

ABB BALDOR RELIANCE III

Customer information packet

ECP44402T-4

400HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	L449TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	400.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	30-60
Current @ Voltage	420.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	96.2 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Frame Prefix	L
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	420.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Motor Lead Quantity/Wire Size	12 @ 1/0 AWG

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5211
Layout	617435-427
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	02
Leads	3#1/0 (04 per group)
Proprietary	False
Created date	05-17-2017

Motor Standards	NEMA
Motor Type	A44208M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	56.72 IN
Power Factor	92
Product Family	General Industrial
Pulley End Bearing Type	Ball
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

000901002AAA	
IP-55 CONSTRUCTION	

NP3238

CAT NO	ECP44402T-4			SPEC NO.	A44-7175-5211		
HP	400	AMPS	420	VOLTS	460	DESIGN	B
FRAME	L449TS	RPM	3570	HZ	60	AMB	40
D.E. BRG.DATA	6313	O.D.E. BRG.DATA	6313	SF	1.15	PH	3
D.E. BRG.	65BC03J30X	TYPE	P	ENCL	TEFC	CODE	G
O.D.E. BRG.	65BC03J30X	POWER FACTOR	92	NEMA NOM EFFICIENCY	96.2	INSUL.CLASS	F
3/4 LOAD EFF.	96.5	MAX CORR KVAR	25.0	GUARANTEED EFFICIENCY	95.4		
TEMP CODE	T2C	TEMP =	230				
CHP HZ	60-75	CT HZ	30-60	VT HZ	0-60		
INVERTER-TEMP-CODE	T2C						
SER.NO.				MOTOR WEIGHT			

Parts List

Part number	Description	Quantity
SA338715	SA A44-7175-5211	1.000 ea
RA327045	RA A44-7175-5211	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
000901002AAA	N/P BLANK (RELEASE QTY 1,500)	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP3238	SS CP XEX SEVERE DUTY MAIN NP,CURUS EEV	1.000 ea
089490097A	BRKT 089490102WCA	1.000 ea
415072001B	CLAMP	1.000 ea
083199082RA	G28 SHORT 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
004824015A	GREASE POLYREX EM	0.540 lb
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018020CK	HHCS 3/8-16X2-1/2 PLTD.	3.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415045002E	SLGR	1.000 ea
410700004F	WSHR	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea
034690005AB	PPLG 3/4 PLATED	2.000 ea
034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
034630002AB	CPLG 1/4" PLATED	1.000 ea

034530072BB	PIPE NIPPLE,DE - 440-BS	1.000 ea
702623012A	THERMAL BARRIER, G28	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034001013AB	FLTW BAFFLE	3.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
702623022AB	G28 DE AIR SCOOP-HIGH IMPACT PLASTIC-	1.000 ea
032018006BK	HHCS 5/16-18X3/4 PLATED	3.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
089490097A	BRKT 089490102WCA	1.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018022CK	HHCS 3/8-16X2-3/4 PLTD	3.000 ea
415045002E	SLGR	1.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
415915007K	GASK, 26" LAC	1.000 ea
406056008A	GASKET, TERBD 440	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
702616012RE	CONDUIT BOX	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 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
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.500 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180024HA	KEY 5/8X5/8X3 L	1.000 ea
604797032	447/449 WIDE SHIPPING SKID 70" X 55"	1.000 ea
032510026D	CARRIAGE BOLT - 440	2.000 ea
034001016AB	WSHR .562ID 1.375OD .109	2.000 ea
034001014AB	FLAT WASHER 3/8"PLATED	2.000 ea
033300014AC	HEX NUT, SHIPPING - 400	2.000 ea
604799003C	PLASTIC BAG 42X32X46	1.000 ea

412118006A	DRAIN	2.000 ea
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ECP44402T-4 - 400HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE							
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION PACKET	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	L449TS	400	P	3/60	3570	460	
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE	
420	CONT	40/F	1.15	B	G	TEFC	
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)			
-	418143-016-MEQ	---	---	.00612			
PERFORMANCE							
LOAD	HP	AMPERES	RPM	% POWER FACTOR		% EFFICIENCY	
NO LOAD	0	78.9	3600	6.92		0	
1/4	100	127	3593	78.6		94.0	
2/4	200	214	3586	91.1		96.1	
3/4	300	313	3579	93.0		96.5	
4/4	400	419	3571	92.6		96.4	
5/4	500	529	3563	92.1		96.1	
SPEED TORQUE							
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.		AMPERES	
LOCKED ROTOR		0	206	1210		2861	
PULL UP		1670	167	983		2517	
BREAKDOWN		3463	264	1554		1697	
FULL LOAD		3571	100	588		419	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.							
TYPICAL DATA XE MOTOR-TYPICAL DATA-NEMA NOM.EFF. 96.2 PCT. GUARANTEED MIN. EFF. 95.4 PCT.							
		DRAWN BY: <u>J. P. TSAO</u> CHECKED BY: <u>W.L. SMITH</u> APPROVED BY: <u>W.L. SMITH</u> DATE: <u>05/15/17</u>		AC MOTOR PERFORMANCE DATA		A44WG5211-R002 DATE ISSUED 10/14/24	

