

ABB BALDOR RELIANCE III

Customer information packet

VHECP4316T

75HP, 1780RPM, 3PH, 60HZ, 365HP, 1482M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365HP
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Bracket Mounted
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	171.000 A @ 230.0 V 85.900 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	85.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4076
Layout	617428-924
Eff. date	07-23-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

Motor Type	A36070M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	35.36 IN
Power Factor	86
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW													
CAT.NO.	VHECP4316T					SPEC NO.		P36G3429					
HP	75HP	AMPS		172/86		VOLTS		230/460		DESIGN		B	
FRAME	365HP	RPM	1780		HZ		60	AMB	40	SF	1.15		
DRIVE END BEARING	65BC03J30X			PH	3	DUTY	CONT		INSUL.CLASS		F		
OPP D.E. BEARING	65BC03J30X			TYPE	P	ENCL	TEFC		CODE	G			
D.E.BRG.DATA	6313			POWER FACTOR			86		NEMA NOM EFFICIENCY			95.4	
O.D.E.BRG.DATA	6313			MAX CORR KVAR			16.0		GUARANTEED EFFICIENCY			94.5	
3/4 LOAD EFF.	95.4		NEMA NOM/CSA QUOTED EFF										
SER.NO.						MOTOR WEIGHT							

AC Induction motor performance data

Record #71910 - Typical performance - not guaranteed values

Winding	A36WG4076
Type	A3670M
Enclosure	TEFC

Nameplate data

Rated Output	75		
Volts	230 / 460		
Full Load Amps	172 / 86		
R.P.M.	1780		
Hz	60	Phase	3
KVA Code	G		
S.F.	1.15		
NEMA Nom. Eff.	95.4	Power Factor	86
Duty	CONT		
S.F. Amps			

460 V. 60 Hz:

High Voltage Connection

Full Load Torque	220.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	618 LB-FT
Pull-up Torque	341 LB-FT
Locked-rotor Torque	434 LB-FT
Starting Current	545 A
No-load Current	27.5
Line-line Res. @ 25°C	0.081965 Ω
Temp. Rise @ Rated Load	60°C
Temp. Rise @ S.F. Load	75°C
Locked-rotor Power Factor	31.8
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	55	76	83	86	86	86	86
Efficiency	0	93.8	95.6	95.8	95.4	94.8	93.9	95
Speed	1798.9	1796.6	1791.5	1787.3	1782.2	1776.4	1769.9	1779
Line amperes	27.5	33.9	48.2	66	85.5	107	131	98.4

