ABB BALDOR RELIANCE

Customer information packet

ECR9506TR

50HP, 1180RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	365T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	6-60
Current @ Voltage	61.900 A @ 460.0 V
	124.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	61.9 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	R
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG3910
Layout	617428-034
Eff. date	02-09-2026
CD Diagram	416820-002
Poles	06
Leads	9#4
Proprietary	False
Created date	02-02-2015

KVA Code	G
Lifting Lugs	No Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3668M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.49 IN
Power Factor	80
Product Family	Crusher / Chipper
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.25
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3980LUA

CAT #	ECR9506TR			**SER**				**CC**	010A											
SPEC	P36G3501			**RATING**	40C AMB-CONT															
HZ	**VOLTS**		**AMPS**		**RPM**	**HP**	**CODE**		**SF**	**DES**	**PF**		**NEMA NOM. EFF**							
60	230/460		124/61.9		1180	50	G		1.25	A	80	%	94.1	%						
	-											%		%						
PH	3	**CL**	F	**MAX CORR KVAR**	15.4															
BRG	**DE**	NU313	**ODE**	6313	**ENCL**	TEFC	**FR**	365T		55										
GREASE	MOBIL SHC 220						**MTR WT**	923	**LBS**											
USABLE AT	50HZ 40HP 190/380V 120/60A						SF1.0													
INV READY	**1.0 SF VPWM**	**CT**	10-60	**HZ**	6:1	**VT**	0-60	**HZ**	1000:1	**CHP**	60-90	**HZ**	1.5:1							
MAX RPM	2700	SFA 152/76																		

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365	50	P	3/60	1185	230/460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
124/61.9	CONT	40/F	1.25	A	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
---	418141-080-TE	---	---	.0290/.116

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	25.8	1200	4.36	0
1/4	12.5	29.5	1196	44.0	90.5
2/4	25.0	37.9	1192	66.0	93.8
3/4	37.5	48.9	1188	76.0	94.3
4/4	50.0	61.9	1183	80.4	94.1
5/4	62.5	76.4	1178	81.9	93.5

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	269	598	371
PULL UP	740	192	425	296
BREAKDOWN	1115	249	553	204
FULL LOAD	1183	100	222	61.9

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

TYPICAL DATA
NEMA NOM EFF 94.1 PCT.

