ABB BALDOR RELIANCE

Customer information packet

EM251402T-4

400HP, 3570RPM, 3PH, 60HZ, 449TS, A44112M, DP
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	449TS
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	400.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	431.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	431.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44112M

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2659
Layout	604989-664
Eff. date	09-25-2025
CD Diagram	416820-008
Poles	02
Leads	6#2/0
Proprietary	False
Created date	01-22-2015

Mounting Arrangement	F1
Number of Poles	2
Overall Length	44.31 IN
Power Factor	90
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3570 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.	A44-6803-2659	**CAT.NO.**	EM251402T-4							**FRAME**	449TS	
HP	400	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P			
RPM	3570	**AMPS**	431	**HZ**	60	**AMB**	40	**SF**	1.15			
DRIVE END BEARING	65BC03J30X	**DUTY**	CONT	**INSUL.CLASS**	F							
OPP D.E. BEARING	65BC03J30X	**ENCL**	DP	**CODE**	F							
SER.NO.		**POWER FACTOR**	90					**NEMA-NOM-EFFICIENCY**	96.2			
						MAX CORR KVAR	50	**GUARANTEED EFFICIENCY**	95.4			
						NEMA NOM/CSA QUOTED EFF						
								MOTOR WEIGHT	2075			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	400	P	3/60	3570	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
431	CONT	40/F	1.15	B	F	PRXE

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
433472	418143013KE	---	---	.00865

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	89.7	3600	5.37	0
1/4	100	136	3593	72.7	94.6
2/4	200	222	3586	87.5	96.4
3/4	300	324	3579	89.9	96.6
4/4	400	431	3571	90.0	96.4
5/4	500	541	3562	90.1	95.9

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	174	1022	2555
PULL UP	2550	136	800	1885
BREAKDOWN	3474	209	1231	1235
FULL LOAD	3571	100	588	431

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

REMARKS: TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 96.2%

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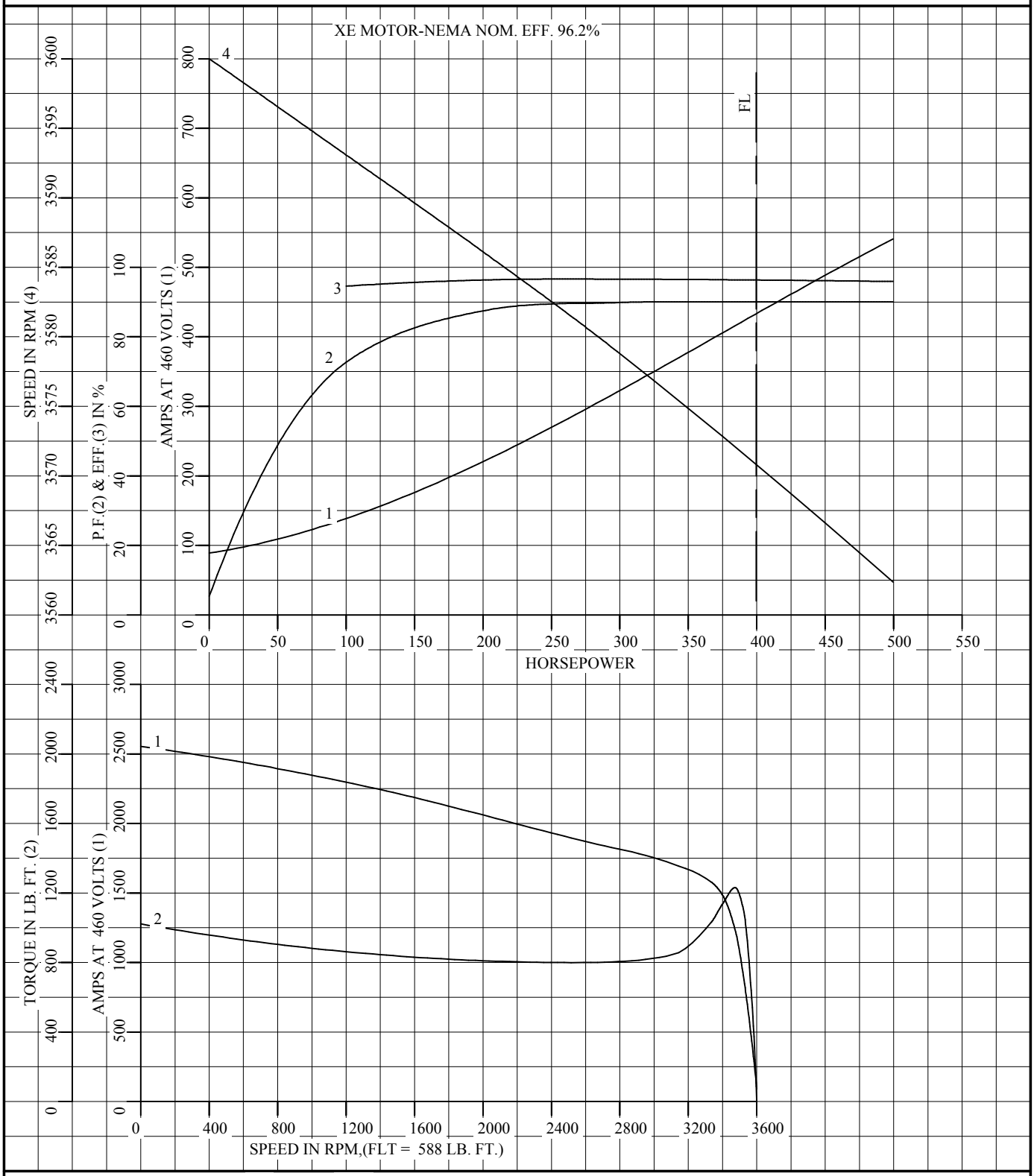
DR. BY D. M. BYRD
CK. BY C.E. JAMISON
APP. BY D. M. BYRD
DATE 05/14/02

