ABB BALDOR RELIANCE

Customer information packet

EM4310T

60HP, 3560RPM, 3PH, 60HZ, 364TS, A36056M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	364TS
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	CCSAUSEEV
	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	65.400 A @ 460.0 V
	145.000 A @ 208.0 V
	131.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	65.4 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	AA
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0224
Layout	617428-013
Eff. date	08-12-2024
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.36 IN
Power Factor	91
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 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 - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3979LUA

CAT #	EM4310T			**SER**				**CC**	010A															
SPEC	P36G3404			**RATING**	40C AMB-CONT																			
HZ	**VOLTS**			**AMPS**			**RPM**	**HP**	**CODE**	-	**SF**		**DES**	**PF**			**NEMA NOM. EFF**							
60	230/460			131/65.4			3555	60	G		1.15		B	91	**%**		94.5	**%**						
	-														**%**			**%**						
PH	3	**CL**	F	**MAX CORR KVAR**	5.0																			
BRG	**DE**	6313	**ODE**	6313	**ENCL**	TEFC	**FR**	364TS			54													
GREASE	POLYREX EM							**MTR WT**	855	**LBS**														
USABLE AT	50HZ 50HP 190/380V 132/66A							SF1.0																
INVERTER DUTY	**CT**	15-60	**HZ**	4:1	**VT**	3-60	**HZ**	20:1	**CHP**	60-75	**HZ**	1.25:1	**1.0 SF VPWM**											
MAX RPM	4500	SFA 151/75.5																						

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364	60	P	3/60	3555	230/460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
131/65.4	CONT	40/F	1.15	B	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	7.60	0
1/4	15.0	20.9	3589	73.2	92.1
2/4	30.0	33.6	3579	88.4	94.7
3/4	45.0	48.8	3567	90.8	95.0
4/4	60.0	65.4	3555	90.7	94.6
5/4	75.0	82.7	3542	90.4	94.0

SPEED TORQUE

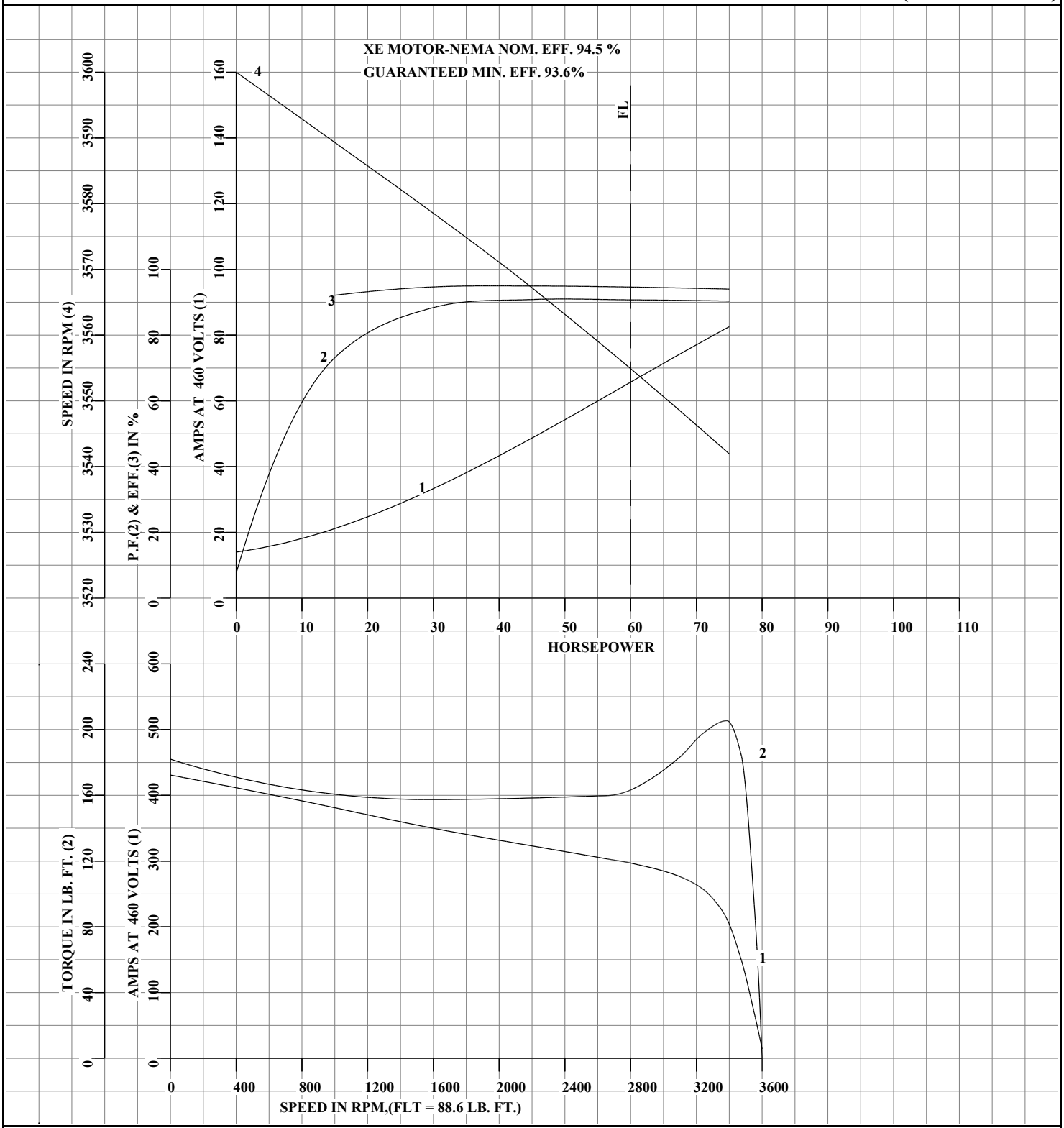
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	205	182	431
PULL UP	1565	178	157	352
BREAKDOWN	3386	232	205	212
FULL LOAD	3555	100	88.6	65.4

