ABB BALDOR RELIANCE

Customer information packet

CECP84316T-4

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

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Specifications

Enclosure	TEFC
Frame	365TC
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	Polyrex EM (-20F +300F)
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
Heater Indicator	No Heater
High Voltage Full Load Amps	86.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG3963
Layout	617428-620
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	04
Leads	3#4
Proprietary	False
Created date	04-26-2021

Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36070M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.48 IN
Power Factor	86
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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

NP4388																			
CAT #	CECP84316T-4					**FR**	365TC		IP56										
SPEC	A36-7814-3963					**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**	6313		**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	993	**LBS**										

NP4333			
CAT #	CECP84316T-4	**ROTOR BARS**	47
SPEC	A36-7814-3963	**STATOR SLOTS**	60
SER		**MAX CORR KVAR**	15.8
GREASE	POLYREX EM		
ABMA DE BRG	65BC03J30X	**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

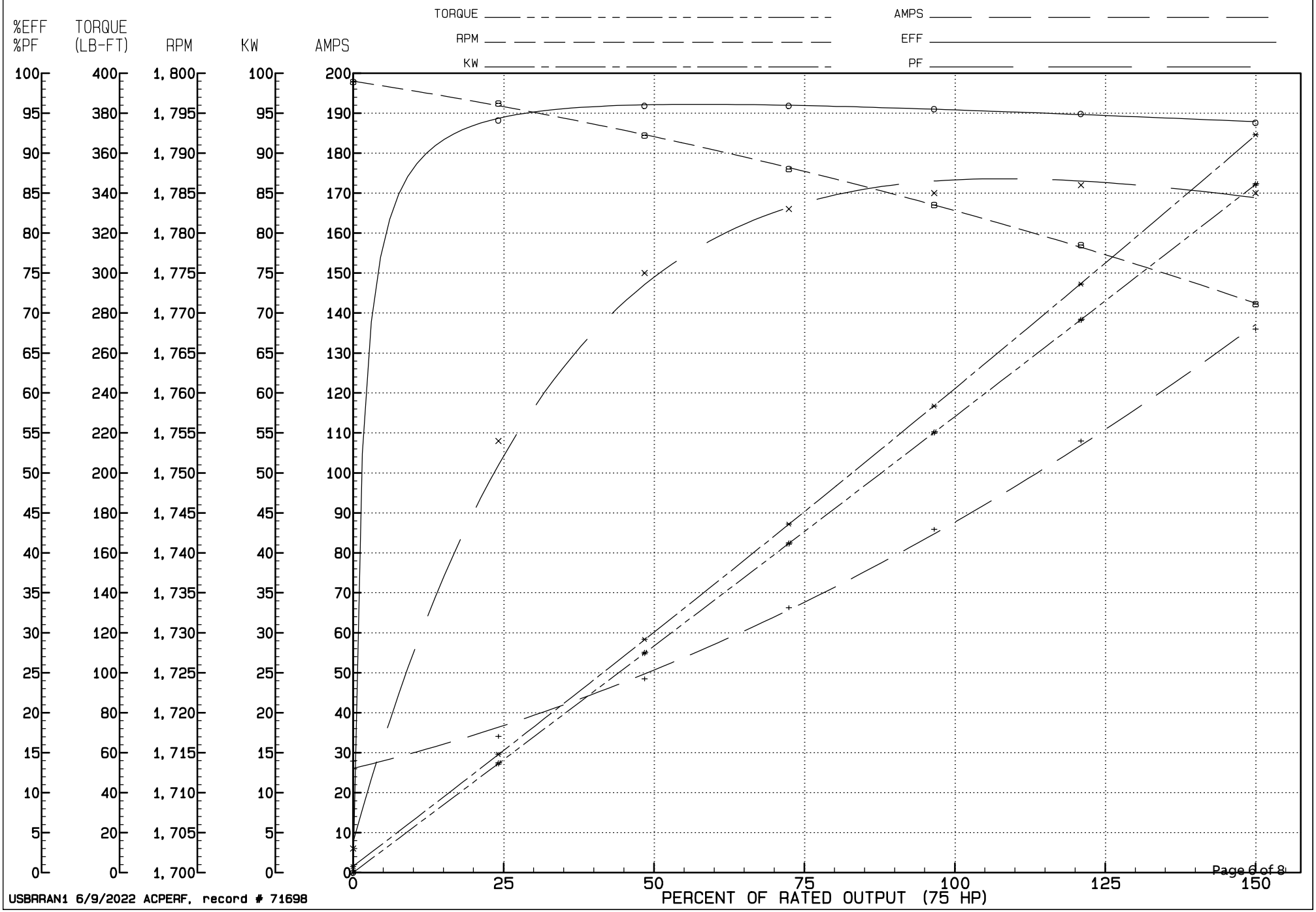
CUSTOMER INFORMATION PACKET CECP84316T-4 - 75HP, 1780RPM, 3PH, 60HZ, 365TC, A36070M, TEFC

