ABB BALDOR RELIANCE

Customer information packet

EM25694T-4

300HP, 1785RPM, 3PH, 60HZ, 449T, DP, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	449T
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	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	331.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	331.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44112M

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG4249
Layout	604989-635
Eff. date	07-18-2022
CD Diagram	416820-008
Poles	04
Leads	6#2/0
Proprietary	False
Created date	04-29-2015

Mounting Arrangement	F1
Number of Poles	4
Overall Length	48.13 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L
MOBIL POLYREX EM

NP2349L

SPEC NO.	A44-7189-4249		**CAT.NO.**	EM25694T-4				**FRAME**	449T		
HP	300	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P		
RPM	1785	**AMPS**	331	**HZ**	60	**AMB**	40	**SF**	1.15		
DRIVE END BEARING	90BC03J30X		**DUTY**	CONT		**INSUL.CLASS**	F				
OPP D.E. BEARING	90BC03J30X		**ENCL**	DP	**CODE**	G					
SER.NO.			**POWER FACTOR**	88		**NEMA-NOM-EFFICIENCY**	95.8				
						MAX CORR KVAR	59.9	**GUARANTEED EFFICIENCY**	95		
						NEMA NOM/CSA QUOTED EFF					
								MOTOR WEIGHT	2151		

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	300	P	3/60	1785	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
833139	418143042ZEE	---	---	.0152

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	83.6	1800	4.22	0
1/4	75.1	115	1796	64.7	94.6
2/4	150	176	1792	82.7	96.2
3/4	225	251	1787	87.3	96.2
4/4	300	331	1783	88.5	95.9
5/4	375	415	1777	88.7	95.3

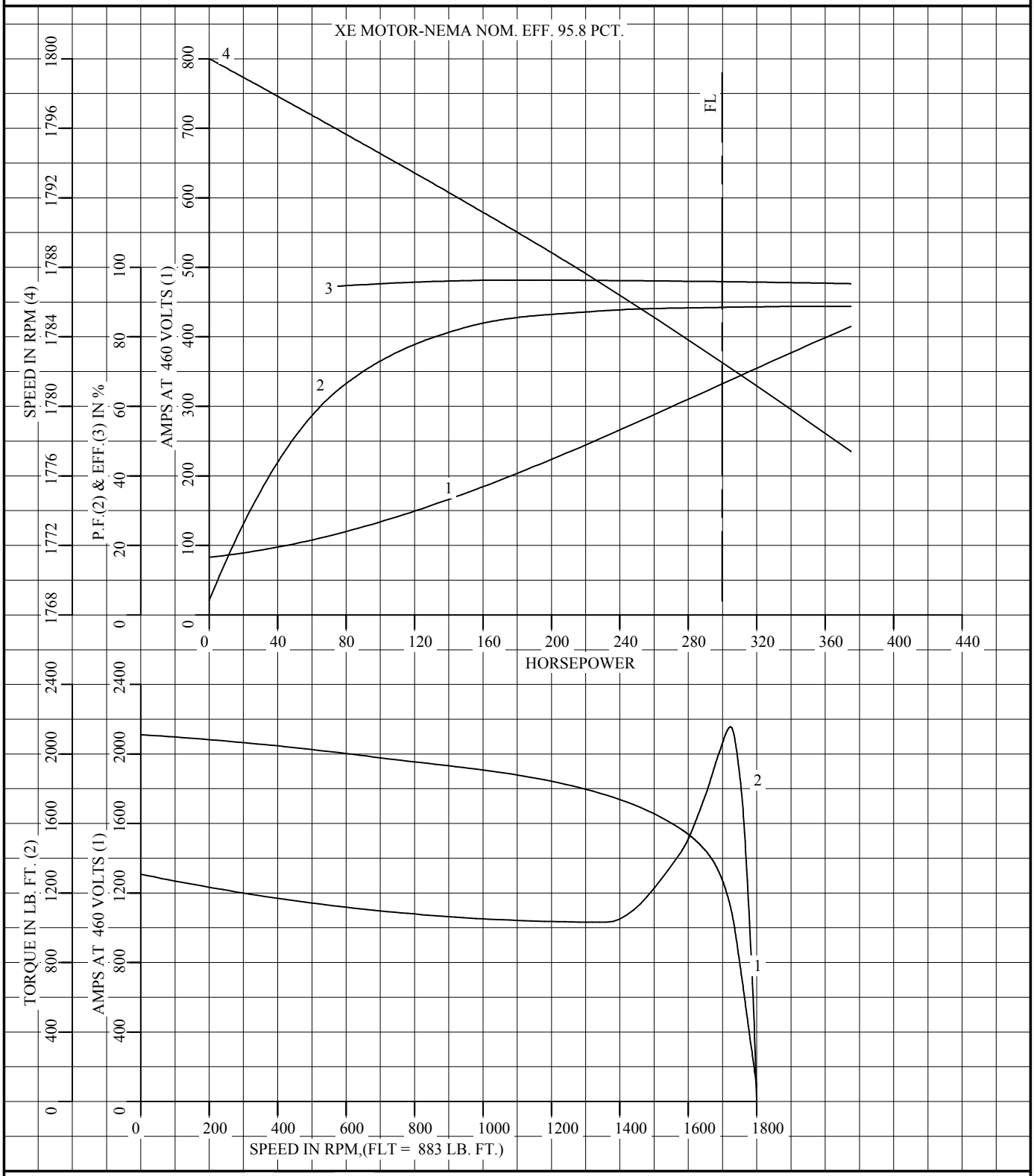
SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	148	1308	2111
PULL UP	1360	117	1032	1764
BREAKDOWN	1724	244	2156	1114
FULL LOAD	1783	100	883	331

