

ABB BALDOR RELIANCE III

Customer information packet

EM4404T

75HP, 1185RPM, 3PH, 60HZ, 405T, A4072M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	405T
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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	174.000 A @ 230.0 V 190.000 A @ 208.0 V 86.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	86.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	T
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0770
Layout	617429-001
Eff. date	09-04-2024
CD Diagram	416820-002
Poles	06
Leads	3#2,6#4
Proprietary	False
Created date	07-17-2013

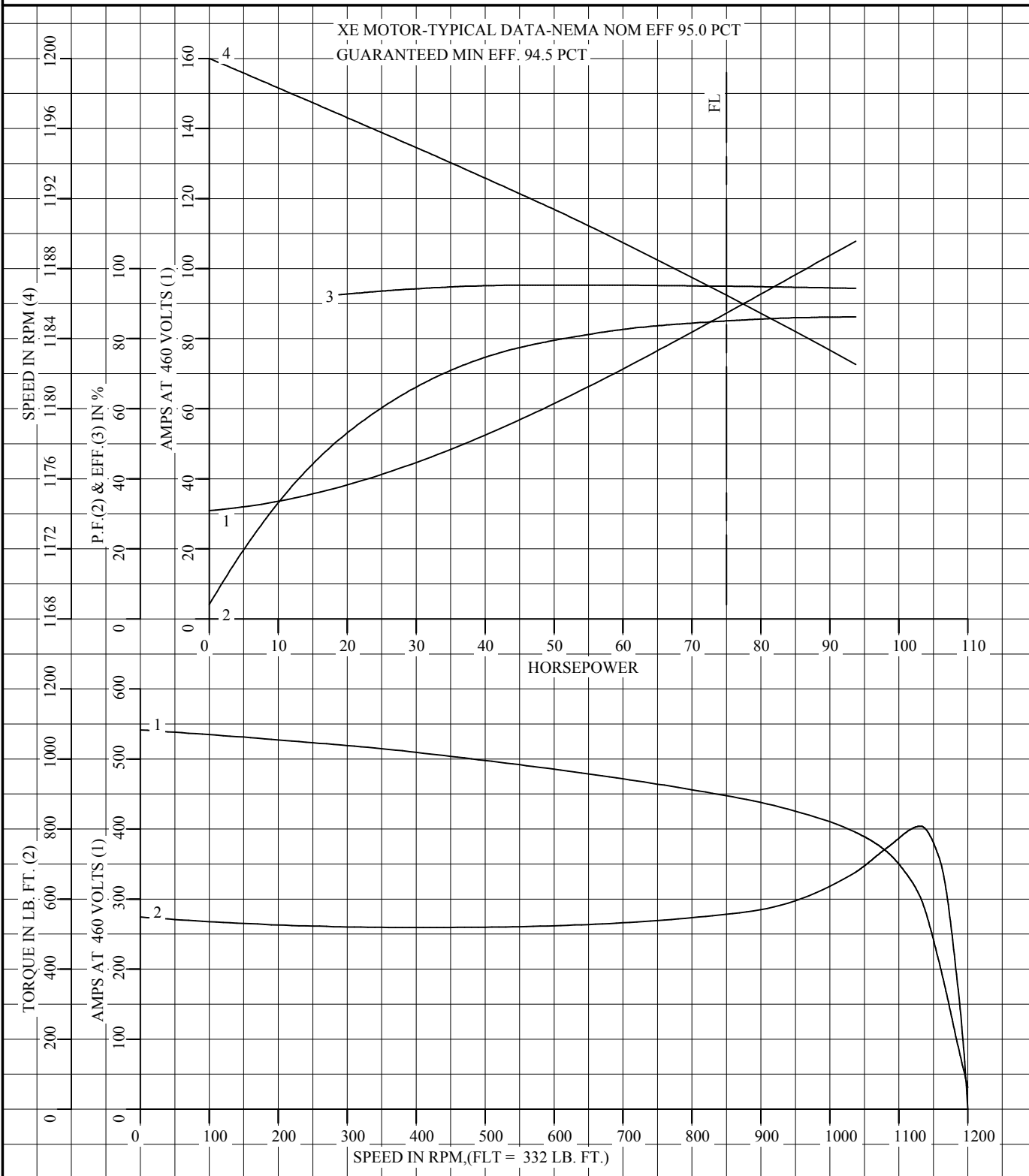
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	38.04 IN
Power Factor	85
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L																		
SPEC NO.	P40G3931			CAT.NO.		EM4404T				FRAME		405T						
HP	75	VOLTS		230/460		PHASE		3	DESIGN		B	TYPE		P				
RPM	1185	AMPS		174/86.9		HZ		60	AMB		40	SF		1.15				
DRIVE END BEARING	80BC03J30X			DUTY		CONT		INSUL.CLASS			F							
OPP D.E. BEARING	80BC03J30X			ENCL		TEFC		CODE		G								
SER.NO.				POWER FACTOR				85		NEMA-NOM-EFFICIENCY				95				
						MAX CORR KVAR			15		GUARANTEED EFFICIENCY			94.1				
						NEMA NOM/CSA QUOTED EFF												
												MOTOR WEIGHT						

