ABB BALDOR RELIANCE

Customer information packet

VHECP4314T

60HP, 1780RPM, 3PH, 60HZ, 364HP, 1462M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	364HP
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	60.000 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	136.000 A @ 230.0 V
	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
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4075
Layout	617428-035
Eff. date	07-21-2026
CD Diagram	CD0180
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	35.36 IN
Power Factor	87
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.	VHECP4314T			**SPEC NO.**	P36G3421							
HP	60	**AMPS**	140/70		**VOLTS**	230/460		**DESIGN**	B			
FRAME	364HP	**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**	84			**NEMA NOM EFFICIENCY**	95			
O.D.E.BRG.DATA	6313			**MAX CORR KVAR**	10.0			**GUARANTEED EFFICIENCY**	94.1			
3/4 LOAD EFF.	95.3			**NEMA NOM/CSA QUOTED EFF**								
SER.NO.				**MOTOR WEIGHT**								

AC Induction motor performance data

Record #72794 - Typical performance - not guaranteed values

Winding	A36WG4075
Type	A3658M
Enclosure	TEFC

Nameplate data			
Rated Output			60
Volts			230/460
Full Load Amps			140/70
R.P.M.			1780
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	95	Power Factor	84
Duty			CONT
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection	
Full Load Torque	176.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	422 LB-FT
Pull-up Torque	276 LB-FT
Locked-rotor Torque	352 LB-FT
Starting Current	462 A
No-load Current	24.8
Line-line Res. @ 25°C	0.10816 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	32.3
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	51	73	81	84	86	85	85
Efficiency	0	92.6	95.1	95.4	95.2	94.6	93.8	94.8
Speed	1798.9	1796.4	1792.4	1788	1783.7	1778.3	1772.3	1780
Line amperes	24.8	29.7	40.7	54.4	69.7	86.6	105	79.8

