

ABB BALDOR RELIANCE III

Customer information packet

EWDM4404T

75HP, 1185RPM, 3PH, 60HZ, 405T, TEFC, F1

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	CSA EEV CCSA US
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 87.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	87.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0770
Layout	617429-533
Eff. date	10-22-2021
CD Diagram	416820-002
Poles	06
Leads	3#2,6#4
Proprietary	False
Created date	09-11-2019

Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	38.19 IN
Power Factor	85
Product Family	Washdown Features
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	Shaft Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2428L

SPEC NO.	A40-7204-0770			CAT.NO.		EWDM4404T				FRAME	405T		
HP	75	VOLTS		230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	1185	AMPS	174/87		HZ	60	AMB	40	SF	1.15			
DRIVE END BEARING	80BC03JPP30A			DUTY	CONT	INSUL.CLASS		F					
OPP D.E. BEARING	80BC03JPP30A			ENCL	TEFC	CODE	G						
SER.NO.				POWER FACTOR		85	NEMA-NOM-EFFICIENCY				94.5		
							MAX CORR KVAR	15	GUARANTEED EFFICIENCY		93.6		
	IP55						NEMA NOM/CSA QUOTED EFF						
	6:1CT AND 6:1VT ON VPWM INVERT						ER, 1.00SF			MOTOR WEIGHT			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405TZ	75	P	3/60	1185	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
174/87	CONT	40/F	1.15	B	G	TEFC
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	4.76	0	
1/4	18.8	37.3	1197	51.5	91.5	
2/4	37.5	50.8	1193	73.2	94.4	
3/4	56.2	67.8	1190	81.8	94.9	
4/4	75.0	87.0	1186	85.3	94.6	
5/4	93.8	108	1182	86.4	94.1	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	166	552	537	
PULL UP		400	158	524	506	
BREAKDOWN		1128	243	808	302	
FULL LOAD		1186	100	332	87.0	
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 94.5 PCT GUARANTEED MIN EFF. 93.6 PCT						
		DR. BY C.E. JAMISON CK. BY W.L. SMITH APP. BY C.E. JAMISON DATE 11/04/16		A-C MOTOR PERFORMANCE DATA A40WG0770-R015 ISSUE DATE 03/29/21		

REL S.O.

