

ABB BALDOR RELIANCE III

Customer information packet

ECP44304T-5

300HP, 1785RPM, 3PH, 60HZ, 449T, TEFC, F1

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	449T
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	300.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	267.000 A @ 575.0 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
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	267.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG5582
Layout	617427-243
Eff. date	10-24-2024
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	08-23-2017

Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	53.47 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Ball
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	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP3238

CAT NO	ECP44304T-5			SPEC NO.	A44-5000-5582		
HP	300	AMPS	267	VOLTS	575	DESIGN	B
FRAME	449T	RPM	1785	HZ	60	AMB	40
				SF	1.15		
D.E. BRG.DATA	6318	O.D.E. BRG.DATA	6318	PH	3	DUTY	CONT
		INSUL.CLASS	F				
D.E. BRG.	90BC03J30X	TYPE	P	ENCL	TEFC	CODE	G
O.D.E. BRG.	90BC03J30X	POWER FACTOR	88	NEMA NOM EFFICIENCY	96.2		
3/4 LOAD EFF.	96.4	MAX CORR KVAR	46	GUARANTEED EFFICIENCY	95.4		
TEMP CODE	T2C	TEMP =	230				
CHP HZ	60-90	CT HZ	30-60	VT HZ	0-60		
INVERTER-TEMP-CODE	T2C						
SER.NO.				MOTOR WEIGHT			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449T	300	P	3/60	1785	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
267	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)		
---	418143052ZEQ	---	---	.0153		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	77.9	1800	4.36	0	
1/4	75.0	101	1796	59.2	93.8	
2/4	150	148	1792	79.4	96.0	
3/4	225	205	1788	85.4	96.3	
4/4	300	267	1783	87.5	96.2	
5/4	375	332	1779	88.4	95.8	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB. - FT.	AMPERES	
LOCKED ROTOR		0	166	1469	1753	
PULL UP		1200	139	1232	1401	
BREAKDOWN		1723	277	2449	928	
FULL LOAD		1783	100	884	267	
AMPERES SHOWN FOR 575. 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%						
		DR. BY C.E. JAMISON		A-C MOTOR PERFORMANCE DATA A44WG5582-R001 ISSUE DATE 06/19/18		
		CK. BY W.L. SMITH				
		APP. BY C.E. JAMISON				
		DATE 08/22/17				
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REL S.O.

