

ABB BALDOR RELIANCE III

Customer information packet

VPECP84310T-4

60HP, 3560RPM, 3PH, 60HZ, 364VP, TEFC, V1

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	364LP
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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	66.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	66.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG1559
Layout	617428-660
Eff. date	03-15-2024
CD Diagram	416820-036
Poles	02
Leads	3#4
Proprietary	False
Created date	02-28-2019

KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	V1
No Load Current	14.9 a
Number of Poles	2
Overall Length	37.27 IN
Power Factor	91
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Service Factor	1.15
Shaft Diameter	2.124 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3560 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

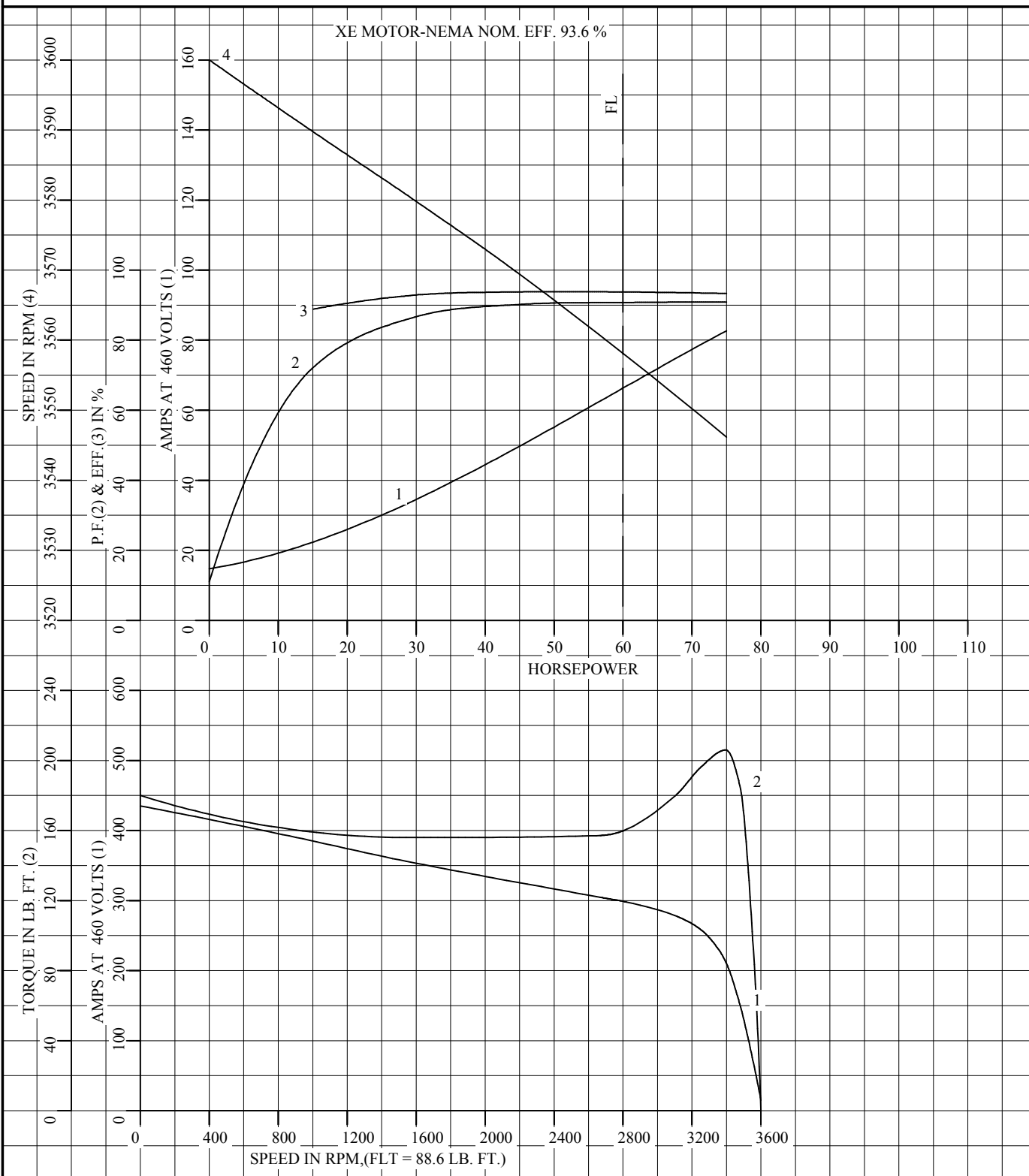
000613007EX				
CAT NO	VPECP84310T-4	SPEC NO.	A36-7839-1559	
NO. ROTOR BARS	38	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE		14.9
5 YEAR WARRANTY		WINDING RES @25 C	.1019	OHMS
MFG. DATE	SER.NO			
	SFA 76.1			

