ABB BALDOR RELIANCE

Customer information packet

VHECP4310T

60HP, 3550RPM, 3PH, 60HZ, 364HP, 1452M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	364HP
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	60.000 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	NEMA PREMIUM
	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Bracket Mounted
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	65.100 A @ 460.0 V
	130.000 A @ 230.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	65.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0760
Layout	617428-035
Eff. date	08-12-2025
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.36 IN
Power Factor	91
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3560 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW												
CAT.NO.	VHECP4310T			**SPEC NO.**	P36G3416							
HP	60	**AMPS**	130/65.1	**VOLTS**	230/460	**DESIGN**	B					
FRAME	364HP	**RPM**	3560	**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**	G					
D.E.BRG.DATA	6313	**POWER FACTOR**	90.7	**NEMA NOM EFFICIENCY**	95							
O.D.E.BRG.DATA	6313	**MAX CORR KVAR**	05.0	**GUARANTEED EFFICIENCY**	94.5							
3/4 LOAD EFF.	95	**NEMA NOM/CSA QUOTED EFF**										
SER.NO.		**MOTOR WEIGHT**										

000901002AAA
SUIT FOR 208 V AT 144 AMPS

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364HP	60	P	3/60	3560	230/460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
130/65.1	CONT	40/F	1.15	F	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
491281	418141005XE	---	---	.0254/.101

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	14.1	3600	6.54	0
1/4	15.0	20.8	3590	72.8	93.1
2/4	30.0	33.4	3580	88.2	95.3
3/4	45.0	48.6	3570	90.7	95.5
4/4	60.0	65.1	3559	90.7	95.1
5/4	75.0	82.2	3547	90.3	94.5

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	203	180	435
PULL UP	1565	176	156	355
BREAKDOWN	3397	233	206	212
FULL LOAD	3559	100	88.5	65.1

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

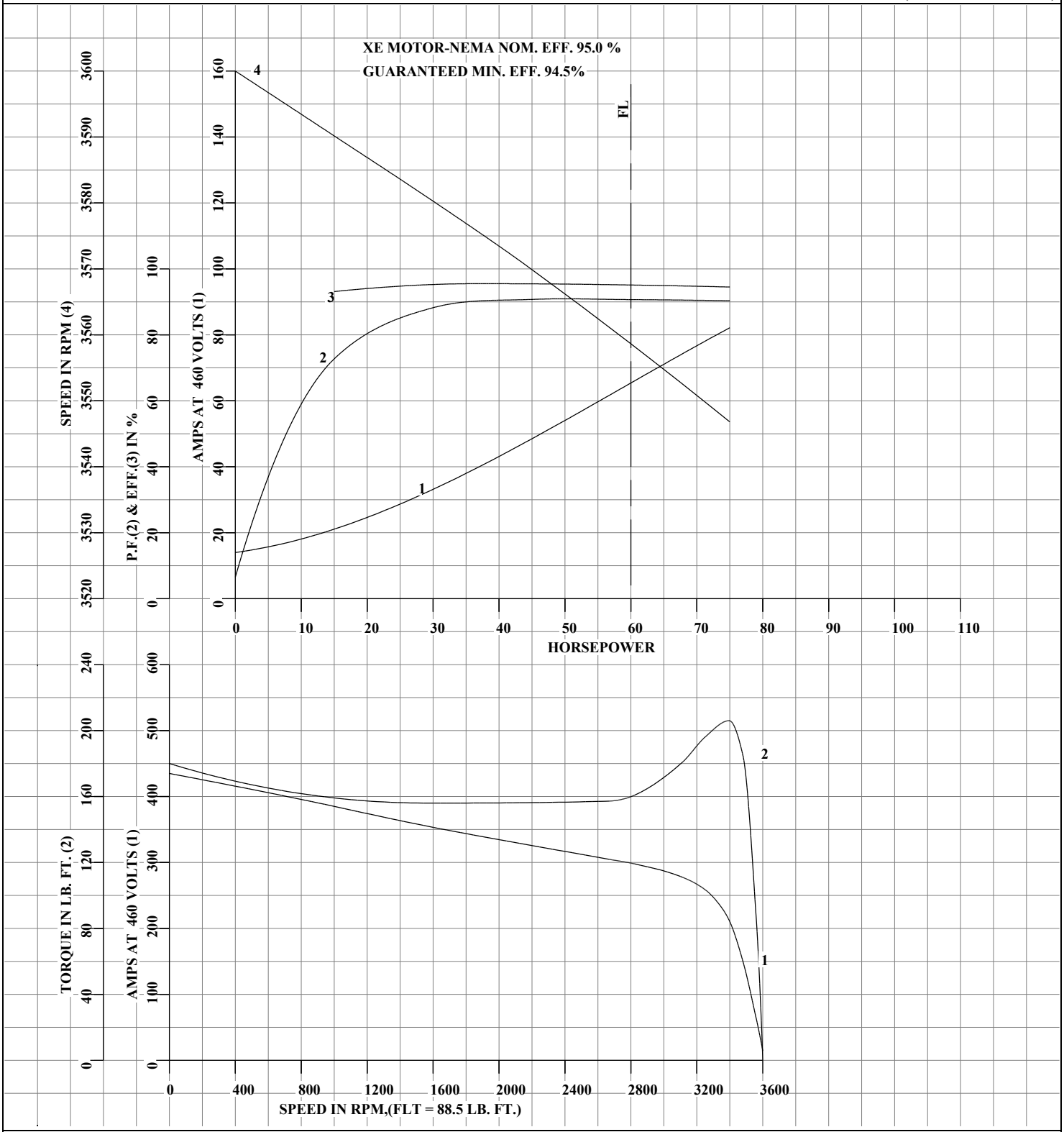
TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 95.0 %
GUARANTEED MIN. EFF. 94.5%

