

ABB BALDOR RELIANCE III

Customer information packet

VPECP84314T-4

60HP, 1780RPM, 3PH, 60HZ, 364VP, A36062M, TEFC

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	364VP
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO) UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	68.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	68.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0054
Layout	617428-660
Eff. date	04-17-2026
CD Diagram	416820-036
Poles	04
Leads	3#4
Proprietary	False
Created date	07-23-2025

Lifting Lugs	Vertical Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	V1
Number of Poles	4
Overall Length	37.27 IN
Power Factor	87
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4388																		
CAT #	VPECP84314T-4						FR	364VP			56							
SPEC	A36-7107-4085						ENCL	TEFC			DES	B						
HZ	60	PH	3	CL	F	HP	60	SF	1.15	PF	87	%	CODE	G				
VOLTS	460					AMPS	68											
RPM	1780		MAX RPM		2700		SER											
NEMA NOM. EFF	95	%		RATING		40C AMB-CONT												
GUAR MIN. EFF	94.1	%		BRG DE		6313			BRG ODE		7310							
CL I DIV 2 GRPS A,B,C,D				CL I ZONE 2 GRPS						IIA,IIB,IIC			TEMP T		3-200		C	
CT HZ	15-60		VT HZ		0-60													
CHP HZ	60-90		INV TEMP CL					200	C									
								MTR WT		910		LBS						

NP4333											
CAT #		VPECP84314T-4		ROTOR BARS		47					
SPEC		A36-7107-4085		STATOR SLOTS		60					
SER				MAX CORR KVAR		10					
GREASE		POLYREX EM									
ABMA DE BRG		65BC03JP30X		ODE		BA2B_459310					
SPACE HEATER LEADS H1-H2:				TIE LIKE NUMBERS			TOGETHER				
MAX. SPACE HEATER TEMP.				C		V		A		W	

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							VPEC P84314T-4 - 60HP, 1780RPM, 3PH, 60HZ, 364VP, A36062M, TEFC						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			364T			60			P			3/60			1780			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
68			CONT			40/F			1.15			B			G			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
492280			418141035YE			---			---			.110								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			20.1			1800			4.67			0					
1/4			15.0			25.8			1795			58.6			93.0					
2/4			30.0			37.5			1791			78.7			95.2					
3/4			45.0			51.9			1786			85.0			95.3					
4/4			60.0			68.0			1781			87.0			95.0					
5/4			75.0			85.1			1775			87.5			94.3					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			181			320			430					
PULL UP						720			161			285			395					
BREAKDOWN						1703			251			445			244					
FULL LOAD						1781			100			177			68.0					
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. 95.0 PCT. GUARANTEED MIN. EFF. 94.5 PCT																				
						DRAWN BY: <u>J. P. MCGILL</u> CHECKED BY: <u>K. W. KANOUFF</u> APPROVED BY: <u>K. W. KANOUFF</u> DATE: <u>12/09/91</u>						AC MOTOR PERFORMANCE DATA			A36WG0054-R001 DATE ISSUED 03/12/19					

