

ABB BALDOR RELIANCE III

Customer information packet

ECP844256TR-5

250HP, 1188RPM, 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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US UR NEMA_PREMIUM NEMA PREMIUM CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	30-60
Current @ Voltage	229.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2D
Heater Indicator	No Heater
High Voltage Full Load Amps	229.0 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	NLA/A
Elec. spec.	A44WG2258
Layout	617434-667
Eff. date	09-29-2026
CD Diagram	416820-036
Poles	06
Leads	3#1 (02 per group)
Proprietary	False
Created date	12-19-2019

Inverter Code	Inverter Ready
KVA Code	G
Motor Lead Quantity/Wire Size	6 @ 1 AWG
Motor Standards	NEMA
Motor Type	A44160M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	53.47 IN
Power Factor	86
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	1188 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL SHC -220 GREASE	

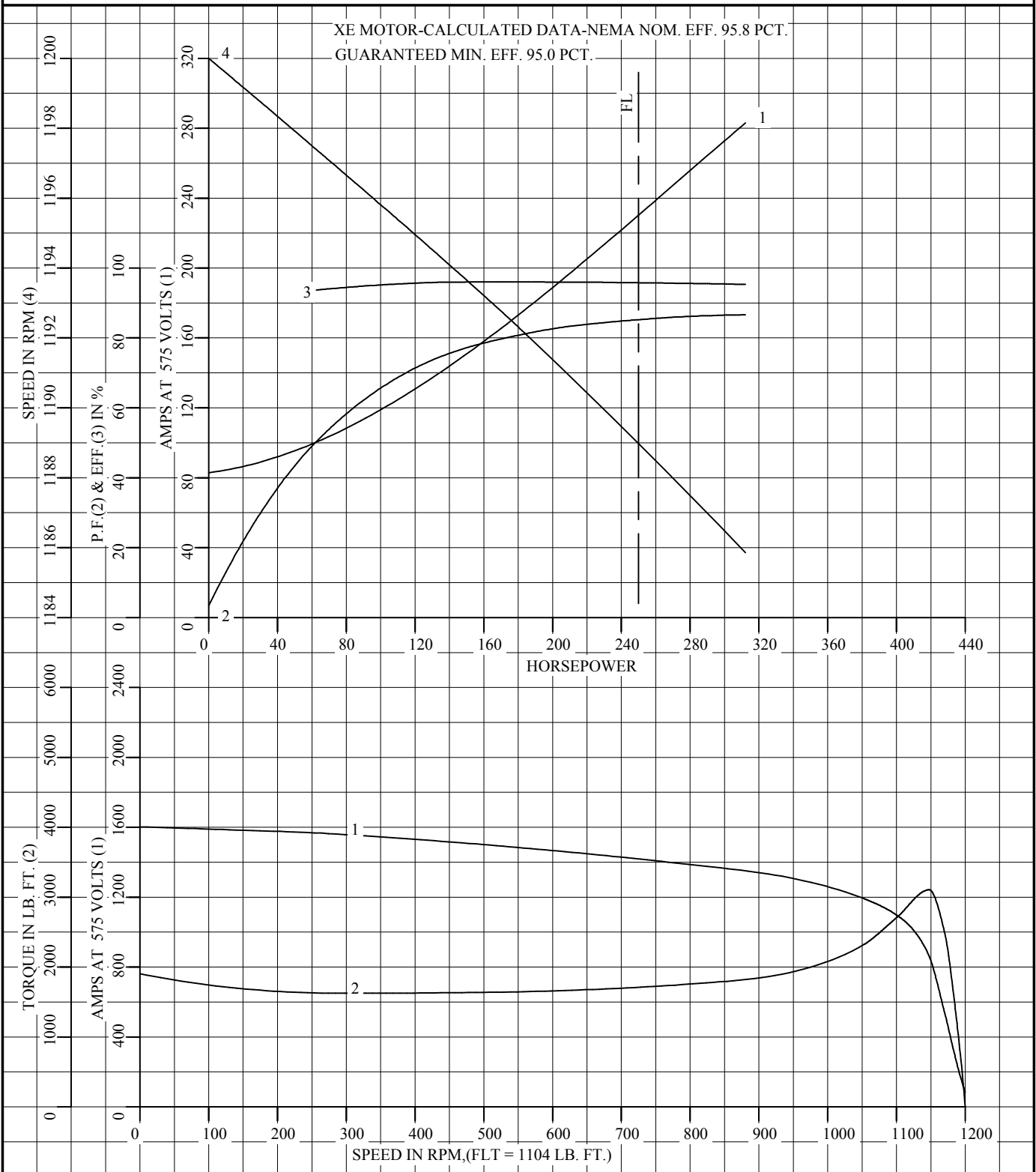
000613007EY				
CAT NO	ECP844256TR-5	SPEC NO.	A44-9079-2258	
NO. ROTOR BARS	71	GREASE TYPE	MOBIL SHC 220	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		83.2
5 YEAR WARRANTY		WINDING RES AT 25 C	0.0246	OHMS
MFG. DATE		SER.NO		

