

ABB BALDOR RELIANCE III

Customer information packet

CEM4313T

75HP, 3555RPM, 3PH, 60HZ, 365TSC, A36068M, TEF

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365TSC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	161.000 A @ 230.0 V 80.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	80.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0107
Layout	617428-018
Eff. date	07-08-2024
CD Diagram	416820-002
Poles	02
Leads	3#2,6#4
Proprietary	False
Created date	12-17-2010

Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.31 IN
Power Factor	92
Product Family	Other
Pulley End Bearing Type	Ball
Pulley Face Code	No Endplate
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3979LUA

CAT #	CEM4313T		SER			CC	010A						
SPEC	P36G4677		RATING	40C AMB-CONT									
HZ	VOLTS	AMPS	RPM	HP	CODE	- SF	DES	PF	NEMA NOM. EFF				
60	230/460	161/80.7	3555	75	F	1.15	B	92 %	93.6 %				
	-							%	%				
PH	3	CL	F	MAX CORR KVAR	5.00								
BRG	DE	6313	ODE	6313	ENCL	TEFC	FR	365TSC	54				
GREASE	POLYREX EM			MTR WT	974	LBS							
USABLE AT	50HZ 60HP 190/380V 156/78A				SF1.0								
INVERTER DUTY	CT	15-60	HZ	4:1	VT	3-60	HZ	20:1	CHP	60-75	HZ	1.25:1	1.0 SF VPWM
MAX RPM	4500												

CUSTOMER INFORMATION PACKET	CEM4313T - 75HP, 3555RPM, 3PH, 60HZ, 365TSC, A36068M, TEF				
FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
365TS	75	P	3/60	3555	230/460

AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
161/80.7	CONT	40/F	1.15	B	F	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)
892019	418141005TE	---	---	.0186/.0744

PERFORMANCE


LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	15.7	3600	9.76	0
1/4	18.8	24.7	3589	78.2	91.1
2/4	37.5	40.8	3577	91.7	94.0
3/4	56.2	59.8	3565	93.3	94.3
4/4	75.0	80.7	3553	92.6	94.0
5/4	93.8	103	3539	91.5	93.3

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	220	244	489
PULL UP	1565	190	211	435
BREAKDOWN	3383	225	249	259
FULL LOAD	3553	100	111	80.7

