

**BALDOR • RELIANCE**

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# Customer information packet

## VEUHM3542

.75/.56KWHP, 1765 1/MIN IP44 IC411 16KGRP

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CE CSA UR WEEE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.400 A @ 208.0 V 2.360 A @ 208.0 V 2.280 A @ 230.0 V 1.140 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated

## Part detail

Revision	B
Type	AC
Mech. spec.	35X042
Base	
Status	PRD/A
Elec. spec.	35WGG069
Layout	35LYX042
Eff. date	05-16-2022
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-01-2021

<b>Feedback Device</b>	NO FEEDBACK
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	1.1 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	9 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3514M
<b>Mounting Arrangement</b>	F3
<b>Number of Poles</b>	4
<b>Overall Length</b>	13.23 IN
<b>Power Factor</b>	74
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1765 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None

**Winding Thermal 2**

**None**

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**Nameplate**

<b>NP2136L</b>							
<b>CAT.NO.</b>	VEUHM3542						
<b>SPEC.</b>	35X042G069G1						
<b>HP</b>	.75/.56KW						
<b>VOLTS</b>	208-230/460						
<b>AMP</b>	2.36-2.28/1.14						
<b>RPM</b>	1765 1/MIN IP44 IC411 16KG						
<b>FRAME</b>	56C	<b>HZ</b>	60	<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES</b>	B	<b>CL</b>	F
<b>NEMA-NOM-EFF</b>	82.5	<b>PF</b>	74				
<b>RATING</b>	40C AMB-S1 CONT						
<b>CC</b>	<b>USABLE AT 208V</b>						2.4
<b>DE</b>	6205	<b>ODE</b>	6203				
<b>ENCL</b>	TEFC	<b>SN</b>					
	IE2-83.8(75%)80.4(50%)						

## Parts list

Part number	Description	Quantity
SA398825	SA 35X042G069G1	1.000 ea
RA389846	RA 35X042G069G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB4007	KOBX,W/PRIMER (WAS REL# 79097-49-C)	1.000 ea
35GS3009	GASKET, KOBX 35CB4006 (411881-15A)	1.000 ea
WD4101A13	STEEL CAPLUG,BP-1 1/8, PLUG D3561S	2.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4519	CB LID W/BLACK PRIMER	1.000 ea
35GS3019A01	LEXIDE GASKET, FOR KOBX LID 35CB4519	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025N19	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.017 ga
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 ea
NP2136L	ALUM SUPER-E UL CSA CE CC	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A06	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea

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FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

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**AC Induction Motor Performance Data**

Record # 90018

Typical performance - not guaranteed values

Winding: 35WGG069-R006		Type: 3514M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	.75	Full Load Torque	2.25 LB-FT	
Volts	208-230/460	Start Configuration	direct on line	
Full Load Amps	2.36-2.28/1.14	Breakdown Torque	7.38 LB-FT	
R.P.M.	1730	Pull-up Torque	4.07 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	4.7 LB-FT
NEMA Design Code	B KVA Code	K	Starting Current	7.7 A
Service Factor (S.F.)	1.15	No-load Current	0.734 A	
NEMA Nom. Eff.	82.5 Power Factor	74	Line-line Res. @ 25°C	31.8 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	24°C	
S.F. Amps	2.6-2.52/1.26	Temp. Rise @ S.F. Load	29°C	
		Locked-rotor Power Factor	64.9398	
		Rotor inertia	0.101 lb-ft <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	65	74	80	83	78
Efficiency	71.4	81	83.3	83.6	82.7	81.2	83.1
Speed	1790	1782	1773	1763	1753	1740	1757
Line amperes	0.761	0.849	0.976	1.14	1.34	1.57	1.26



