

ABB BALDOR RELIANCE III

Customer information packet

EWDM4468T

60HP, 890RPM, 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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 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	157.000 A @ 230.0 V 78.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	78.4 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	F

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0790
Layout	617429-533
Eff. date	11-01-2021
CD Diagram	416820-002
Poles	08
Leads	3#4,6#6
Proprietary	False
Created date	09-11-2019

Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A40060M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	38.19 IN
Power Factor	77
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	890 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.	A40-6570-0790			CAT.NO.	EWDM4468T					FRAME	405T	
HP	60	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P		
RPM	890	AMPS	157/78.4		HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	80BC03JPP30A		DUTY	CONT	INSUL.CLASS		F					
OPP D.E. BEARING	80BC03JPP30A		ENCL	TEFC	CODE	F						
SER.NO.				POWER FACTOR		77	NEMA-NOM-EFFICIENCY				92.4	
						MAX CORR KVAR		18	GUARANTEED EFFICIENCY			91
	IP55					NEMA NOM/CSA QUOTED EFF						
	4:1CT AND 4:1VT ON VPWM INVERT					ER, 1.00SF			MOTOR WEIGHT			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	60	P	3/60	890	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
157/78.4	CONT	40/F	1.15	B	F	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
496241	418142071BE	---	---	.0285/.114		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	31.1	900	5.84	0	
1/4	15.0	37.0	897	43.3	87.7	
2/4	30.0	47.8	894	63.9	92.0	
3/4	45.0	62.0	891	73.2	92.8	
4/4	60.0	78.4	888	77.4	92.6	
5/4	75.0	96.0	884	79.5	91.9	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	148	525	405	
PULL UP		280	127	451	380	
BREAKDOWN		844	225	800	235	
FULL LOAD		888	100	355	78.4	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA NEMA. NOM. EFF. 92.4%						
		DR. BY	W. L. SMITH	A-C MOTOR PERFORMANCE DATA		
		CK. BY	C. E. JAMISON			
		APP. BY	E. J. CHRISTIAN			
		DATE	11/02/17			
			A40WG0790-R006 ISSUE DATE 09/11/19			

REL S.O.

 RPM **890**

 S.F. **1.15**

 ROTOR **418142071BE**

 FRAME **405T**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **60**

 AMPS **157/78.4**

 CODE LETTER **F**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

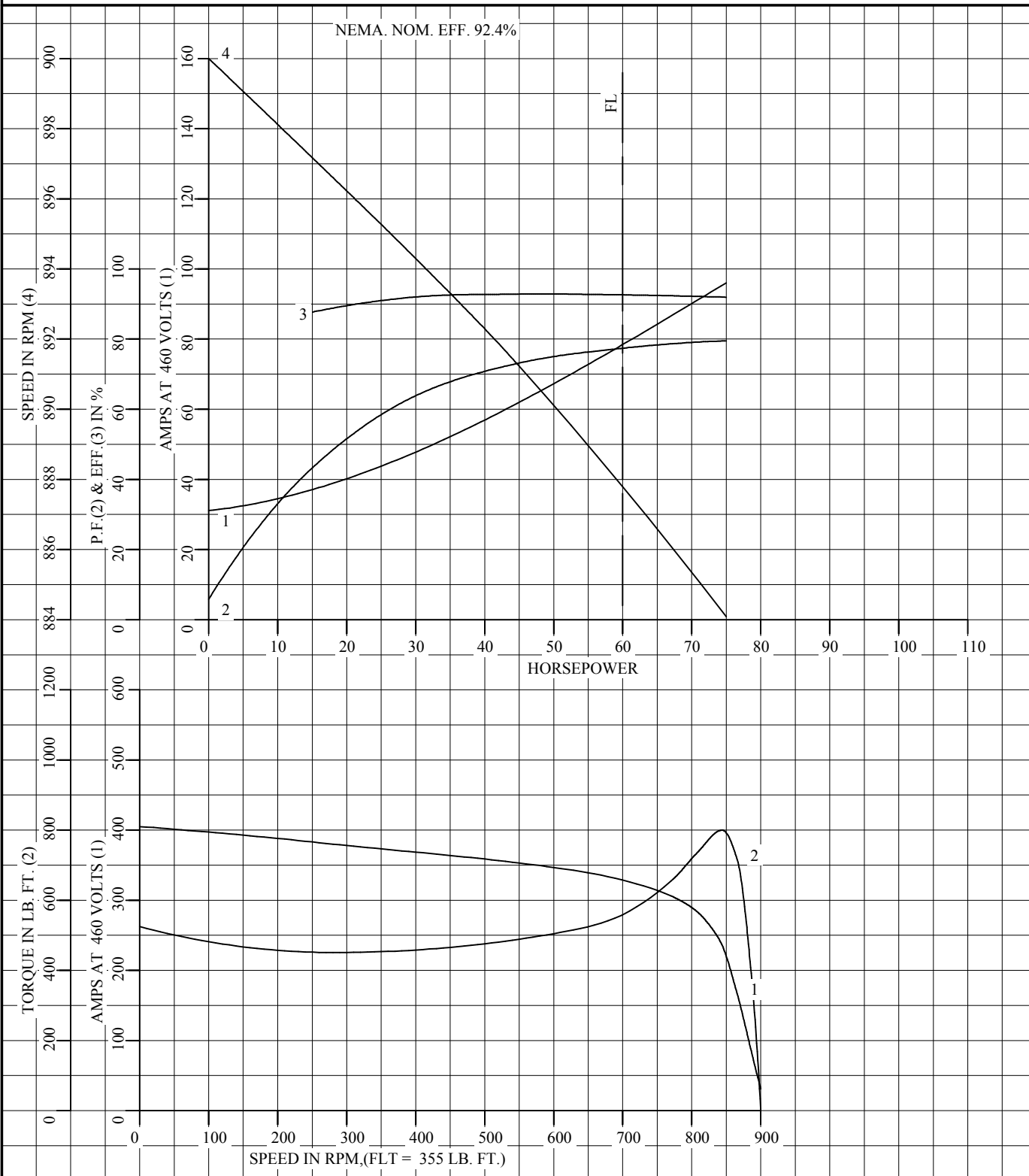
 STATOR RES. @ 25 °C **.0285/.114**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **496241**

