ABB BALDOR RELIANCE

Customer information packet

ECP4315T-4

40HP, 890RPM, 3PH, 60HZ, 365T, A36062M, TEFC, F
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	365T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	52.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	52.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 6 AWG
Motor Standards	NEMA

Part Detail

Revision	P
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1042
Layout	617428-034
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	08
Leads	3#6
Proprietary	False
Created date	12-13-2013

Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	33.44 IN
Power Factor	77
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	890 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

NP3238

CAT NO	ECP4315T-4		**SPEC NO.**	A36-5084-1042								
HP	40	**AMPS**	52		**VOLTS**	460		**DESIGN**	B			
FRAME	365T	**RPM**	890	**HZ**	60	**AMB**	40	**SF**	1.15			
D.E. BRG.DATA	6313		**O.D.E. BRG.DATA**	6313			**PH**	3	**DUTY**	CONT	**INSUL.CLASS**	F
D.E. BRG.	65BC03J30X		**TYPE**	P	**ENCL**	TEFC	**CODE**	G				
O.D.E. BRG.	65BC03J30X			**POWER FACTOR**	77			**NEMA NOM EFFICIENCY**	93			
3/4 LOAD EFF.	93.4		**MAX CORR KVAR**	15.0				**GUARANTEED EFFICIENCY**	91.7			
TEMP CODE	T3C	**TEMP =**	160									
CHP HZ	60-90	**CT HZ**	6-60	**VT HZ**	0-60							
INVERTER-TEMP-CODE	T3A											
SER.NO.			**MOTOR WEIGHT**									

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	40	P	3/60	890	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
52	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
492107	418141073EE	---	---	.194

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	25.7	900	3.85	0
1/4	10.0	28.1	897	37.3	89.5
2/4	20.0	33.9	895	59.5	93.0
3/4	30.0	42.2	892	71.2	93.4
4/4	40.0	52.0	889	77.4	93.0
5/4	50.0	63.3	885	80.2	92.2

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	140	330	282
PULL UP	225	123	290	265
BREAKDOWN	845	224	530	157
FULL LOAD	889	100	236	52.0

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. 93.0%, GUAR. EFF. 91.7%

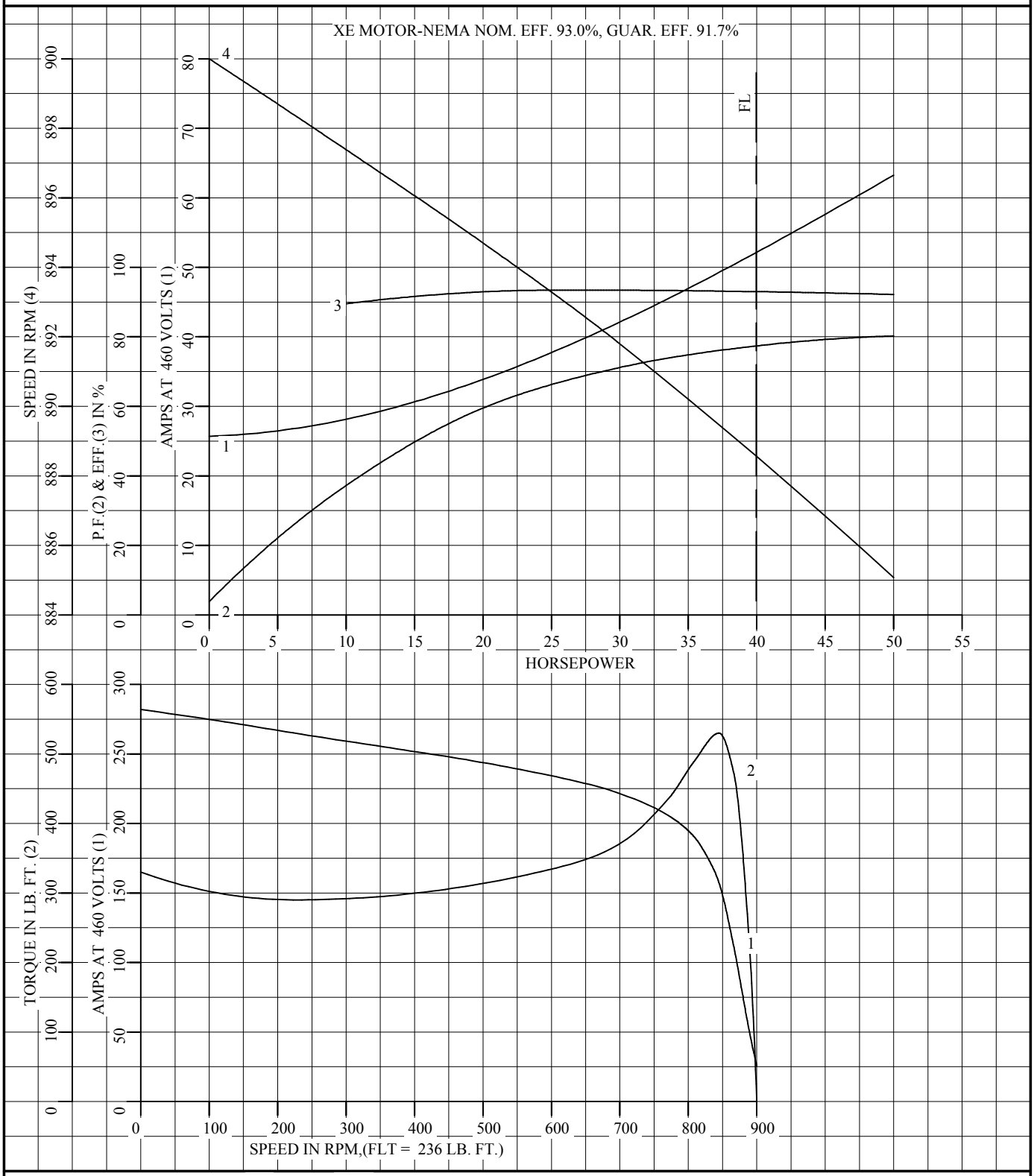
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY B.R. PENDLEY
CK. BY R.K. BRIDGES
APP. BY W. L. SMITH
DATE 08/06/13