 RPM **1185**

 S.F. **1.15**

 ROTOR **418142-71-EE**

 FRAME **405TZ**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **75**

 AMPS **174/87**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

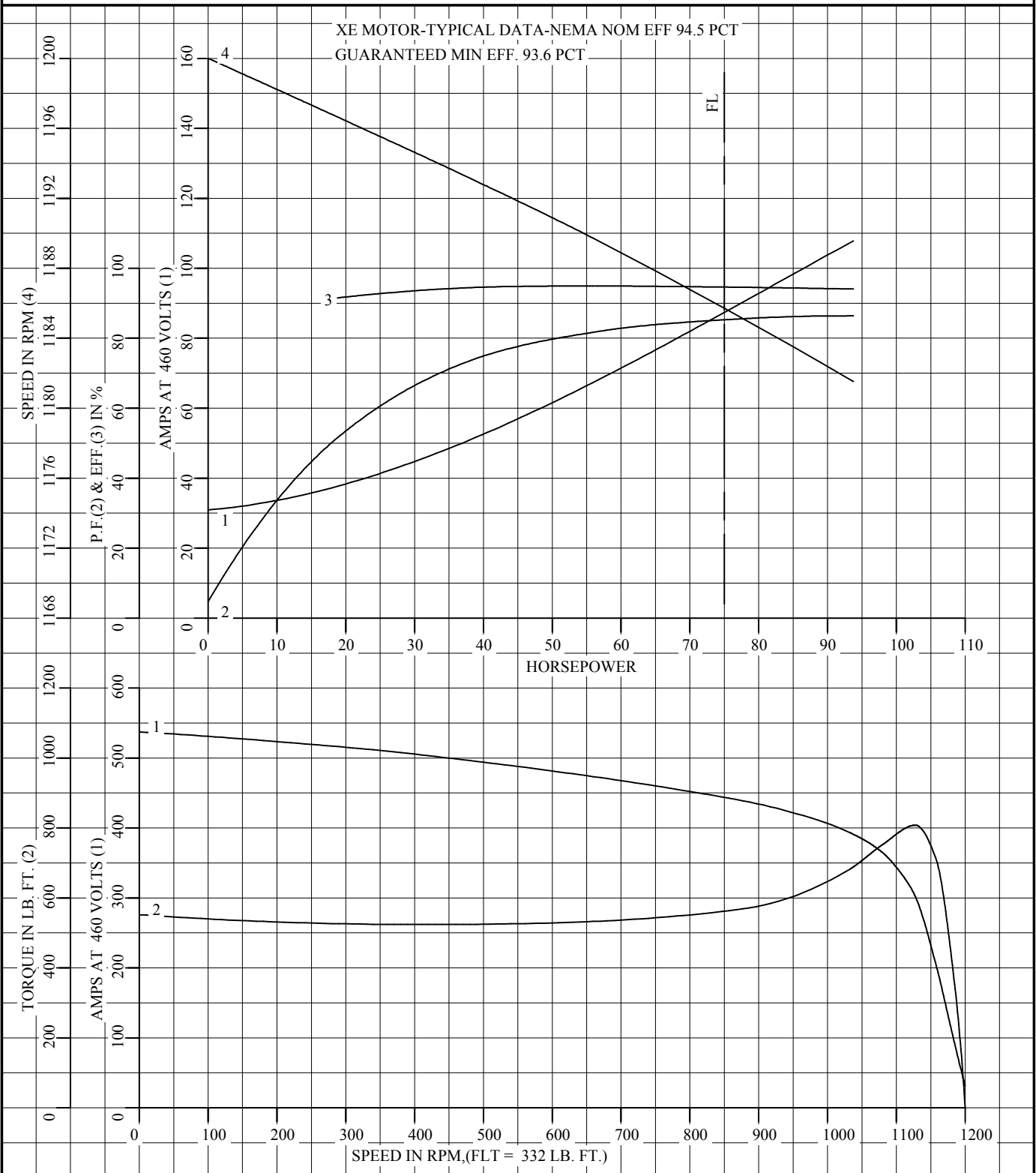
 STATOR RES. @ 25 °C **.0215/.0860**

 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 C.E. JAMISON
 CK. BY W.L. SMITH
 APP. BY C.E. JAMISON
 DATE 11/04/16

**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0770-R015

ISSUE DATE **03/29/21**

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REL. S.O.

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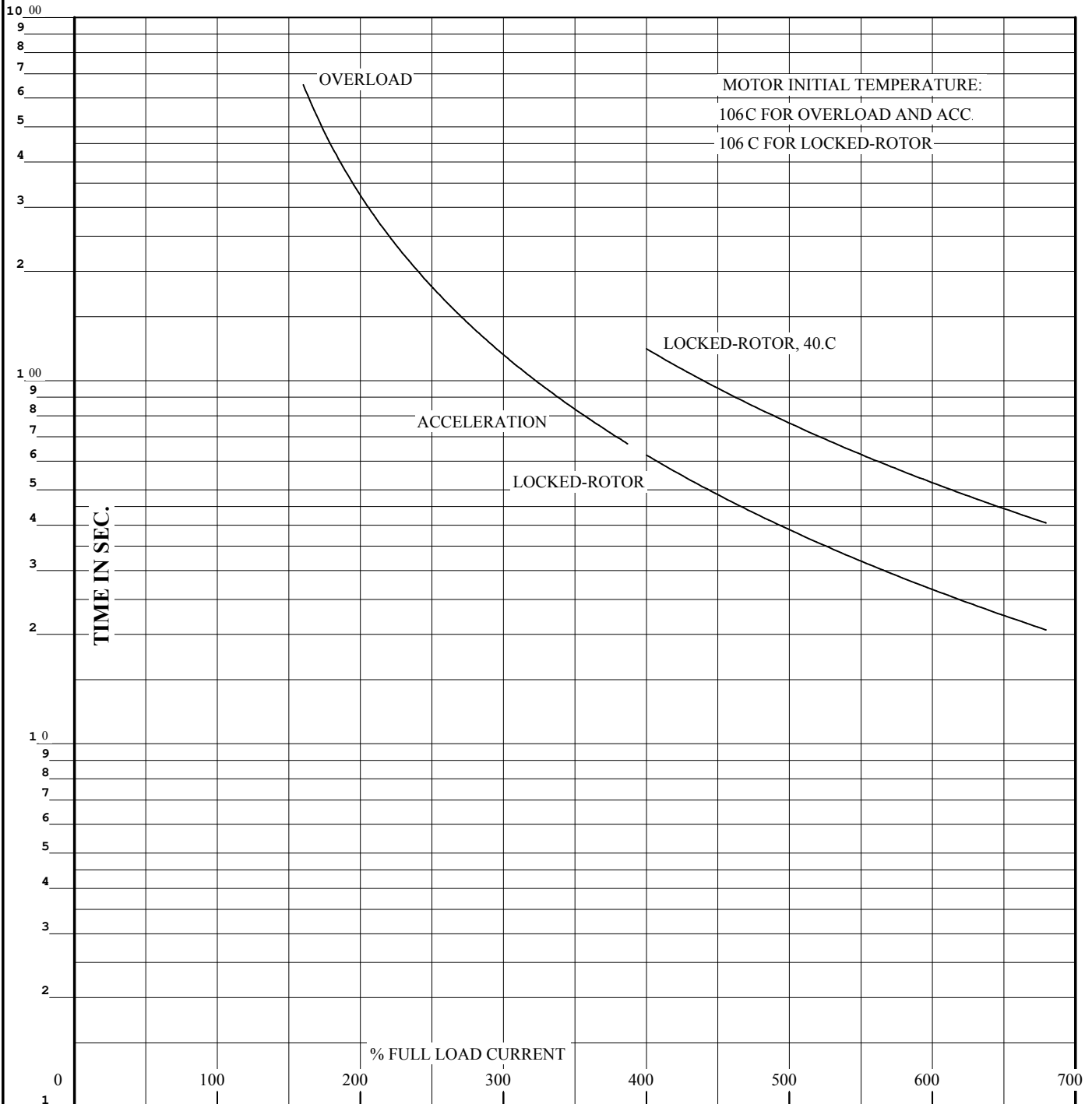
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 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **496234**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-TYPICAL DATA-NEMA NOM EFF 94.5 PCT