FRAME 364T

RPM 1780

S.F. 1.15

ROTOR 418141035YE

HP 60

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 68

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

STATOR RES. @ 25°C .110

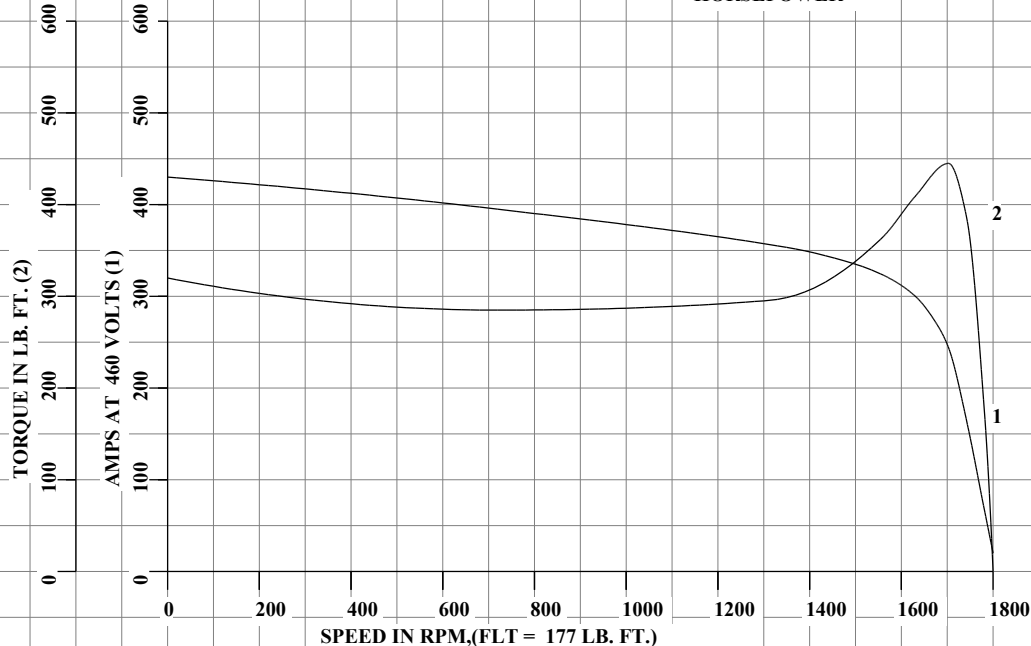
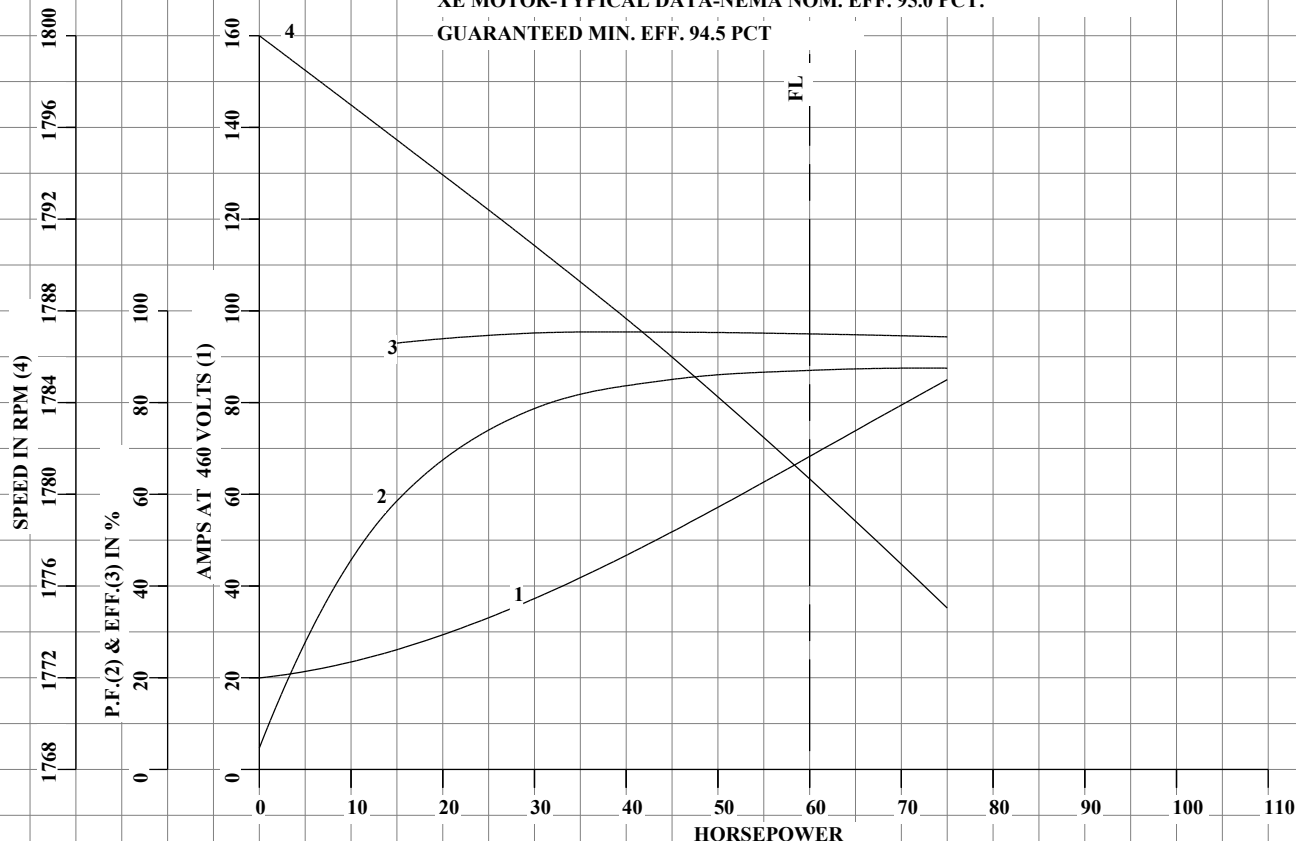
AMB °C / INSUL 40/F

E/S 492280

OHMS (BETWEEN LINES)

XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.

