BALDOR • RELIANCE

Customer information packet

VHECP4316T

75HP, 1780RPM, 3PH, 60HZ, 365HP, 1482M, TEFC
Class - None
Division - Not Applicable

12/22/2025 7:34:17 PM

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

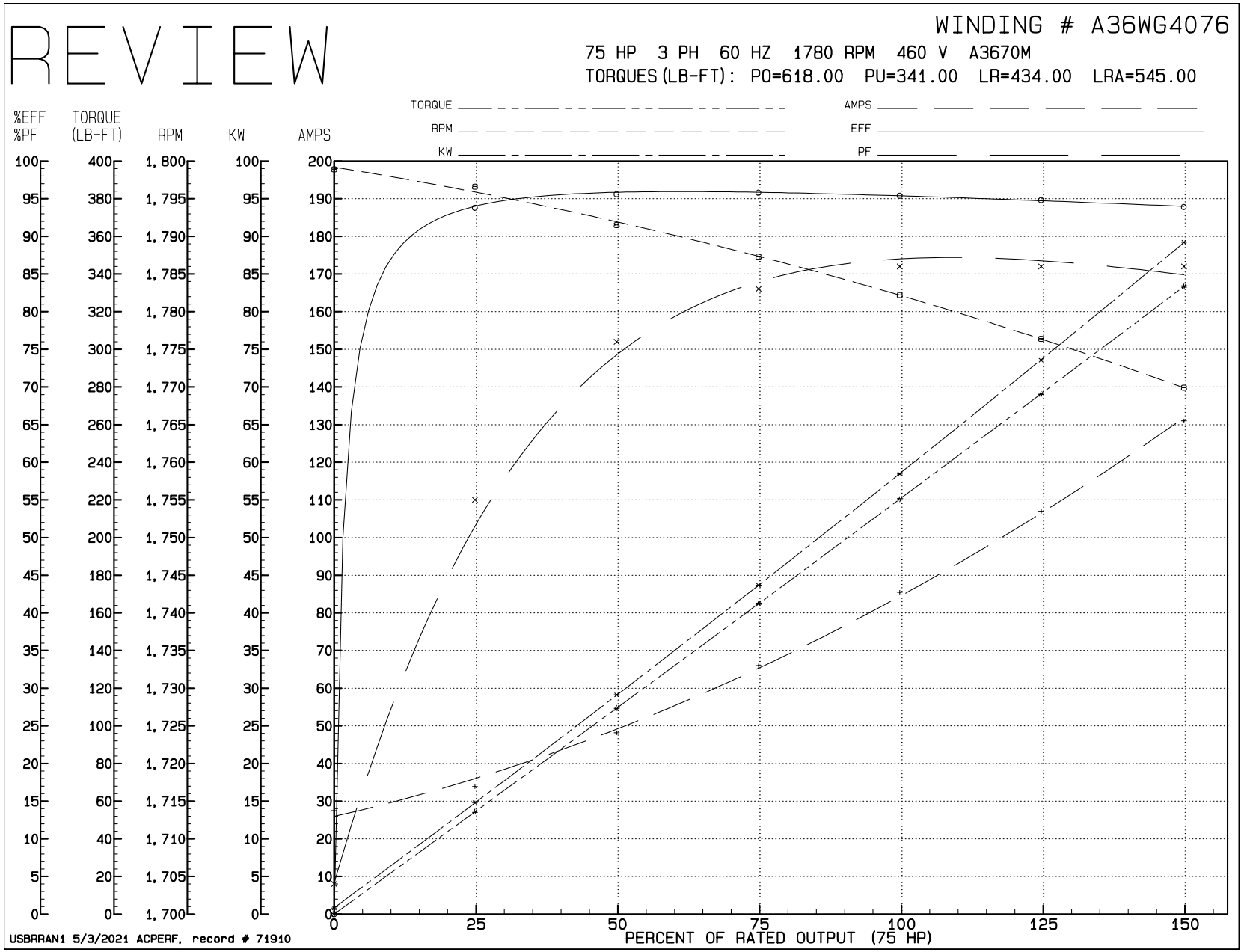
Nameplate data			
Rated Output			75
Volts			230/460
Full Load Amps			172/86
R.P.M.			1780
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	95.4	Power Factor	86
Duty			CONT
S.F. Amps			

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
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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (75 HP)
USBRAN1 5/3/2021 ACPERF, record # 71910