A-C MOTOR PERFORMANCE DATA

A36WG1042-R001
ISSUE DATE 08/31/16

REL S.O.		RPM	890	S.F.	1.15	ROTOR	418141073EE
FRAME	365T	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	40	AMPS	52	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.194
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	492107		OHMS (BETWEEN LINES)



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

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DR. BY	B.R. PENDLEY
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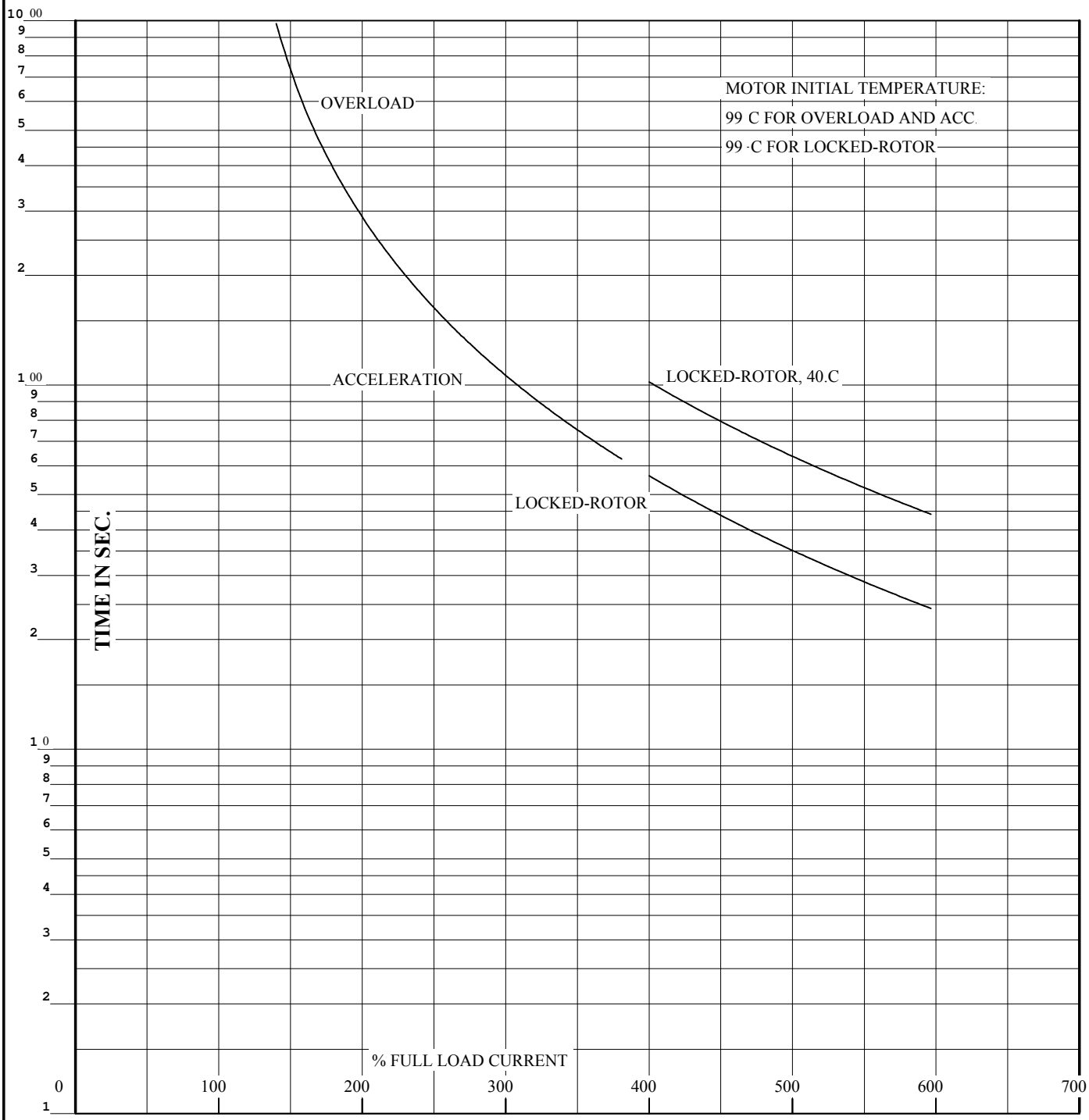
DATE	08/06/13