GUARANTEED MIN. EFF. 94.5 PCT



AMPERES SHOWN FOR 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

A36WG0054-R001

ISSUE DATE 03/12/19

FRAME 364T

RPM 1780

S.F. 1.15

ROTOR 418141035YE

HP 60

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 68

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

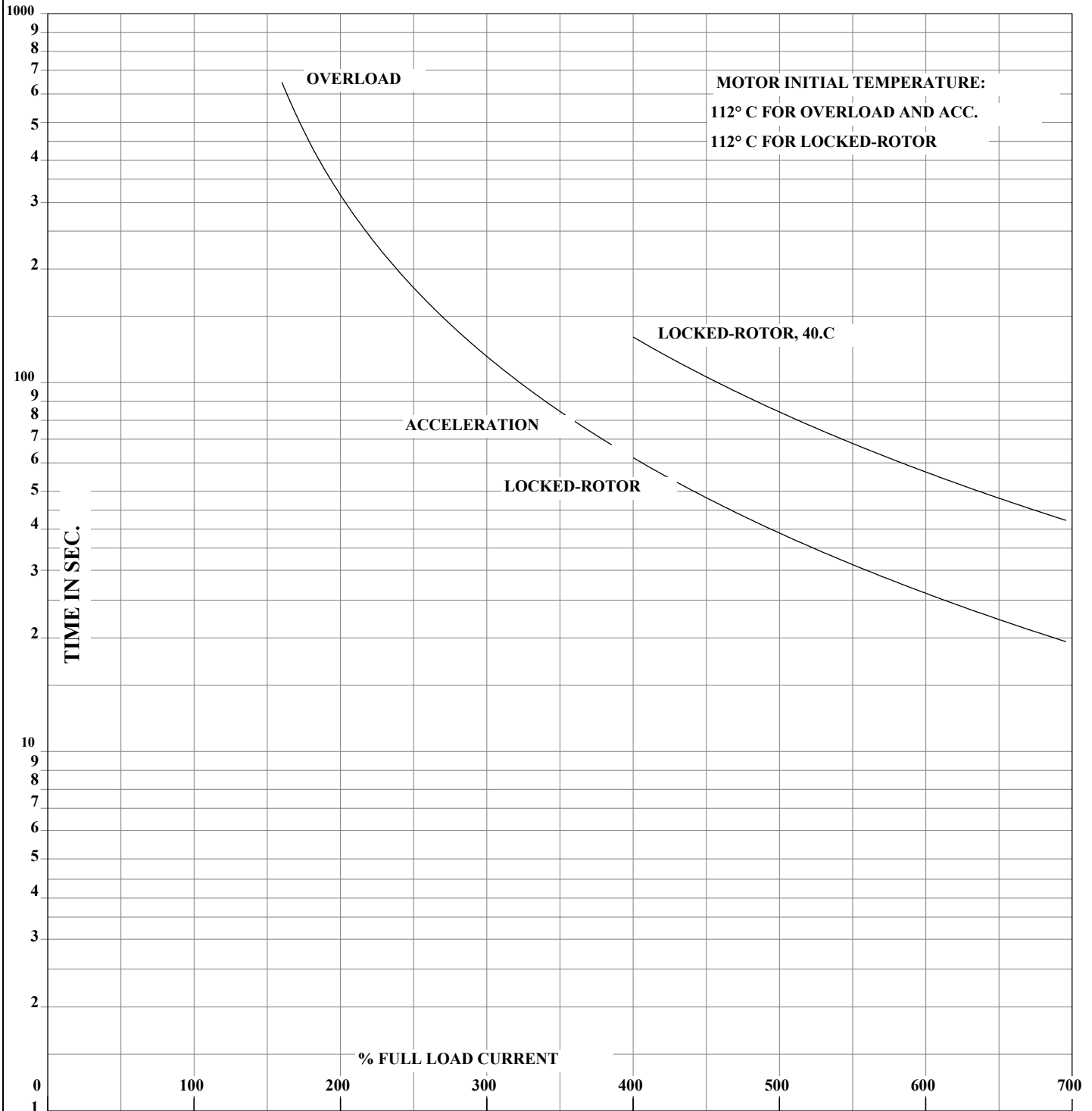
ENCLOSURE TEFC

STATOR RES. @ 25°C .110

AMB °C / INSUL 40/F

E/S 492280

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE
XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.0 PCT.