A-C MOTOR PERFORMANCE DATA

A44WG2659-R002
ISSUE DATE 05/14/02

Printed on 2/9/15 8:22 @ ragsun

REL S.O.		RPM	3570	S.F.	1.15	ROTOR	418143013KE
FRAME	449T	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	400	AMPS	431	CODE LETTER	F	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	PRXE	STATOR RES.@ 25 °C	.00865
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	433472		OHMS (BETWEEN LINES)



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

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DR. BY	D. M. BYRD
CK. BY	C.E. JAMISON
APP. BY	D. M. BYRD
DATE	05/14/02

A-C MOTOR PERFORMANCE CURVES

A44WG2659-R002

ISSUE DATE 05/14/02

DUTY MASTER ALTERNATING CURRENT MOTORS

604989-664

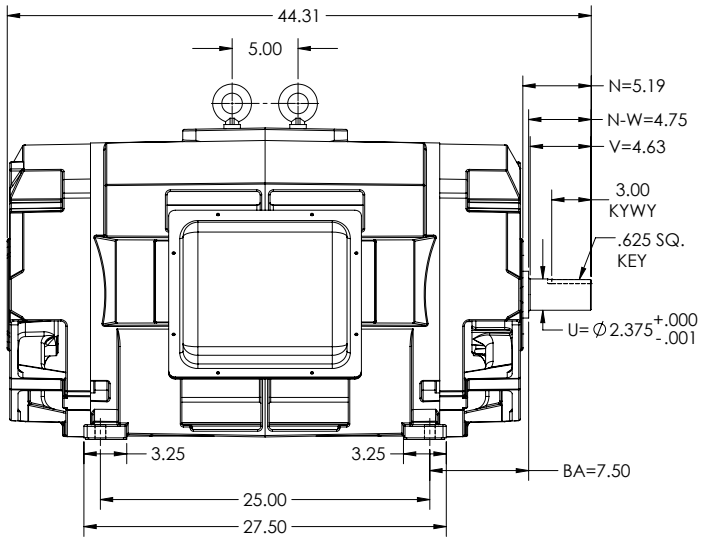