NP4565

CAT NO	ECP844256TR-5				SPEC NO.	A44-9079-2258										
HP	250		AMPS	229		VOLTS	575		DESIGN	B						
FRAME SIZE	449T	RPM	1188		HZ	60	AMB	40	SF	1.15						
D.E. BRG.DATA	NU222		O.D.E. BRG.DATA				6318		PH	3	DUTY	CONT	INSUL.CLASS	F		
D.E. BRG.	110RU02M30X			TYPE P	P	ENCL	TEFC	CODE	G							
O.D.E. BRG.	90BC03J30X			POWER FACTOR				86		NEMA-NOM-EFFICIENCY				95.8		
3/4 LOAD EFF.	96.0		IP	56	MAX CORR KVAR				55		GUARANTEED EFFICIENCY				95	
TEMP CODE	T2D		TEMP =	215												
CHP HZ	60-90		CT HZ	30-60		VT HZ	0-60									
INVERTER-TEMP-CODE	T2D															
SER.NO.					MOTOR WEIGHT											

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449TYZ	250	P	3/60	1188	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
229	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
433004	418143090SE	---	---	.0246		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	83.2	1200	3.40	0	
1/4	62.6	99.4	1197	50.3	93.7	
2/4	125	135	1195	72.6	95.8	
3/4	187	179	1192	81.5	96.0	
4/4	250	229	1189	85.2	95.8	
5/4	312	283	1186	86.6	95.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	172	1903	1603	
PULL UP		288	147	1627	1561	
BREAKDOWN		1148	281	3105	860	
FULL LOAD		1189	100	1104	229	
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-CALCULATED DATA-NEMA NOM. EFF. 95.8 PCT. GUARANTEED MIN. EFF. 95.0 PCT.						
		DR. BY	J. P. TSAO	A-C MOTOR PERFORMANCE DATA		
		CK. BY	W. L. SMITH			
		APP. BY	E. J. CHRISTIAN			
		DATE	08/03/16			
			A44WG2258-R009 ISSUE DATE 03/05/21			

REL S.O.	RPM 1188	S.F. 1.15	ROTOR 418143090SE
FRAME 449TYZ	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 250	AMPS 229	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0246
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 433004	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 J.P. TSAO
 CK. BY W.L. SMITH
 APP. BY E.J. CHRISTIAN
 DATE 08/03/16

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG2258-R009

ISSUE DATE 03/05/21

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REL. S.O.