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

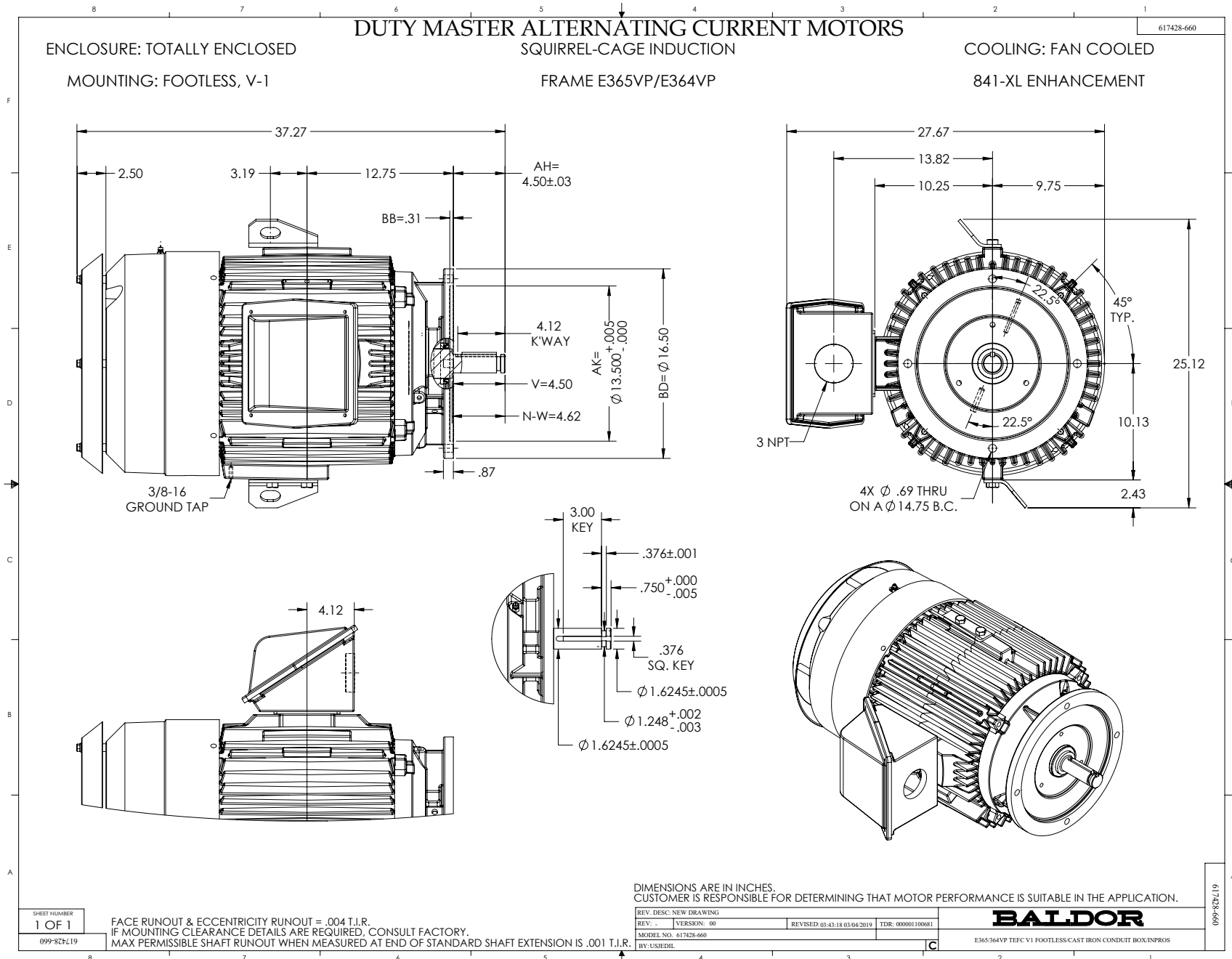


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AC MOTOR
PERFORMANCE
DATA

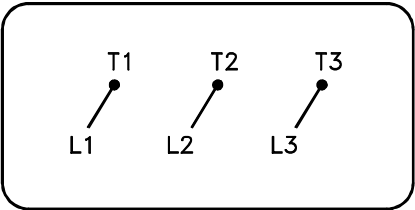
A36WG0054-R001

ISSUE DATE 03/12/19



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