A-C MOTOR PERFORMANCE CURVES A36WG1042-R001 ISSUE DATE 08/31/16

REL. S.O.		RPM	890	S.F.	1.15	ROTOR	418141073EE
FRAME	365T	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	40	AMPS	52	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.194
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	492107		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 93.0%, GUAR. EFF. 91.7%

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A-C MOTOR PERFORMANCE CURVES

A36WG1042-R001

ISSUE DATE 08/31/16

DUTY MASTER ALTERNATING CURRENT MOTORS

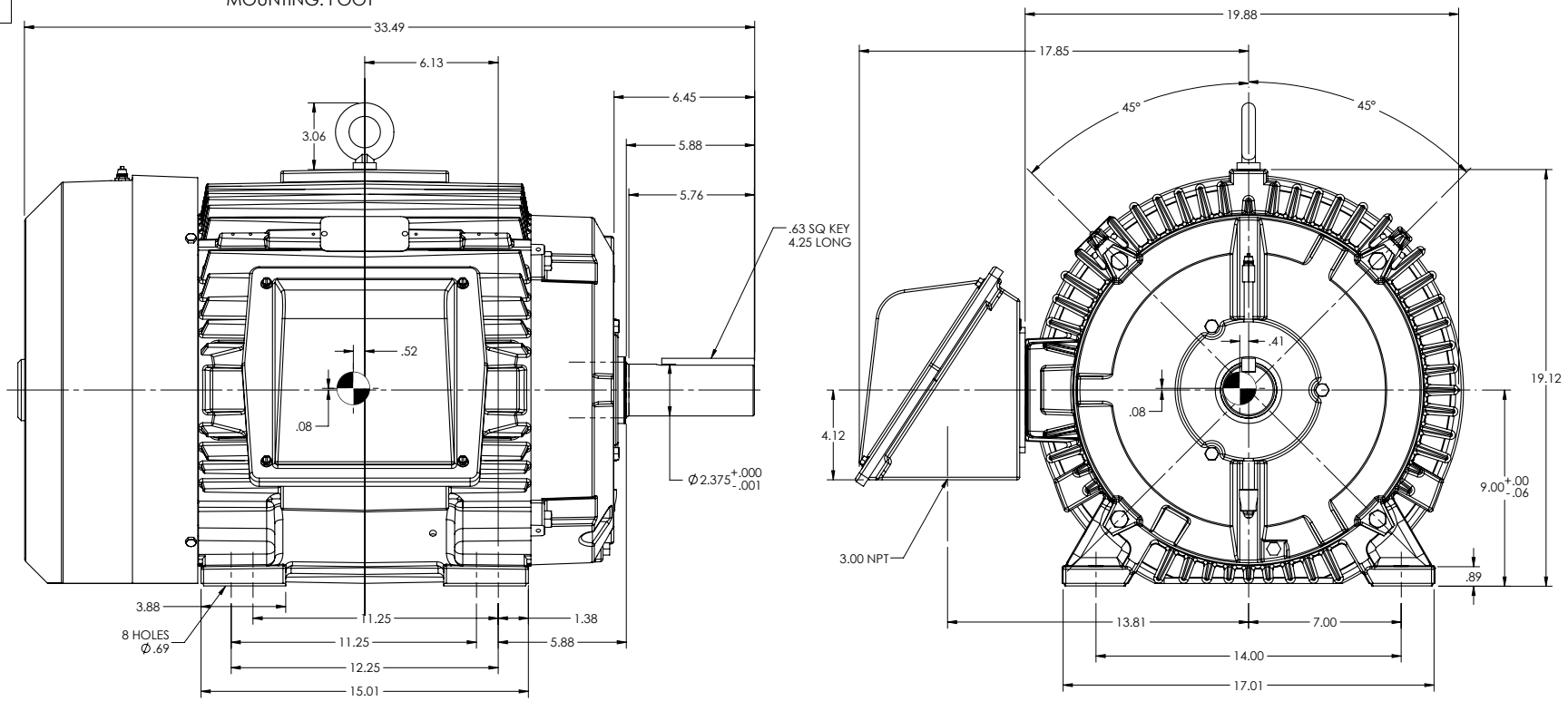
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

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

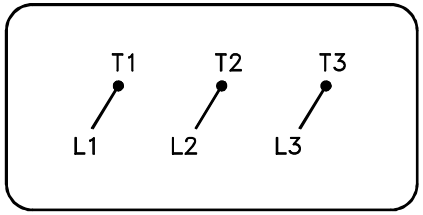
BALDOR

DIM SHEET HOR 364-5T TEFC XT

617428-034

416820–036

A–C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575–BA)

416820–036

REV. DESC: LOADED TO BUS, C/R 335225			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1