NP4566

CAT NO	VPECP84310T-4			SPEC NO.		A36-7839-1559					
HP	60	AMPS	66	VOLTS		460		DESIGN	B		
FRAME SIZE	364VP	RPM	3560	HZ		60	AMB	40	SF	1.15	
D.E. BRG.DATA	6313	O.D.E. BRG.DATA		7310		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	65BC03JP30X		TYPE	ENCL	TEFC	CODE	G				
O.D.E. BRG.	BA2B_459310		POWER FACTOR		91		NEMA-NOM-EFFICIENCY			93.6	
3/4 LOAD EFF.	93.8	IP	56	MAX CORR KVAR		6.5		GUARANTEED EFFICIENCY			92.4
TEMP CODE	T3	TEMP =	200								
CHP HZ	60-75	CT HZ	6-60	VT HZ	0-60						
INVERTER-TEMP-CODE	T3										
SER.NO.				MOTOR WEIGHT							

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	364TSC	60	P	3/60	3560	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
66	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
491281	418141005XE	---	---	.101		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	14.9	3600	11.0	0	
1/4	15.0	21.9	3590	72.1	88.8	
2/4	30.0	34.9	3580	86.7	92.9	
3/4	45.0	49.9	3569	90.2	93.8	
4/4	60.0	66.0	3558	90.7	93.7	
5/4	75.0	82.8	3546	90.9	93.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	203	180	435	
PULL UP		1565	176	156	355	
BREAKDOWN		3397	233	206	212	
FULL LOAD		3558	100	88.6	66.0	
AMPERES SHOWN FOR 460. 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. 93.6 %						
		DR. BY W. L. SMITH CK. BY C. E. JAMISON APP. BY E. J. CHRISTIAN DATE 05/04/16		A-C MOTOR PERFORMANCE DATA A36WG1559-R028 ISSUE DATE 04/28/21		

REL S.O.	RPM 3560	S.F. 1.15	ROTOR 418141005XE
FRAME 364TSC	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 60	AMPS 66	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .101
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 491281	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 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 W. L. SMITH
CK. BY C. E. JAMISON
APP. BY E. J. CHRISTIAN
DATE 05/04/16

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG1559-R028

ISSUE DATE 04/28/21

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REL. S.O.