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. 94.5 %
GUARANTEED MIN. EFF. 93.6%

ABB	DRAWN BY: W. L. SMITH CHECKED BY: G. R. WEBB APPROVED BY: E.J.CHRISTIAN DATE: 03/11/02	AC MOTOR PERFORMANCE DATA	A36WG0224-R004 DATE ISSUED 01/11/22

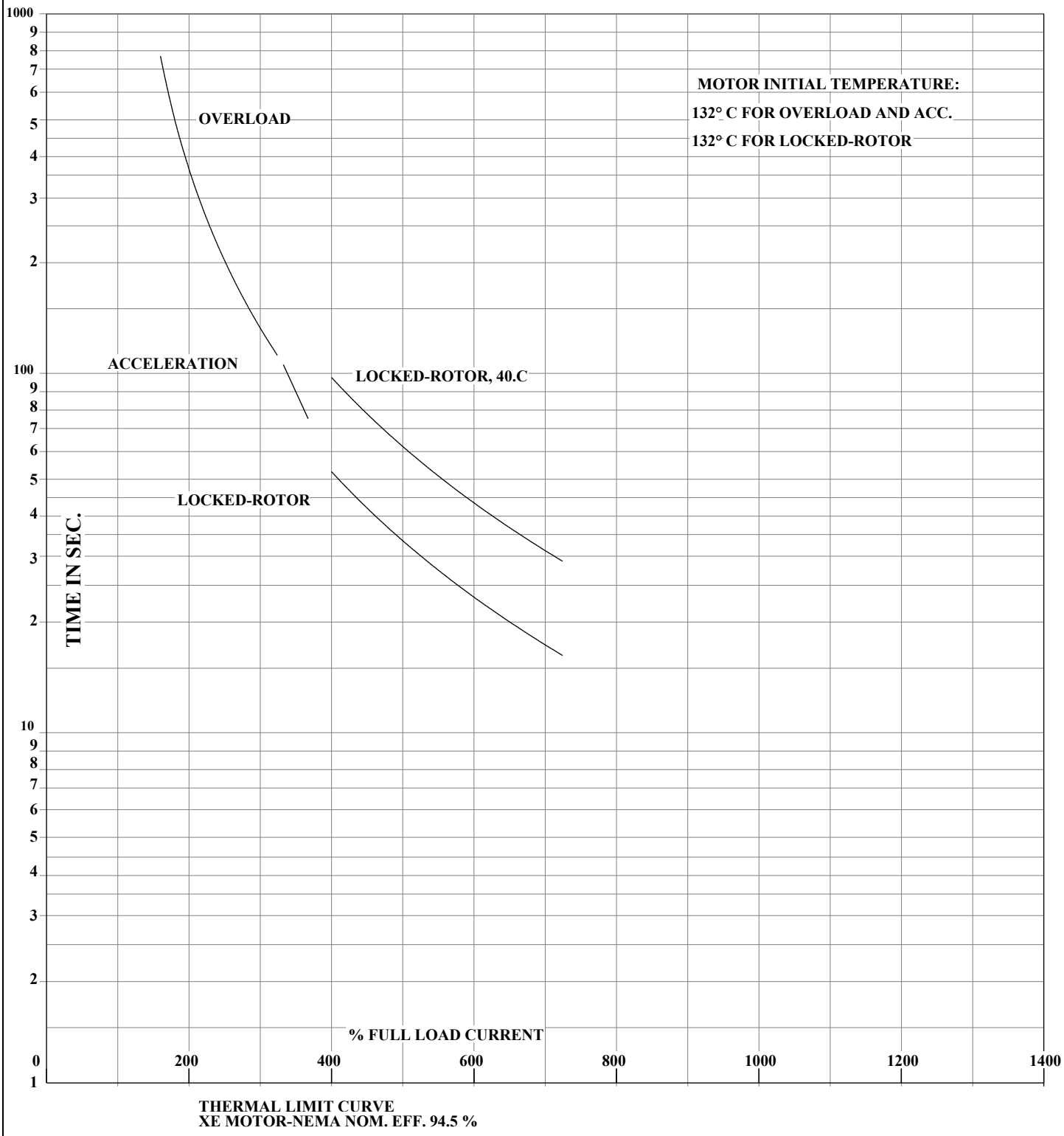
FRAME 364	RPM 3555	S.F. 1.15	ROTOR 418141005XE
HP 60	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 131/65.4	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0254/.101
	AMB °C / INSUL 40/F	E/S 491281	OHMS (BETWEEN LINES)



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