 RPM **1785**

 S.F. **1.15**

 ROTOR **418143052ZEQ**

 FRAME **449T**

 VOLTS **575**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **300**

 AMPS **267**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

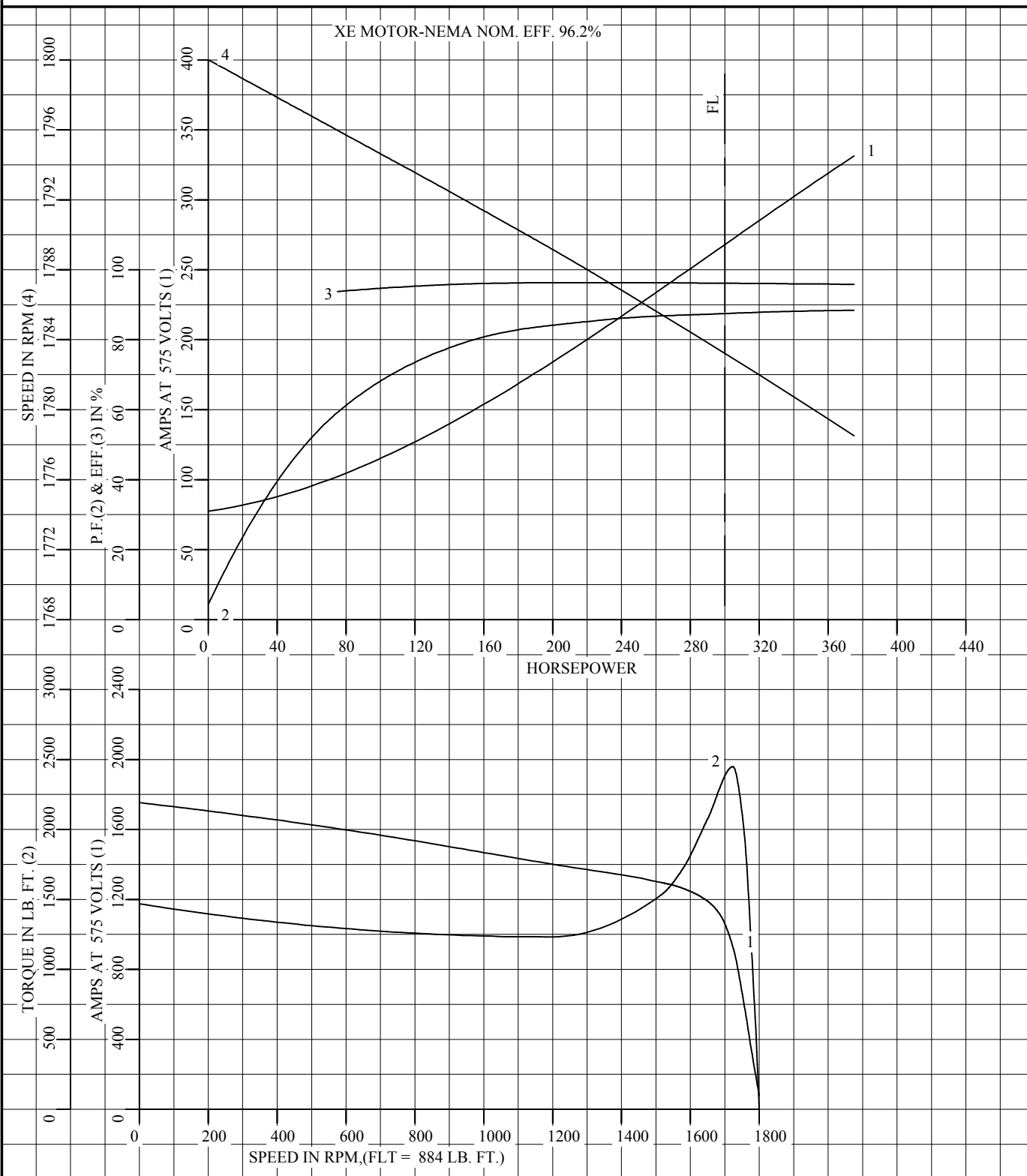
 STATOR RES. @ 25 °C **.0153**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **---**

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 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 C.E. JAMISON
CK. BY W.L. SMITH
APP. BY C.E. JAMISON
DATE 08/22/17

