ABB BALDOR RELIANCE

Customer information packet

ECP64314TR-4

60HP, 1780RPM, 3PH, 60HZ, 364T, A3658M, TEFC, W
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	364T
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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	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	15-60
Current @ Voltage	70.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	70.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	AB
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4085
Layout	617428-022
Eff. date	09-09-2024
CD Diagram	CD0006
Poles	04
Leads	3#4
Proprietary	False
Created date	10-19-2010

KVA Code	G
Lifting Lugs	No Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	None
Motor Type	A3658M
Mounting Arrangement	W6
Number of Poles	4
Overall Length	33.48 IN
Power Factor	84
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4371

CAT #	ECP64314TR-4					**FR**	364T		IP55										
SPEC	P36G3368					**ENCL**	TEFC		**DES**	B									
HZ	60	**PH**	3	**CL**	F	**HP**	60	**SF**	1.15	**PF**	84	**%**	**CODE**	G					
VOLTS	460					**AMPS**	70												
RPM	1780			**MAX RPM**	2700		**SER**												
NEMA-NOM-EFF	95	**%**		**RATING**	40C AMB-CONT														
GUAR MIN. EFF	94.1	**%**		**BRG DE**	NU313		**BRG ODE**	6313											
CL I DIV 2 GRPS A,B,C,D				**CL I ZONE 2 GRPS**			**IIA,IIB,IIC**		**TEMP T**	3-200	**C**								
CT HZ	15-60			**VT HZ**	0-60														
CHP HZ	60-90			**INV TEMP CL**	200	**C**													
						MTR WT	924	**LBS**											

NP4372

CAT #	ECP64314TR-4	**ROTOR BARS**	47
SPEC	P36G3368	**STATOR SLOTS**	60
SER		**MAX CORR KVAR**	13.8
GREASE	MOBIL SHC 220		
ABMA DE BRG	65RU03M30X **ODE**	65BC03J30X	

SPACE HEATER LEADS H1-H2: **TIE LIKE NUMBERS TOGETHER**

MAX. SPACE HEATER TEMP. **C** **V** **A** **W**

AC induction motor performance data

Record #72800 - Typical performance - not guaranteed values

Winding	A36WG4085
Type	A3658M
Enclosure	TEFC

Nameplate data			
Rated Output			60
Volts			460
Full Load Amps			70
R.P.M.			1780
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	95	Power Factor	84
Duty			CONT
S.F. Amps			

460 V, 60 Hz:
High Voltage Connection

Full Load Torque	176.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	422 LB-FT
Pull-up Torque	276 LB-FT
Locked-rotor Torque	352 LB-FT
Starting Current	462 A
No-load Current	24.8
Line-line Res. @ 25°C	0.10816 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	32.1
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	51	73	81	84	86	85	85
Efficiency	0	92.6	95.1	95.4	95.2	94.6	93.8	94.8
Speed	1798.9	1796.4	1792.4	1788	1783.7	1778.3	1772.3	1780
Line amperes	24.8	29.7	40.7	54.4	69.7	86.6	105	79.8

