

ABB BALDOR RELIANCE III

Customer information packet

EM2558T-4

150HP, 1780RPM, 3PH, 60HZ, 444T, 1868M, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	444T
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	1800 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	170.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	170.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Standards	NEMA
Motor Type	A44062M
Mounting Arrangement	F1

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2176
Layout	617428-042
Eff. date	12-10-2025
CD Diagram	416820-008
Poles	04
Leads	6#2
Proprietary	False
Created date	09-08-2015

Number of Poles	4
Overall Length	39.71 IN
Power Factor	86
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2377L														
CAT.NO.	EM2558T-4				SPEC NO.		A44-0003-2176							
HP	150	AMPS	170				VOLTS	460		DESIGN	B			
FRAME	444T		RPM	1785	HZ	60	AMB	40	SF	1.15				
DRIVE END BEARING	90BC03J30X			PHASE	3	DUTY	CONT		INSUL.CLASS		F			
OPP D.E. BEARING	90BC03J30X			TYPE	P	ENCL	DP	CODE	G					
SER.NO.				POWER FACTOR			86		NEMA-NOM-EFFICIENCY			96.2		
							MAX CORR KVAR		30	GUARANTEED EFFICIENCY			95.4	
							NEMA NOM/CSA QUOTED EFF							
							MOTOR WEIGHT							

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							EM2558T-4 - 150HP, 1780RPM, 3PH, 60HZ, 444T, 1868M, OPEN						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			444T			150			P			3/60			1785			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
170			CONT			40/F			1.15			B			G			ODP		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
497213			418143-040-PE			---			---			.0318								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			59.9			1800			3.40			0					
1/4			37.5			72.2			1797			51.8			94.0					
2/4			75.0			99.1			1793			73.7			96.1					
3/4			112			133			1790			82.3			96.4					
4/4			150			170			1786			85.9			96.2					
5/4			187			210			1782			87.1			95.9					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			148			655			1085					
PULL UP						720			139			615			1025					
BREAKDOWN						1725			252			1110			630					
FULL LOAD						1786			100			441			170					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
XE MOTOR CALCULATED DATA. NEMA NOM EFF 96.2 PCT. GUAR MIN EFF 95.8 PCT.																				
						DRAWN BY: <u>J. P. TSAO</u> CHECKED BY: <u>J. P. TSAO</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>09/16/26</u>						AC MOTOR PERFORMANCE DATA			A44WG2176-R001 DATE ISSUED 09/16/26					