REVIEW

**ABB BALDOR
RELIANCE III**

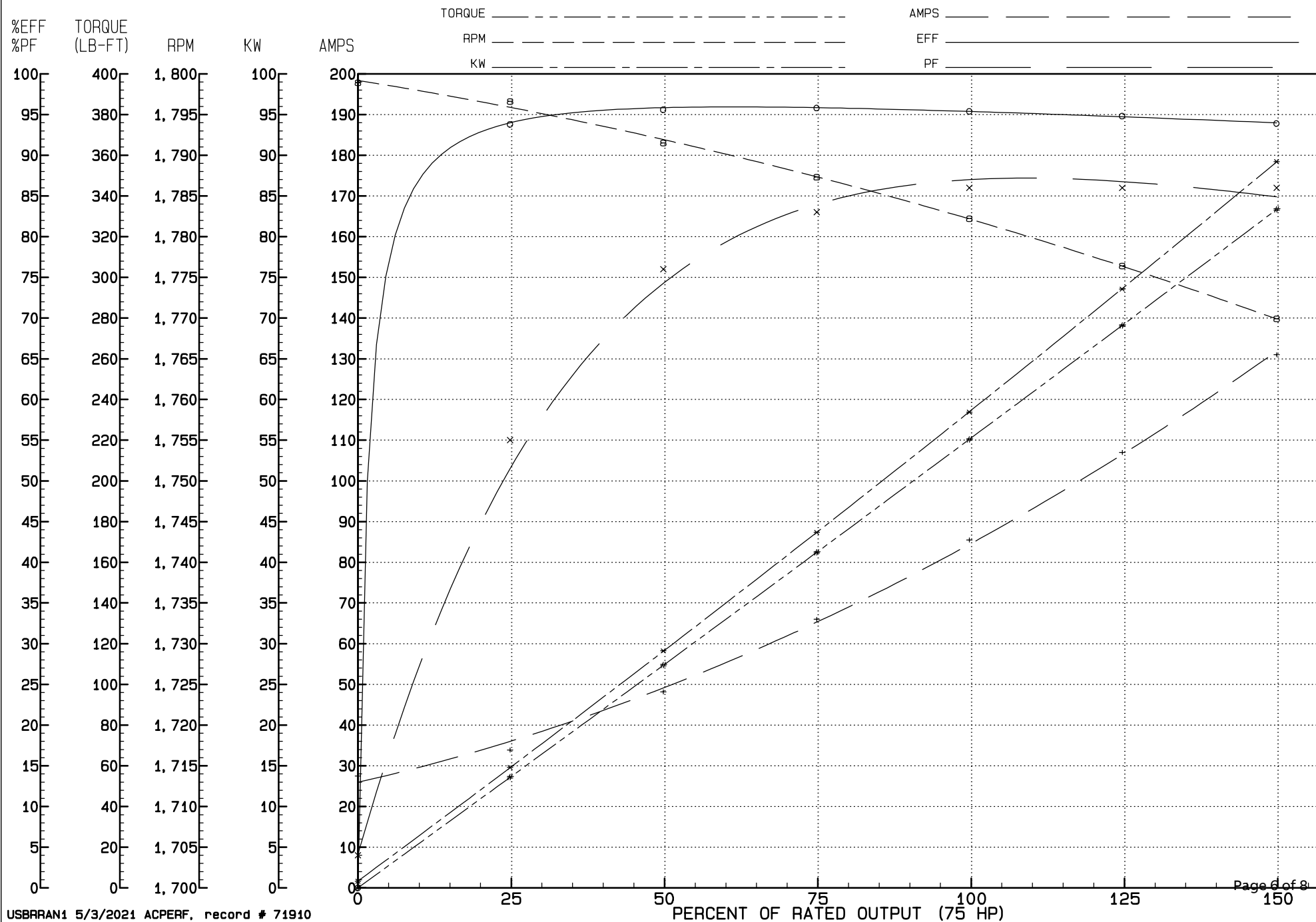
CUSTOMER INFORMATION PACKET

VHECP4316T - 75HP, 1780RPM, 3PH, 60HZ, 365HP, 1482M, TEFC

WINDING # A36WG4076

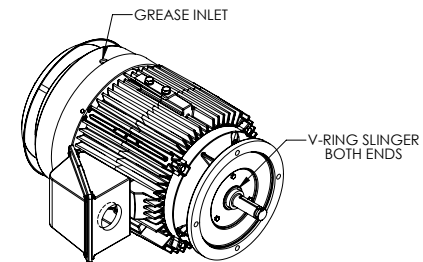
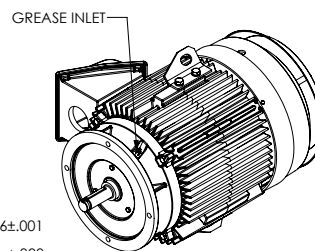
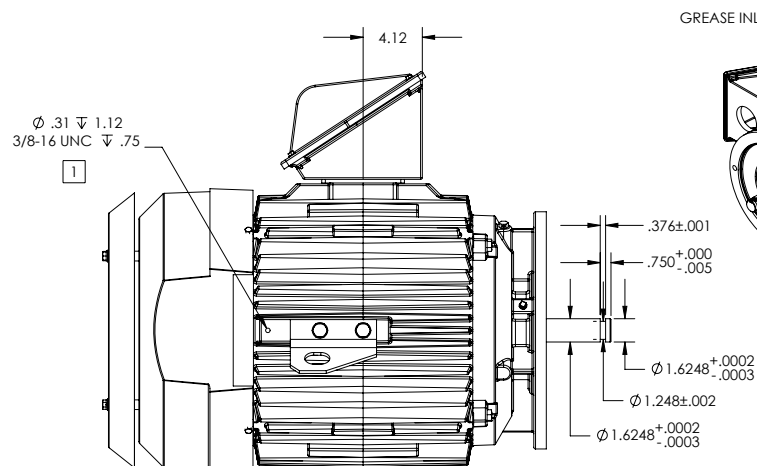
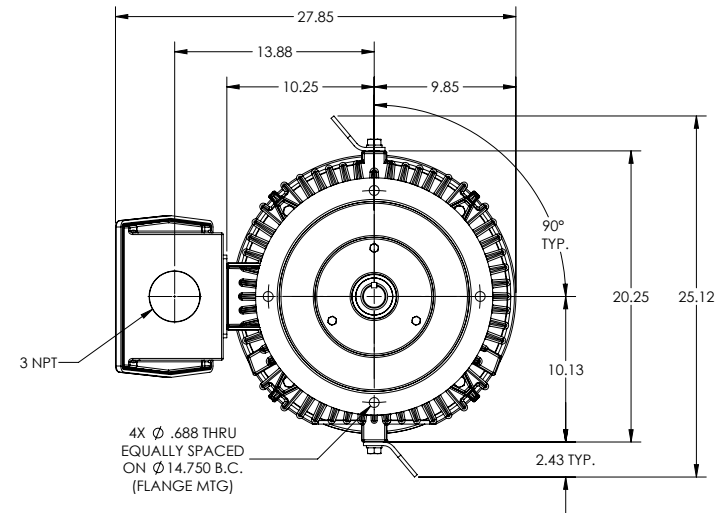
75 HP 3 PH 60 HZ 1780 RPM 460 V A3670M

TORQUES (LB-FT): PO=618.00 PU=341.00 LR=434.00 LRA=545.00



617428-924

ENCLOSURE ENHANCEMENT: SEVERE DUTY



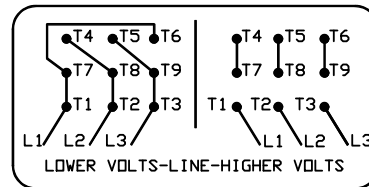
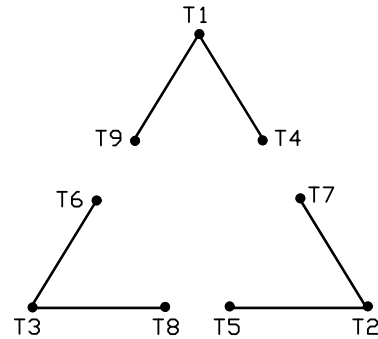
617428-924

REV. DESC: NOTE FRAME GRD HOLE PROVIDED ONLY WHEN SPECIFIED			
REV: A	VERSION: 01	REVISED: 03-22-45 06/11/2024	TDR: 000001234366
MODEL NO. 617428-924			
BY: RAGGDM			

E364/365HP TEFC V-1 FTLS - CAST IRON C/BOX

416820-002

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



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS

REV. LTR: B

VERSION: 02

TDR: 000001285318

FILE: \RAG\00022\453

REVISED: 09:36:26 09/24/2026

BY: USJOSUL

MTL: -



ABB

CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

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