ABB BALDOR RELIANCE

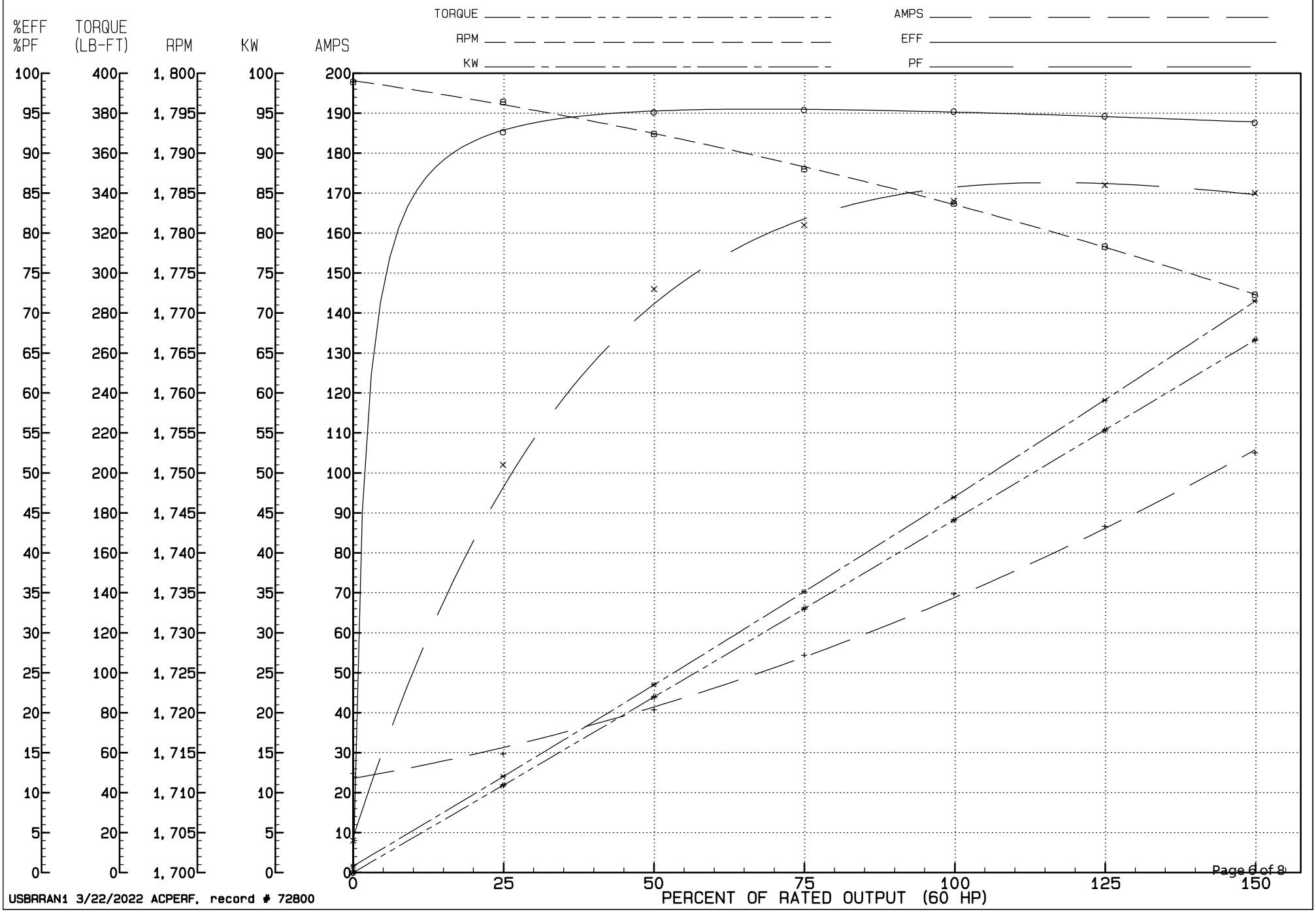
CUSTOMER INFORMATION PACKET ECP64314TR-4 - 60HP, 1780RPM, 3PH, 60HZ, 364T, A3658M, TEFC, W

WINDING # A36WG4085

REVIEW

60 HP 3 PH 60 HZ 1780 RPM 460 V A3658M

TORQUES (LB-FT): PO=422.00 PU=276.00 LR=352.00 LRA=462.00



USBRRAN1 3/22/2022 ACPERF, record # 72800

DUTY MASTER ALTERNATING CURRENT MOTORS

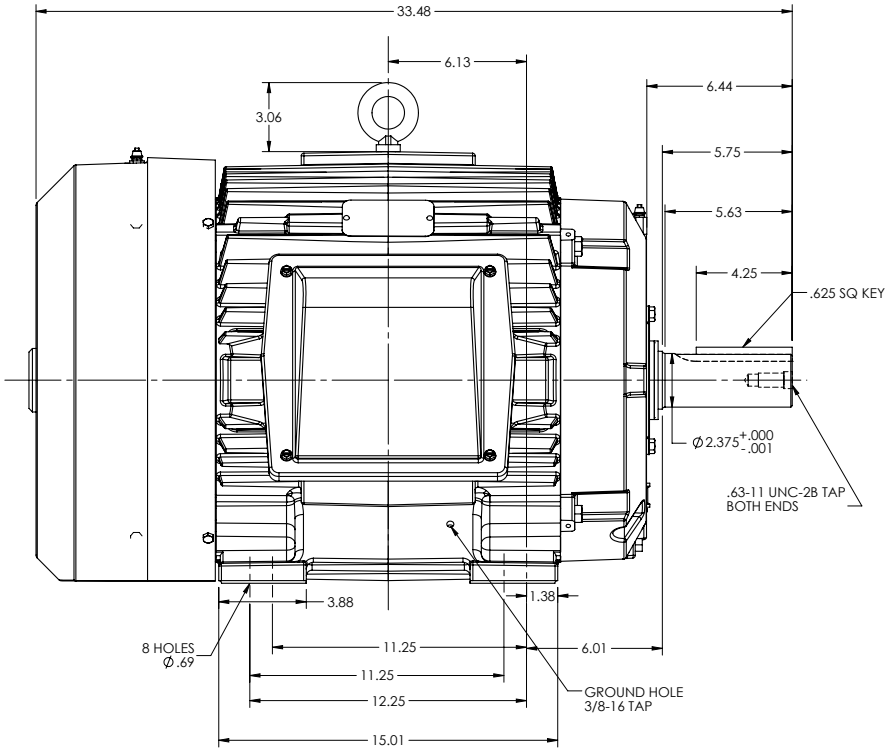
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