ABB BALDOR RELIANCE

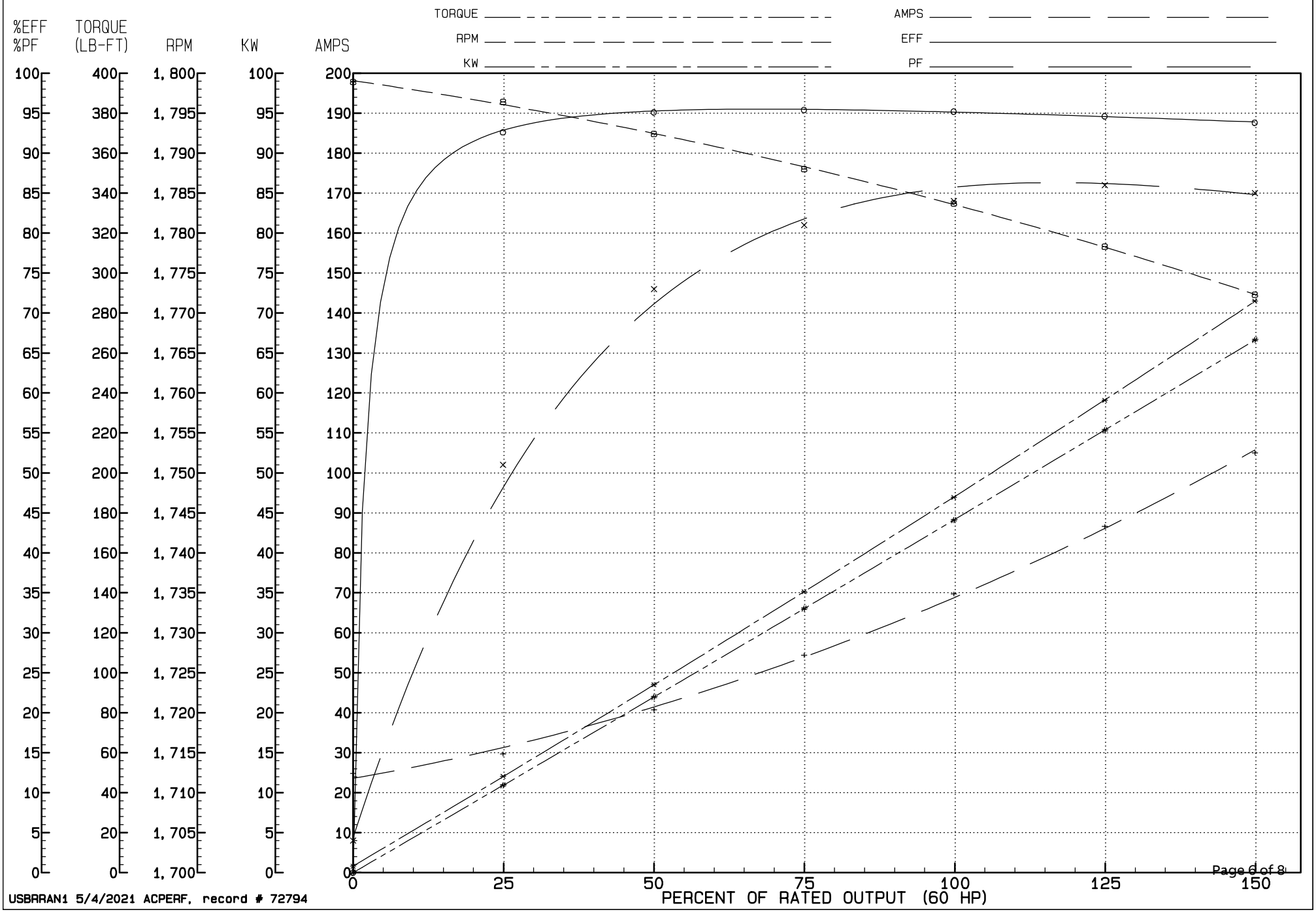
REVIEW

CUSTOMER INFORMATION PACKET VHECP4314T - 60HP, 1780RPM, 3PH, 60HZ, 364HP, 1462M, TEFC

WINDING # A36WG4075

60 HP 3 PH 60 HZ 1780 RPM 460 V A3658M

TORQUES(LB-FT): PO=422.00 PU=276.00 LR=352.00 LRA=462.00



USBRRAN1 5/4/2021 ACPERF, record # 72794

DUTY MASTER ALTERNATING CURRENT MOTORS

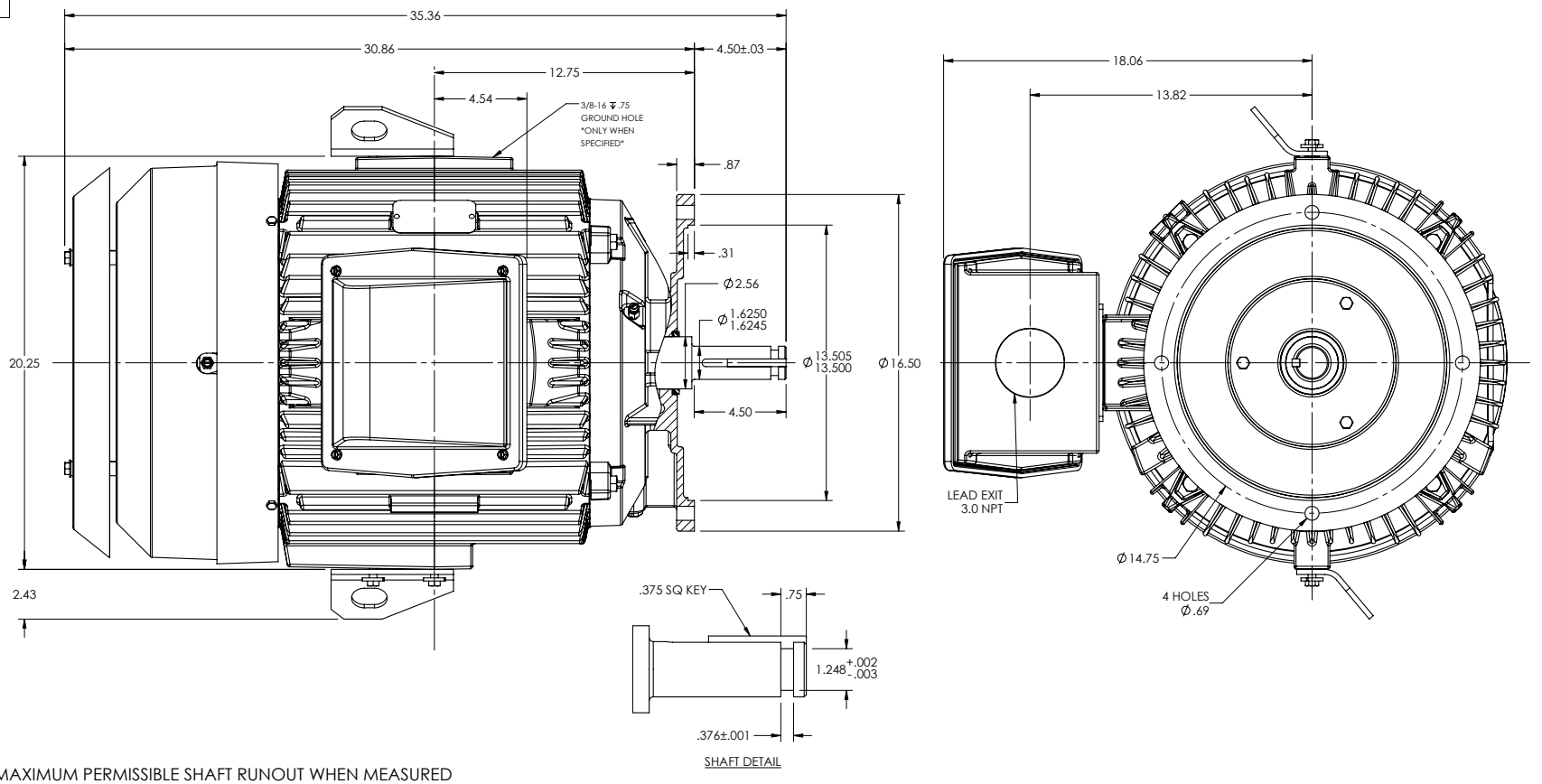
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