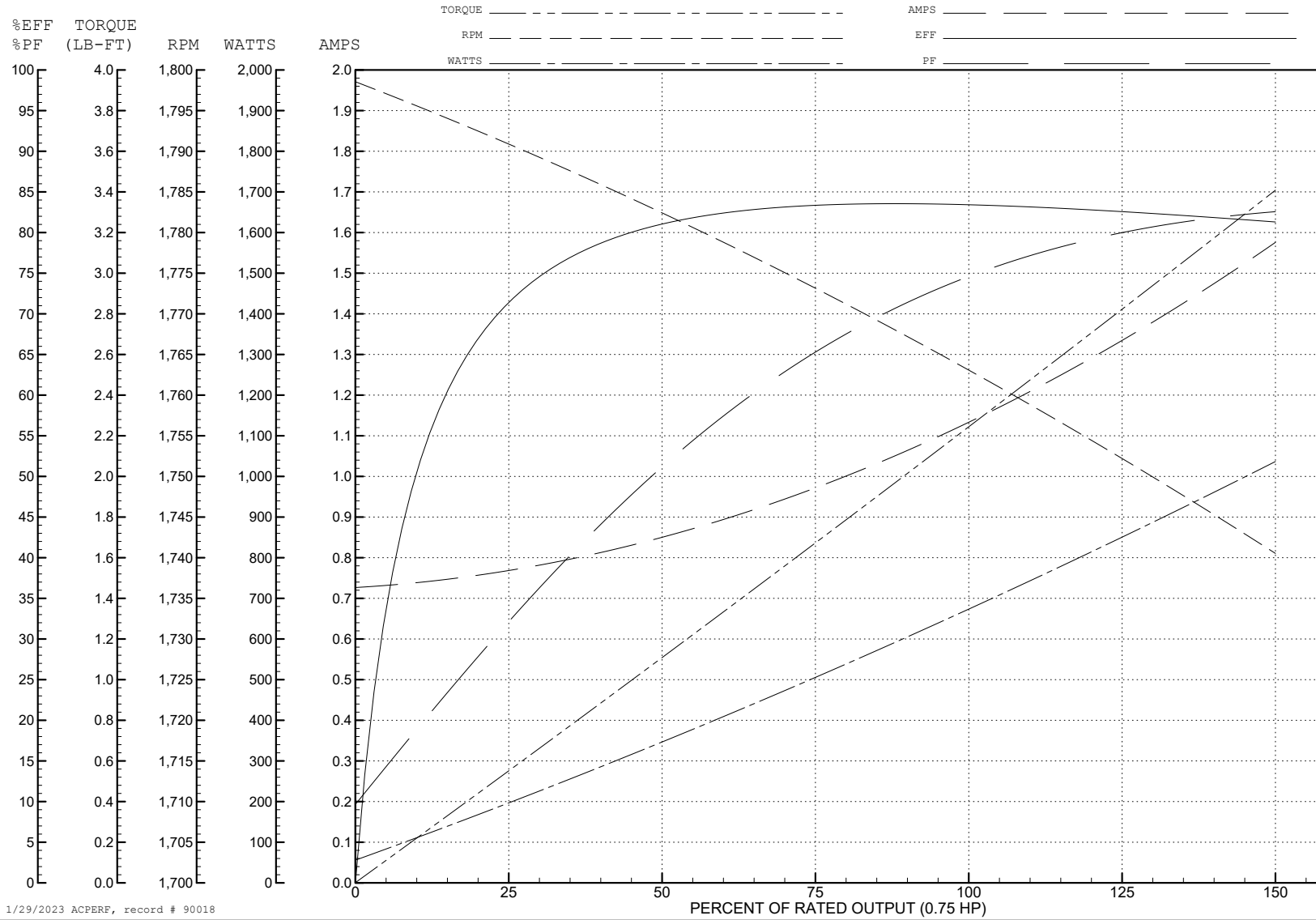
ABB Motors and Mechanical Inc.

