

# ABB BALDOR RELIANCE III

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## Customer information packet

EFM4404T

75HP, 1185RPM, 3PH, 60HZ, 405T, TEFC, FOOT, F2

Class - None

Division - Not Applicable

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	405T
<b>Frame Material</b>	Iron
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	None
<b>Haz Area Division</b>	Not Applicable
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	75.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	1200 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	230.0 V @ 60 HZ 460.0 V @ 60 HZ
<b>Agency Approvals</b>	CURUSEEV CCSAUSEEV
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Current @ Voltage</b>	86.900 A @ 460.0 V 190.000 A @ 208.0 V 174.000 A @ 230.0 V
<b>Design Code</b>	B
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	95.0 %
<b>Feedback Device</b>	NO FEEDBACK
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	86.9 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>IP Rating</b>	NONE
<b>KVA Code</b>	G

**Part Detail**

<b>Revision</b>	M
<b>Type</b>	AC
<b>Mech. spec.</b>	
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	A40WG0770
<b>Layout</b>	617429-629
<b>Eff. date</b>	09-04-2024
<b>CD Diagram</b>	416820-002
<b>Poles</b>	06
<b>Leads</b>	3#2,6#4
<b>Proprietary</b>	False
<b>Created date</b>	06-07-2014

<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Motor Lead Quantity/Wire Size</b>	3 @ 2 AWG
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	A40064M
<b>Mounting Arrangement</b>	F2
<b>Number of Poles</b>	6
<b>Overall Length</b>	38.04 IN
<b>Power Factor</b>	85
<b>Product Family</b>	General Industrial
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	2.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1185 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None

**Nameplate**

**NP2349L**

<b>SPEC NO.</b>	A40-6087-1503	<b>CAT.NO.</b>	EFM4404T	<b>FRAME</b>	405T				
<b>HP</b>	75	<b>VOLTS</b>	230/460	<b>PHASE</b>	3	<b>DESIGN</b>	B	<b>TYPE</b>	P
<b>RPM</b>	1185	<b>AMPS</b>	174/86.9	<b>HZ</b>	60	<b>AMB</b>	40	<b>SF</b>	1.15
<b>DRIVE END BEARING</b>	80BC03J30X	<b>DUTY</b>	CONT	<b>INSUL.CLASS</b>	F				
<b>OPP D.E. BEARING</b>	80BC03J30X	<b>ENCL</b>	TEFC	<b>CODE</b>	G				
<b>SER.NO.</b>		<b>POWER FACTOR</b>	85	<b>NEMA-NOM-EFFICIENCY</b>	95				
		<b>MAX CORR KVAR</b>	15	<b>GUARANTEED EFFICIENCY</b>	94.1				
		<b>NEMA NOM/CSA QUOTED EFF</b>							
		<b>MOTOR WEIGHT</b>							

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**NP2496L**

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MOBIL POLYREX EM

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REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	75	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
174/86.9	CONT	40/F	1.15	B	G	TEFC-XEX
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
496234	418142-71-EE	---	---	.0215/.0860		

**PERFORMANCE**

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	31.0	1200	4.11	0
1/4	18.8	37.2	1197	51.1	92.5
2/4	37.5	50.7	1194	73.0	95.0
3/4	56.2	67.7	1190	81.6	95.3
4/4	75.0	86.9	1187	85.1	95.0
5/4	93.8	108	1183	86.2	94.4

**SPEED TORQUE**

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	165	549	541
PULL UP	400	156	519	509
BREAKDOWN	1132	243	808	302
FULL LOAD	1187	100	332	86.9

