

ABB BALDOR RELIANCE III

Customer information packet

EM4408TR-4

250HP, 1785RPM, 3PH, 60HZ, 449T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	449T
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	250.000 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	Mobil SHC 220 (Athens Only)
Current @ Voltage	276.000 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	276.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44144M

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5150
Layout	617427-209
Eff. date	09-25-2025
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	04-13-2015

Mounting Arrangement	F1
Number of Poles	4
Overall Length	53.21 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
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	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL SHC 220	

NP2349L

SPEC NO.	A44-7126-5150			CAT.NO.	EM4408TR-4				FRAME	449T	
HP	250	VOLTS	460		PHASE	3	DESIGN	B	TYPE	P	
RPM	1785	AMPS	276		HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	110RU02M30X		DUTY	CONT	INSUL.CLASS		F				
OPP D.E. BEARING	90BC03J30X		ENCL	TEFC	CODE	G					
SER.NO.				POWER FACTOR	88	NEMA-NOM-EFFICIENCY				96.2	
						MAX CORR KVAR	39	GUARANTEED EFFICIENCY		95.4	
						NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT					

Parts List

Part number	Description	Quantity
SA299284	SA A44-7126-5150	1.000 ea
RA286299	RA A44-7126-5150	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000FF	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2349L	SUPER-E ,SS, CURUS EEV, CC, LASER	1.000 ea
412118006A	DRAIN	2.000 ea
418151014H	RETAIN RING	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
415072001B	CLAMP	1.000 ea
083199126RA	G28 MOLDED FAN COVER W/BAFFLE ASSEMBLY	1.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
078548001R	FAN KB 234/150 (84) 400	1.000 ea
004824015AP	GREASE MOBILITH SHC 220	1.160 lb
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530064BB	P/NIP 1/4X8 PLATED	1.000 ea
034530064AB	P/NIP 1/8 X 8" L Pipe Nipple	1.000 ea
034690005AB	PPLG 3/4 PLATED	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
702623022A	G28 AIR DEFLECTOR DRIVE END -- PLASTIC	1.000 ea
418151014G	RETAIN RING	1.000 ea
418151014G	RETAIN RING	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea

034530056BB	P/NIP 1/4X7 SCHED 40	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
089490101A	G28 BRKT 089490100WCA	1.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034530056AB	1/8 X 7 PP NIPPLE	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
034001013AB	FLTW BAFFLE	3.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
415915007G	GASK, LAC	1.000 ft
702658001B	+C/BOX, PAINTED 440	1.000 ea
702658002A	+C/BOX CVR, PAINTED 440	1.000 ea
406056008A	GASKET, TERBD 440	1.000 ea
418153001A	GASK 440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
MG1025Y17	WILKOFAS, 789.701, SUPER E PEARL GOLD	0.500 ga
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
604797056	400-447 FRAME 60 X 42	1.000 ea
032510026D	CARRIAGE BOLT - 440	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	1.000 ea
604797001R	440 FR. ROLLER BEARING MOTOR SHAFT	1.000 ea

000692000RT	N/P	1.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	1.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea
034001016AB	WSHR .562ID 1.375OD .109	1.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	250	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
276	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
833428	418143052LE	---	---	.0128		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	67.9	1800	4.53	0	
1/4	62.6	94.4	1796	65.7	94.4	
2/4	125	145	1792	83.6	96.2	
3/4	187	208	1788	87.6	96.4	
4/4	250	276	1783	88.3	96.2	
5/4	313	345	1778	88.6	95.7	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	143	1053	1813	
PULL UP		1200	126	931	1486	
BREAKDOWN		1726	251	1847	893	
FULL LOAD		1783	100	736	276	
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-NEMA NOM. EFF. 96.2 PCT.						
		DR. BY J. P. TSAO		A-C MOTOR PERFORMANCE DATA A44WG5150-R001 ISSUE DATE 04/23/21		
		CK. BY C. E. JAMISON				
		APP. BY W. L. SMITH				
		DATE 11/20/14				
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REL S.O.

