

ABB BALDOR RELIANCE III

Customer information packet

CECP84312T-4

50HP, 1185RPM, 3PH, 60HZ, 365TC, A3668M, TEFC

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	365TC
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	62.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	62.0 a
Insulation Class	B
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4275
Layout	617428-620
Eff. date	08-26-2024
CD Diagram	416820-036
Poles	06
Leads	3#4 Y
Proprietary	False
Created date	05-30-2023

Lifting Lugs	Standard Lifting Lugs
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3668M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.48 IN
Power Factor	81
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4333							
CAT #	CECP84312T-4	ROTOR BARS	55				
SPEC	A36-9122-4275	STATOR SLOTS	72				
SER		MAX CORR KVAR	15.8				
GREASE	POLYREX EM						
ABMA DE BRG	65BC03J30X	ODE	65BC03J30X				
	SFA 71						
SPACE HEATER LEADS H1-H2:		TIE LIKE NUMBERS		TOGETHER			
MAX. SPACE HEATER TEMP.		C	V		A		W

NP4388

CAT #	CECP84312T-4						FR	365TC			IP56						
SPEC	A36-9122-4275						ENCL	TEFC			DES	B					
HZ	60	PH	3	CL	B	HP	50	SF	1.15	PF	81	%	CODE	G			
VOLTS	460					AMPS	62										
RPM	1185	MAX RPM			1800	SER											
NEMA NOM. EFF	94.1	%	RATING			40C AMB-CONT											
GUAR MIN. EFF	93	%	BRG DE			6313			BRG ODE		6313						
CL I DIV 2 GRPS A,B,C,D			CL I ZONE 2 GRPS					IIA,IIB,IIC			TEMP T		3-200		C		
CT HZ	6-60		VT HZ		0-60												
CHP HZ	60-90		INV TEMP CL				200	C									
	SFA 71						MTR WT		946	LBS							

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET CECP84312T-4 - 50HP, 1185RPM, 3PH, 60HZ, 365TC, A3668M, TEFC						
S/O		FRAME		HP		TYPE		PHASE/ HERTZ		RPM		VOLTS	
		365T		50		P		3/60		1185		460	
AMPS		DUTY		AMB °C/ INSUL		S.F.		NEMA DESIGN		CODE LETTER		ENCLOSURE	
62.0		CONT		40/F		1.15		B		G		TEFC	
E/S		ROTOR		TEST S.O.		TEST DATE		STATOR RES. @25 °C OHMS (BETWEEN LINES)					
-		418141089AE		---		---		.111					
PERFORMANCE													
LOAD		HP		AMPERES		RPM		% POWER FACTOR			% EFFICIENCY		
NO LOAD		0		24.0		1200		5.62			0		
1/4		12.5		28.5		1197		46.2			89.0		
2/4		25.0		37.2		1194		67.5			93.1		
3/4		37.5		48.7		1191		76.6			94.1		
4/4		50.0		62.0		1188		80.3			94.1		
5/4		62.5		76.5		1184		81.7			93.7		
SPEED TORQUE													
				RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.			AMPERES		
LOCKED ROTOR				0		174		385			387		
PULL UP				650		150		333			337		
BREAKDOWN				1135		258		570			213		
FULL LOAD				1188		100		221			62.0		
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. 94.1 PCT.													
				DRAWN BY: <u>C.B. ATANGANE</u> CHECKED BY: <u>W.L. SMITH</u> APPROVED BY: <u>C.E. JAMISON</u> DATE: <u>04/15/25</u>				AC MOTOR PERFORMANCE DATA		A36WG4275-R001 DATE ISSUED 04/05/25			