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 W. L. SMITH
CK. BY C. E. JAMISON
APP. BY E. J. CHRISTIAN
DATE 11/02/17

**A-C MOTOR
PERFORMANCE
CURVES**

A40WG0790-R006

ISSUE DATE 09/11/19

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REL. S.O.

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 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

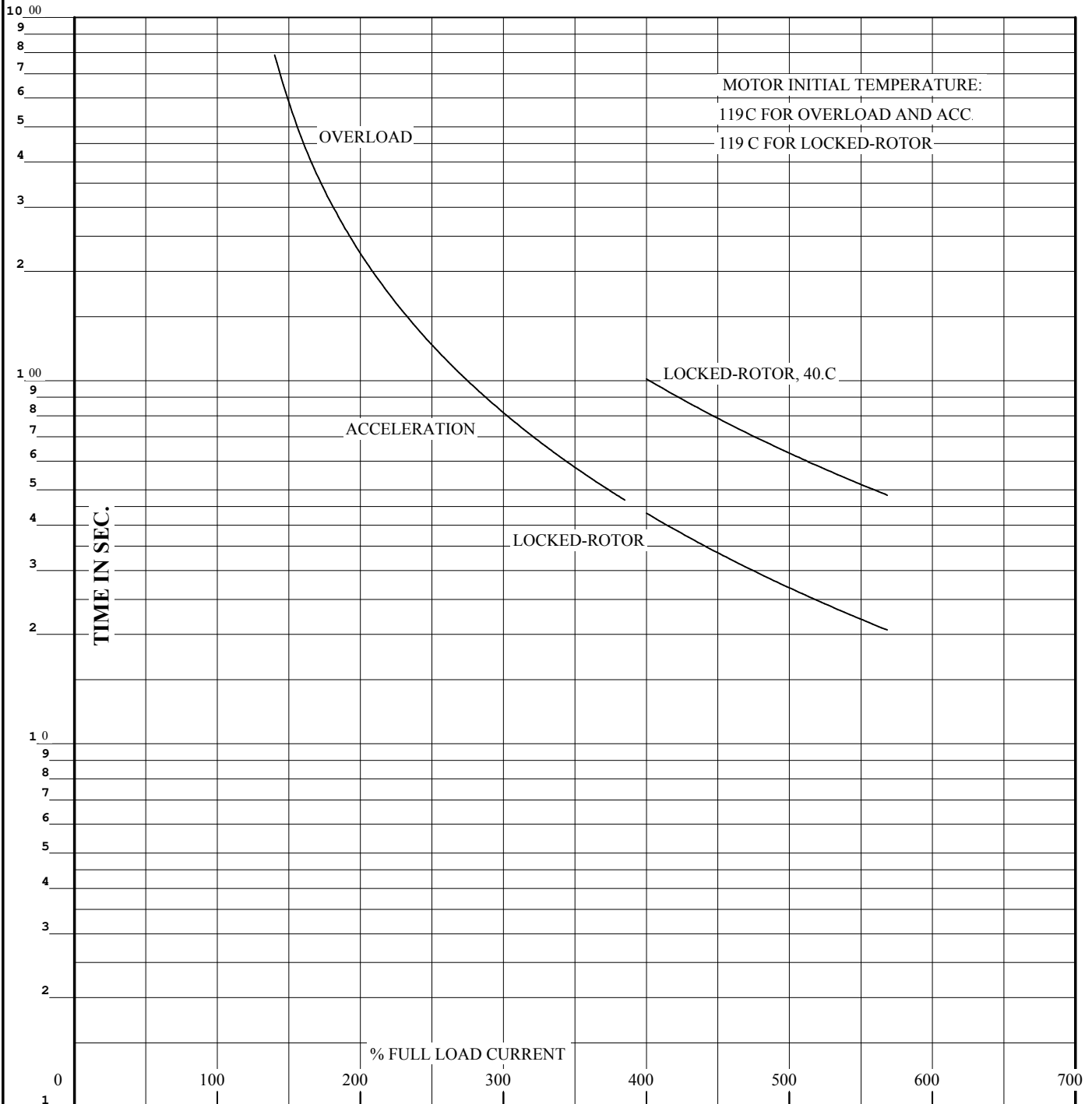
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 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **496241**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

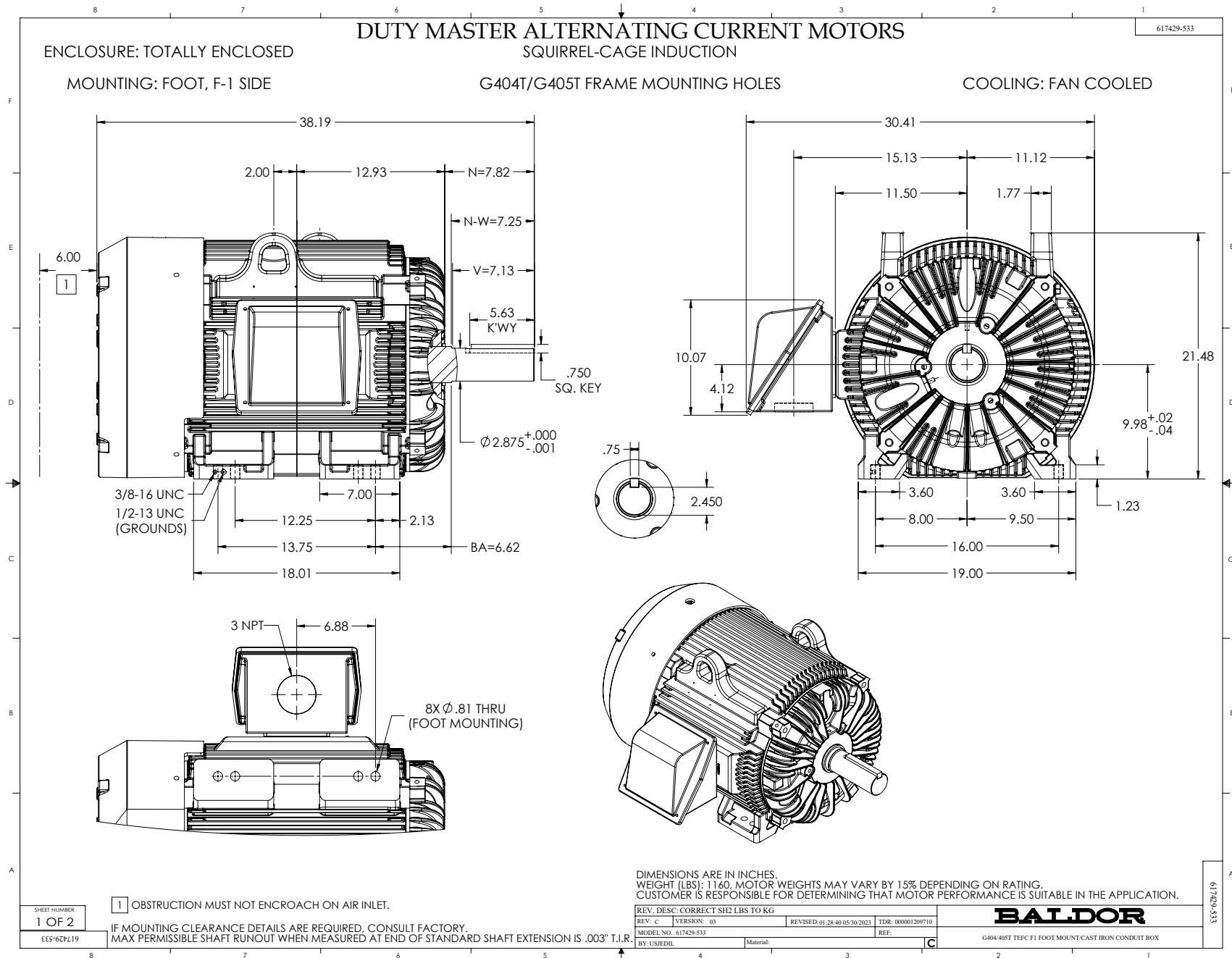
NEMA. NOM. EFF. 92.4%

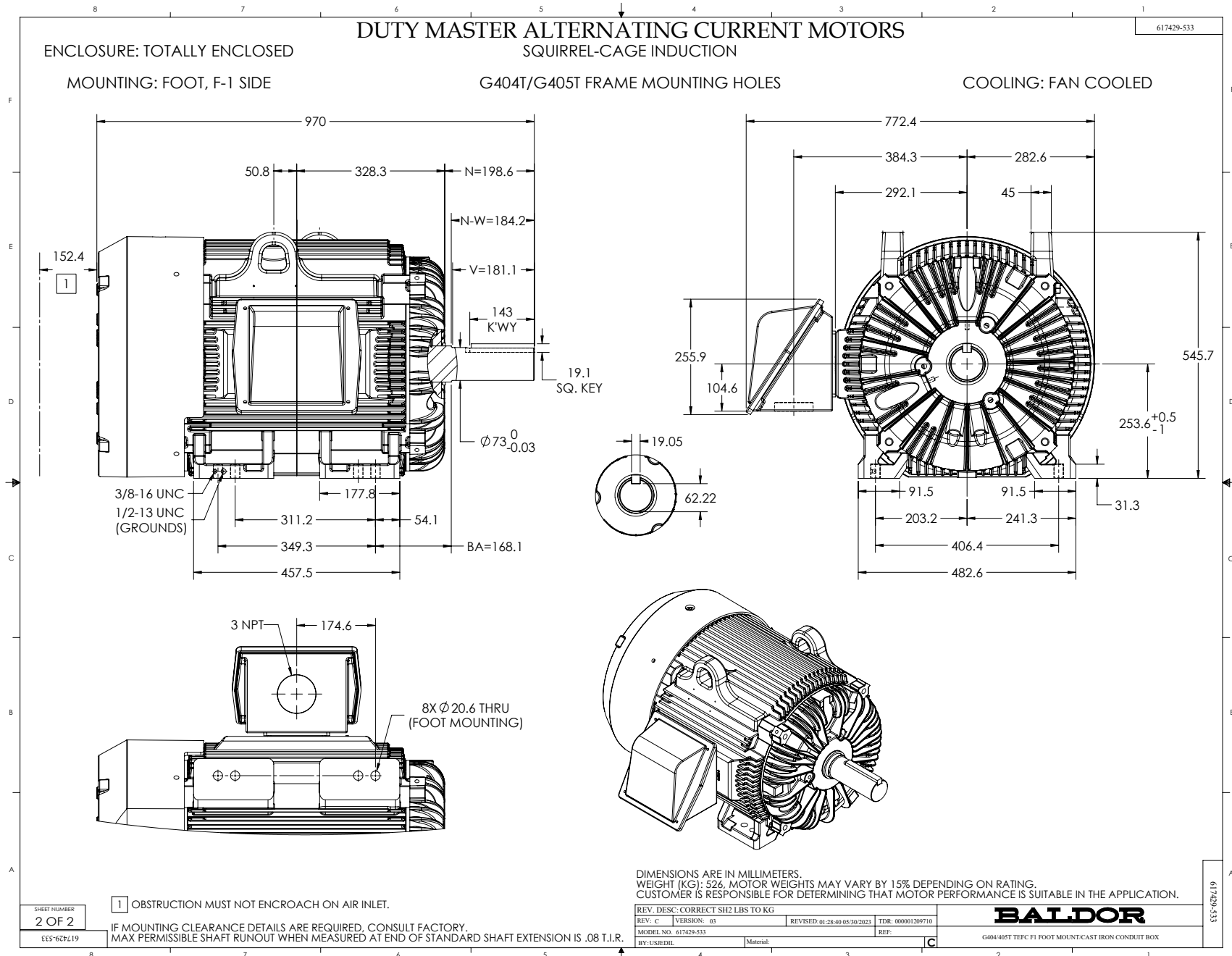
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**A-C MOTOR
PERFORMANCE
CURVES**
A40WG0790-R006

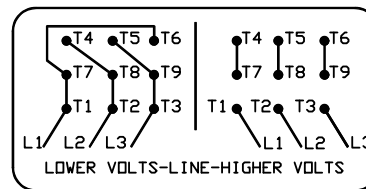
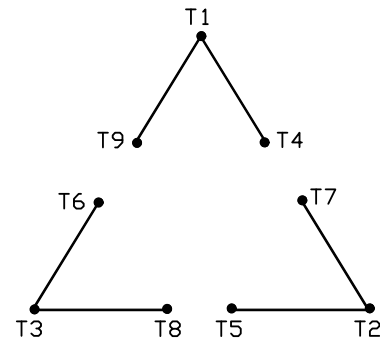
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416820-002

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



(N. P. 1575-B)

416820-002

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

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