FRAME 444T

RPM 1785

S.F. 1.15

ROTOR 418143-040-PE

HP 150

VOLTS 460

NEMA DESIGN B

TEST S.O. ---

TYPE P

AMPS 170

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

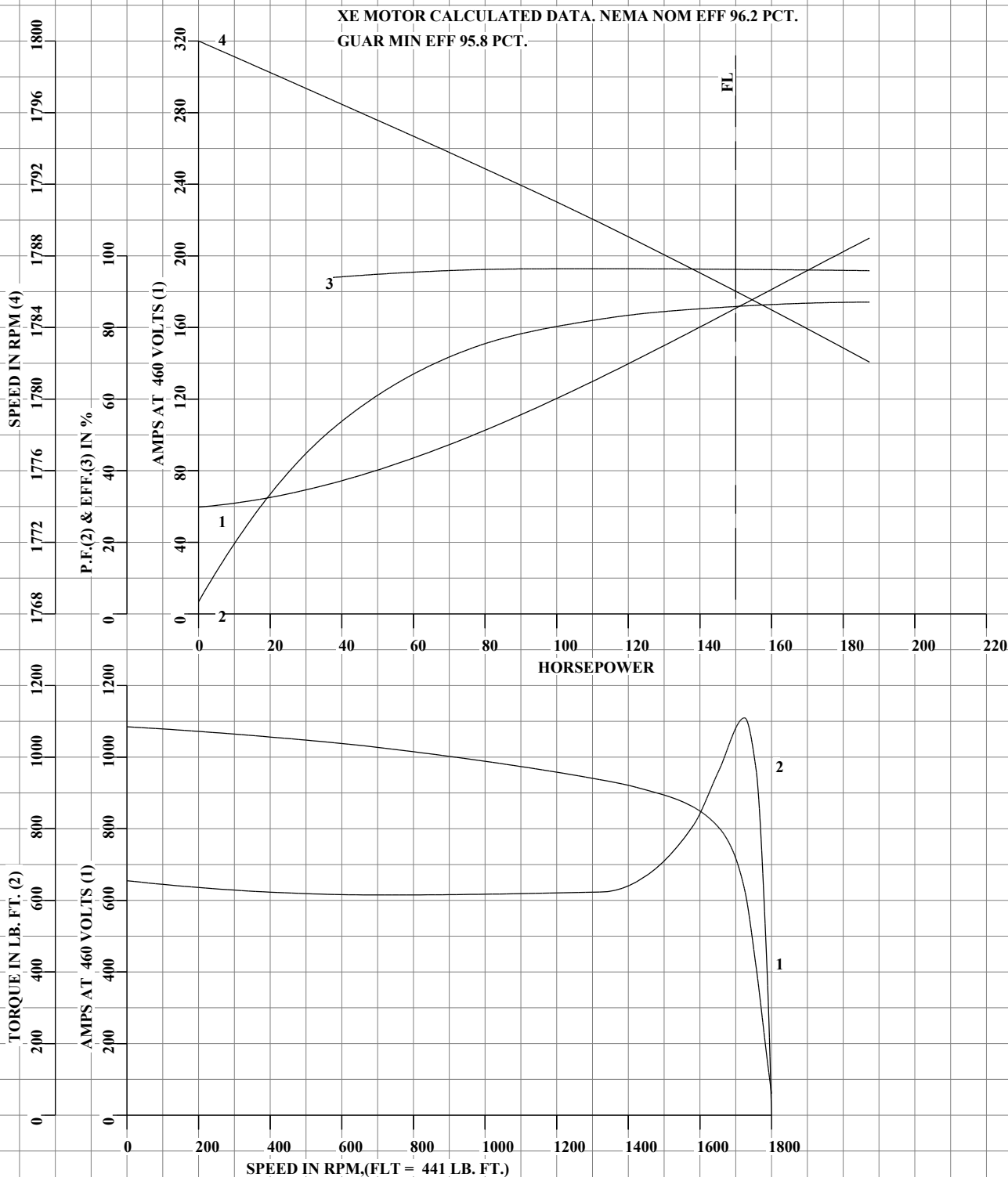
ENCLOSURE ODP

STATOR RES. @ 25°C .0318

AMB °C / INSUL 40/F

E/S 497213

OHMS (BETWEEN LINES)



