

ABB BALDOR RELIANCE III

Customer information packet

EM2558TS-4

150HP, 1785RPM, 3PH, 60HZ, 444TS, A44062M, ODP

Class - None

Division - Not Applicable

Specifications

Enclosure	DP
Frame	444TS
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	CCSA US CCSAUSEEV CSA EEV 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	3 @ 1/0 AWG

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG2178
Layout	617428-041
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0
Proprietary	False
Created date	12-17-2010

Motor Standards	NEMA
Motor Type	A44062M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	35.96 IN
Power Factor	86
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2349L															
SPEC NO.	P44G1799			CAT.NO.		EM2558TS-4					FRAME	444TS			
HP	150	VOLTS		460		PHASE	3	DESIGN	B	TYPE	P				
RPM	1785	AMPS		170		HZ	60	AMB	40	SF	1.15				
DRIVE END BEARING	90BC03J30X			DUTY	CONT		INSUL.CLASS		F						
OPP D.E. BEARING	90BC03J30X			ENCL	DP	CODE	G								
SER.NO.				POWER FACTOR		86		NEMA-NOM-EFFICIENCY				96.2			
						MAX CORR KVAR		30.0		GUARANTEED EFFICIENCY		95.8			
						NEMA NOM/CSA QUOTED EFF									
						MOTOR WEIGHT									

Accessories

Part number	Description	Multiplier
089439052B	C-FACE BRKT 440 089439052WCA	P1
089439053B	D-FLANGE BRKT 440 089439053WCA	P1

FRAME 445T

RPM 1785
VOLTS 460

NEMA DESIGN B

TEST S.O. ---

HP 150

AMPS 170

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE PRXE

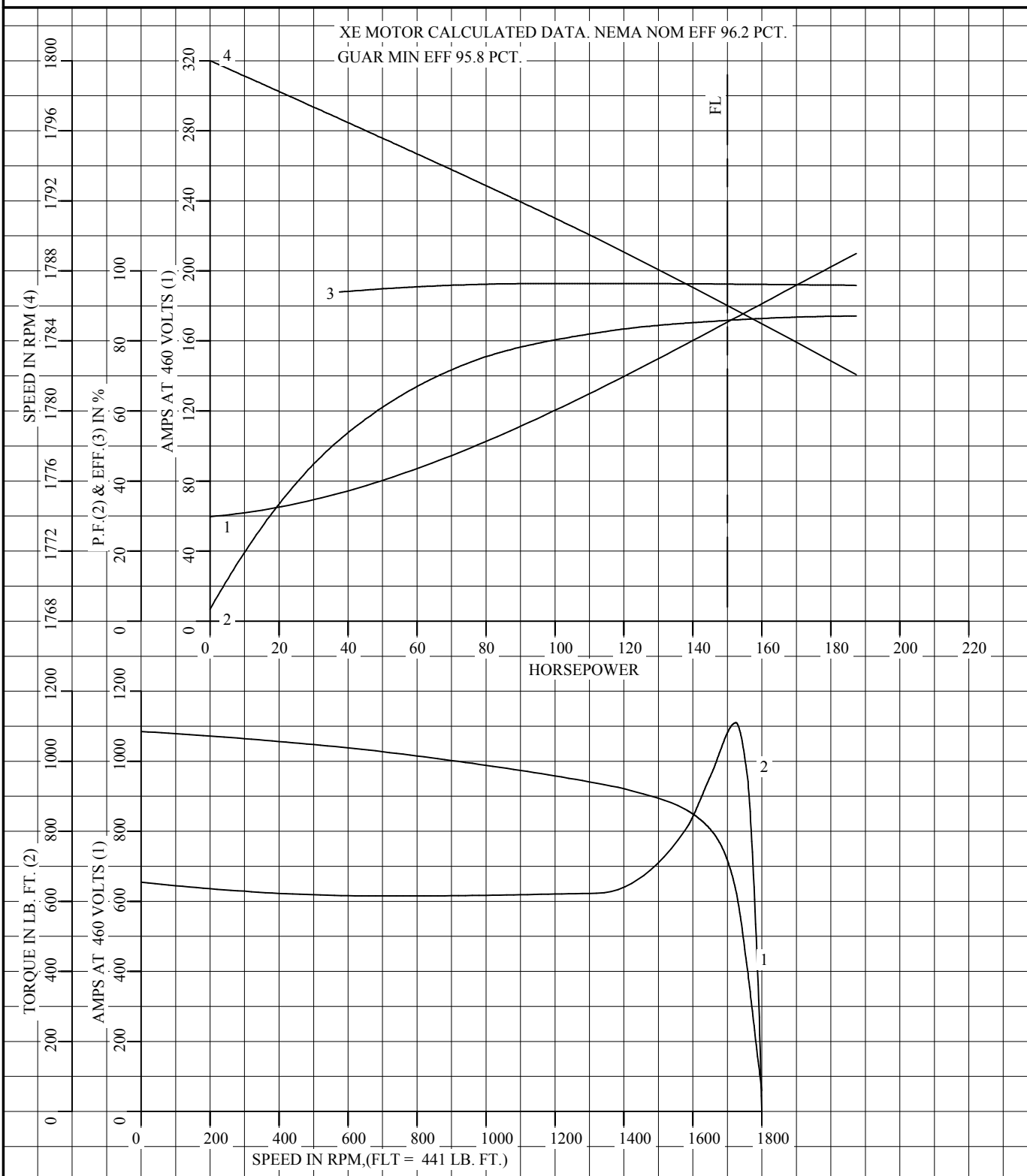
STATOR RES. @ 25 °C .0318

PHASE/HERTZ 3/60

AMB °C/INSUL 40/B

E/S 497412

OHMS (BETWEEN LINES)