GUARANTEED MIN EFF. 93.6 PCT

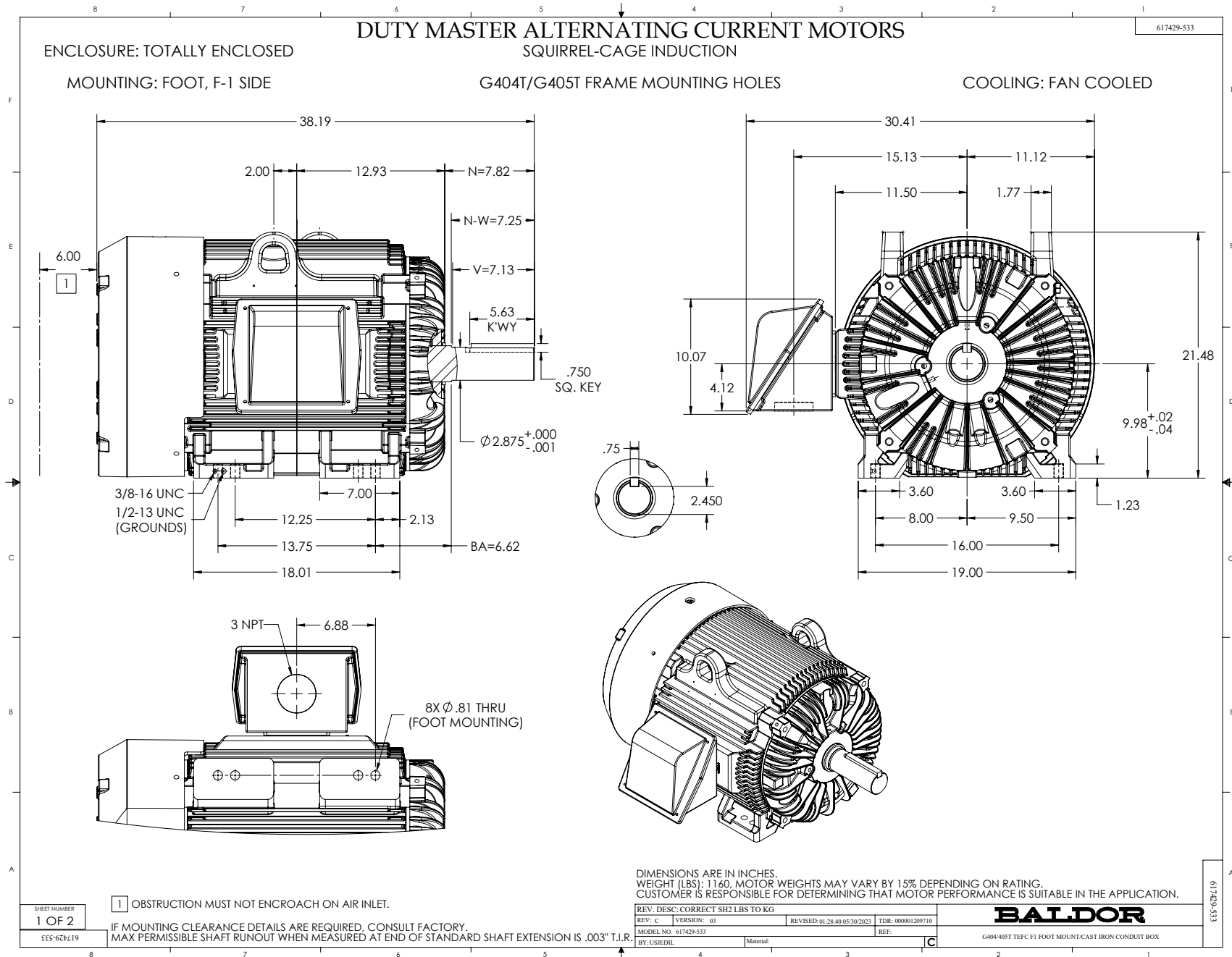
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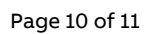
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**A-C MOTOR
PERFORMANCE
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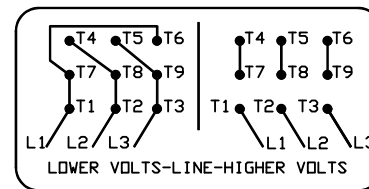
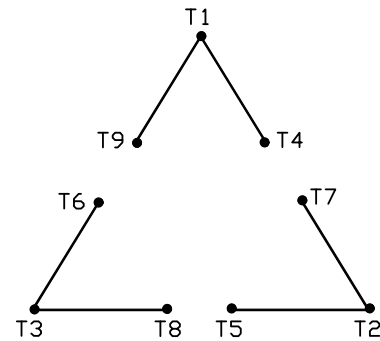
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416820-002

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: -



ABB

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002