ABB BALDOR RELIANCE

Customer information packet

ECTM4312T-5G

50HP, 1185RPM, 3PH, 60HZ, 364T, A36062M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	364T
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	575.0 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)
Current @ Voltage	49.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	49.3 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
Motor Type	A36062M
Mounting Arrangement	F1

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0748
Layout	617438-196
Eff. date	06-06-2023
CD Diagram	416820-036
Poles	06
Leads	3#6
Proprietary	False
Created date	04-12-2022

Number of Poles	6
Overall Length	33.78 IN
Power Factor	81
Product Family	Cooling Tower
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW												
CAT.NO.	ECTM4312T-5G			**SPEC NO.**	A36-0001-0748							
HP	50HP	**AMPS**	49.3		**VOLTS**	575		**DESIGN**	B			
FRAME	364T	**RPM**	1185		**HZ**	60	**AMB**	40	**SF**	1.15		
DRIVE END BEARING	65BC03JGG30A		**PH**	3	**DUTY**	CONT		**INSUL.CLASS**	F			
OPP D.E. BEARING	65BC03JGG30A		**TYPE**	P	**ENCL**	TEFC	**CODE**	G				
D.E.BRG.DATA	6313			**POWER FACTOR**	81			**NEMA NOM EFFICIENCY**	94.1			
O.D.E.BRG.DATA	6313			**MAX CORR KVAR**	14			**GUARANTEED EFFICIENCY**	93			
3/4 LOAD EFF.	94.1			**NEMA NOM/CSA QUOTED EFF**								
SER.NO.				**MOTOR WEIGHT**								

000901002AAA
INV DUTY 20:1 VT

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365T	50	P	3/60	1185	575

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
892105	418141-88JE	---	---	.217

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	17.0	1200	4.99	0
1/4	12.5	20.9	1197	49.3	90.9
2/4	25.0	28.5	1193	70.1	94.0
3/4	37.5	38.2	1190	77.9	94.4
4/4	50.0	49.3	1186	80.6	94.1
5/4	62.5	61.4	1182	81.6	93.4

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	159	352	283
PULL UP	540	144	319	251
BREAKDOWN	1134	219	485	152
FULL LOAD	1186	100	221	49.3

AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

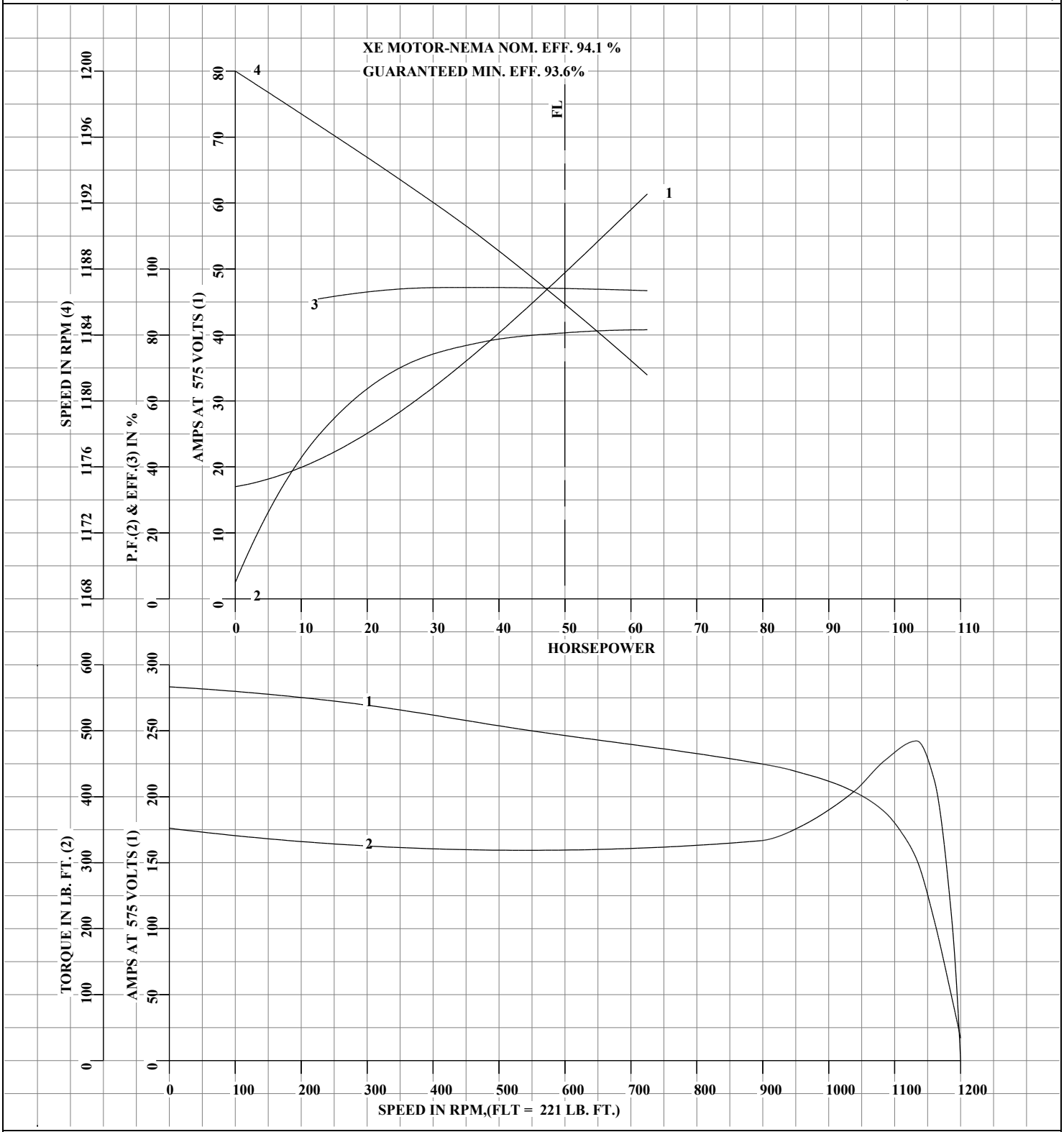
TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 94.1 %
GUARANTEED MIN. EFF. 93.6%

ABB	DRAWN BY: W. L. SMITH CHECKED BY: J.J.HARRISON APPROVED BY: W. L. SMITH DATE: 12/07/05	AC MOTOR PERFORMANCE DATA	A36WG0748-R001 DATE ISSUED 12/15/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