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

REMARKS: CALCULATED DATA
XE MOTOR-NEMA NOM. EFF. 95.8 PCT.

REL S.O.		RPM	1785	S.F.	1.15	ROTOR	418143042ZEE
FRAME	449T	VOLTS	460	NEMA DESIGN	B	TEST S.O.	CALCULATED DATA
HP	300	AMPS	331	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	ODP	STATOR RES.@ 25 °C	.0152
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	833139		OHMS (BETWEEN LINES)



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

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	G. R. WEBB
CK. BY	W. L. SMITH
APP. BY	W. L. SMITH
DATE	04/29/15

A-C MOTOR PERFORMANCE CURVES

A44WG4249-R001

ISSUE DATE 04/29/15

Printed on 4/29/15 10:02 @ ragsun

DUTY MASTER ALTERNATING CURRENT MOTORS

604989-635

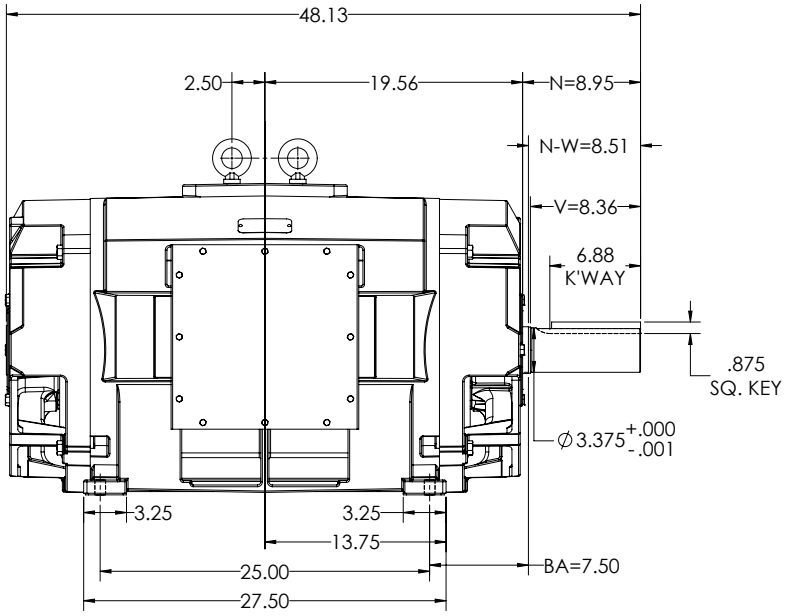
ENCLOSURE: PROTECTED/ODP

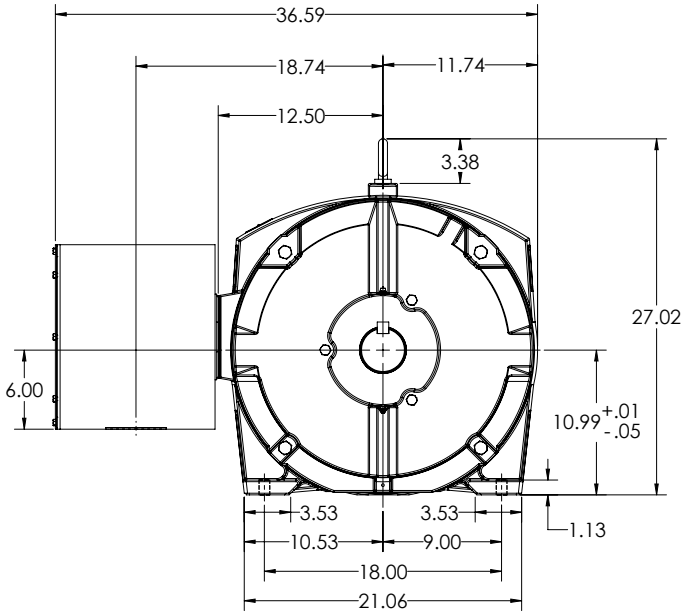
SQUIRREL-CAGE INDUCTION

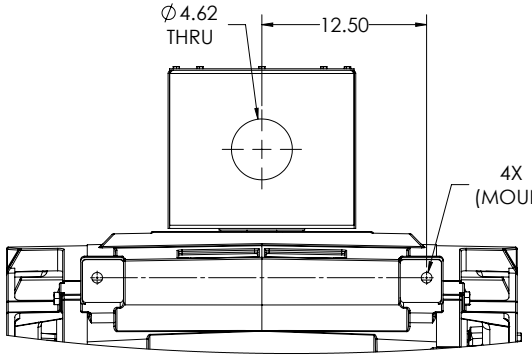
