ABB BALDOR RELIANCE

Customer information packet

VHECP4313T

75HP, 3550RPM, 3PH, 60HZ, 365HP, 1464M, TEFC, F
Class - None
Division - Not Applicable

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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

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365HP	75	P	3/60	3555	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
161/80.7	CONT	40/F	1.15	F	F	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
892019	418141005TE	---	---	.0186/.0744

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	15.5	3600	7.78	0
1/4	18.8	24.4	3589	77.5	92.8
2/4	37.6	40.7	3579	90.8	95.1
3/4	56.2	59.9	3568	92.1	95.4
4/4	75.0	80.7	3556	91.5	95.0
5/4	93.8	102	3543	90.9	94.4

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	218	242	494
PULL UP	1565	190	210	440
BREAKDOWN	3395	228	253	259
FULL LOAD	3556	100	111	80.7

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. 95.0 %
GUARANTEED MIN. EFF. 94.5%

BALDOR

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

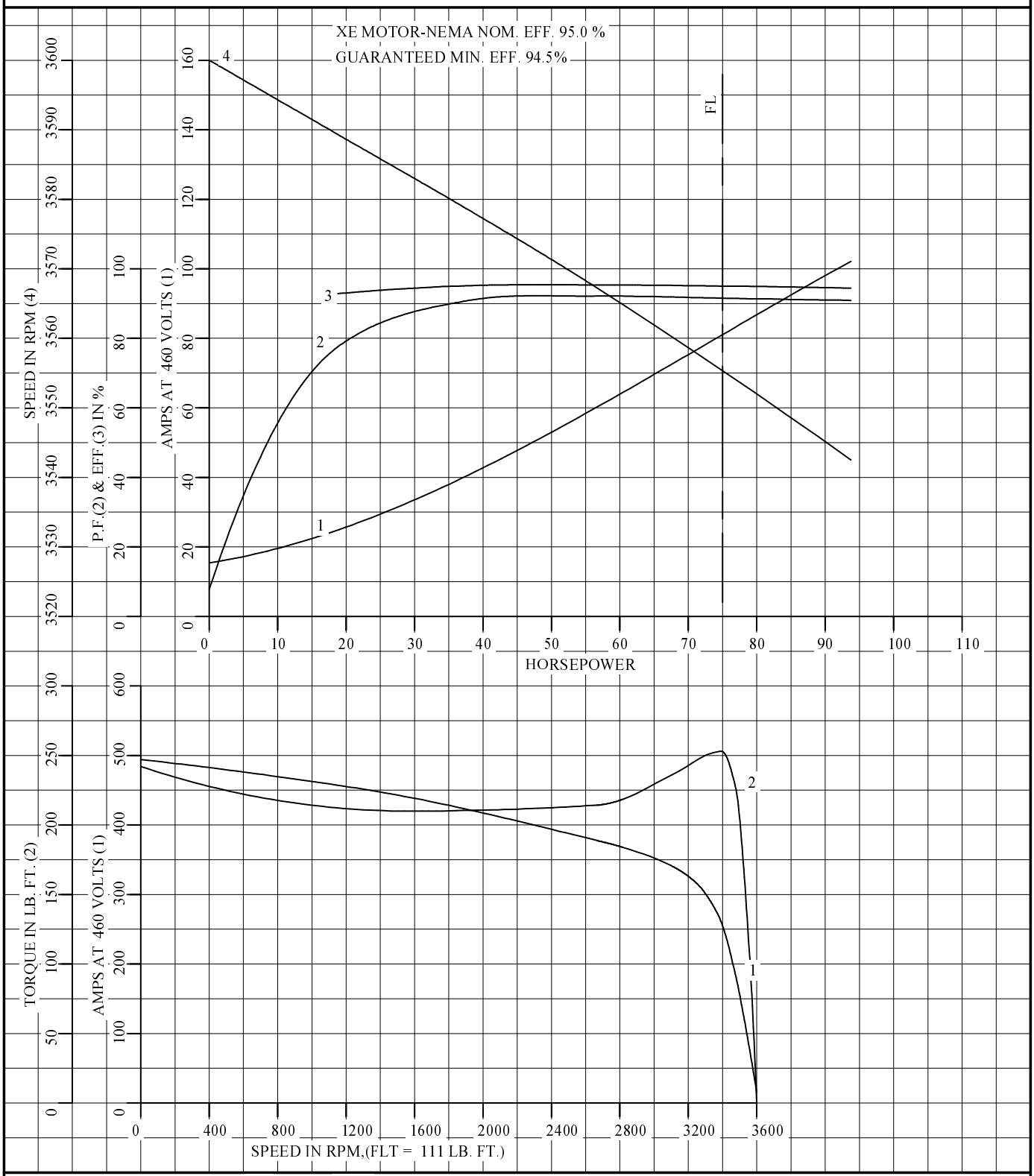
A-C MOTOR PERFORMANCE DATA

A36WG0761-R001
ISSUE DATE 12/15/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