ABB	DRAWN BY: W. L. SMITH CHECKED BY: G. R. WEBB APPROVED BY: D. M. BYRD DATE: 03/11/02	AC MOTOR PERFORMANCE DATA	A36WG0760-R001 DATE ISSUED 09/26/18

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

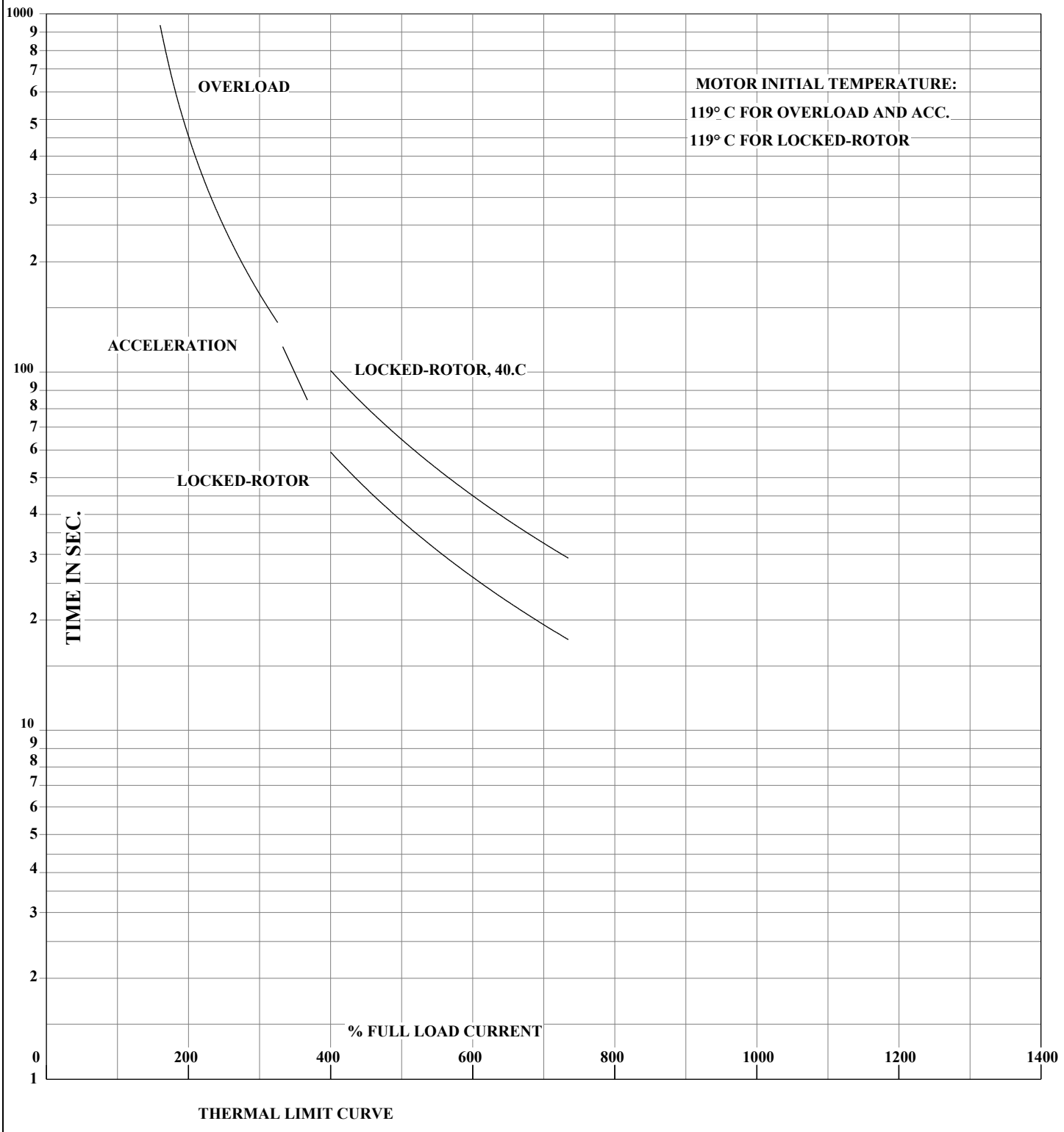
FRAME 364HP	RPM 3560	S.F. 1.15	ROTOR 418141005XE
HP 60	VOLTS 230/460	NEMA DESIGN F	TEST S.O. TYPICAL DATA
TYPE P	AMPS 130/65.1	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0254/.101
	AMB °C / INSUL 40/F	E/S 491281	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

	DRAWN BY: W. L. SMITH CHECKED BY: G. R. WEBB APPROVED BY: D. M. BYRD DATE: 03/11/02	AC MOTOR PERFORMANCE DATA	A36WG0760-R001 ISSUE DATE 09/26/18

FRAME 364HP	RPM 3560	S.F. 1.15	ROTOR 418141005XE
HP 60	VOLTS 230/460	NEMA DESIGN F	TEST S.O. TYPICAL DATA
TYPE P	AMPS 130/65.1	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0254/.101
	AMB °C / INSUL 40/F	E/S 491281	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

ABB	DRAWN BY: W. L. SMITH CHECKED BY: G. R. WEBB APPROVED BY: D. M. BYRD DATE: 03/11/02	AC MOTOR PERFORMANCE DATA	A36WG0760-R001 ISSUE DATE 09/26/18