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		A-C MOTOR PERFORMANCE A40WG0770-R001 DATA ISSUE DATE 07/25/14		
		CK. BY K. W. KANOUFF				
		APP. BY K. W. KANOUFF				
		DATE 01/16/90				

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)

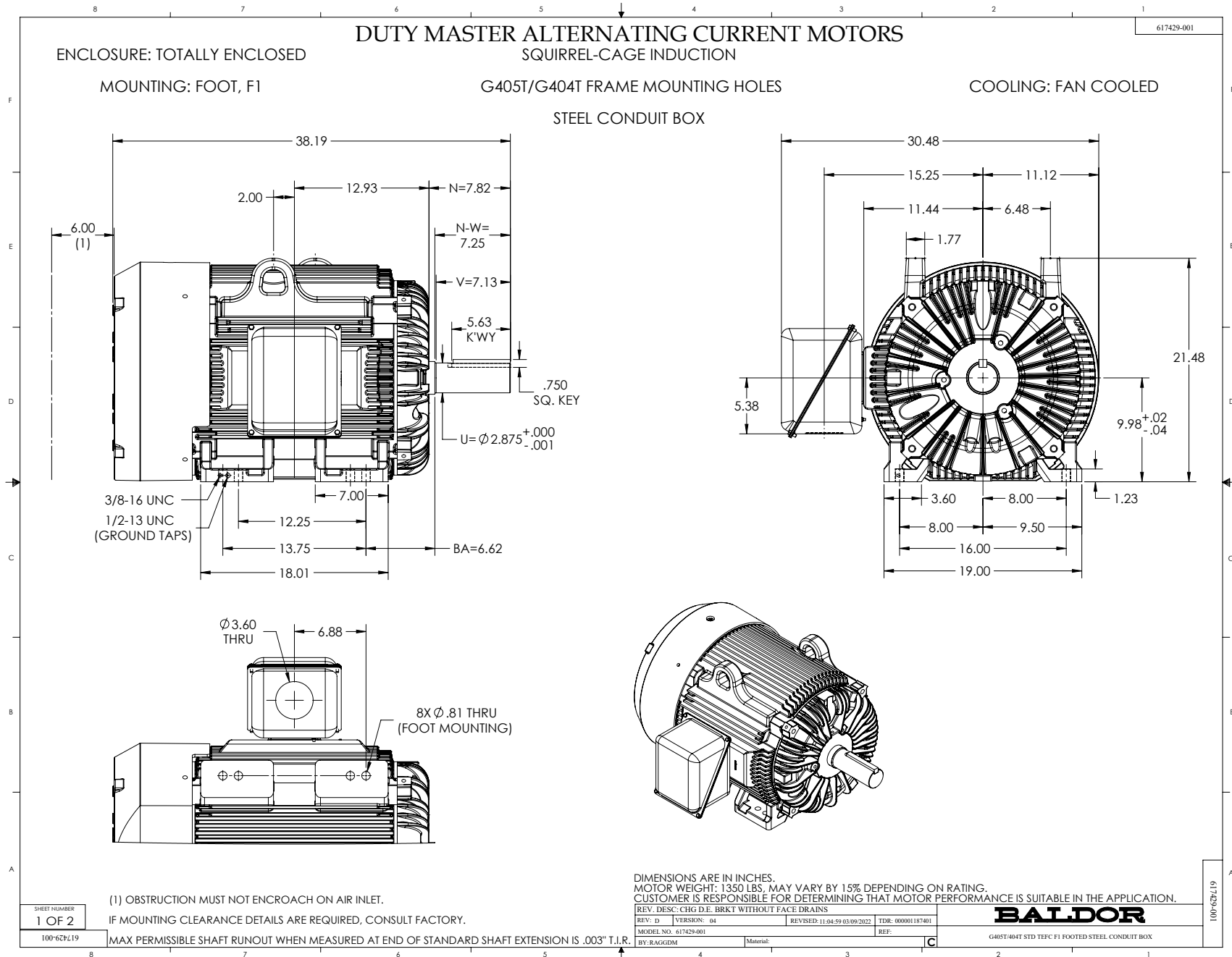


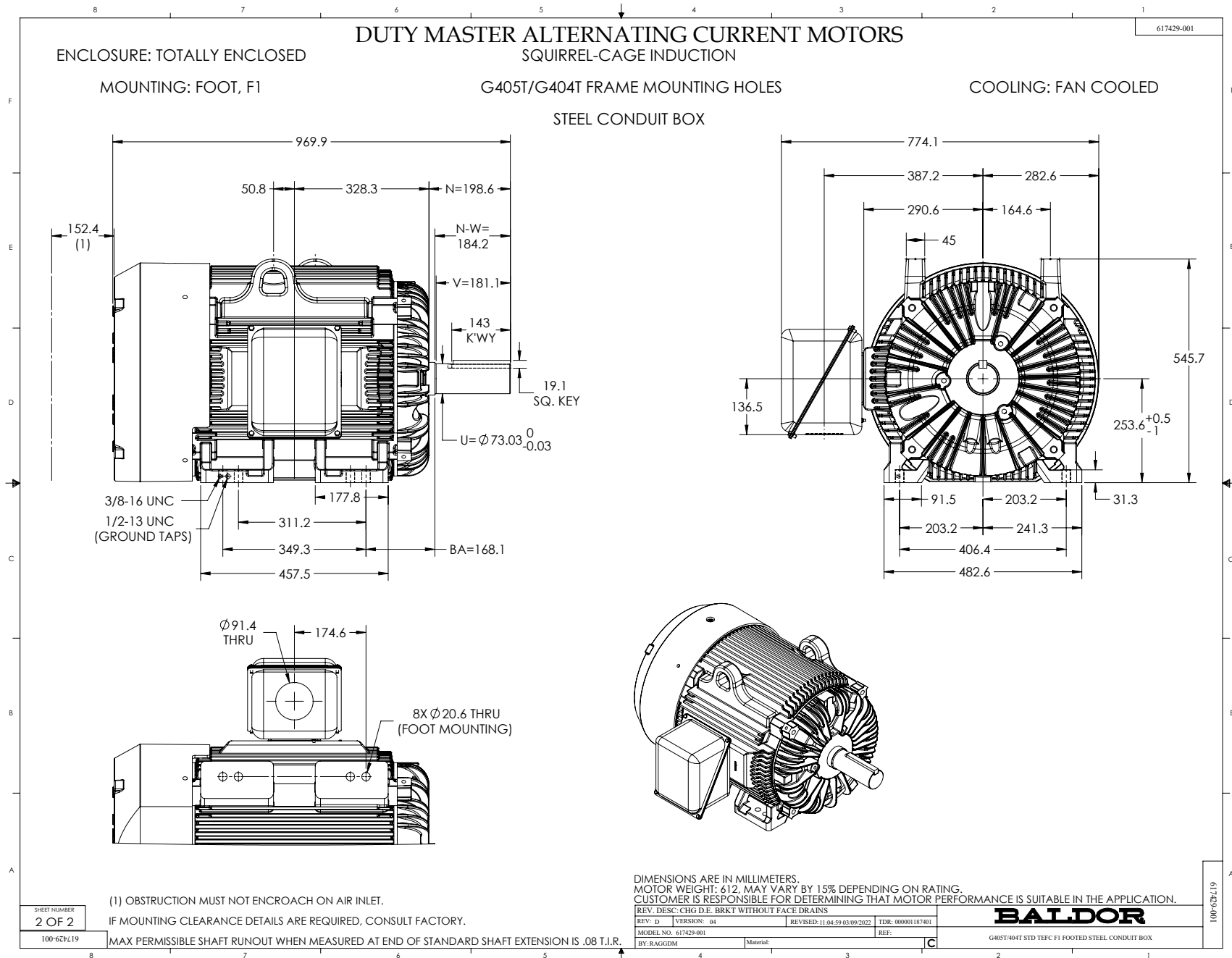
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

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

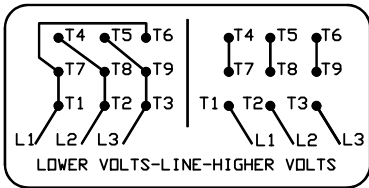
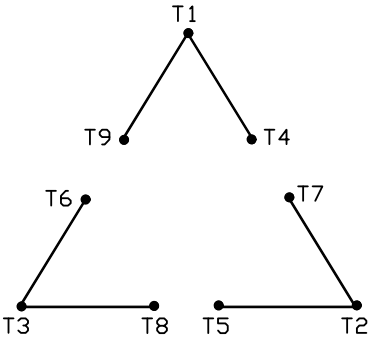
**A-C MOTOR
PERFORMANCE
CURVES**
A40WG0770-R001
ISSUE DATE 07/25/14





416820-002

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



(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS

REV. LTR: B

VERSION: 02

TDR: 000001285318

FILE: \RAG\00022\453

REVISED: 09:36:26 09/24/2026

BY: USJOSUL

MTL: -



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

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