 RPM **1785**

 S.F. **1.15**

 ROTOR **418143052LE**

 FRAME **449T**

 VOLTS **460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **250**

 AMPS **276**

 CODE LETTER **G**

TEST DATE ---

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

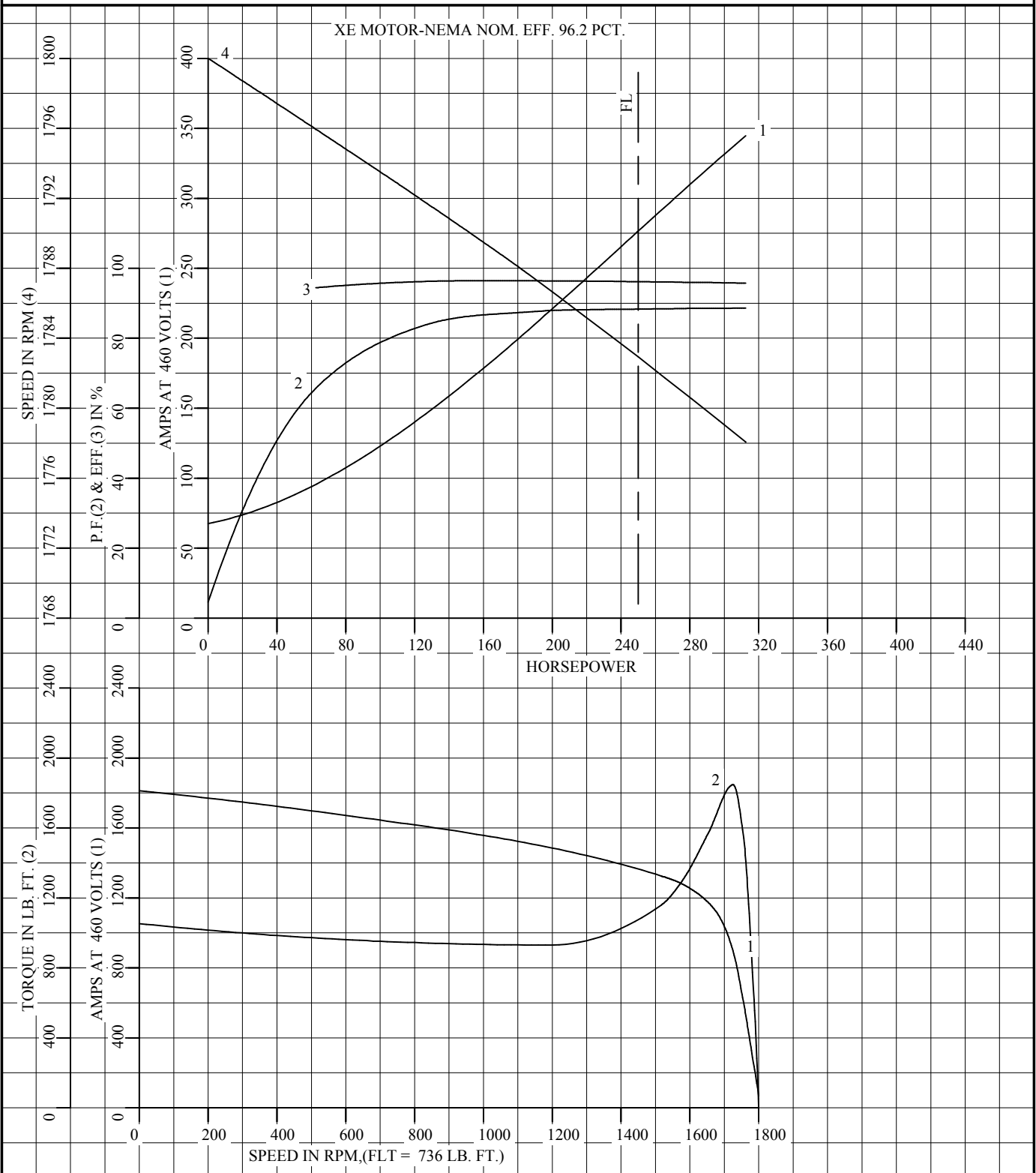
 STATOR RES. @ 25 °C **.0128**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **833428**

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. TSAO
CK. BY C. E. JAMISON
APP. BY W. L. SMITH
DATE 11/20/14

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG5150-R001

ISSUE DATE 04/23/20

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REL. S.O.