FRAME L449TS

RPM 3570

S.F. 1.15

ROTOR 418143-016-MEQ

HP 400

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 420

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

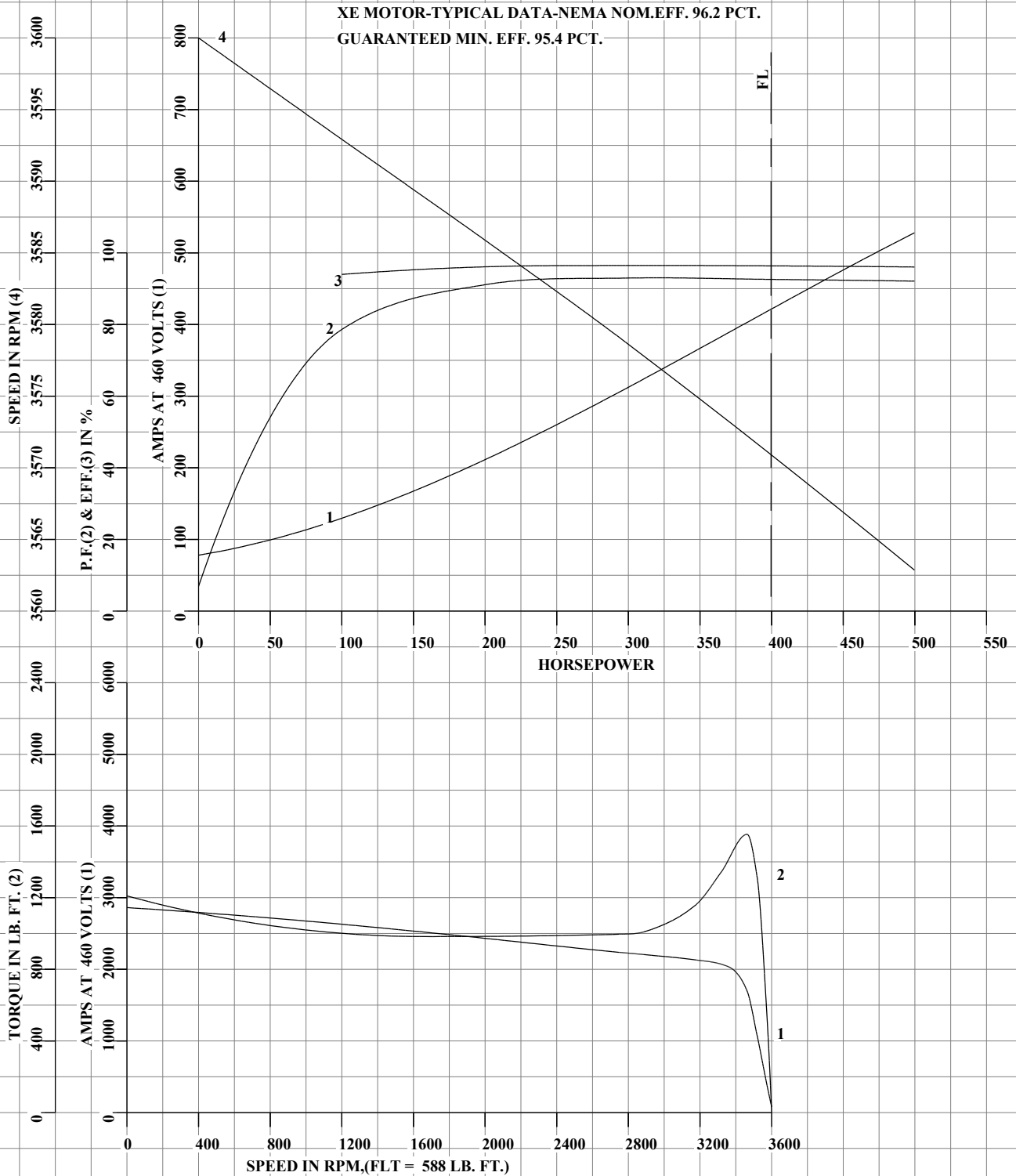
ENCLOSURE TEFC

STATOR RES. @ 25°C .00612

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



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



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AC MOTOR
PERFORMANCE
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A44WG5211-R002