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

TYPICAL DATA
XE MOTOR-NEMA NOM. EFF. 93.6%

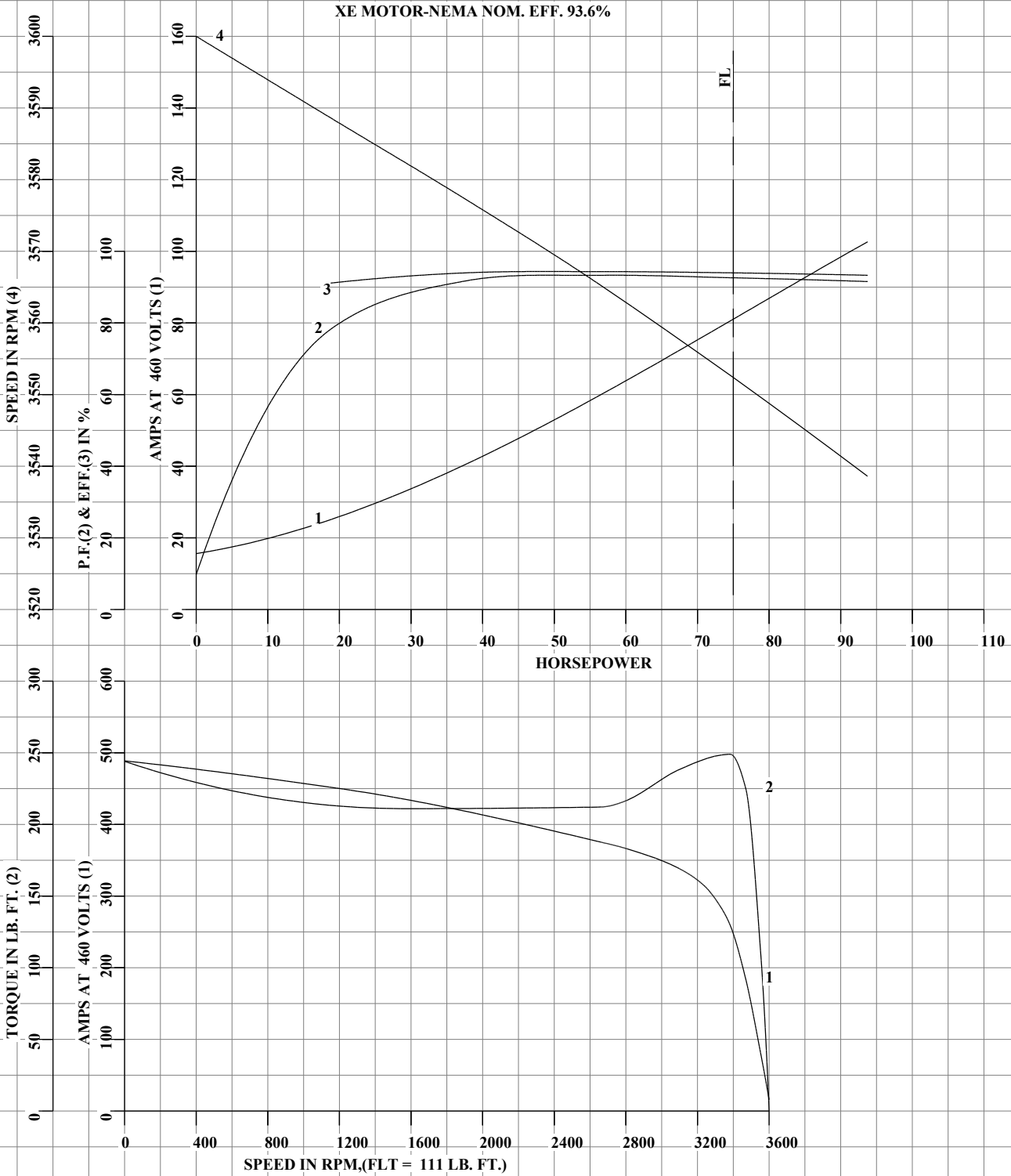
	DRAWN BY: <u>J. P. TSAO</u> CHECKED BY: <u>J. P. TSAO</u> APPROVED BY: <u>W.L.SMITH</u> DATE: <u>09/30/22</u>	AC MOTOR PERFORMANCE DATA	A36WG0107-R006 DATE ISSUED 09/30/22
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FRAME 365TS
HP 75
TYPE P
PHASE / HERTZ 3/60

VOLTS 230/460
AMPS 161/80.7
DUTY CONT
AMB °C / INSUL 40/F

NEMA DESIGN B
CODE LETTER F
ENCLOSURE TEFC
E/S 892019

TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0186/.0744
OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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AC MOTOR
PERFORMANCE
DATA