WINDING # 35WGG069

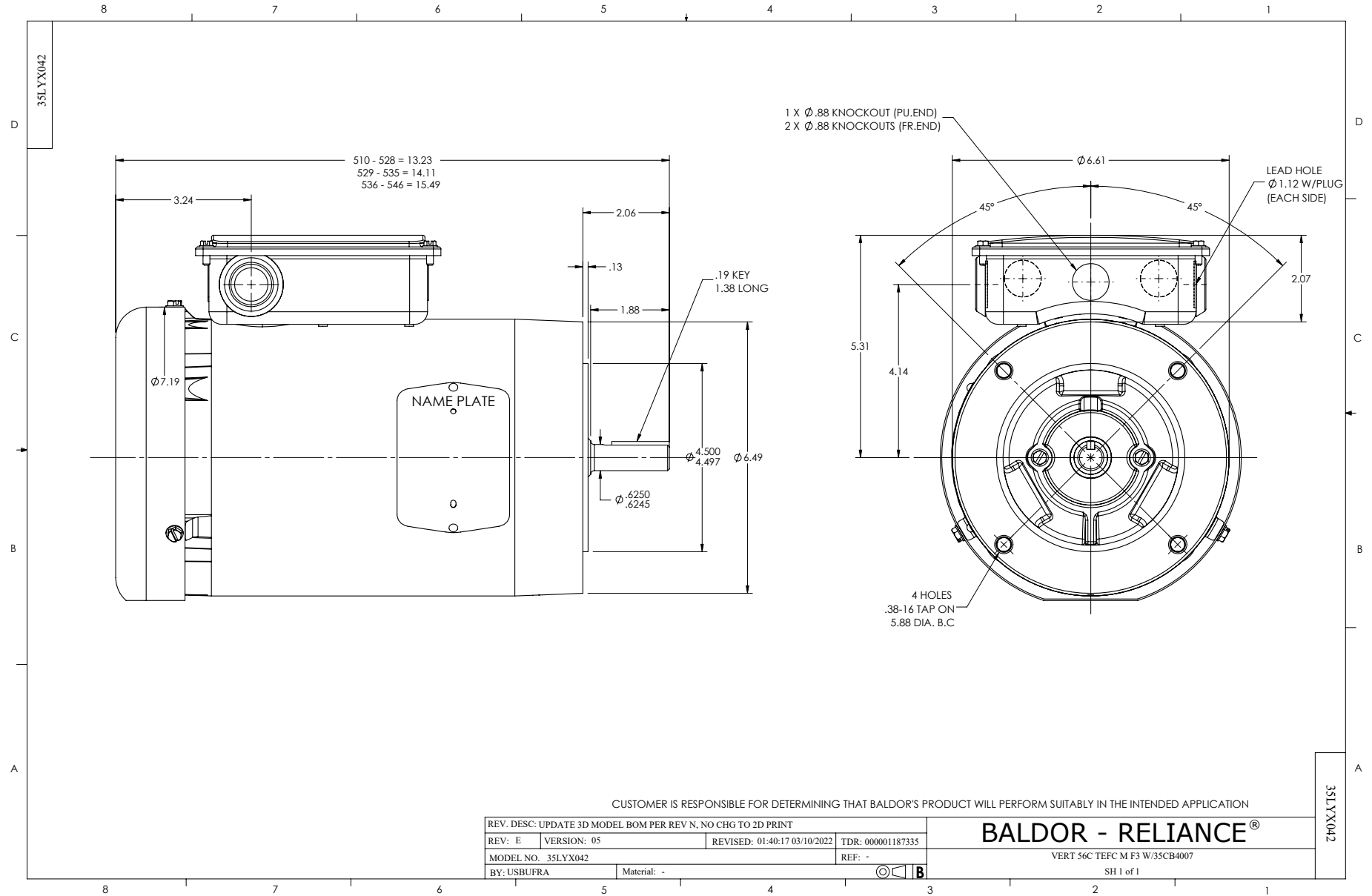
0.75 HP 3 PH 60 HZ 1730 RPM 460 V 3514M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=7.38 PU=4.07 LR=4.7 LRA=7.7



1/29/2023 ACPERF, record # 90018



CD0005



LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS