ABB BALDOR RELIANCE

Customer information packet

EM251152T-4

150HP, 3560RPM, 3PH, 60HZ, 405TS, A40058M, DP
Class - None
Division - Not Applicable

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Specifications

Enclosure	DP
Frame	405TS
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	150.000 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	167.000 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	167.0 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 AWG
Motor Standards	NEMA
Motor Type	A40058M

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG1124
Layout	617428-431
Eff. date	07-18-2022
CD Diagram	416820-008
Poles	02
Leads	6#2
Proprietary	False
Created date	02-09-2015

Mounting Arrangement	F1
Number of Poles	2
Overall Length	30.93 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3560 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.	A40-6466-1124	**CAT.NO.**	EM251152T-4					**FRAME**	405TS	
HP	150	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P	
RPM	3560	**AMPS**	167	**HZ**	60	**AMB**	40	**SF**	1.15	
DRIVE END BEARING	65BC03J30X	**DUTY**	CONT	**INSUL.CLASS**	F					
OPP D.E. BEARING	65BC03J30X	**ENCL**	DP	**CODE**	G					
SER.NO.		**POWER FACTOR**	88			**NEMA-NOM-EFFICIENCY**	95.4			
				MAX CORR KVAR	25.0	**GUARANTEED EFFICIENCY**	94.5			
				NEMA NOM/CSA QUOTED EFF						
						MOTOR WEIGHT				

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	150	P	3/60	3560	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
596938	418142005SE	---	---	.0360

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	44.7	3600	5.22	0
1/4	37.5	60.1	3591	62.8	93.1
2/4	75.0	89.9	3581	81.9	95.4
3/4	112	127	3572	86.8	95.6
4/4	150	167	3561	88.1	95.4
5/4	188	208	3550	88.8	94.9

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	215	476	1057
PULL UP	1545	193	428	962
BREAKDOWN	3406	238	527	544
FULL LOAD	3561	100	221	167

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. 95.4%
GUARANTEED MIN. EFF. 95.0%

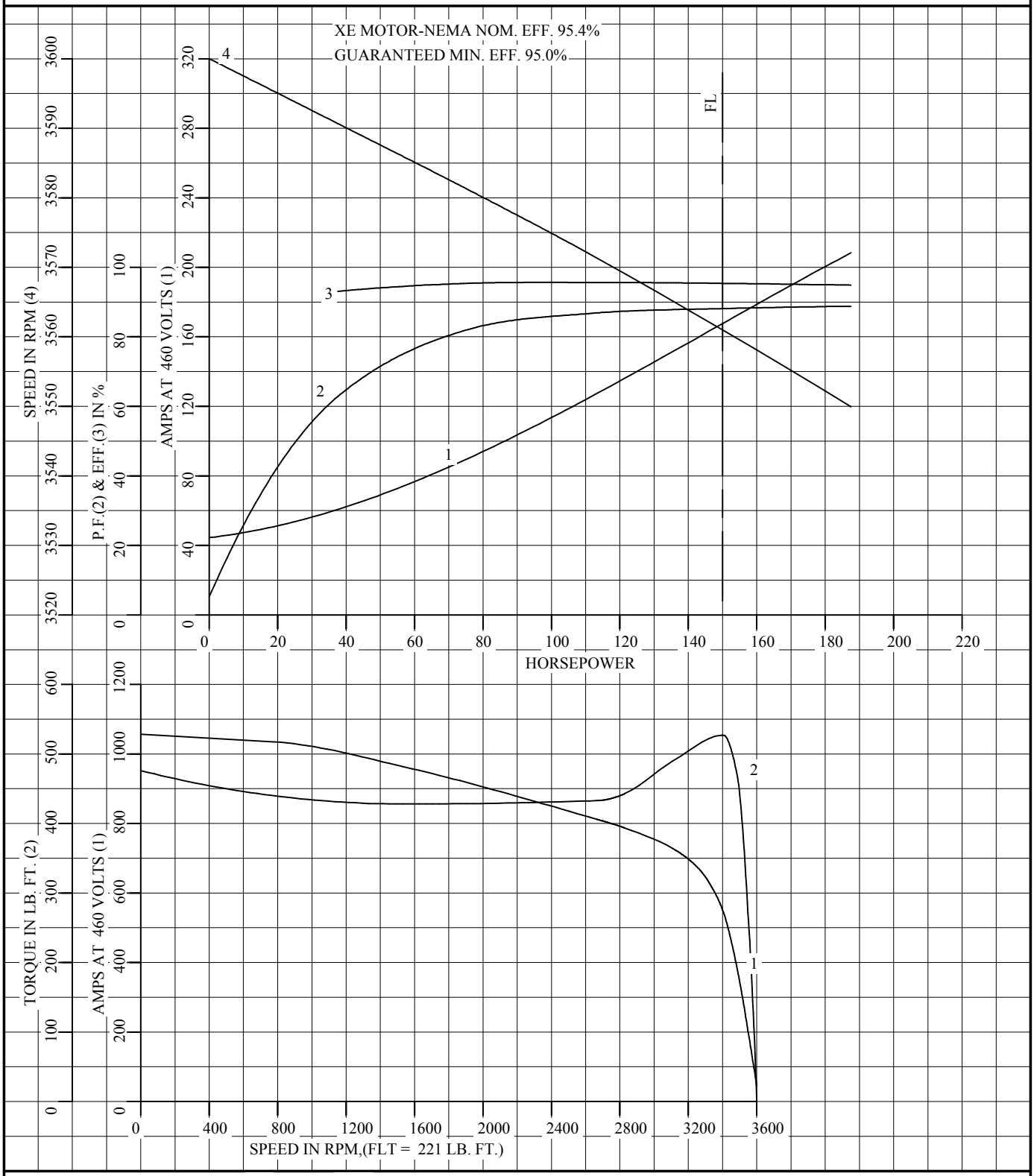
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J.J.HARRISON
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 09/10/08

