

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

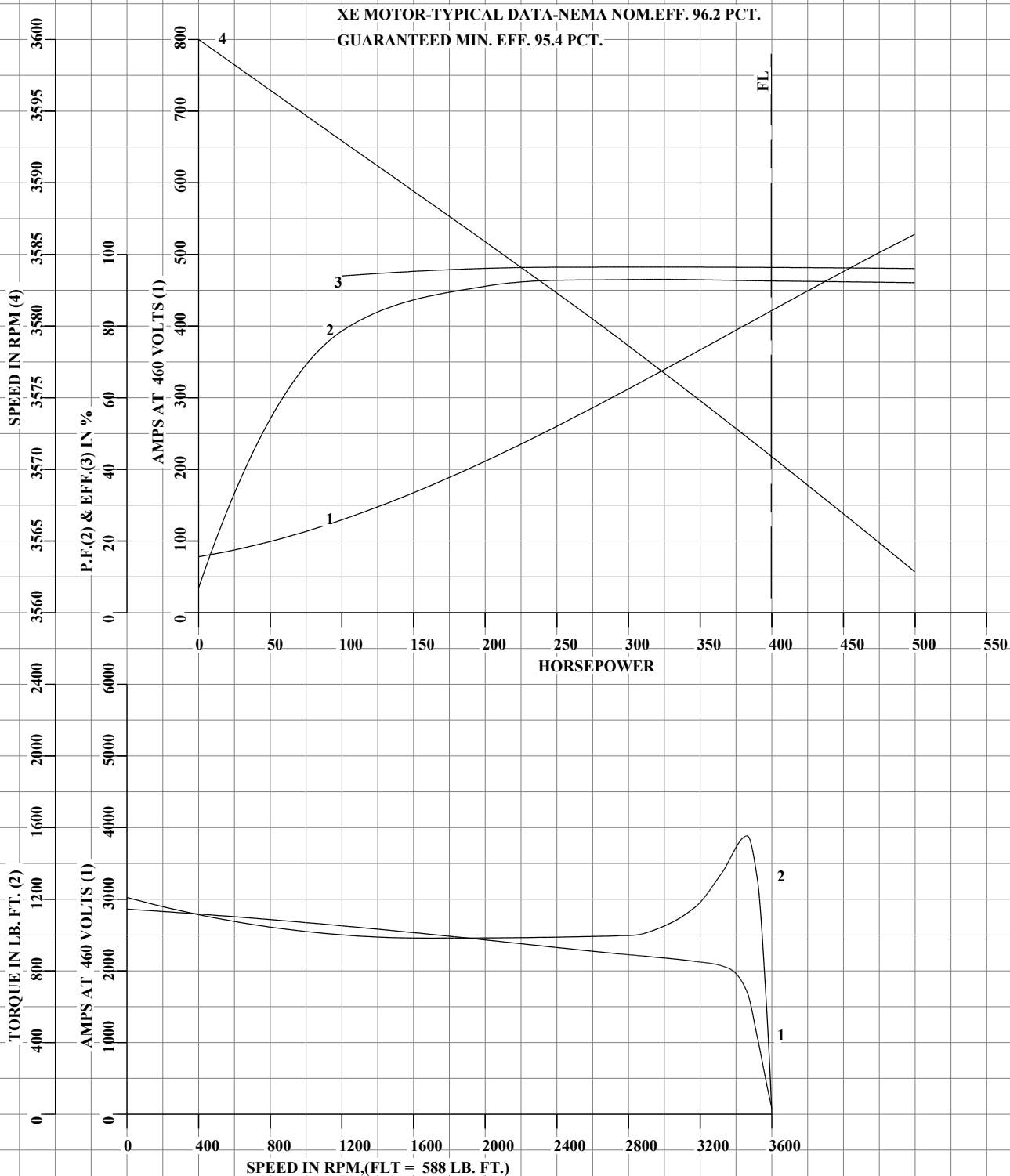
NP2496L	
MOBIL POLYREX EM	

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			

ECP44402T-4 - 400HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE						
ABB BALDOR RELIANCE III S/O	CUSTOMER INFORMATION FRAME	PACKET 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: J. P. TSAO CHECKED BY: W.L. SMITH APPROVED BY: W.L. SMITH DATE: 05/15/17		AC MOTOR PERFORMANCE DATA		A44WG5211-R002
		DATE ISSUED 10/14/24				