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

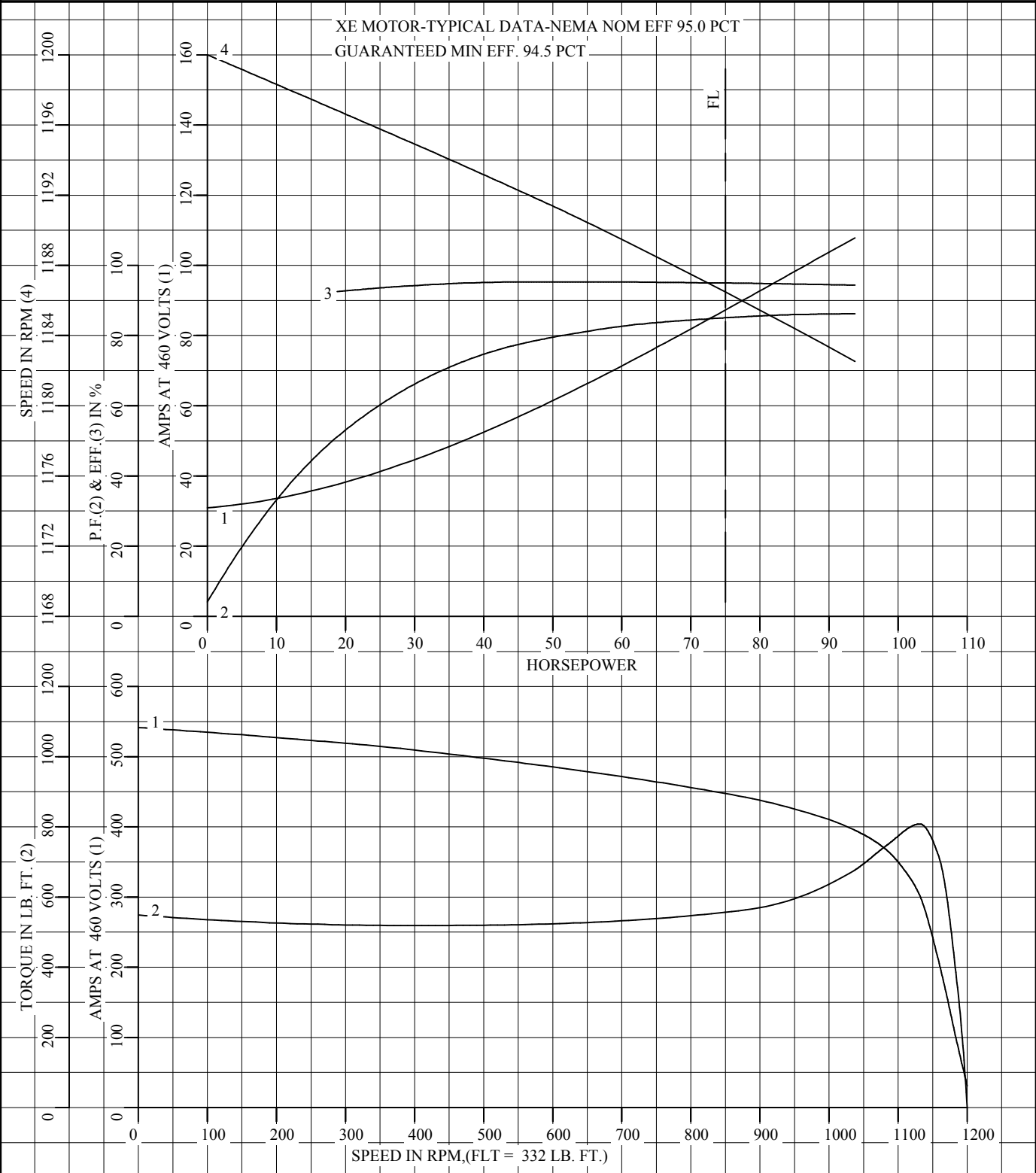
REMARKS: TYPICAL DATA  
XE MOTOR-TYPICAL DATA-NEMA NOM EFF 95.0 PCT  
GUARANTEED MIN EFF. 94.5 PCT



DR. BY J. P. MCGILL  
CK. BY K. W. KANOUFF  
APP. BY K. W. KANOUFF  
DATE 01/16/90

**A-C MOTOR  
PERFORMANCE A40WG0770-R001  
DATA** ISSUE DATE 07/25/14

REL S.O.	RPM 1185	S.F. 1.15	ROTOR 418142-71-EE
FRAME 405T	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 75	AMPS 174/86.9	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC-XEX	STATOR RES. @ 25 °C .0215/.0860
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 496234	OHMS (BETWEEN LINES)