A-C MOTOR PERFORMANCE DATA

A40WG1124-R001
ISSUE DATE 09/10/08

REL S.O.	RPM 3560	S.F. 1.15	ROTOR 418142005SE
FRAME 405T	VOLTS 460	NEMA DESIGN B	TEST S.O. CALCULATED DATA
HP 150	AMPS 167	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE PRXE	STATOR RES.@ 25 °C .0360
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 596938	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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CK. BY	W.L.SMITH
APP. BY	W.L.SMITH
DATE	09/10/08

A-C MOTOR PERFORMANCE CURVES A40WG1124-R001 ISSUE DATE 09/10/08

DUTY MASTER ALTERNATING CURRENT MOTORS

617428-431

ENCLOSURE: OPEN DRIP-PROOF

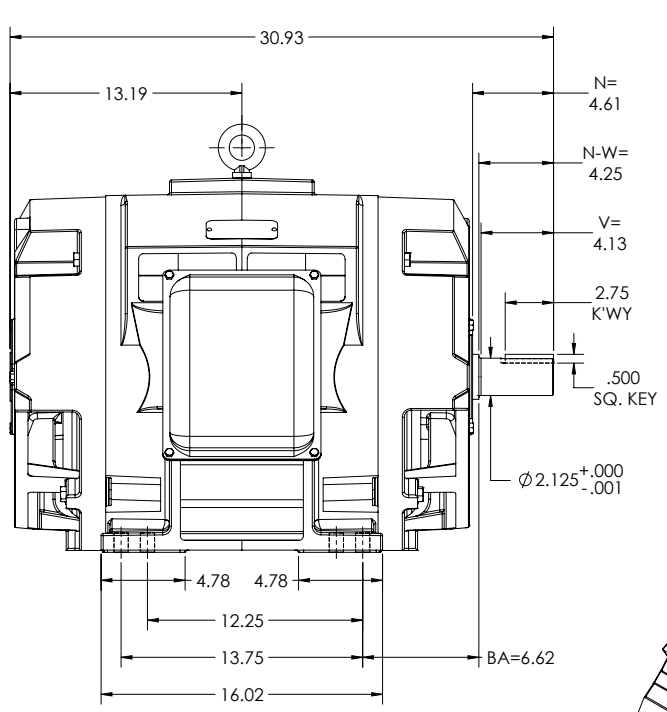
SQUIRREL-CAGE INDUCTION