DUTY MASTER ALTERNATING CURRENT MOTORS

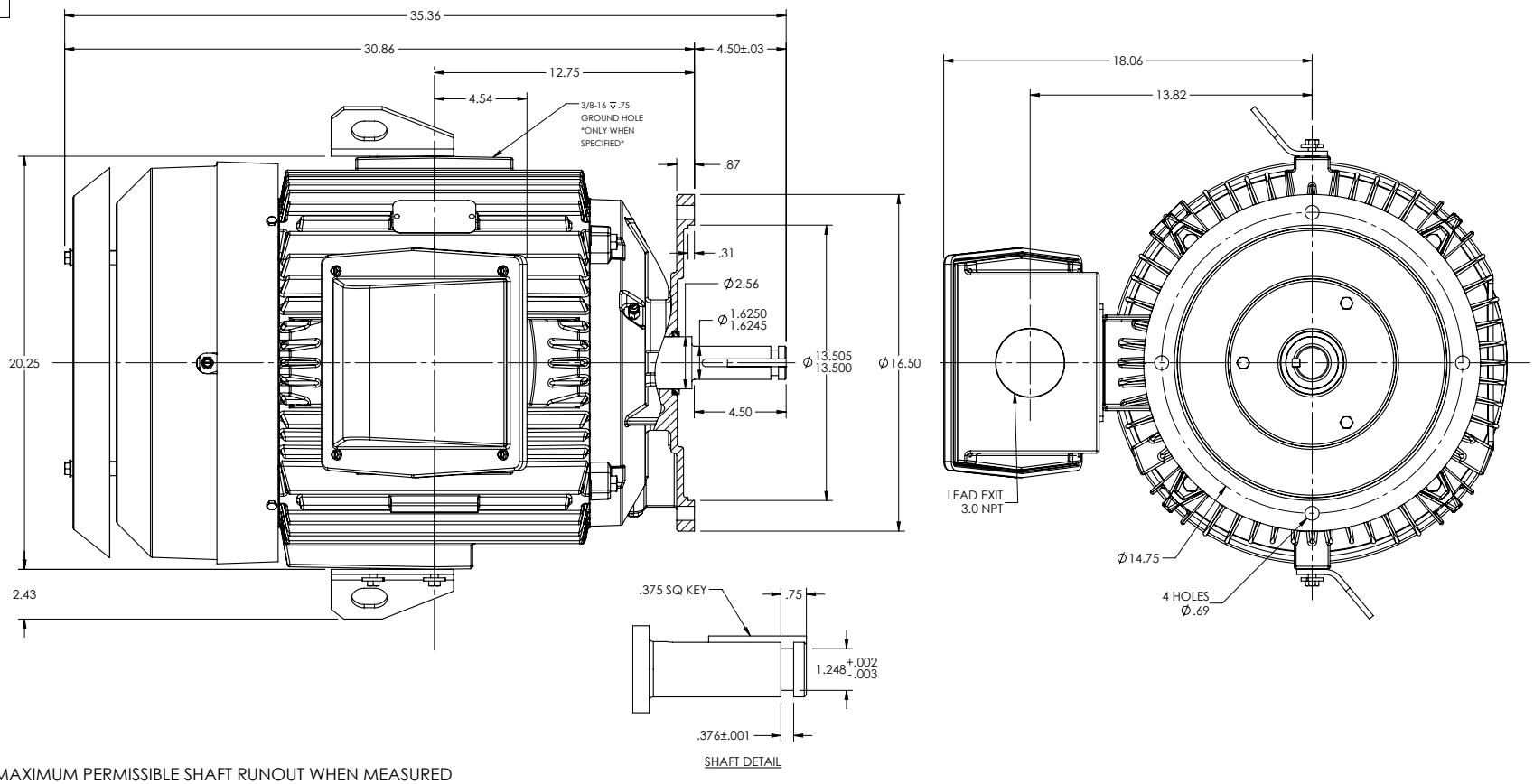
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

617428-035

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

FRAMES 364HP-365HP

COOLING: FAN COOLED



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

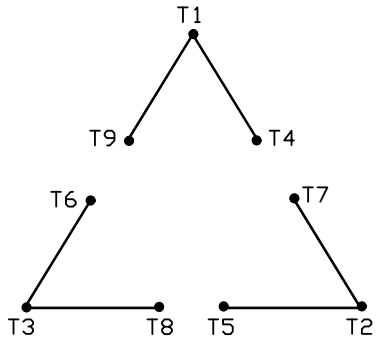
BALDOR

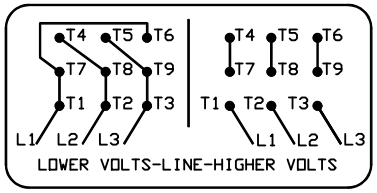
DIM SHT 364-365HP TEFC HPH MED THRUST W/CBOX XT (611740-740)

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