FRAME 364TSC

HP 60

TYPE P

PHASE/HERTZ 3/60

RPM 3560

VOLTS 460

AMPS 66

DUTY CONT

AMB °C/INSUL 40/F

S.F. 1.15

NEMA DESIGN B

CODE LETTER G

ENCLOSURE TEFC

E/S 491281

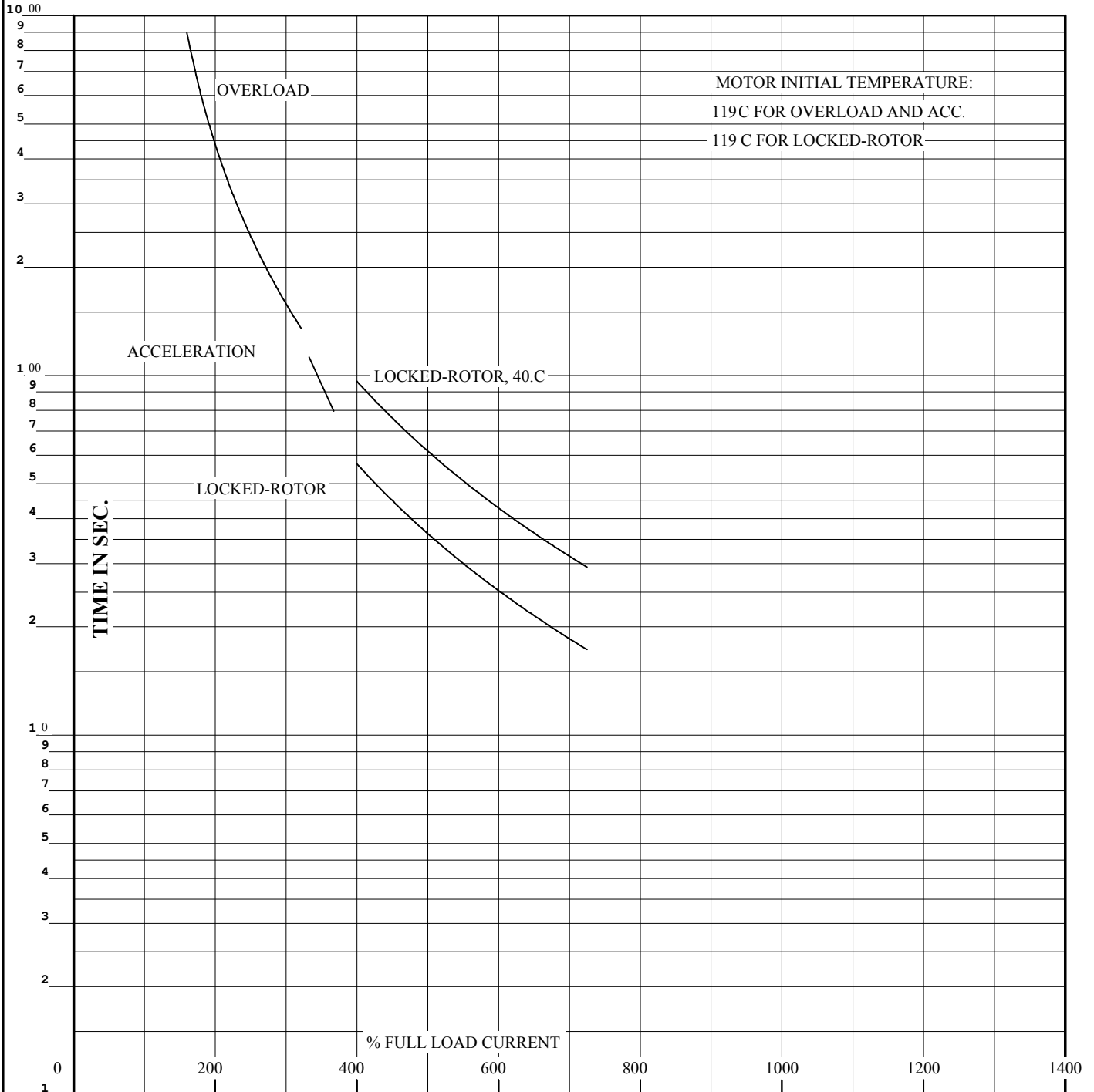
ROTOR 418141005XE

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25 °C .101

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 93.6 %

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

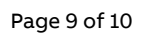
BALDOR
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**A-C MOTOR
PERFORMANCE
CURVES**

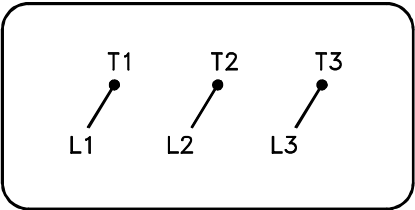
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416820-036

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