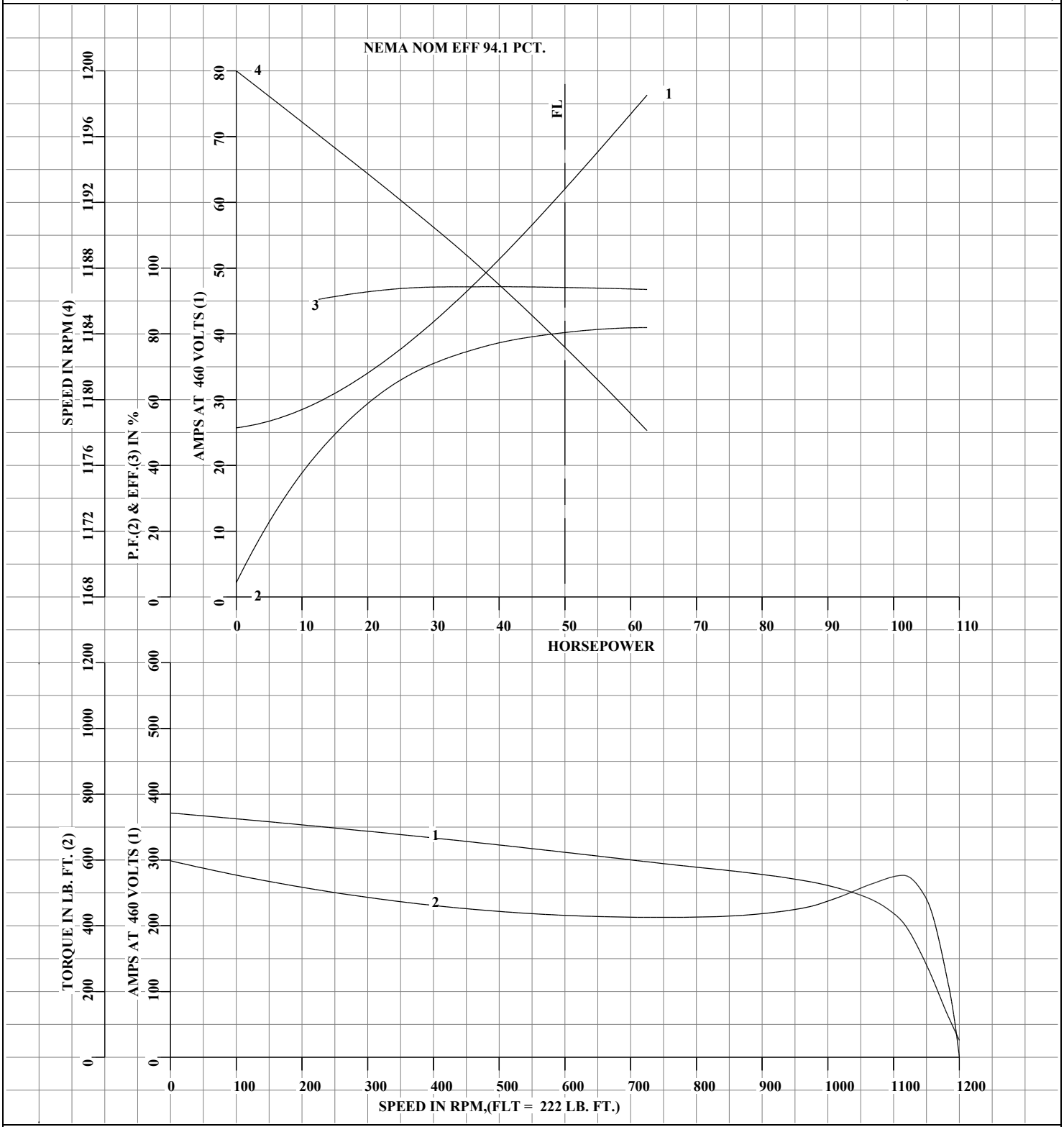
ABB	DRAWN BY: T.KELATI CHECKED BY: T. KELATI APPROVED BY: E.J.CHRISTIAN DATE: 02/03/2015	AC MOTOR PERFORMANCE DATA	A36WG3910-R002 DATE ISSUED 03/24/23

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

FRAME 365	**VOLTS** 230/460	**NEMA DESIGN** A	**TEST S.O.** TYPICAL DATA
HP 50	**AMPS** 124/61.9	**CODE LETTER** G	**TEST DATE** ---
TYPE P	**DUTY** CONT	**ENCLOSURE** TEFC	**STATOR RES. @ 25°C** .0290/.116
PHASE / HERTZ 3/60	**AMB °C / INSUL** 40/F	**E/S** ---	**OHMS (BETWEEN LINES)**