FRAME 365HP	RPM 3555	S.F. 1.15	ROTOR 418141005TE
HP 75	VOLTS 230/460	NEMA DESIGN F	TEST S.O. TYPICAL DATA
TYPE P	AMPS 161/80.7	CODE LETTER F	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃ .0186/.0744
	AMB ℃/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

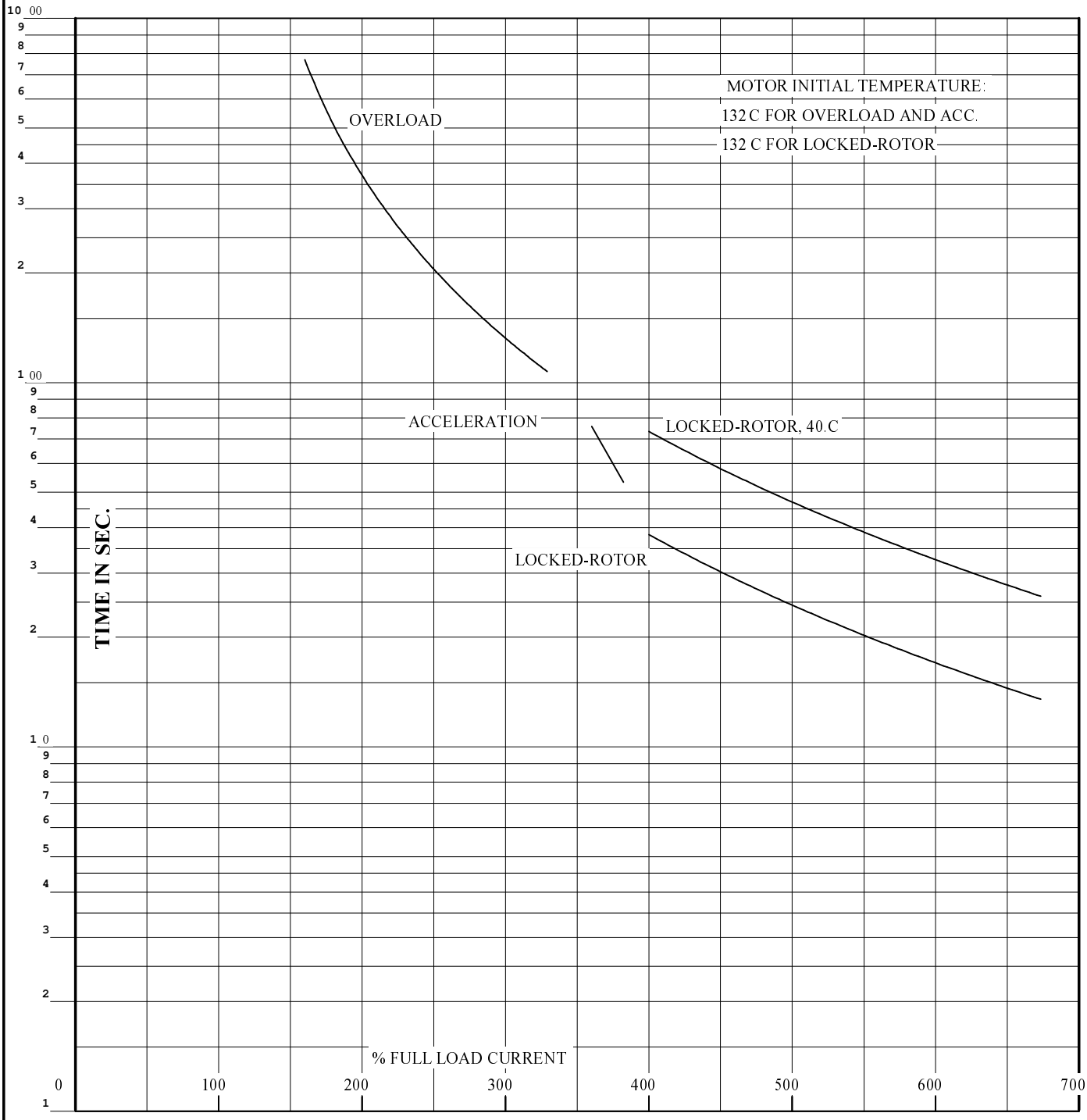
DR. BY J.J.HARRISON
CK. BY G. R. WEBB
APP. BY W.L. SMITH
DATE 10/16/02

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 ℃.0186/.0744
PHASE/HERTZ 3/60	AMB ℃/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%