ENCLOSURE: OPEN DRIP-PROOF

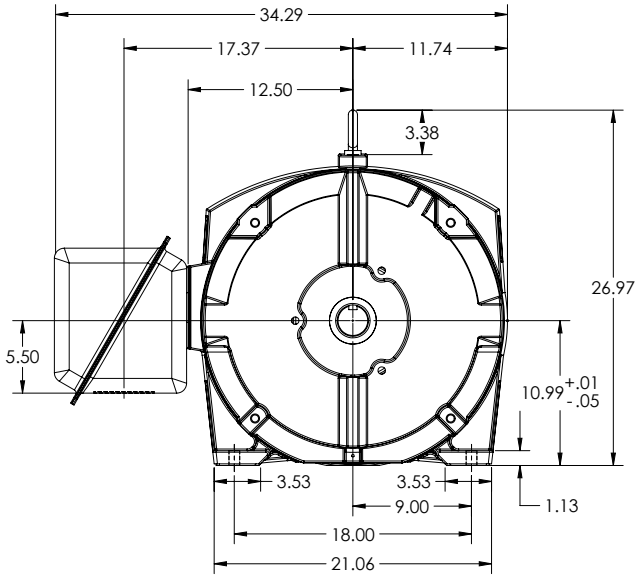
SQUIRREL-CAGE INDUCTION

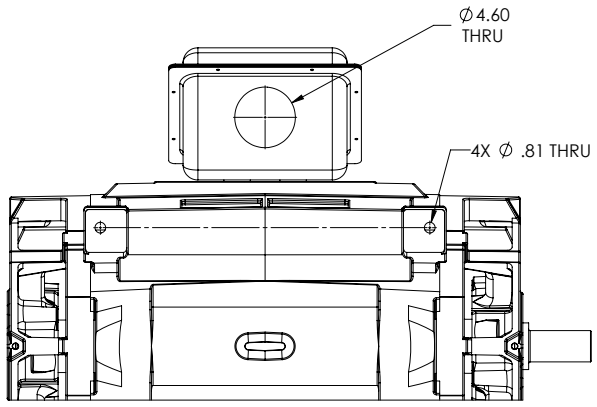
MOUNTING: FOOT, F-1

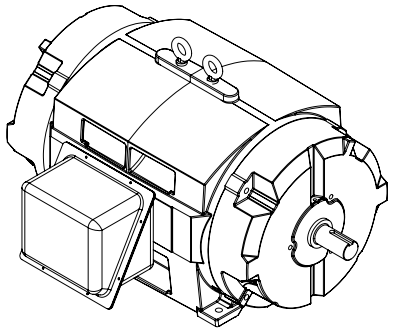
E449TS FRAME MOUNTING

COOLING: NON-VENTILATED









DIMENSIONS ARE IN INCHES.
WEIGHT (LBS) 2100, MAY VARY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

604989-664

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: NEW			
REV: -	VERSION: 00	REVISED: 10:26:10 10/22/2020	TDR: 000001151313
MODEL NO. 604989-664			
BY: USJOSUL		C	

BALDOR

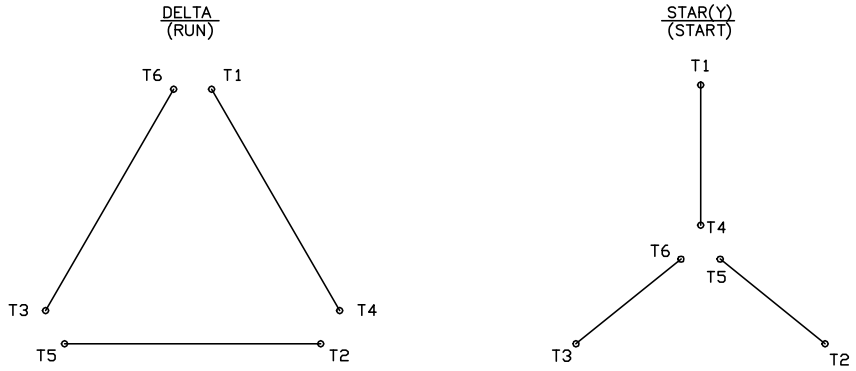
449TS ODP F1 FT S -

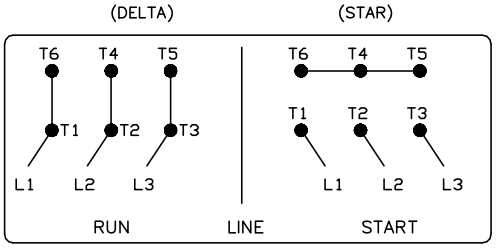
604989-664

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

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