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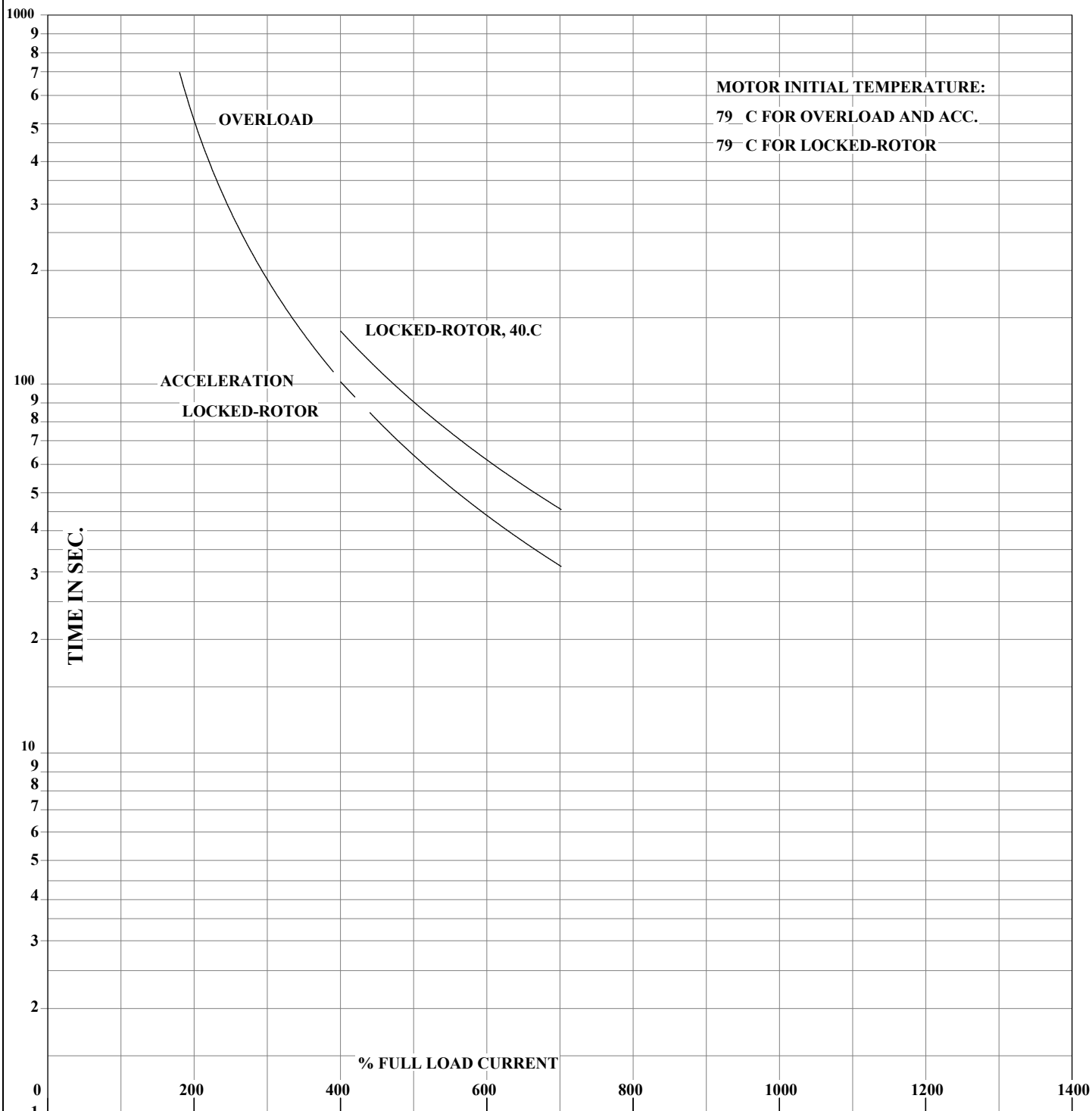
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**THERMAL LIMIT CURVE
BASED ON MOTOR CALCULATED DATA. NEMA NOM EFF 96.2 PCT.**