 RPM **1785**

 S.F. **1.15**

 ROTOR **418143052LE**

 FRAME **449T**

 VOLTS **460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **250**

 AMPS **276**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

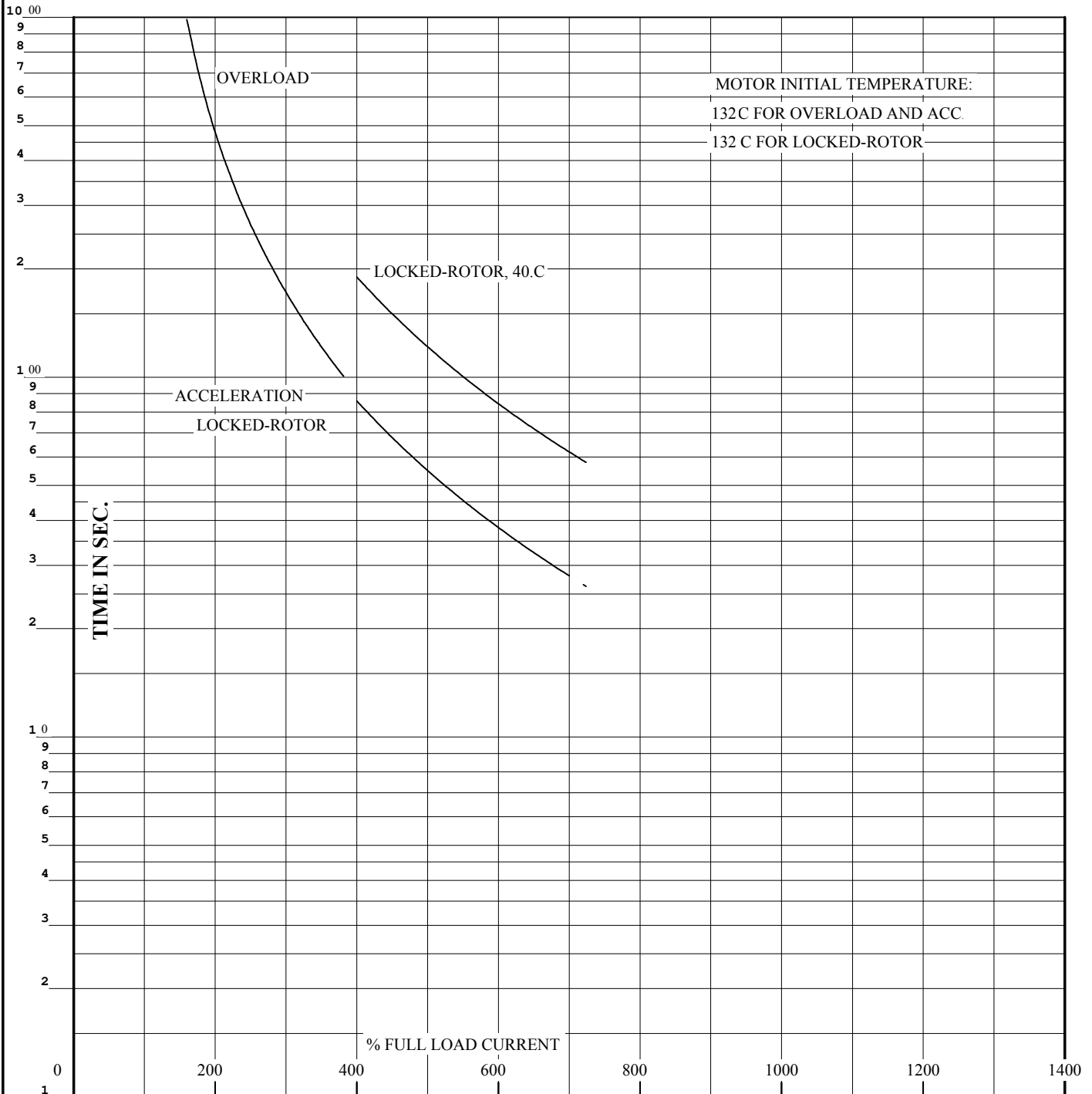
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 E/S **833428**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 96.2 PCT.

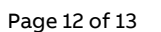
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**A-C MOTOR
PERFORMANCE
CURVES**

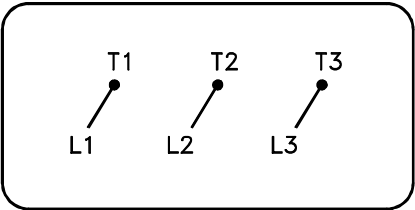
A44WG5150-R001

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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