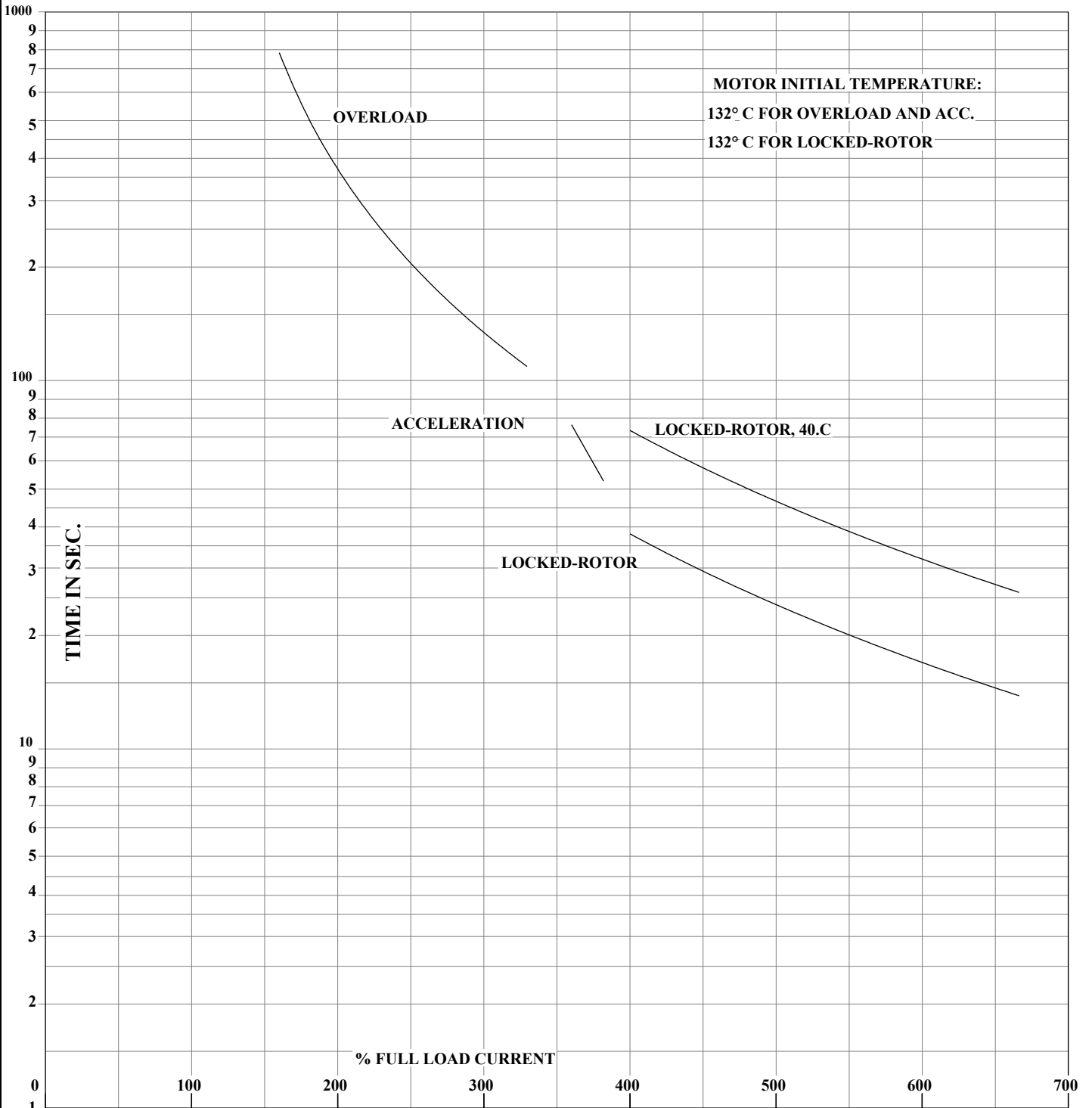
A36WG0107-R006
 ISSUE DATE 09/30/22

FRAME 365TS
HP 75
TYPE P
PHASE / HERTZ 3/60

RPM 3555
VOLTS 230/460
AMPS 161/80.7
DUTY CONT
AMB °C / INSUL 40/F

S.F. 1.15
NEMA DESIGN B
CODE LETTER F
ENCLOSURE TEFC
E/S 892019

TEST S.O. TYPICAL DATA
TEST DATE ---
STATOR RES. @ 25°C .0186/.0744
OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 93.6%

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



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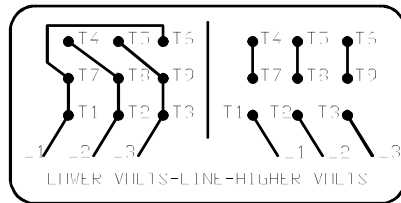
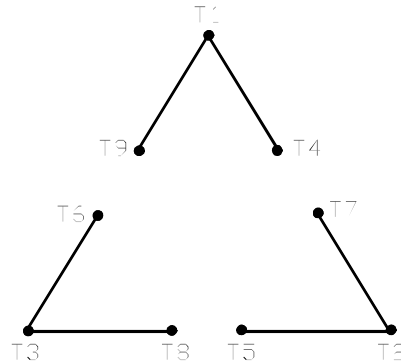
AC MOTOR
PERFORMANCE
DATA

A36WG0107-R006

ISSUE DATE 09/30/22

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

416820-002

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
FILE: \MGA\00000\661	REVISED: 02:46:19 02/13/2020	BY: MGHMTT
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BALDOR - RELIANCE®

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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