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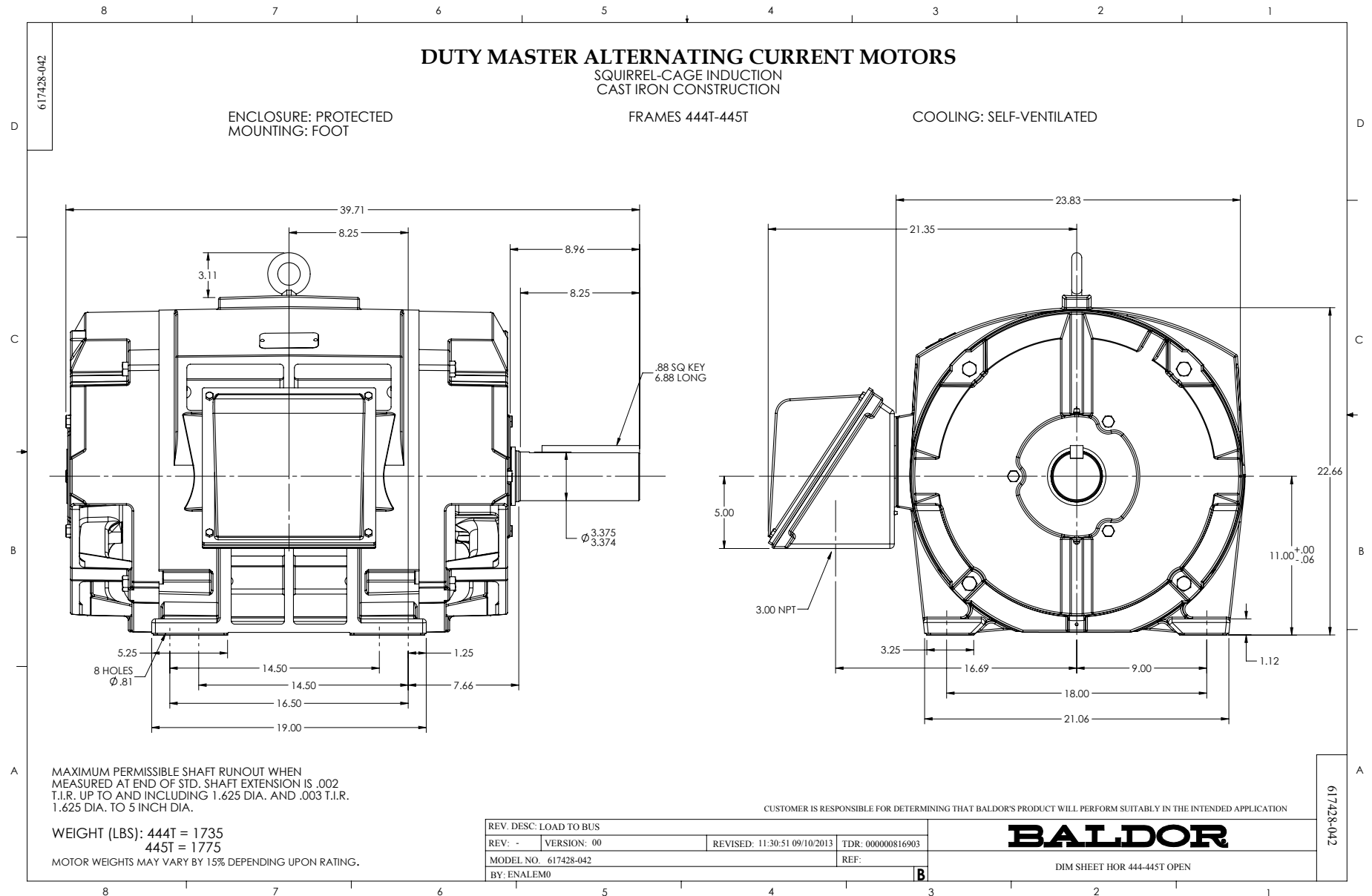


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**AC MOTOR
PERFORMANCE
DATA**

A44WG2176-R001

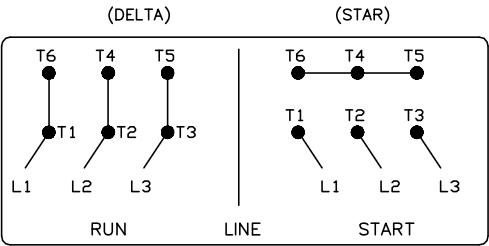
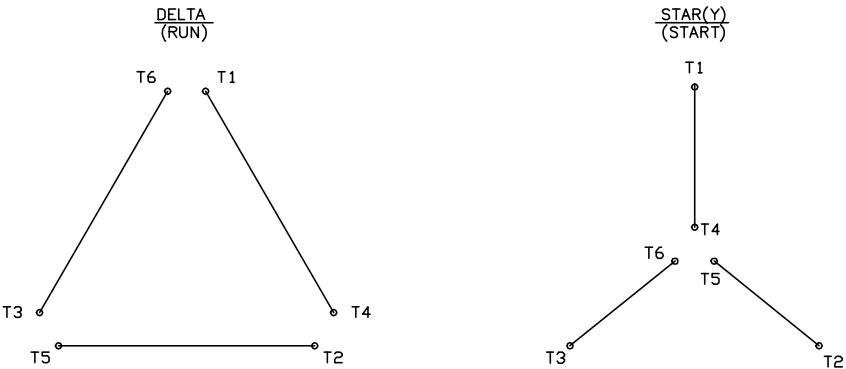
ISSUE DATE 09/16/26



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