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



DRAWN BY: J. P. TSAO
CHECKED BY: W. L. SMITH
APPROVED BY: W. L. SMITH
DATE: 05/15/17

AC MOTOR
PERFORMANCE
DATA

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

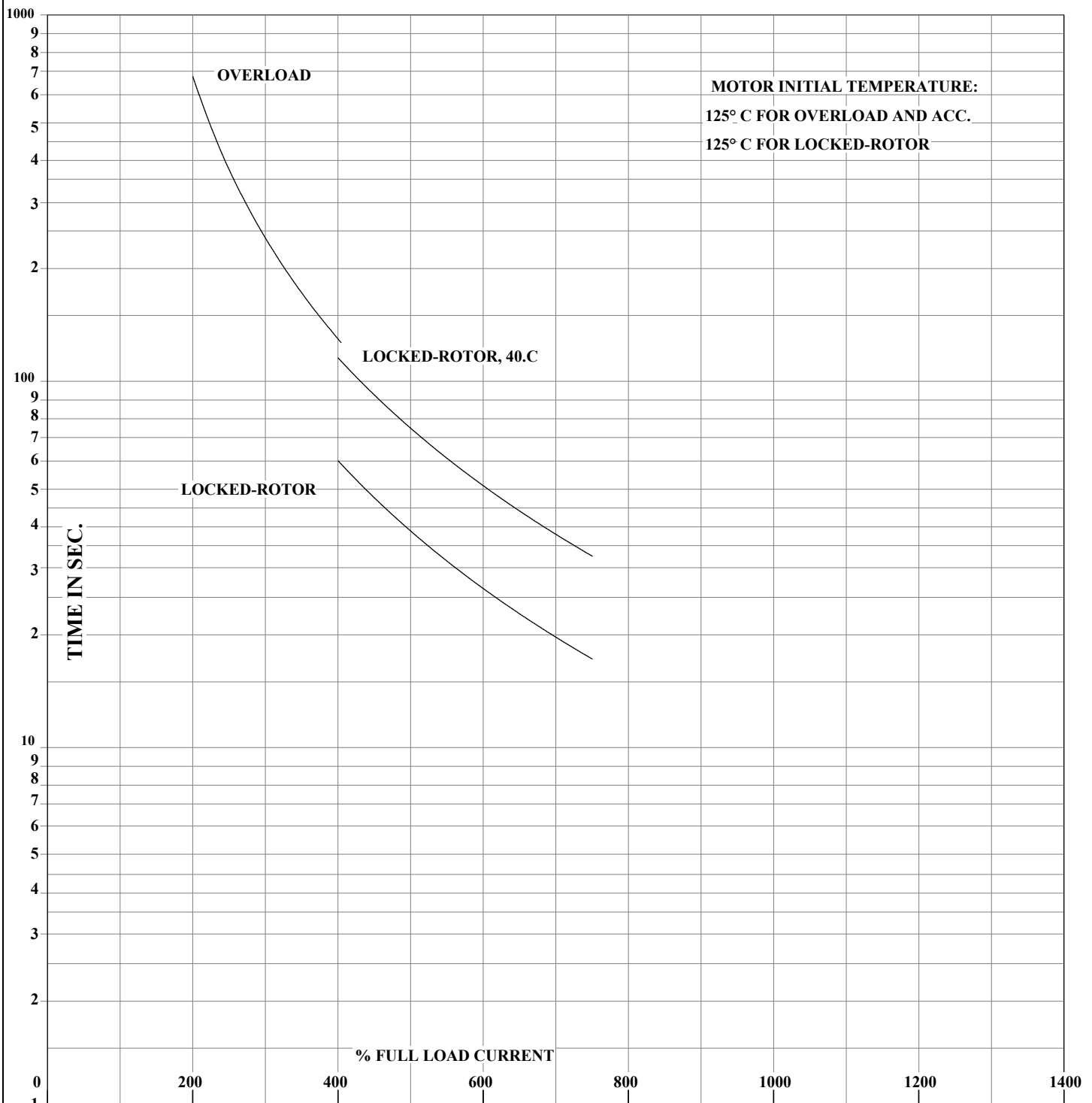
ENCLOSURE TEFC

STATOR RES. @ 25°C .00612

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



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.

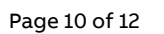


DRAWN BY: J. P. TSAO
CHECKED BY: W.L. SMITH
APPROVED BY: W.L. SMITH
DATE: 05/15/17

AC MOTOR
PERFORMANCE
DATA

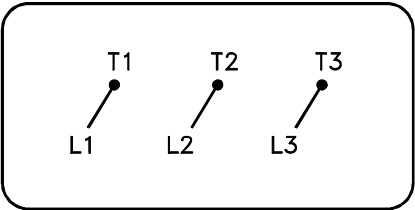
A44WG5211-R002

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