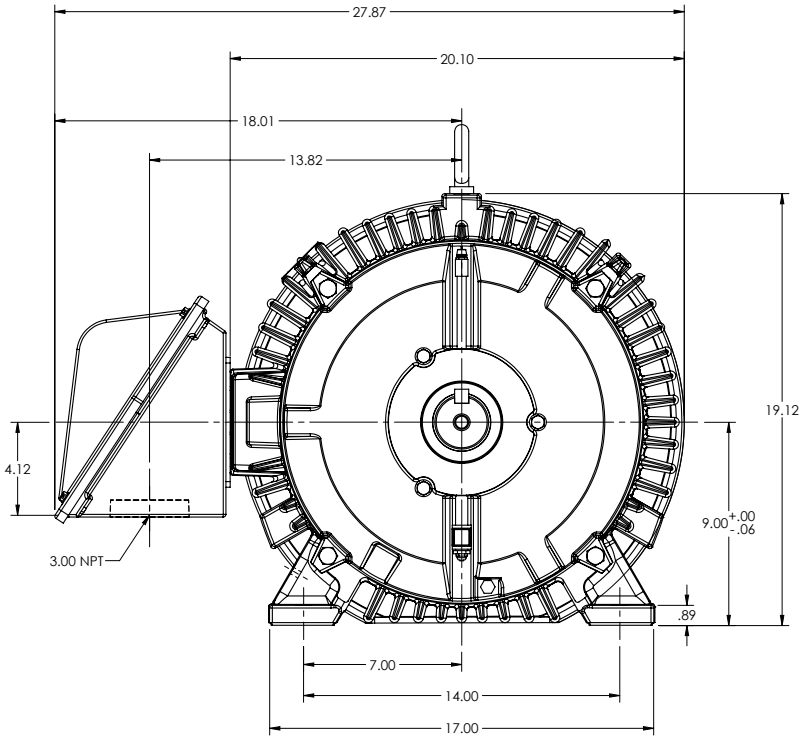
ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364T-365T
661-XL WITH STANDARD CONDUIT BOX

COOLING: FAN COOLED

617428-022





MAXIMUM PERMISSIBLE SHAFT RUNOUT FOR (BALL BEARING WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .0015 T.I.R.) FOR (FOR ROLLER BEARING CONSTRUCTION .002 T.I.R.

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: CHG PERMISSIBLE SHAFT RUN NOTE TO ADD ROLLER BRG			
REV: A	VERSION: 01	REVISED: 11:16:51 09/13/2022	TDR: 000001196993
MODEL NO. 617428-022			REF:
BY: RAGGDM			B

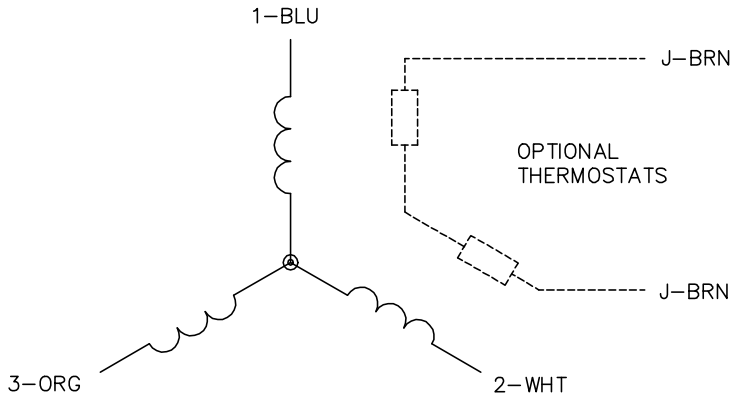
BALDOR

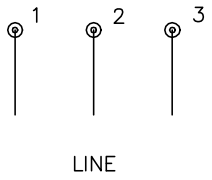
DIM SHEET-TEFC 364-5T,661-XL W/ STD C/BOX (617418-001)

617428-022

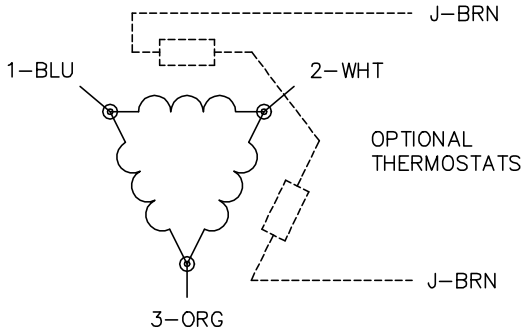
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1