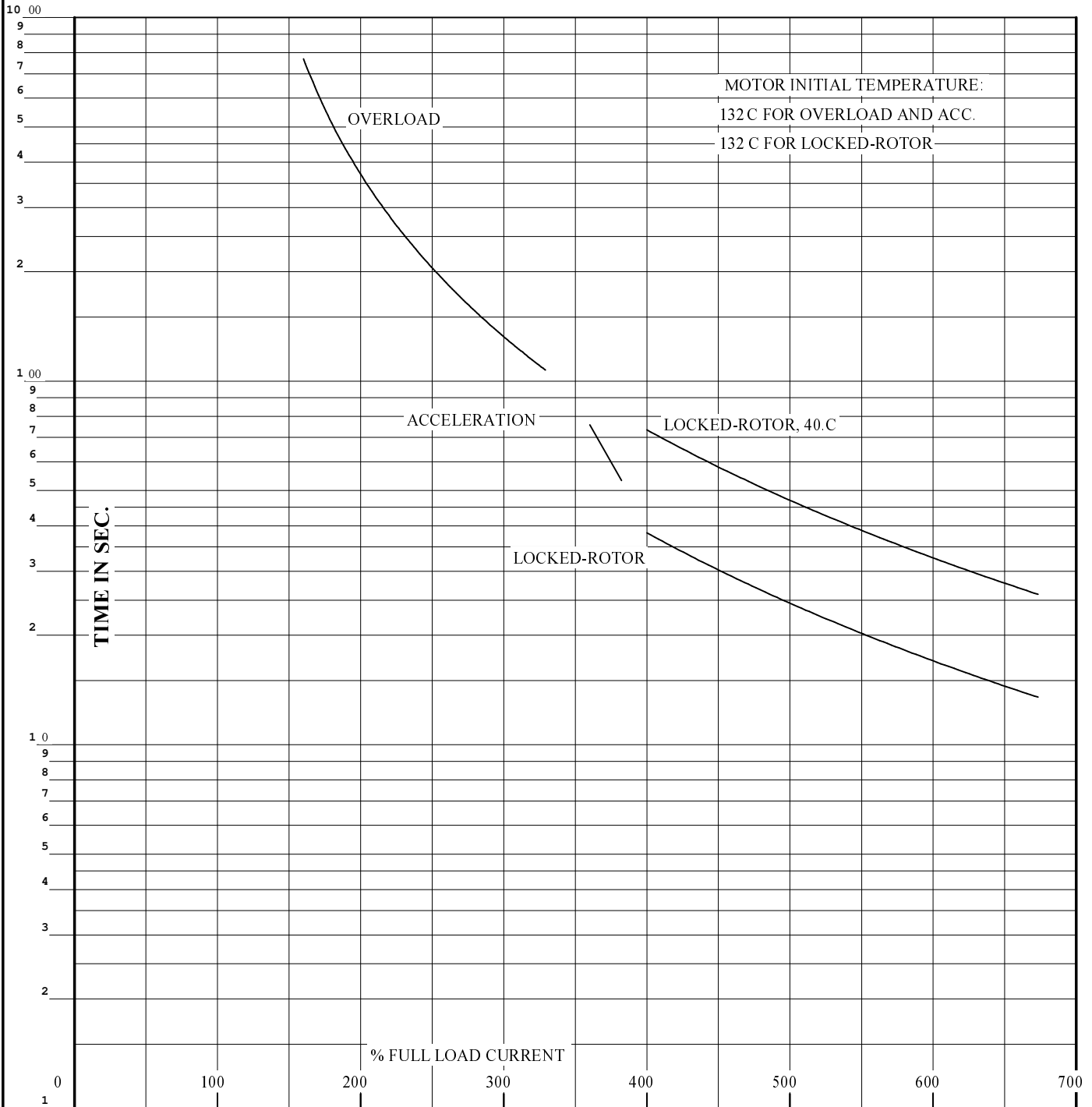
STATOR RES. @ 25 °C .0186/.0744

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892019

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 95.0 %

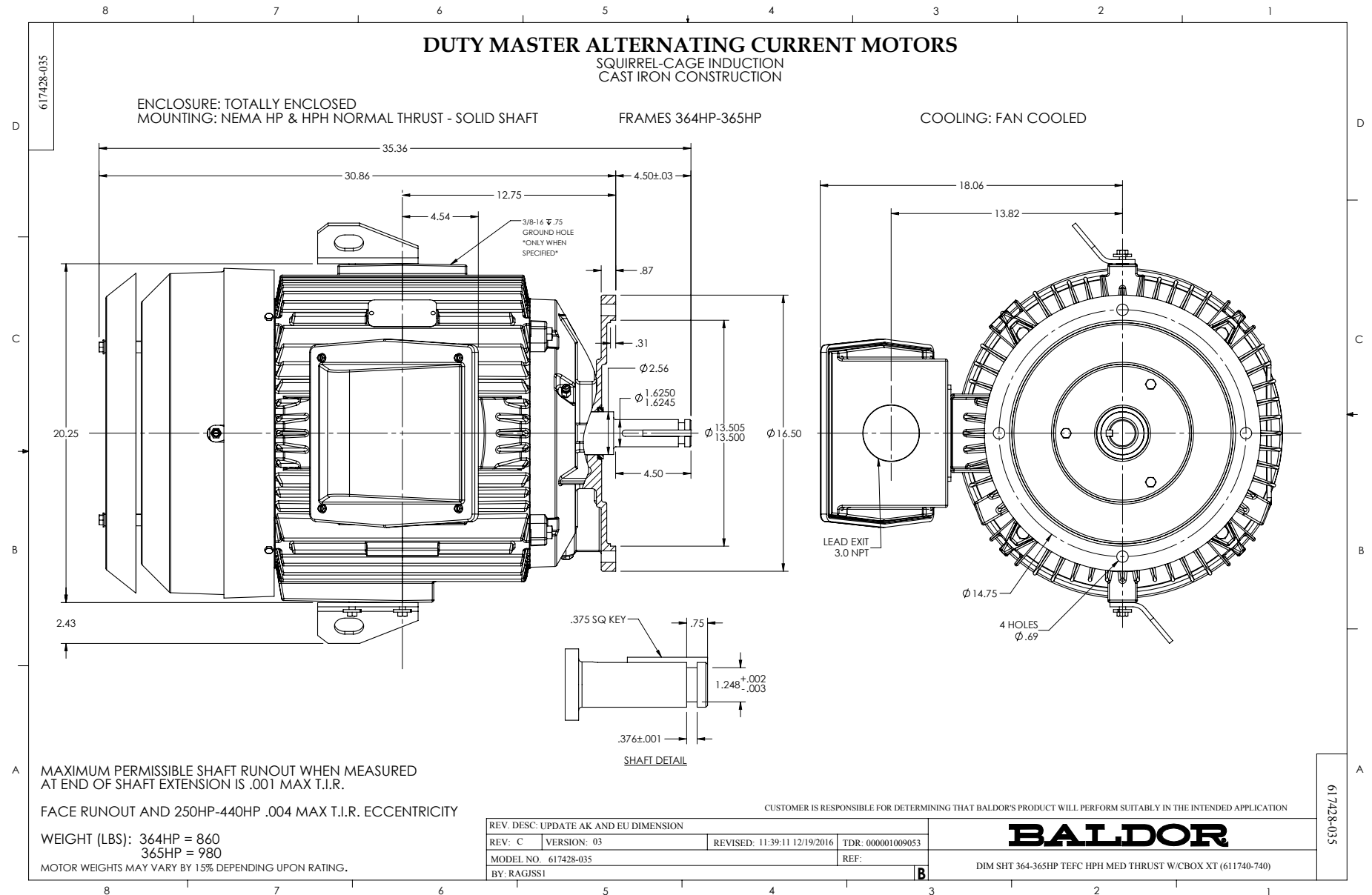
GUARANTEED MIN. EFF. 94.5%

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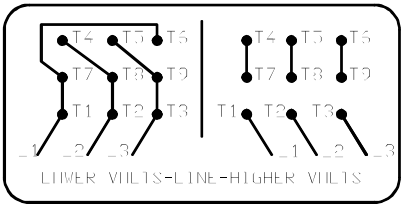
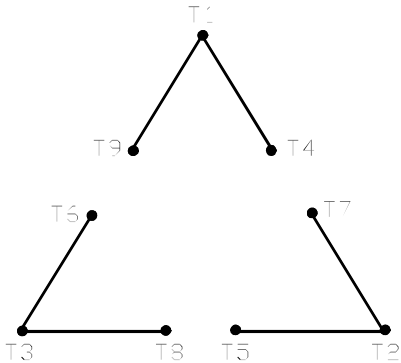
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**A-C MOTOR
PERFORMANCE CURVES** A36WG0761-R001
ISSUE DATE 12/15/10



416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
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BALDOR - RELIANCE®

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

416820-002