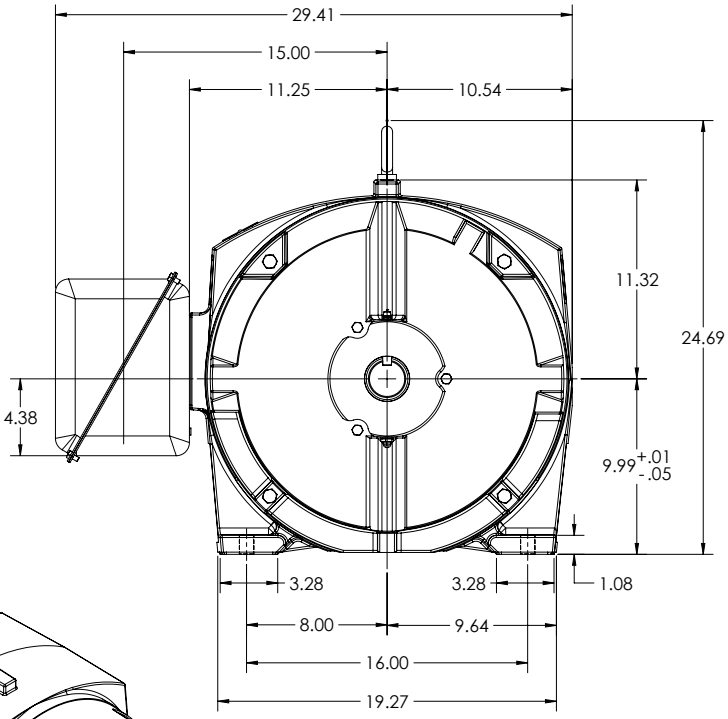
MOUNTING: FOOT, F-1 SIDE

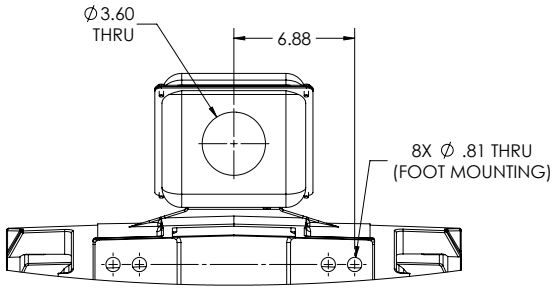
E405TS/E404TS FRAME MOUNTING HOLES

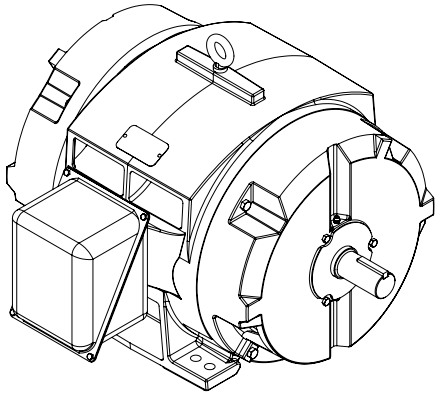
COOLING: SELF-VENTILATED

MAIN STEEL CONDUIT BOX









DIMENSIONS ARE IN INCHES.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: B	VERSION: 02	REVISED: 12:57:54 07/15/2022	TDR: 000001193529
MODEL NO. 617428-431			
BY: USBUFRA			C

BALDOR

E405/404TS ODP FOOT F1 STEEL CONDUIT BOX

617428-431

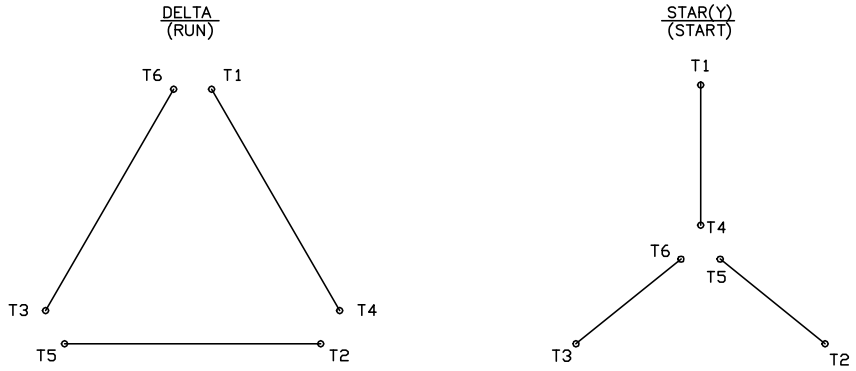
617428-431

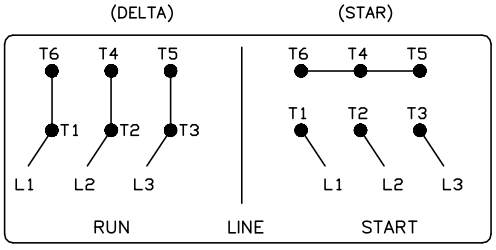
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

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