MOUNTING: FOOT, F-1 SIDE

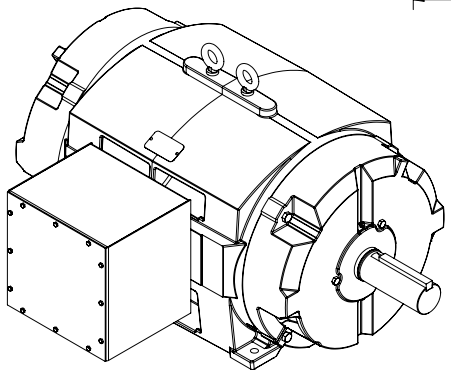
FRAME E449T

COOLING: SELF-VENTILATED









DIMENSIONS ARE IN INCHES.
CONDUIT BOX ROTATABLE IN 90° INCREMENTS.
MOTOR WEIGHT: 2100 LBS, MAY VARY BY 15% DEPENDING ON RATING..
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: A	VERSION: 01	REVISED: 07:43:45 07/14/2022	TDR: 000001193529
MODEL NO. 604989-635			
BY: USBUFRA			C

BALDOR

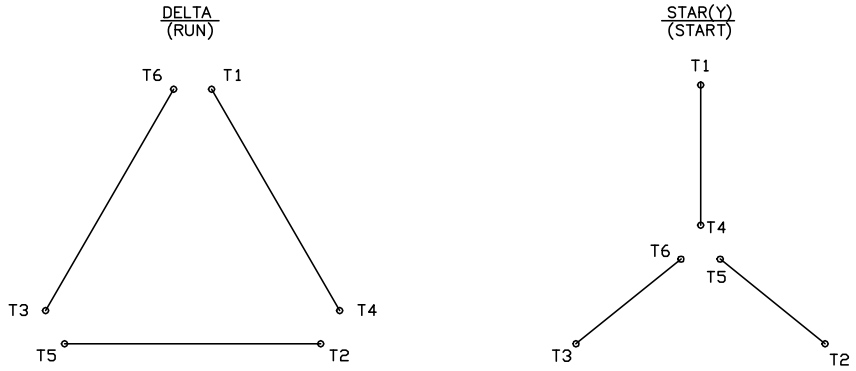
E449T PROT/ODP F1 FOOT 14X14X12 STEEL BOX

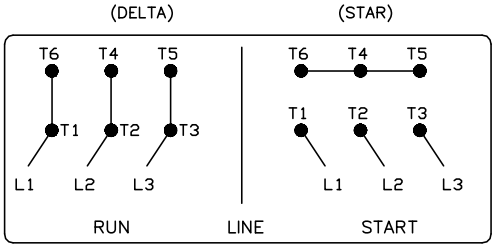
604989-635

416820–008

A–C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD Y START – DELTA RUN





(N. P. 1767-DC)

REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM		
REV. LTR: D	VERSION: 04	TDR: 000000847713
FILE: \RAG\00001\808	REVISED: 10:41:26 04/08/2014	BY: RAGJSS1
MTL: –		

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1

416820–008