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

DUTY MASTER ALTERNATING CURRENT MOTORS

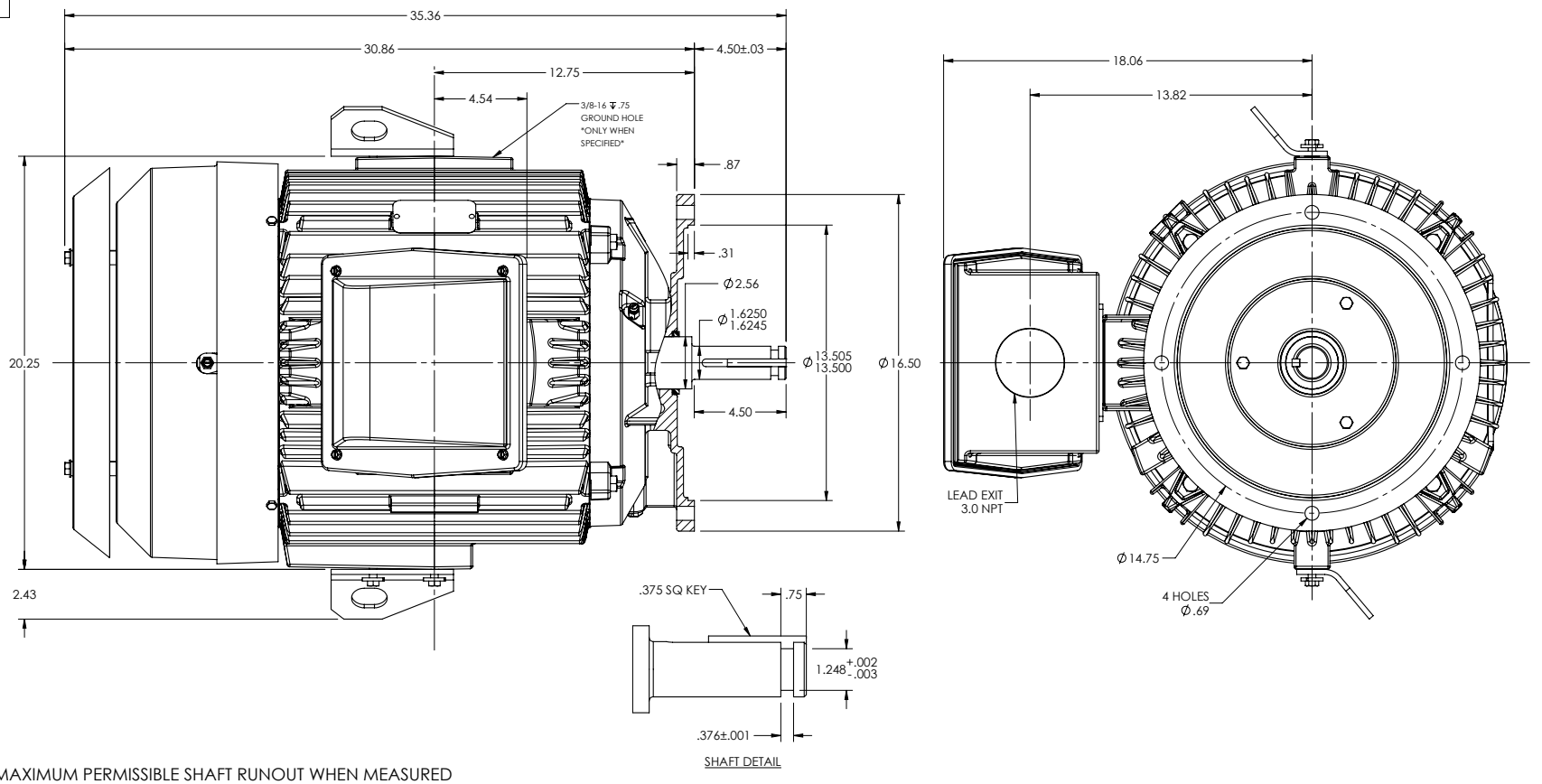
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

617428-035

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: NEMA HP & HPH NORMAL THRUST - SOLID SHAFT

FRAMES 364HP-365HP

COOLING: FAN COOLED



SHAFT DETAIL

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .001 MAX T.I.R.

FACE RUNOUT AND 250HP-440HP .004 MAX T.I.R. ECCENTRICITY

WEIGHT (LBS): 364HP = 860
365HP = 980
MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: UPDATE AK AND EU DIMENSION			
REV: C	VERSION: 03	REVISED: 11:39:11 12/19/2016	TDR: 000001009053
MODEL NO. 617428-035			REF:
BY: RAGJSS1			B

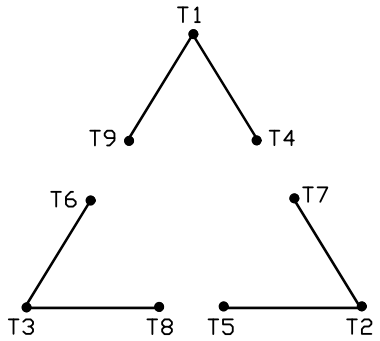
BALDOR

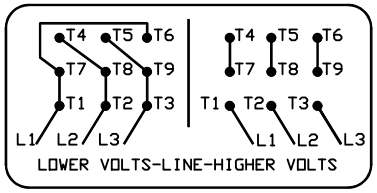
DIM SHT 364-365HP TEFC HPH MED THRUST W/CBOX XT (611740-740)

617428-035

416820-002

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





(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002