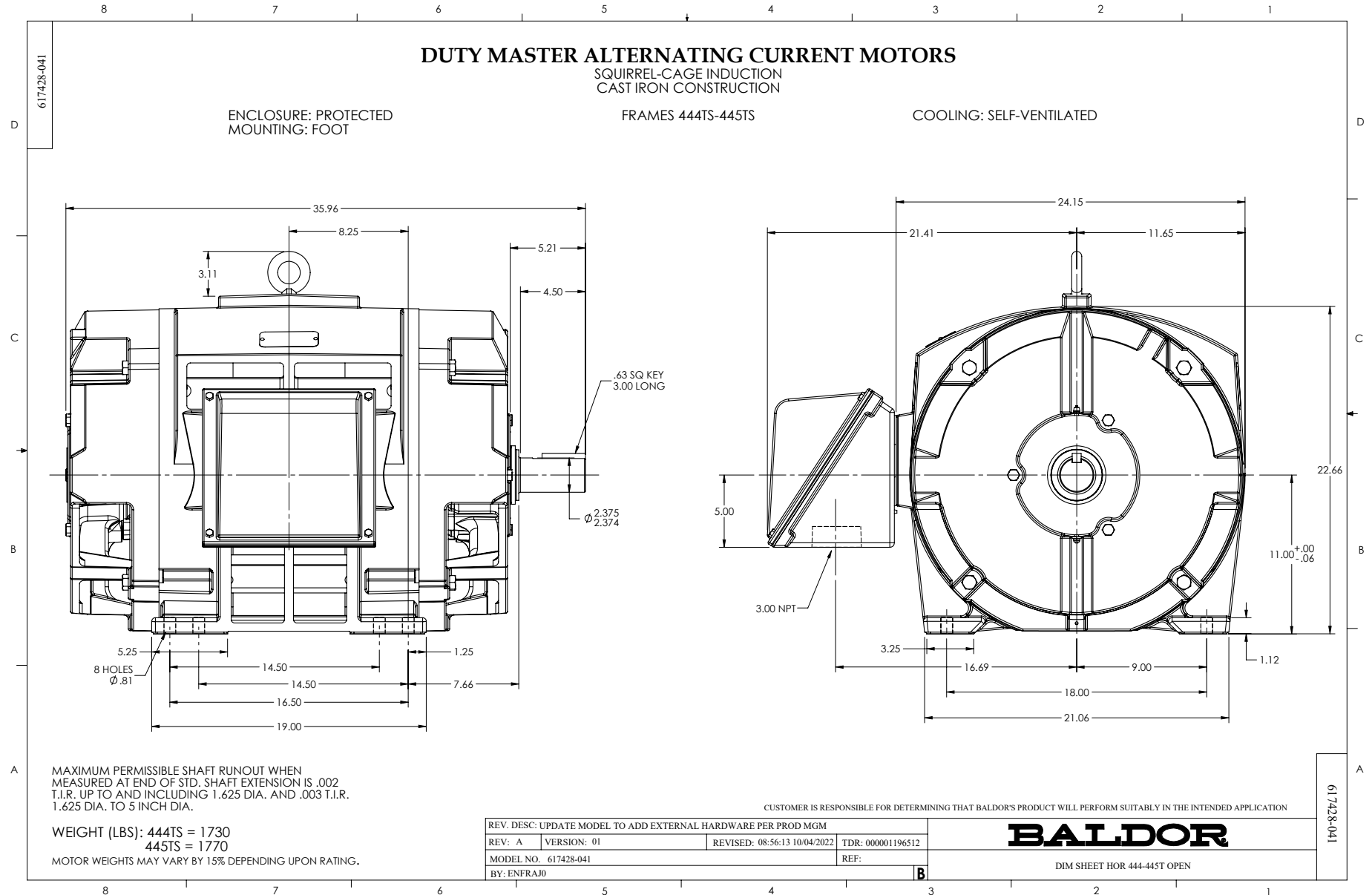
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY B.R.PENDLEY
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 12/02/10

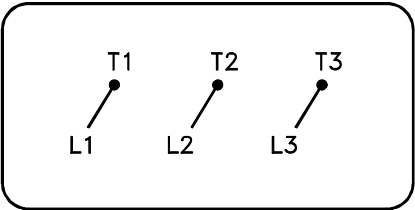
**A-C MOTOR
PERFORMANCE CURVES** A44WG2178-R001
ISSUE DATE 12/02/10

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445T	150	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
170	CONT	40/B	1.15	B	G	PRXE
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
497412	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 VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: XE MOTOR CALCULATED DATA. NEMA NOM EFF 96.2 PCT. GUAR MIN EFF 95.8 PCT.						
		DR. BY <u>B.R.PENDLEY</u> CK. BY <u>W.L.SMITH</u> APP. BY <u>W.L.SMITH</u> DATE <u>12/02/10</u>		A-C MOTOR PERFORMANCE DATA		
				A44WG2178-R001 ISSUE DATE 12/02/10		



416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1