ISSUE DATE 10/14/24

FRAME L449TS

RPM 3570

S.F. 1.15

ROTOR 418143-016-MEQ

HP 400

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 420

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

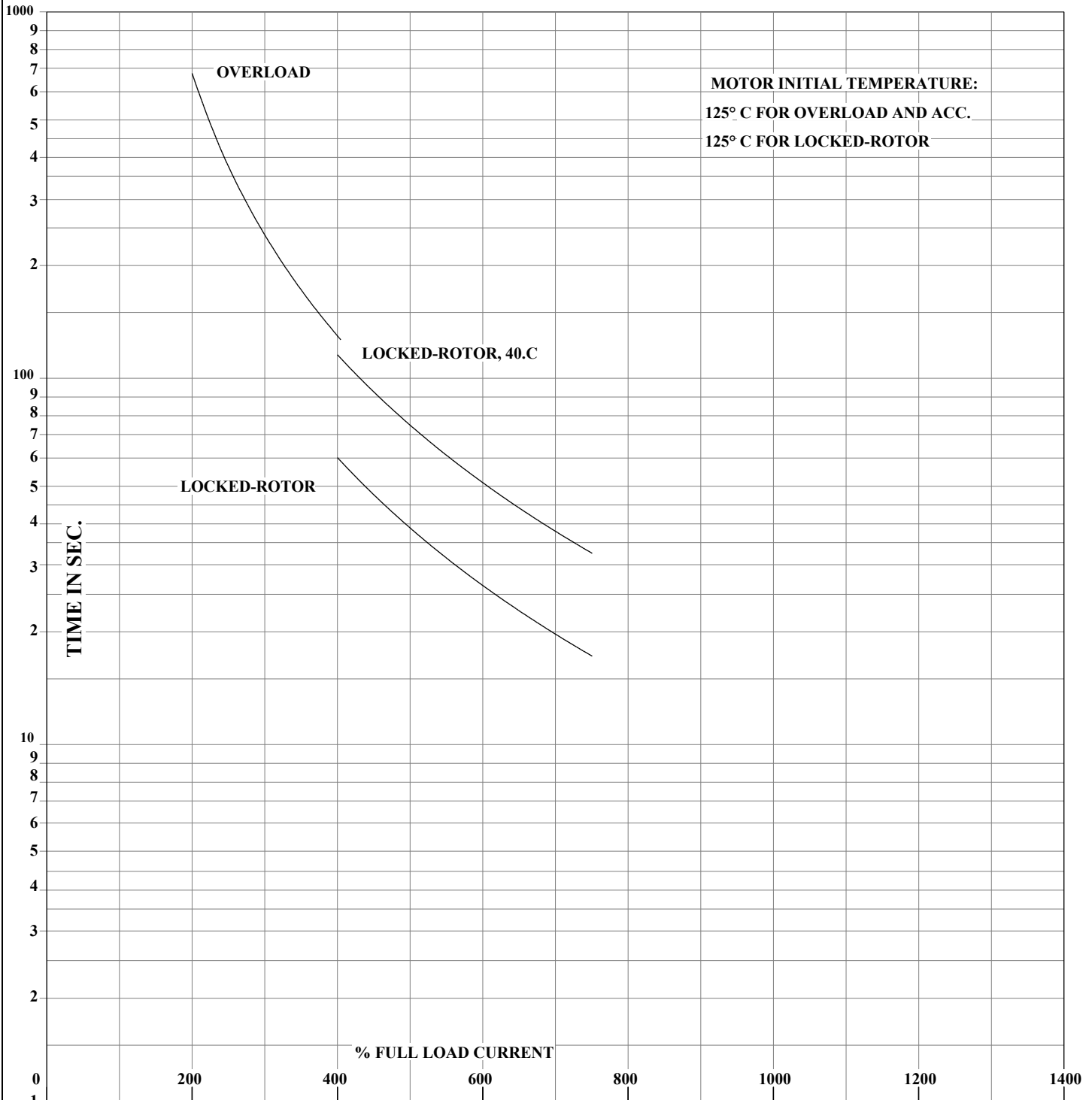
ENCLOSURE TEFC

STATOR RES. @ 25°C .00612

OHMS (BETWEEN LINES)

AMB °C / INSUL 40/F

E/S -



THERMAL LIMIT CURVE
XE MOTOR-TYPICAL DATA-NEMA NOM.EFF. 96.2 PCT.

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

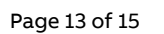


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AC MOTOR
PERFORMANCE
DATA

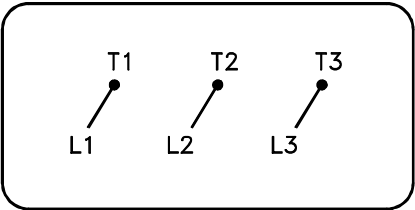
A44WG5211-R002

ISSUE DATE 10/14/24



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