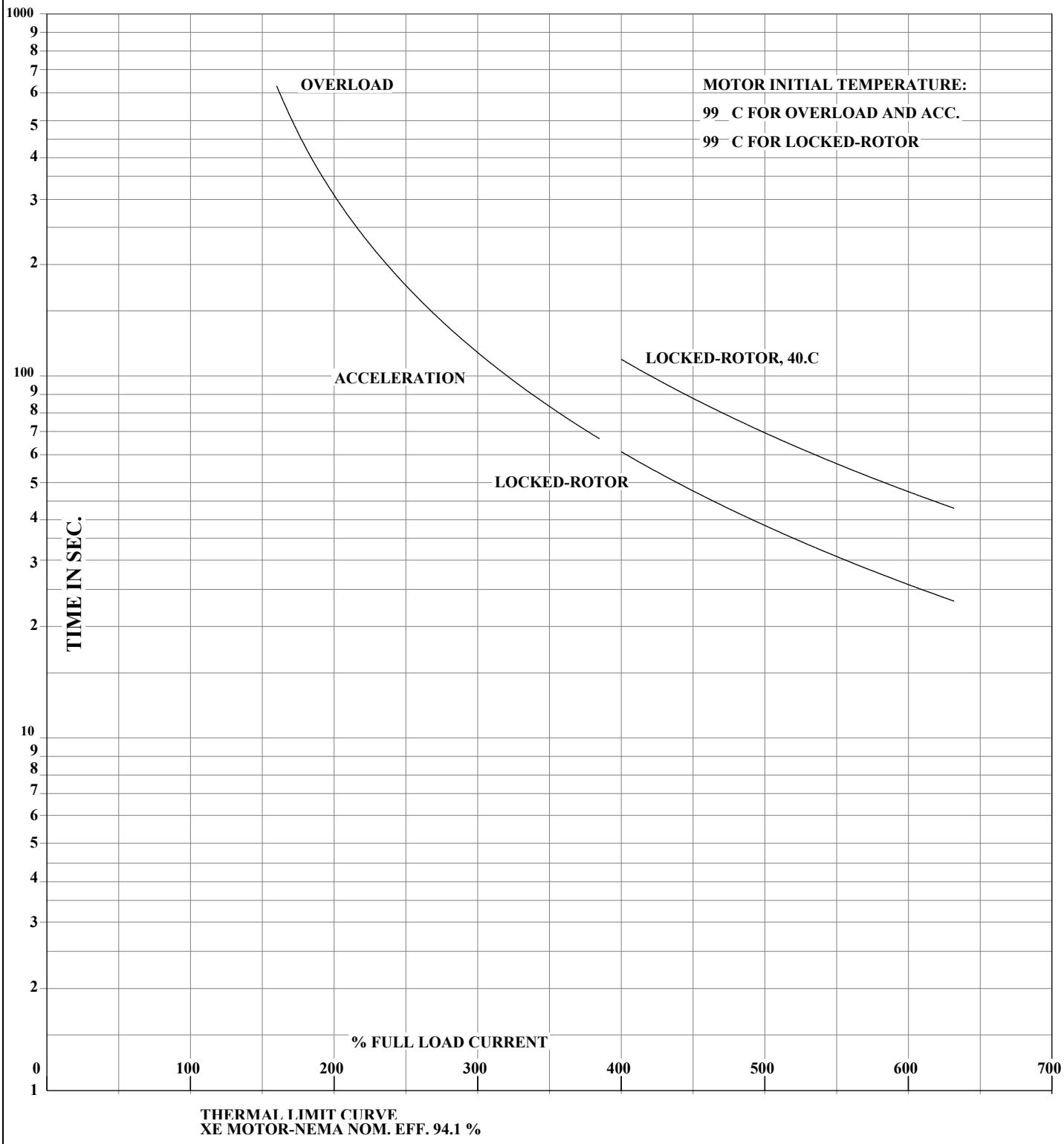
RPM 1185	**S.F. 1.15**	**ROTOR 418141-88JE**	
FRAME 365T	**VOLTS 575**	**NEMA DESIGN B**	**TEST S.O. TYPICAL DATA**
HP 50	**AMPS 49.3**	**CODE LETTER G**	**TEST DATE ---**
TYPE P	**DUTY CONT**	**ENCLOSURE TEFC**	**STATOR RES. @ 25°C .217**
PHASE / HERTZ 3/60	**AMB °C / INSUL 40/F**	**E/S 892105**	**OHMS (BETWEEN LINES)**



AMPERES SHOWN FOR 575 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: J.J.HARRISON** **APPROVED BY: W. L. SMITH** **DATE: 12/07/05**	**AC MOTOR PERFORMANCE DATA**	**A36WG0748-R001** **ISSUE DATE 12/15/10**

FRAME 365T	RPM 1185	S.F. 1.15	ROTOR 418141-88JE
HP 50	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 49.3	CODE LETTER G	TEST DATE ---
PHASE / HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25°C .217
	AMB °C / INSUL 40/F	E/S 892105	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 94.1 %