FRAME 365T

RPM 1185

S.F. 1.15

ROTOR 418141089AE

HP 50

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 62.0

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

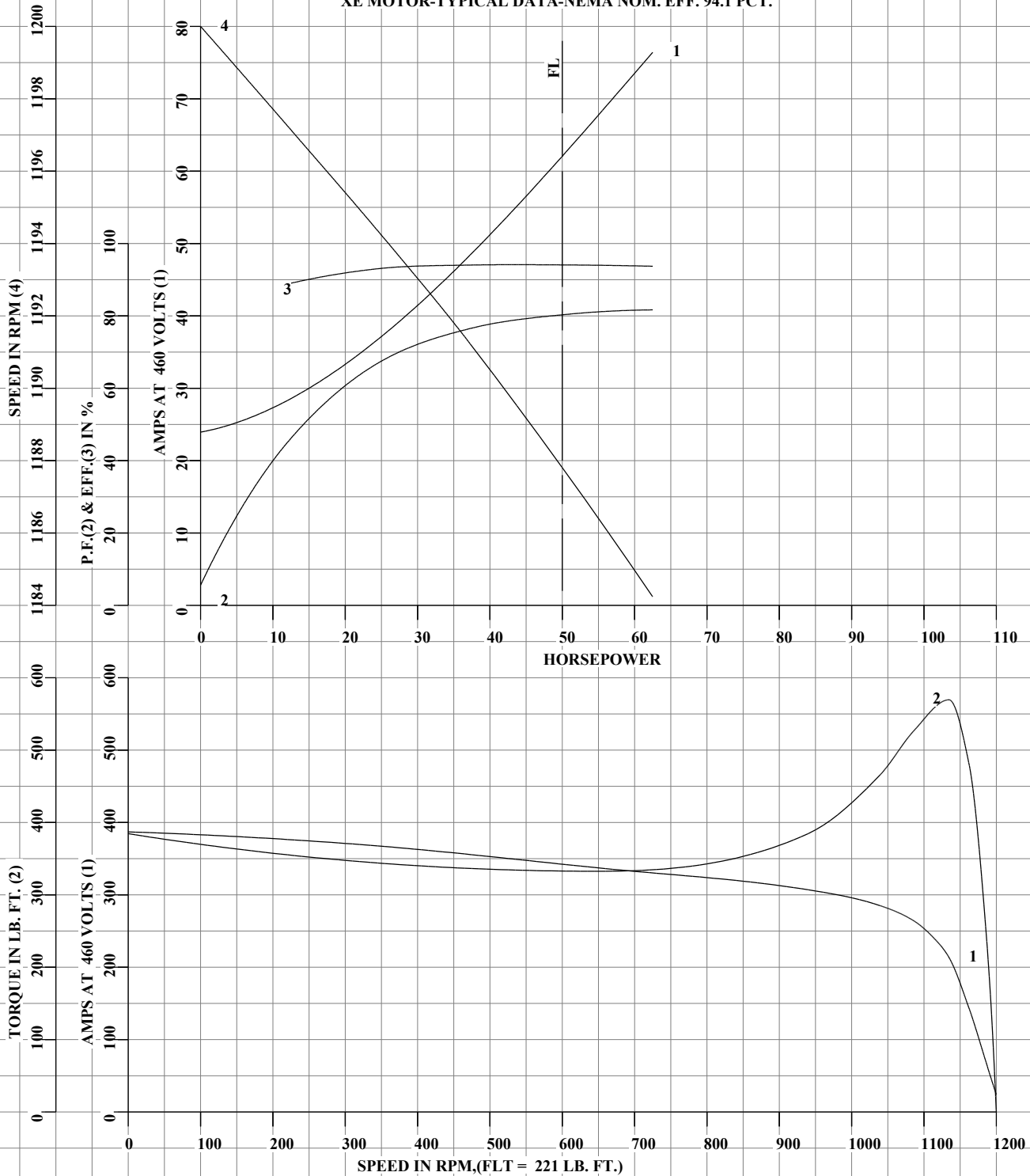
STATOR RES. @ 25°C .111

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)

XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.1 PCT.