 RPM **1188**

 S.F. **1.15**

 ROTOR **418143090SE**

 FRAME **449TYZ**

 VOLTS **575**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **250**

 AMPS **229**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

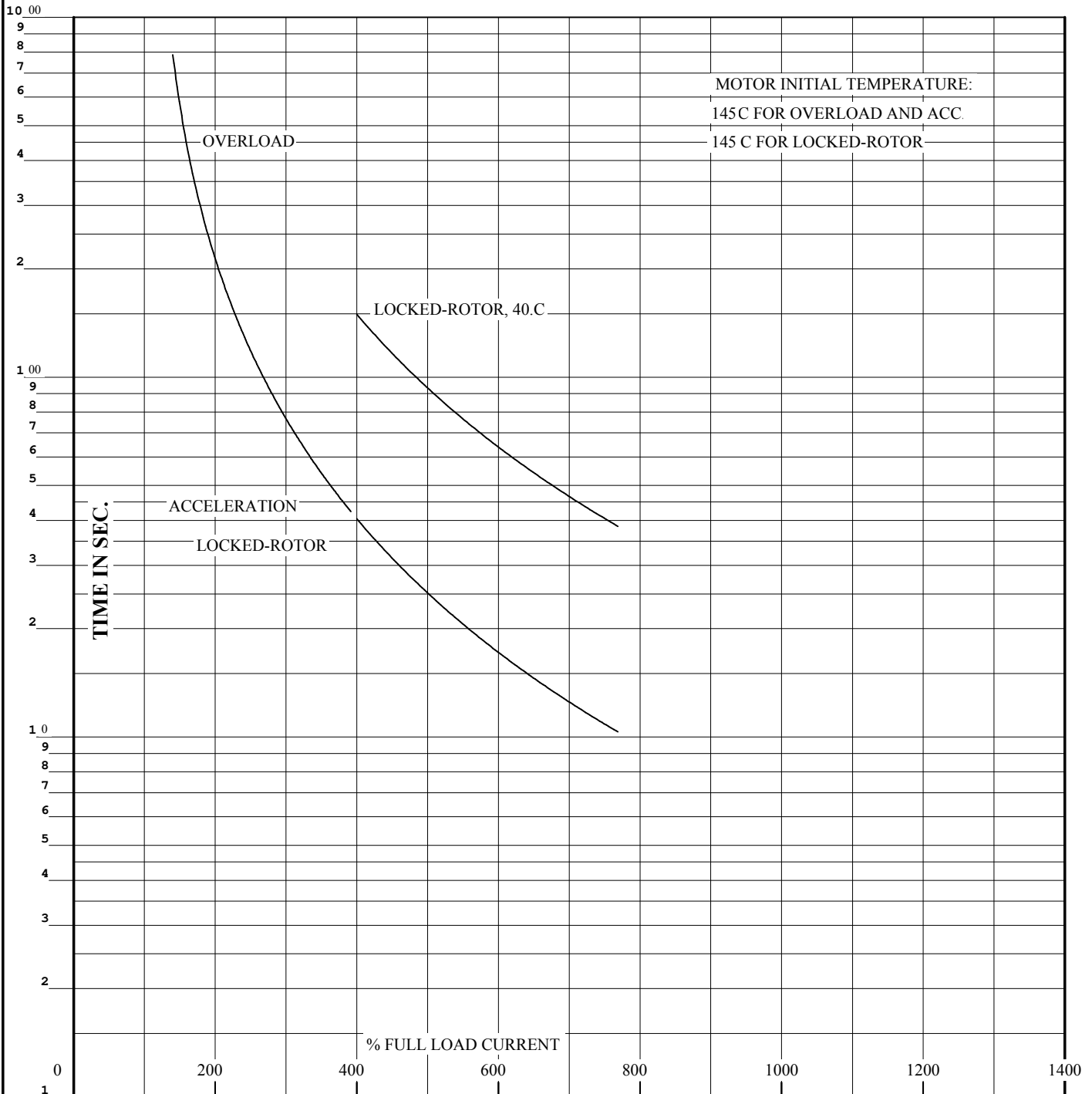
 STATOR RES. @ 25 °C **.0246**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **433004**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 95.8 PCT.

GUARANTEED MIN. EFF. 95.0 PCT.

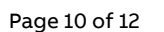
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DATE	08/03/16

**A-C MOTOR
PERFORMANCE
CURVES**

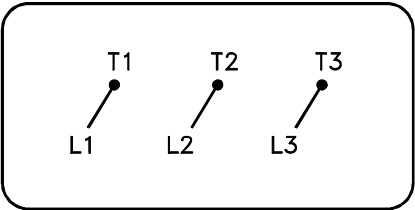
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416820-036

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