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



DR. BY J. P. MCGILL  
 CK. BY K. W. KANOUFF  
 APP. BY K. W. KANOUFF  
 DATE 01/16/90

**A-C MOTOR  
PERFORMANCE  
CURVES** A40WG0770-R001  
 ISSUE DATE 07/25/14

617429-629

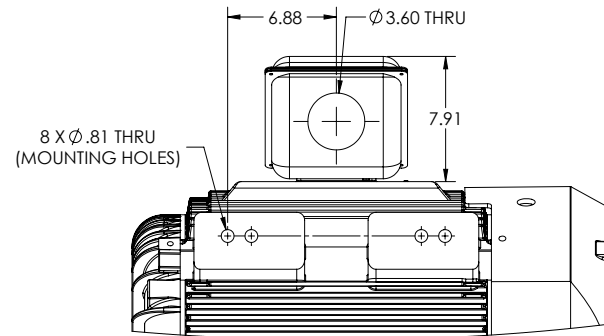
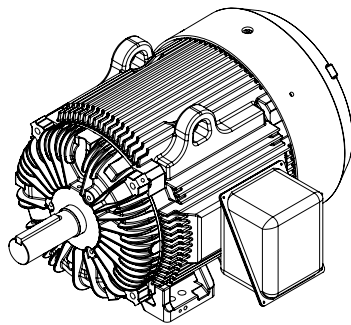
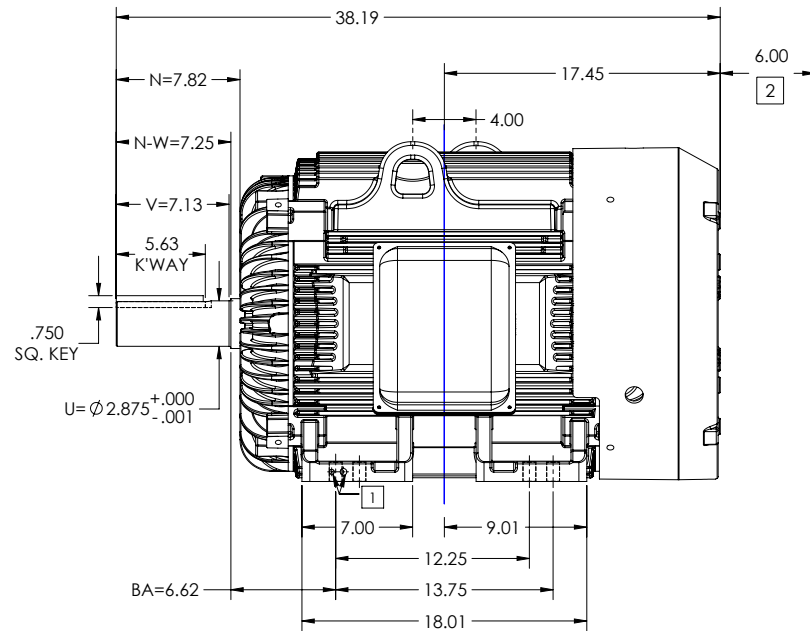
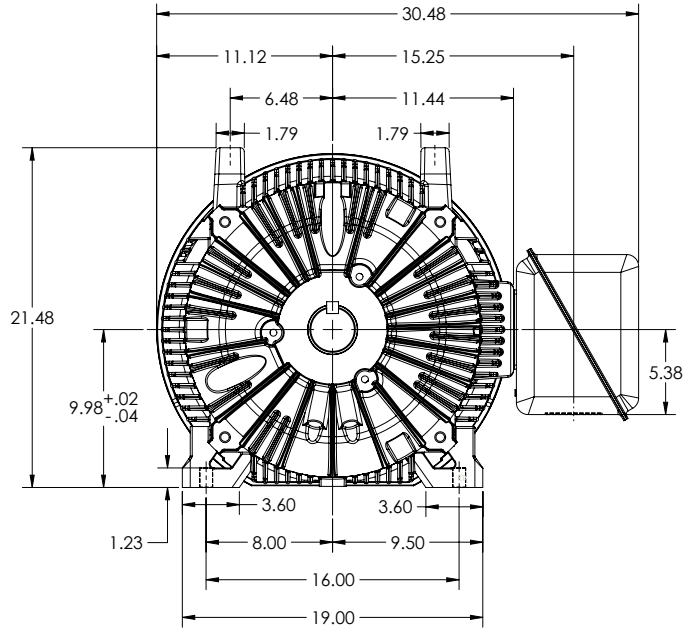
ENCLOSURE: TOTALLY ENCLOSED

MOUNTING: FOOT, F-2

**DUTY MASTER ALTERNATING CURRENT MOTORS**  
SQUIRREL-CAGE INDUCTION

G405T/G404T FRAME MOUNTING HOLES

COOLING: FAN COOLED



SHEET NUMBER  
**1 OF 1**  
629-629-119

1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
  2. OBSTRUCTION MUST NOT ENCR OACH ON AIR INLET
- 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.

DIMENSIONS ARE IN INCHES  
WEIGHT (LBS): 1350. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.  
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: UPDATED DS			
REV: A	VERSION: 01	REVISED: 10-32-51 10/25/2016	TDR: 00001000817
MODEL NO. 617429-629		REF:	
BY: USJEDIL		Material:	

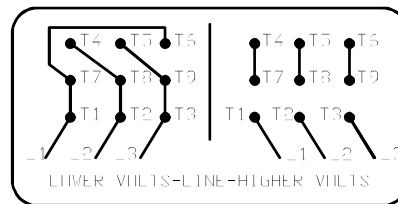
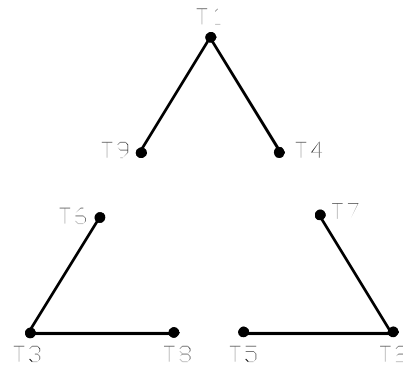
**BALDOR**

G405T/404T TEFC F2 FOOTED STD ENCLOSURE W/ STEEL BOX

617429-629

416820-002

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

416820-002

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
MTL: -		©

**BALDOR - RELIANCE®**

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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