WINDING # A36WG3963

REVIEW

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

DUTY MASTER ALTERNATING CURRENT MOTORS

617428-620

ENCLOSURE: TOTALLY ENCLOSED

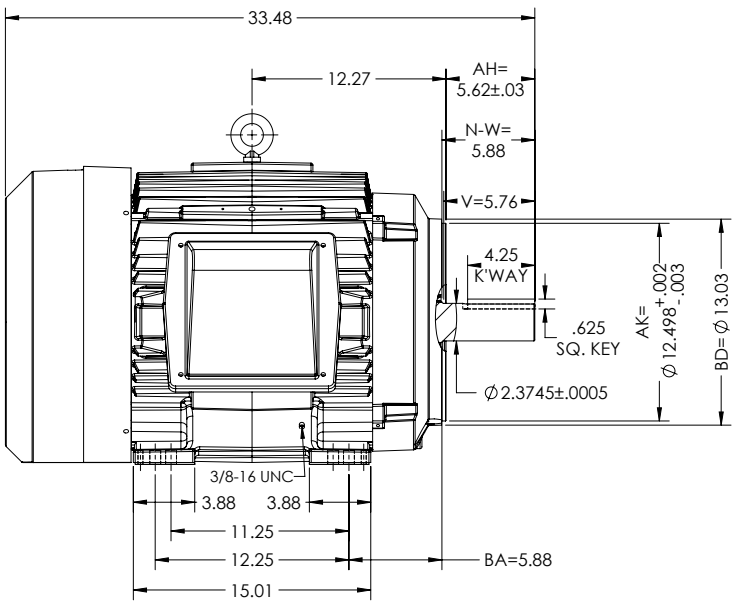
SQUIRREL-CAGE INDUCTION

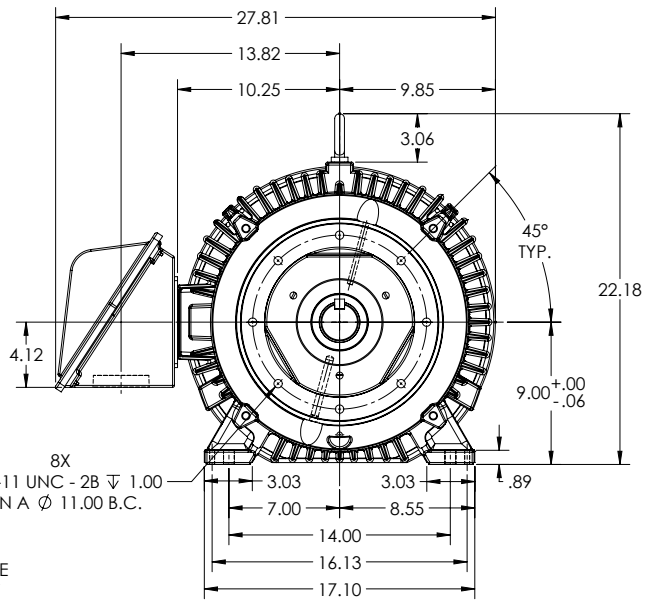
COOLING: FAN COOLED

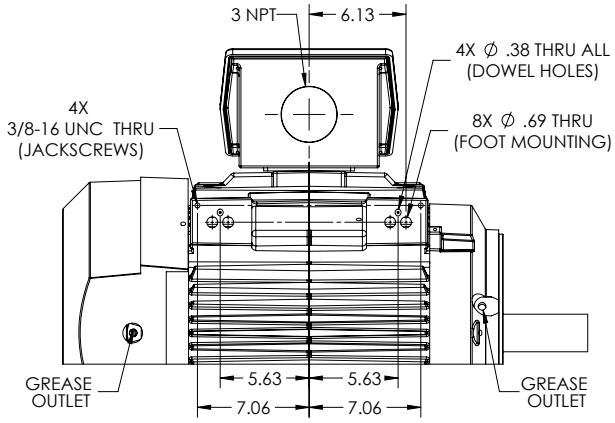
MOUNTING: FOOT, F-1

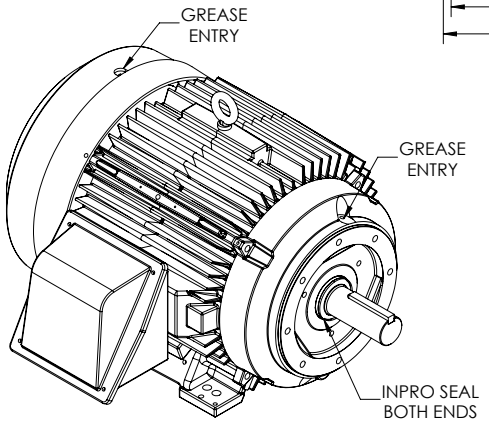
E365TC/E364TC FRAME MOUNTING HOLES

ENCLOSURE ENHANCEMENT: 841-XL









DIMENSIONS ARE IN INCHES.
MOTOR WEIGHT (LBS) = 834 ± 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

617428-620

FACE RUNOUT & ECCENTRICITY IS .007 MAX. T.I.R.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .0015 T.I.R.

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 09:06:06 01/04/2019	TDR: 000001095165
MODEL NO. 617428-620			
BY: USJEDIL			C

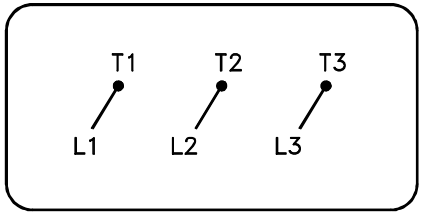
BALDOR

E365/364TC TEFC F1 FOOT/CI BOX/INPROS/JACKSCREWS/DOWELS

617428-620

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