617428-924

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

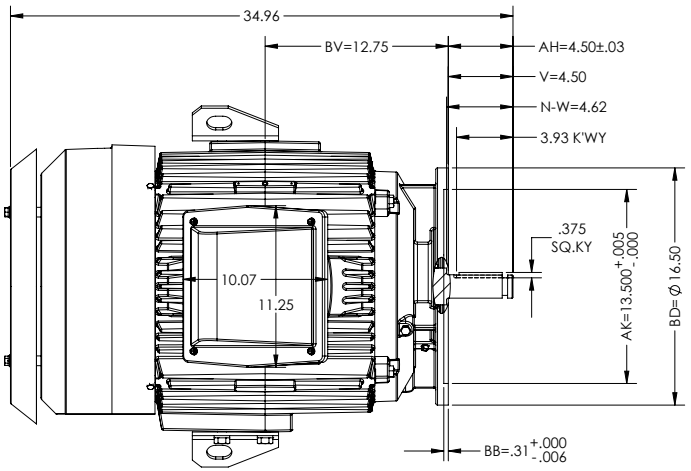
ENCLOSURE: TOTALLY ENCLOSED

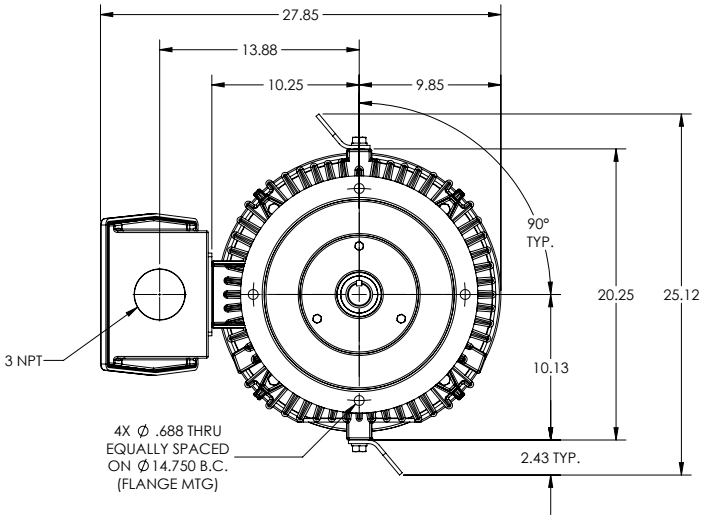
MOUNTING: FOOTLESS, V-1

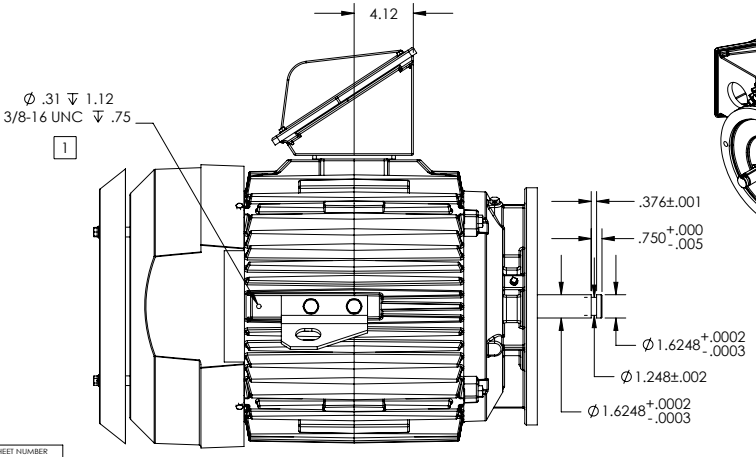
FRAME E364/365HP
CAST IRON C/BOX
VERTICAL LIFTING MEANS
DRIP COVER

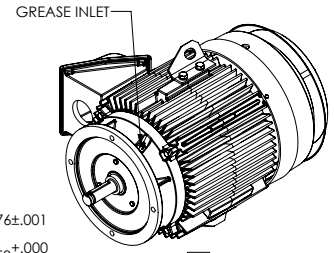
COOLING: FAN COOLED

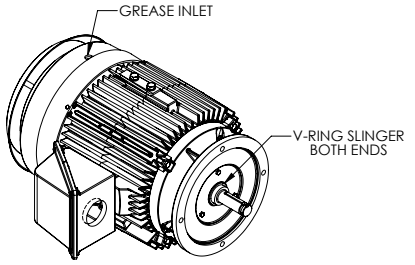
ENCLOSURE ENHANCEMENT: SEVERE DUTY











1 FRAME GROUND PROVIDED ONLY WHEN SPECIFIED

WEIGHT=900 LBS ±15% DEPENDING ON RATING.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .002 T.I.R.

FACE RUNOUT & ECCENTRICITY RUNOUT = .006 T.I.R. MAX.

DIMENSIONS ARE IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 1

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			C

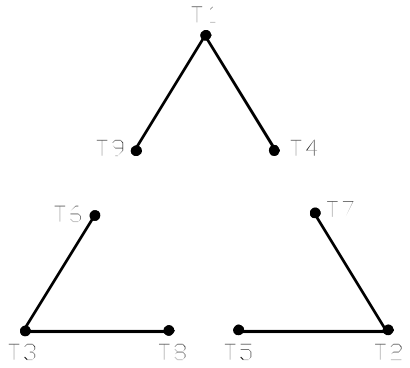
BALDOR

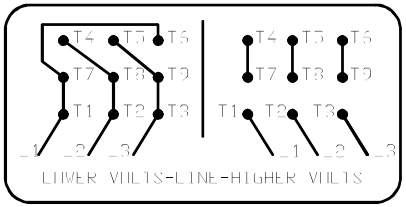
E364/365HP TEFC V-1 FTLS - CAST IRON C/BOX

617428-924

416820–002

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





(N.P. 1575-B)

416820–002

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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

SH 1 of 1