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VOLTS 460

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DUTY CONT

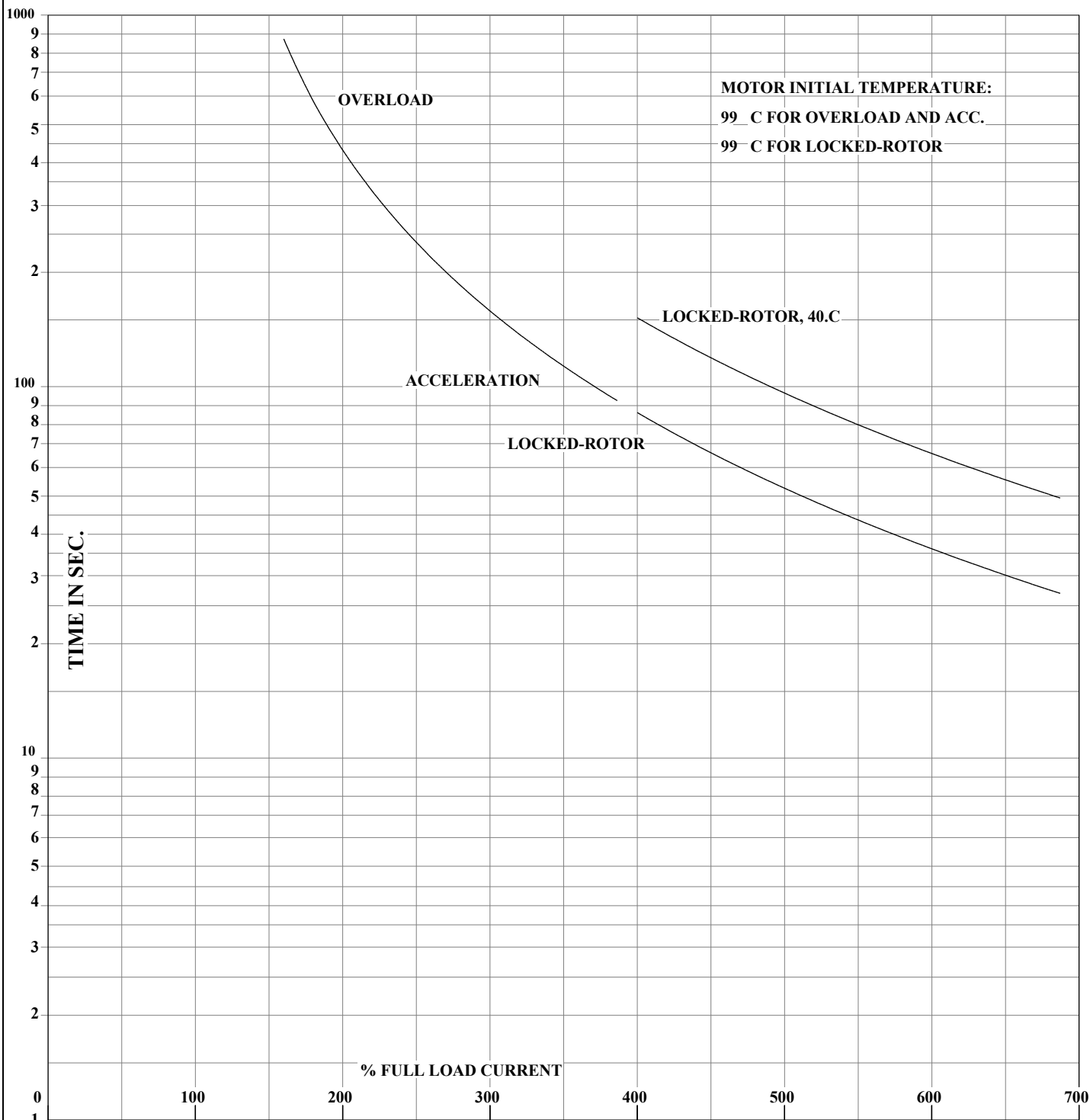
ENCLOSURE TEFC

STATOR RES. @ 25°C .111

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
 XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 94.1 PCT.

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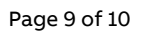


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AC MOTOR
 PERFORMANCE
 DATA

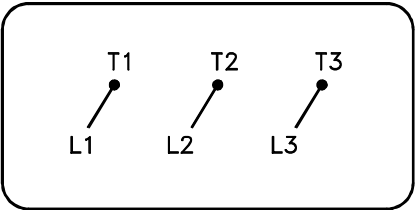
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ISSUE DATE 04/05/25



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