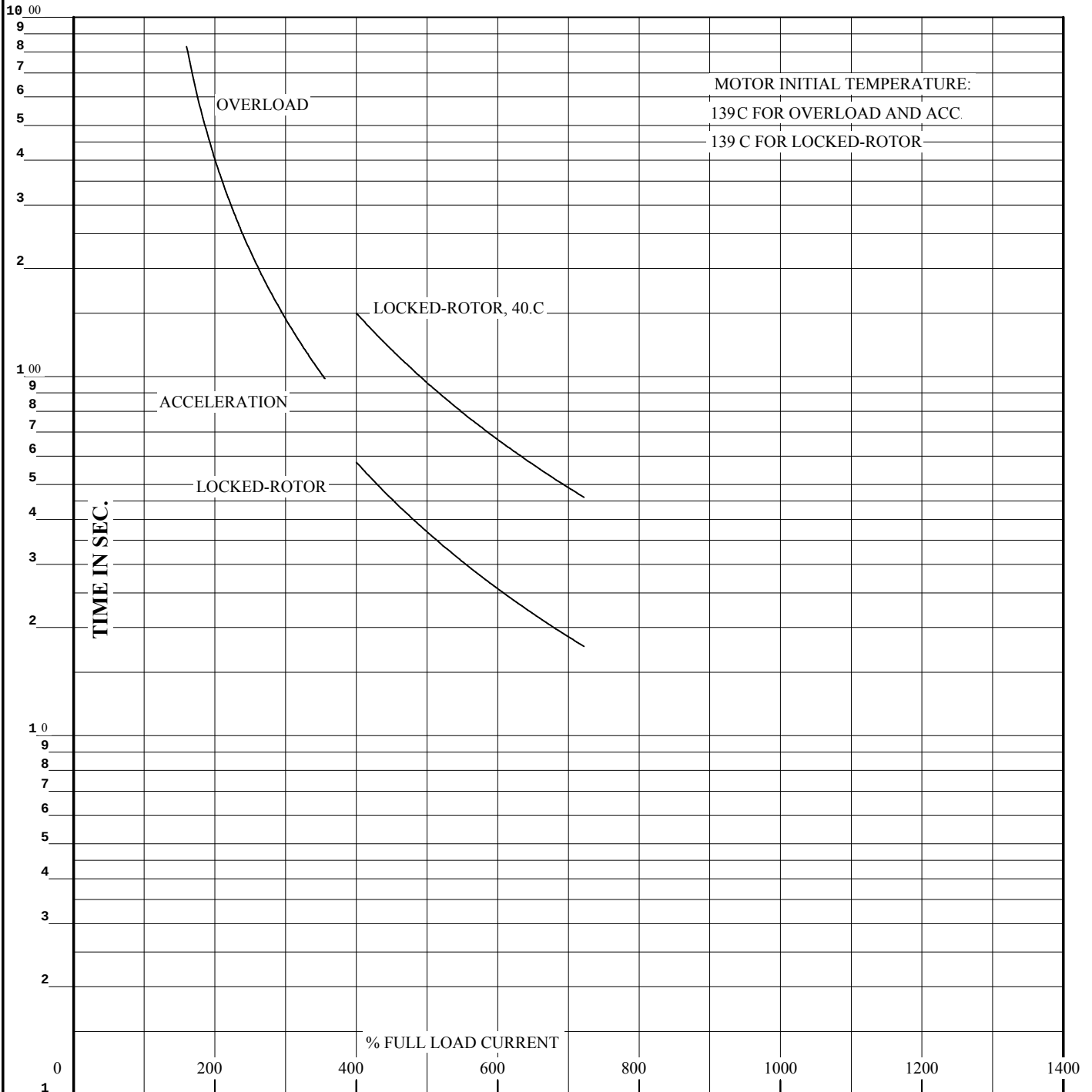
**A-C MOTOR
PERFORMANCE
CURVES**

A44WG5582-R001
ISSUE DATE 06/19/18

REL. S.O.
 FRAME **449T**
 HP **300**
 TYPE **P**
 PHASE/HERTZ **3/60**

 RPM **1785**
 VOLTS **575**
 AMPS **267**
 DUTY **CONT**
 AMB °C/INSUL **40/F**

 S.F. **1.15**
 NEMA DESIGN **B**
 CODE LETTER **G**
 ENCLOSURE **TEFC**
 E/S **---**

 ROTOR **418143052ZEQ**
 TEST S.O. **TYPICAL DATA**
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 STATOR RES. @ 25 °C **.0153**
 OHMS (BETWEEN LINES)


THERMAL LIMIT CURVE

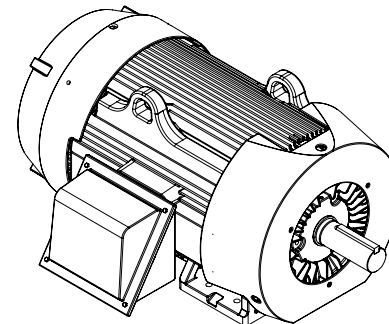
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**A-C MOTOR
PERFORMANCE
CURVES**
A44WG5582-R001
 ISSUE DATE 06/19/18 Page 8 of 10

COOLING: FAN COOLED

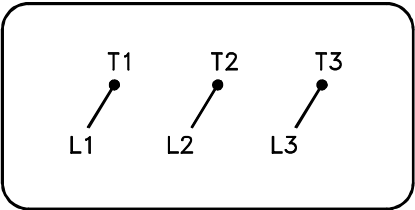
V-RING SLINGER BOTH ENDS



G449/447T TEFC F1 FT - V-RING SLINGERS - STD CI C/BOX

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