ABB BALDOR RELIANCE

Customer information packet

ECP64316TR-4

75HP, 1780RPM, 3PH, 60HZ, 365T, A36070M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/19/2026 3:38:26 PM

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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	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	15-60
Current @ Voltage	86.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	86.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	AB
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG3963
Layout	617428-022
Eff. date	02-13-2025
CD Diagram	416820-036
Poles	04
Leads	3#4
Proprietary	False
Created date	10-19-2010

Lifting Lugs	No Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	None
Motor Type	A36070M
Mounting Arrangement	W6
Number of Poles	4
Overall Length	33.48 IN
Power Factor	86
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 #	ECP64316TR-4					**FR**	365T		IP55										
SPEC	P36G3369					**ENCL**	TEFC		**DES**	B									
HZ	60	**PH**	3	**CL**	F	**HP**	75	**SF**	1.15	**PF**	86	**%**	**CODE**	G					
VOLTS	460					**AMPS**	86												
RPM	1780			**MAX RPM**	2700		**SER**												
NEMA-NOM-EFF	95.4	**%**		**RATING**	40C AMB-CONT														
GUAR MIN. EFF	94.5	**%**		**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**	200	**C**								
CT HZ	15-60			**VT HZ**	0-60														
CHP HZ	60-90			**INV TEMP CL**	200	**C**													
						MTR WT	976	**LBS**											

NP4372			
CAT #	ECP64316TR-4	**ROTOR BARS**	47
SPEC	P36G3369	**STATOR SLOTS**	60
SER		**MAX CORR KVAR**	15.8
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 #71698 - Typical performance - not guaranteed values

Winding	A36WG3963
Type	A3670M
Enclosure	TEFC

Nameplate data			
Rated Output			75
Volts			460
Full Load Amps			86
R.P.M.			1780
Hz	60	Phase	3
KVA Code			F
S.F.			1.15
NEMA Nom. Eff.	95	Power Factor	86
Duty			CONT
S.F. Amps			

460 V, 60 Hz:

Single Voltage Motor	
Full Load Torque	220.2 LB-FT
Start Configuration	direct on line
Breakdown Torque	542 LB-FT
Pull-up Torque	372 LB-FT
Locked-rotor Torque	445 LB-FT
Starting Current	541 A
No-load Current	27.9
Line-line Res. @ 25°C	0.082276 Ω
Temp. Rise @ Rated Load	55°C
Temp. Rise @ S.F. Load	69°C
Locked-rotor Power Factor	31.8
Rotor inertia	16.2 lb-ft²

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	3	54	75	83	85	86	85	86
Efficiency	0	94.1	95.9	95.9	95.5	94.9	93.8	95.1
Speed	1798.9	1796.2	1792.2	1788	1783.5	1778.5	1771.1	1780
Line amperes	27.9	34.1	48.5	66.3	85.9	108	136	99.2