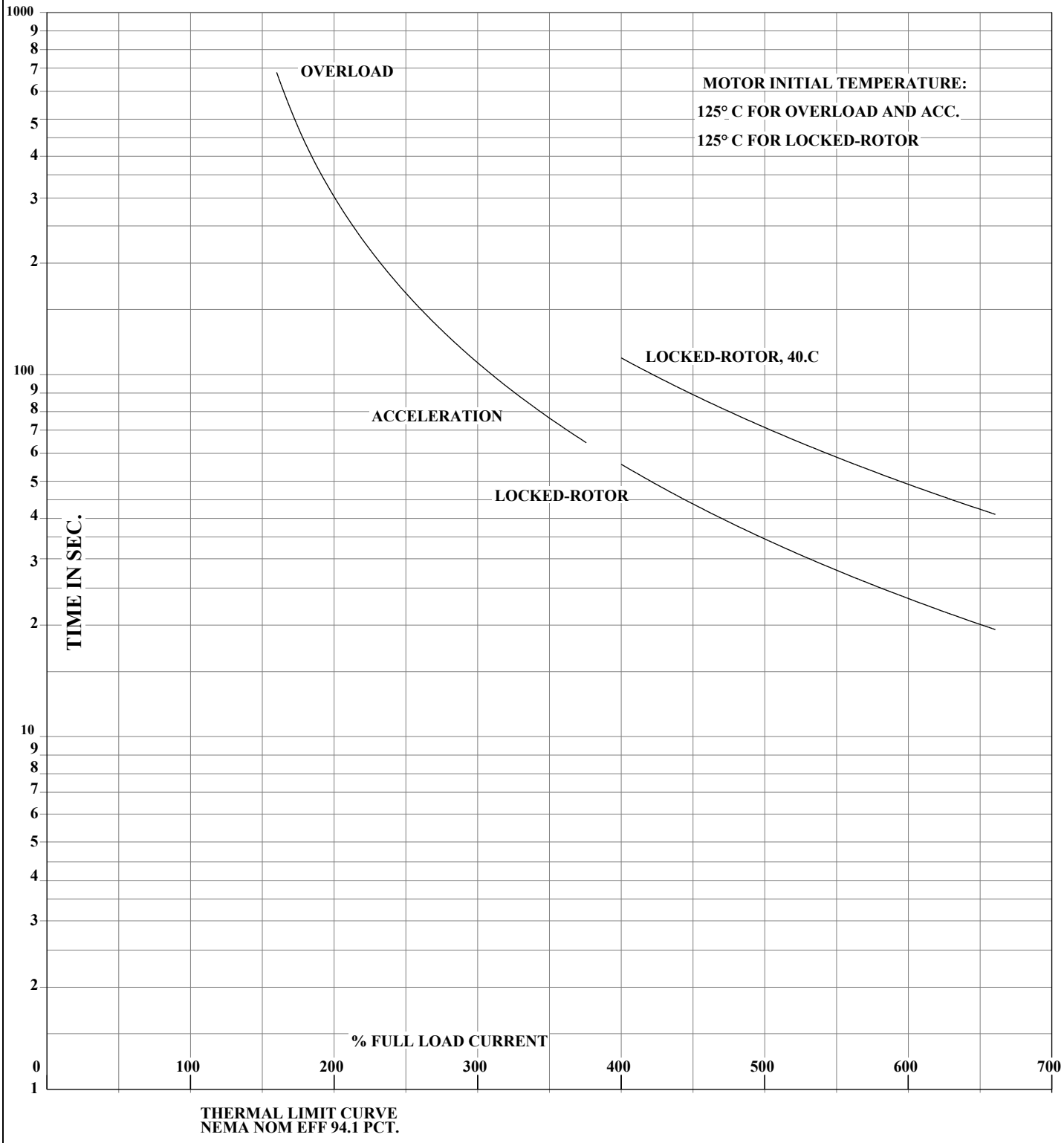
RPM 1185 **S.F.** 1.25 **ROTOR** 418141-080-TE



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

	DRAWN BY: T.KELATI **CHECKED BY:** T. KELATI **APPROVED BY:** E.J.CHRISTIAN **DATE:** 02/03/2015	**AC MOTOR PERFORMANCE DATA**	**A36WG3910-R002** **ISSUE DATE** 03/24/23

FRAME 365	RPM 1185	S.F. 1.25	ROTOR 418141-080-TE
HP 50	VOLTS 230/460	NEMA DESIGN A	TEST S.O. TYPICAL DATA
TYPE P	AMPS 124/61.9	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .0290/.116
	AMB °C / INSUL 40/F	E/S ---	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
NEMA NOM EFF 94.1 PCT.

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: T.KELATI CHECKED BY: T. KELATI APPROVED BY: E.J.CHRISTIAN DATE: 02/03/2015	AC MOTOR PERFORMANCE DATA	A36WG3910-R002 ISSUE DATE 03/24/23