617428-035

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: NEMA HP & HPH NORMAL THRUST - SOLID SHAFT

FRAMES 364HP-365HP

COOLING: FAN COOLED



MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .001 MAX T.I.R.

FACE RUNOUT AND 250HP-440HP .004 MAX T.I.R. ECCENTRICITY

WEIGHT (LBS): 364HP = 860
365HP = 980

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

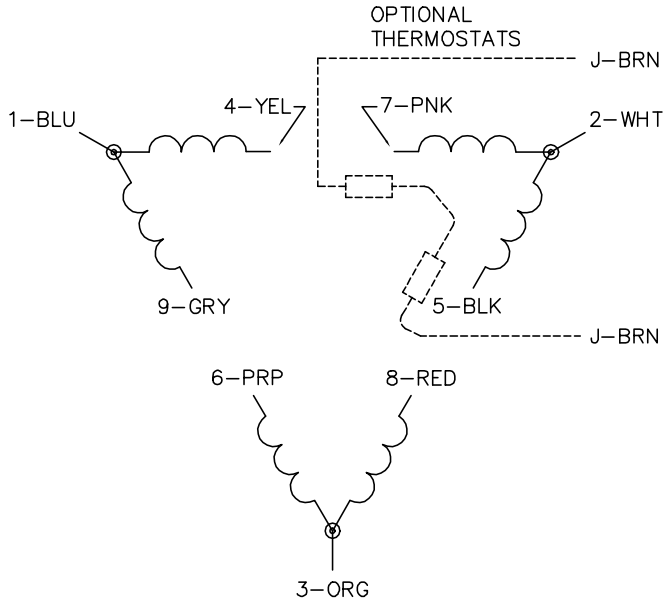
REV. DESC: UPDATE AK AND EU DIMENSION			
REV: C	VERSION: 03	REVISED: 11:39:11 12/19/2016	TDR: 000001009053
MODEL NO. 617428-035			REF:
BY: RAGJSS1			B

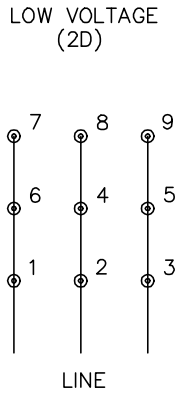
BALDOR

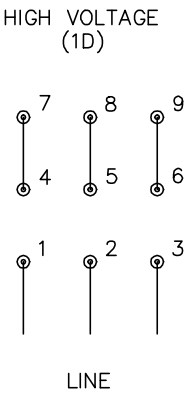
DIM SHT 364-365HP TEFC HPH MED THRUST W/CBOX XT (611740-740)

617428-035

CD0180







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

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FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
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BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1