ABB BALDOR RELIANCE III

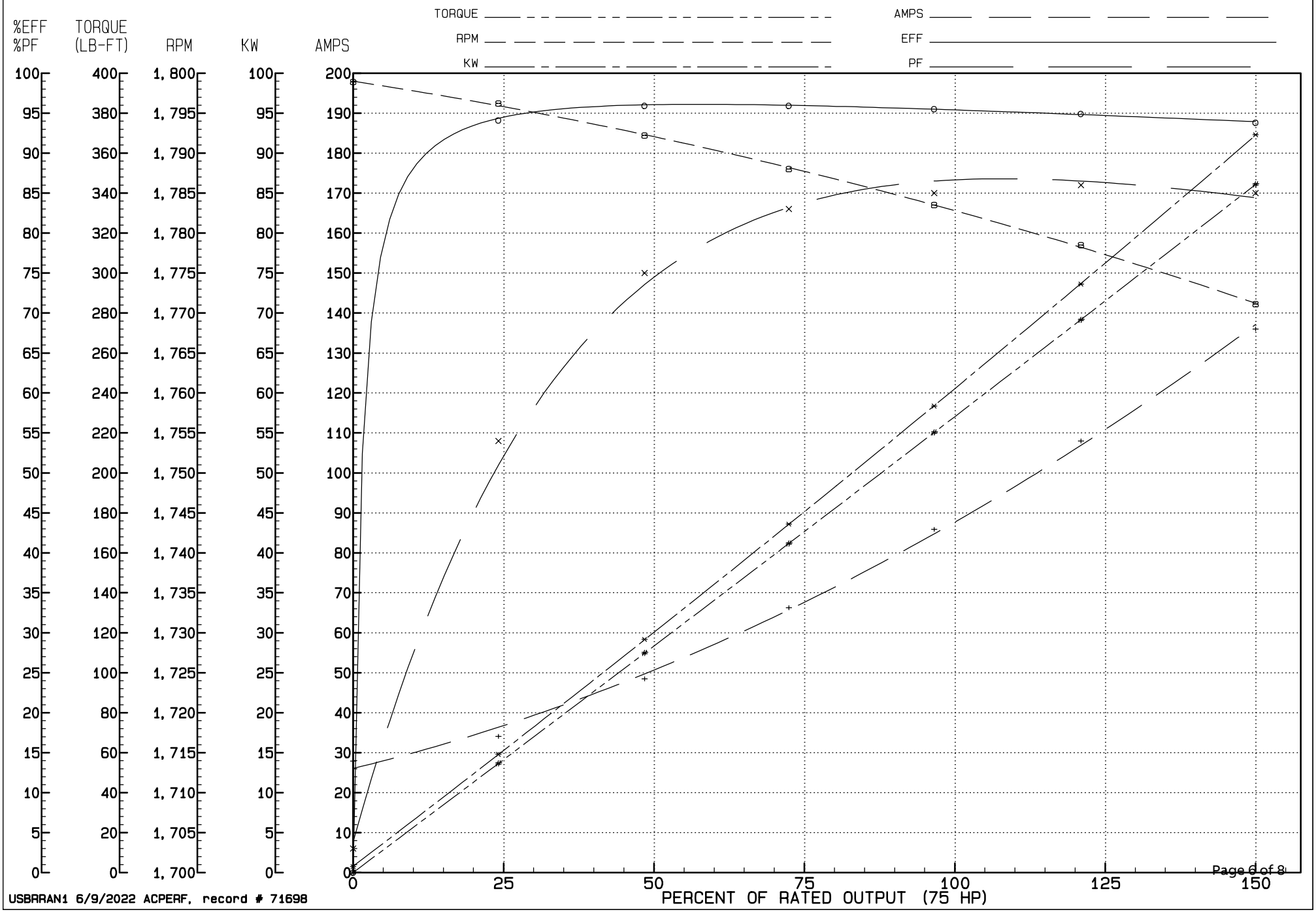
CUSTOMER INFORMATION PACKET ECP64316TR-4 - 75HP, 1780RPM, 3PH, 60HZ, 365T, A36070M, TEFC