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

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SHEET NUMBER 1 OF 1

617438-196

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

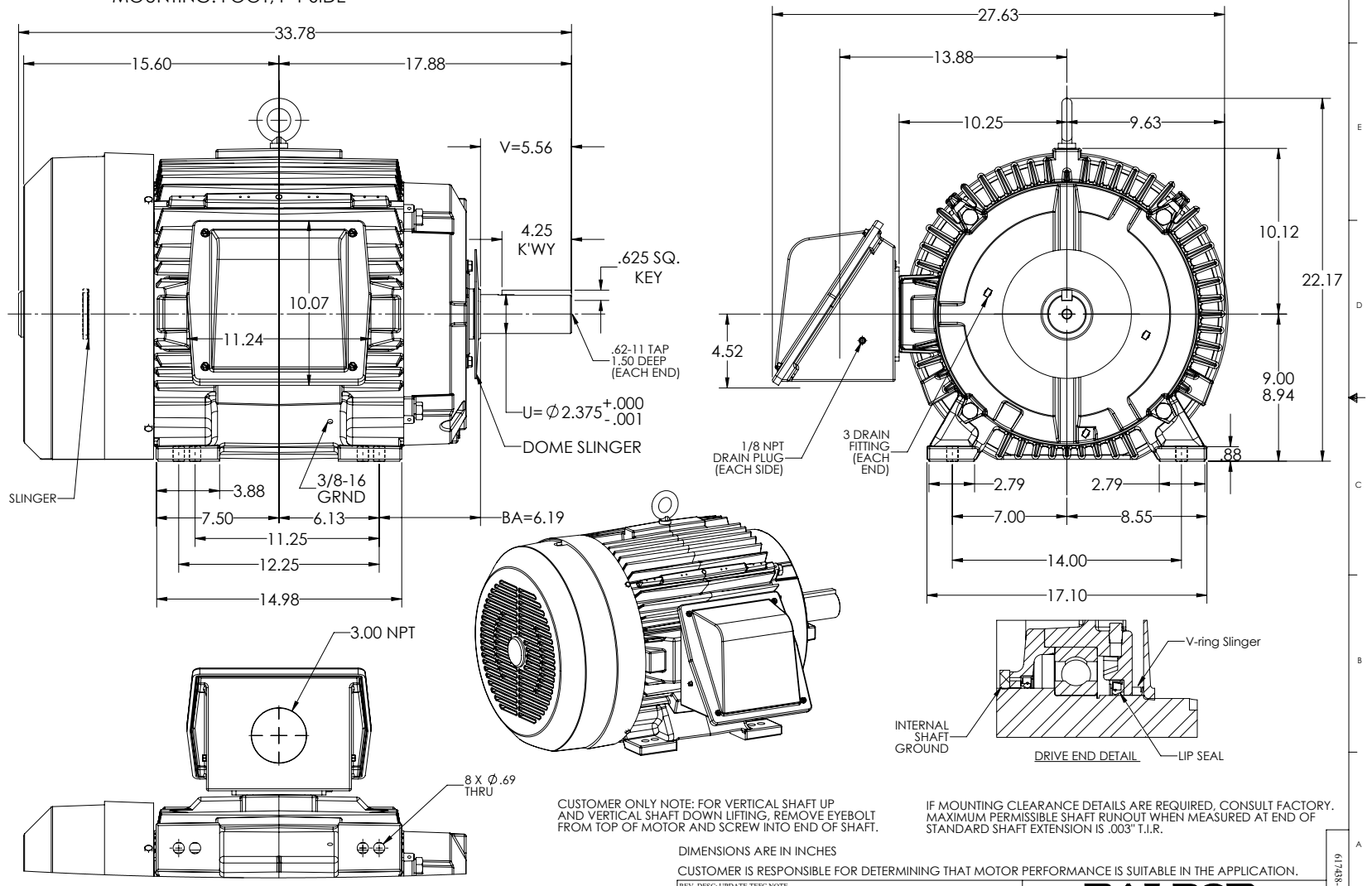
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-1 SIDE

FRAME 365T

INCLUDES 364T FRAME MOUNTING HOLES

COOLING: FAN COOLED



CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP AND VERTICAL SHAFT DOWN LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY. MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE TEFC NOTE			
REV: A	VERSION: 01	REVISED: 01:11:28 07/27/2026	TDR: 000001281709
MODEL NO. 617438-196			
BY: USDOSCO2			C

BALDOR

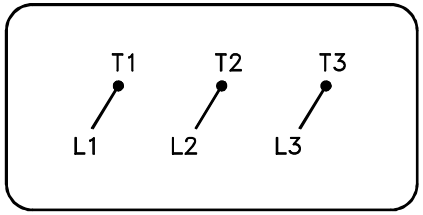
E365T TEFC FT- F1- SLGR, SPCL DRAIN, VERT LIFTING, SH GND

617438-196

617438-196

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