ABB	DRAWN BY: W. L. SMITH CHECKED BY: G. R. WEBB APPROVED BY: E.J.CHRISTIAN DATE: 03/11/02	AC MOTOR PERFORMANCE DATA	A36WG0224-R004 ISSUE DATE 01/11/22

FRAME 364	RPM 3555	S.F. 1.15	ROTOR 418141005XE
HP 60	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 131/65.4	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
XE MOTOR-NEMA NOM. EFF. 94.5 %

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: E.J.CHRISTIAN DATE: 03/11/02	AC MOTOR PERFORMANCE DATA	A36WG0224-R004 ISSUE DATE 01/11/22

DUTY MASTER ALTERNATING CURRENT MOTORS

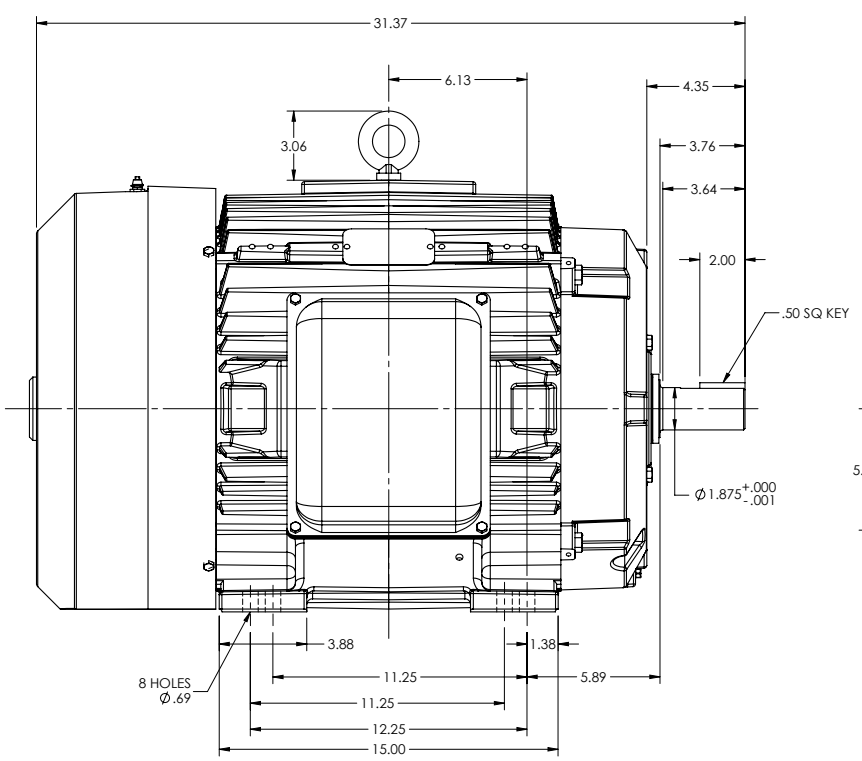
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