REVIEW

WINDING # A36WG3963

75 HP 3 PH 60 HZ 1780 RPM 460 V A3670M

TORQUES(LB-FT): PO=542.00 PU=372.00 LR=445.00 LRA=541.00



USBRRAN1 6/9/2022 ACPERF, record # 71698

617428-022

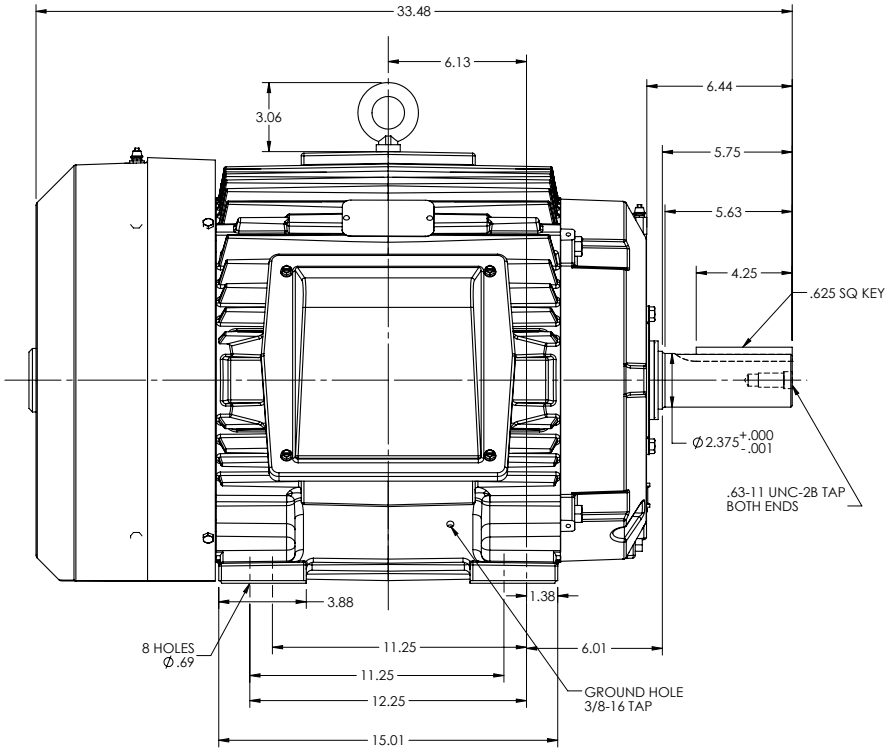
DUTY MASTER ALTERNATING CURRENT MOTORS

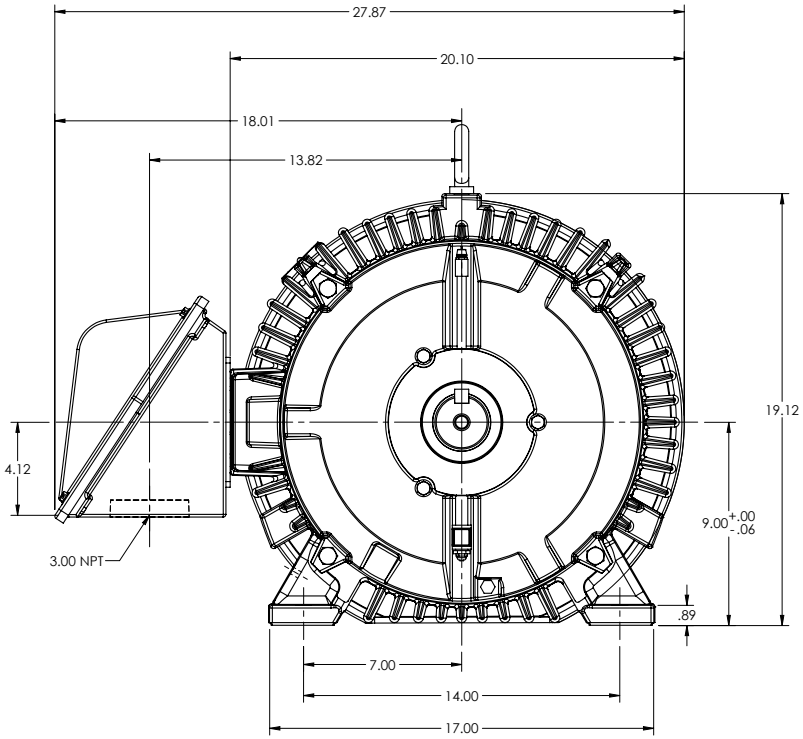
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

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

COOLING: FAN COOLED





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

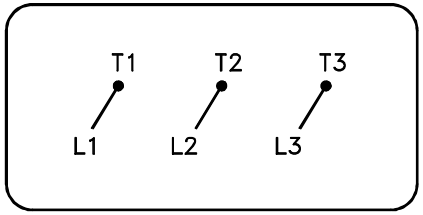
BALDOR

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

617428-022

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