DUTY MASTER ALTERNATING CURRENT MOTORS

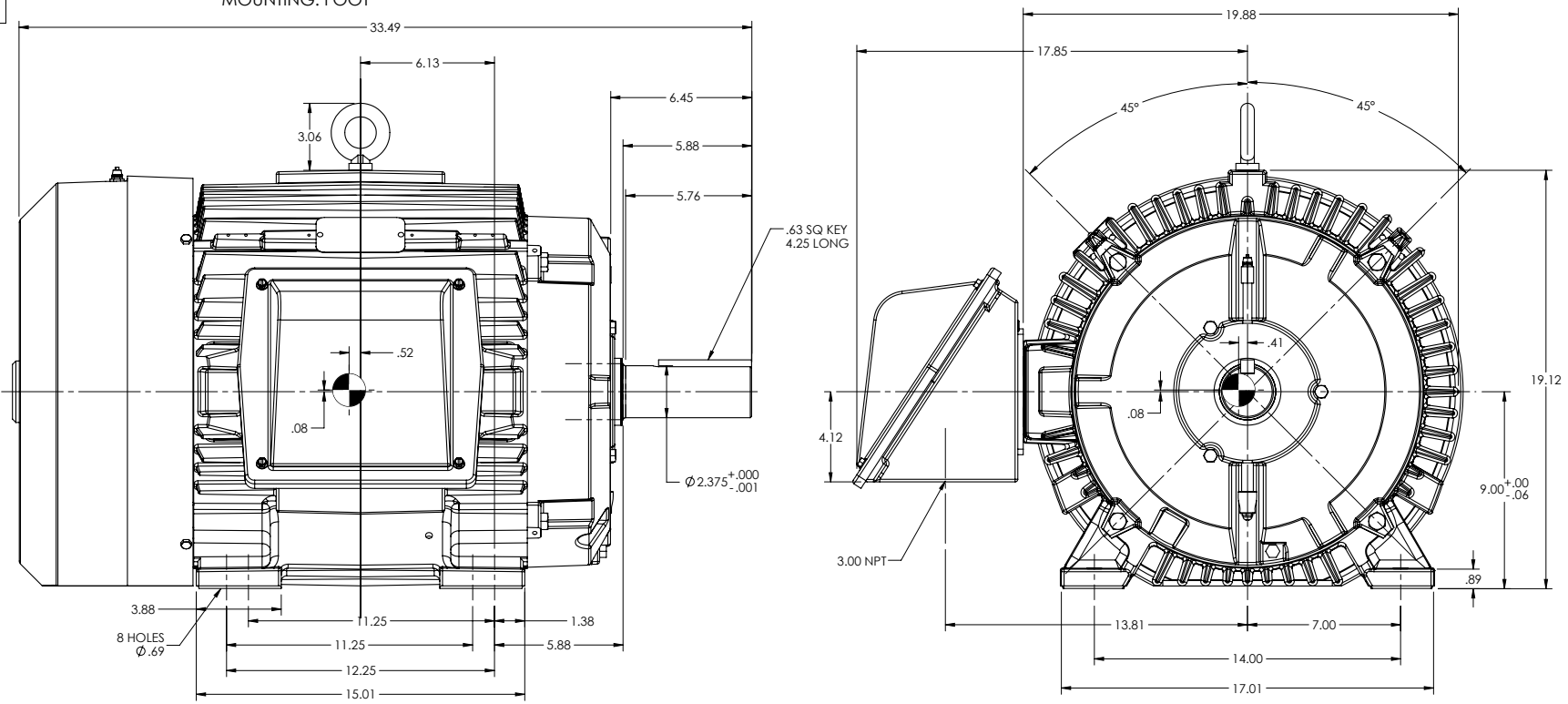
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364T-365T

COOLING: FAN COOLED

617428-034



⊕ DENOTES CENTER GRAVITY VARY ± 1.00 INCH

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.

CONDUIT BOXES LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7, OR C-1 MOUNTING IS SPECIFIED

WEIGHT (LBS): 364T = 865
365T = 890

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: NEW ISSUE			
REV: C	VERSION: 03	REVISED: 01:52:13 06/13/2024	TDR: 000001234622
MODEL NO. 617428-034			REF:
BY: RAGGDM			B

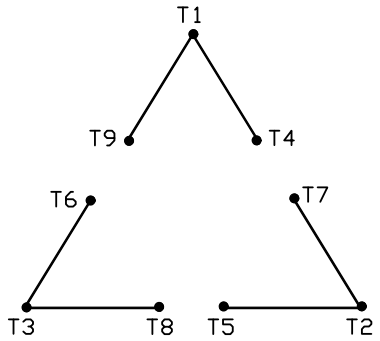
BALDOR

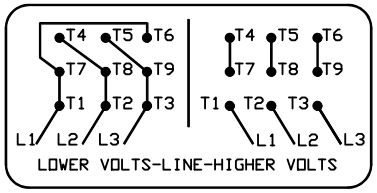
DIM SHEET HOR 364-5T TEFC XT

617428-034

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