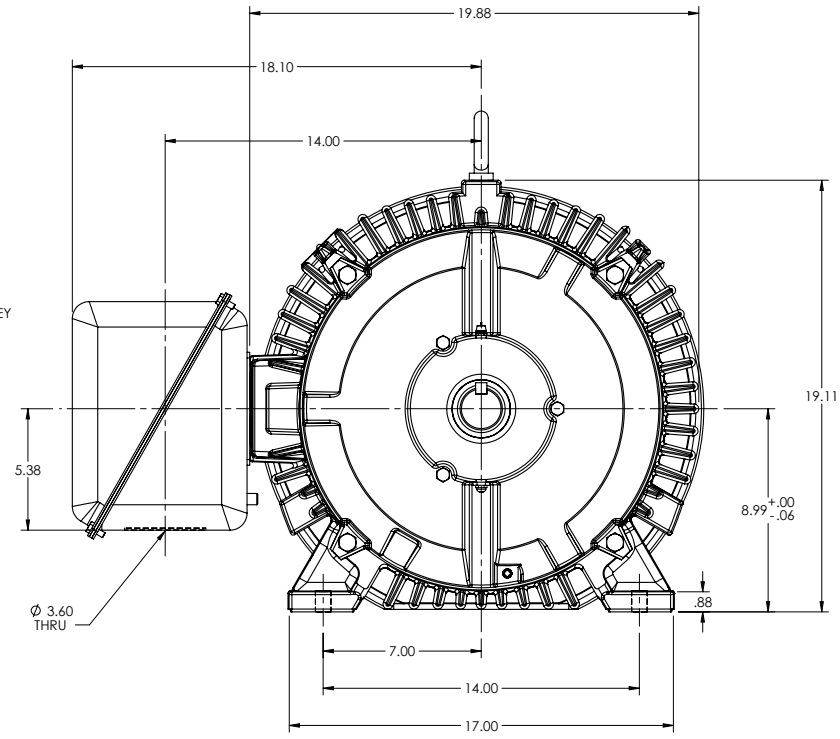
ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364TS-365TS

COOLING: FAN COOLED

617428-013





MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

WEIGHT (LBS): 364T = 794
365T = 834

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 MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: C	VERSION: 03	REVISED: 01:50:19 10/03/2022	TDR: 000001196512
MODEL NO. 617428-013			REF:
BY: ENFRAJ0			B

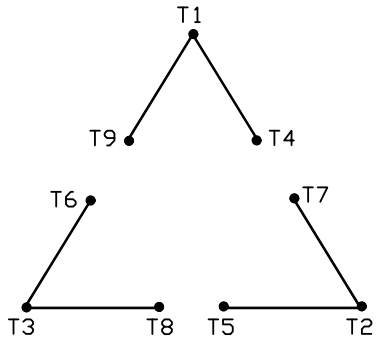
BALDOR

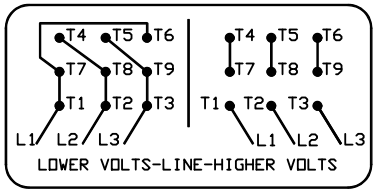
DIM SHT TEFC 364-365TS FT MTG W/GRSR AND RELIEF

617428-013

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