

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VEM31112**

**.75HP,1730RPM,3PH,60HZ,56C,3516M,OPEN,F1**

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGN725	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35E4017	Layout:	35LYE4017	Poles:	04	Created Date:	10-23-2014
Base:	N	Eff. Date:	01-06-2020	Leads:	9#18		

Specs			
Catalog Number:	VEM31112	Insulation Class:	F
Enclosure:	OPEN	Inverter Code:	Not Inverter
Frame:	56C	KVA Code:	J
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.750 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3516M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	C UR US ENERGY	Power Factor:	84
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	No Mounting	Pulley Face Code:	C-Face
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None
Current @ Voltage:	1.000 A @ 460.0 V	Shaft Extension Location:	Pulley End
	2.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding

	2.100 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
<b>Design Code:</b>	B	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Drip Cover:</b>	Drip Cover	<b>Speed Code:</b>	Single Speed
<b>Duty Rating:</b>	CONT	<b>Motor Standards:</b>	NEMA
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Starting Method:</b>	Direct on line
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Bearing:</b>	None
<b>Front Face Code:</b>	Standard	<b>Thermal Device - Winding:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

Nameplate NP3155L													
CAT.NO.	VEM31112												
SPEC.	35E4017N725G1												
HP	.75												
VOLTS	230/460												
AMP	2/1												
RPM	1730												
FRAME	56C					HZ	60			PH	3		
SER.F.	1.25					CODE	J		DES	B		CL	F
F.L. AVG. EFF.	81.1					PF	84						
RATING	40C AMB-CONT												
CC										USABLE AT 208V	2.1		
DE	6205					ODE	6203						
ENCL	OPEN					SN							
	SFA 2.4/1.2												

Parts List		
Part Number	Description	Quantity
SA288974	SA 35E4017N725G1	1.000 EA
RA275155	RA 35E4017N725G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3209F00	MASTER ODE,203 BRG,DRIP CVR	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35EP3402C00	MASTER DE,205 BRG,OPEN	1.000 EA
35AD2000	AIR BAFFLE - GALVANNEAL	1.000 EA
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 EA
35FH4006A01SP	DRIP COVER,STAMPED,W/ PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	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, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
NP3155L	ALUM SUPER-E UL CSA CC "SEMS"	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

**AC Induction Motor Performance Data**

Record # 57228

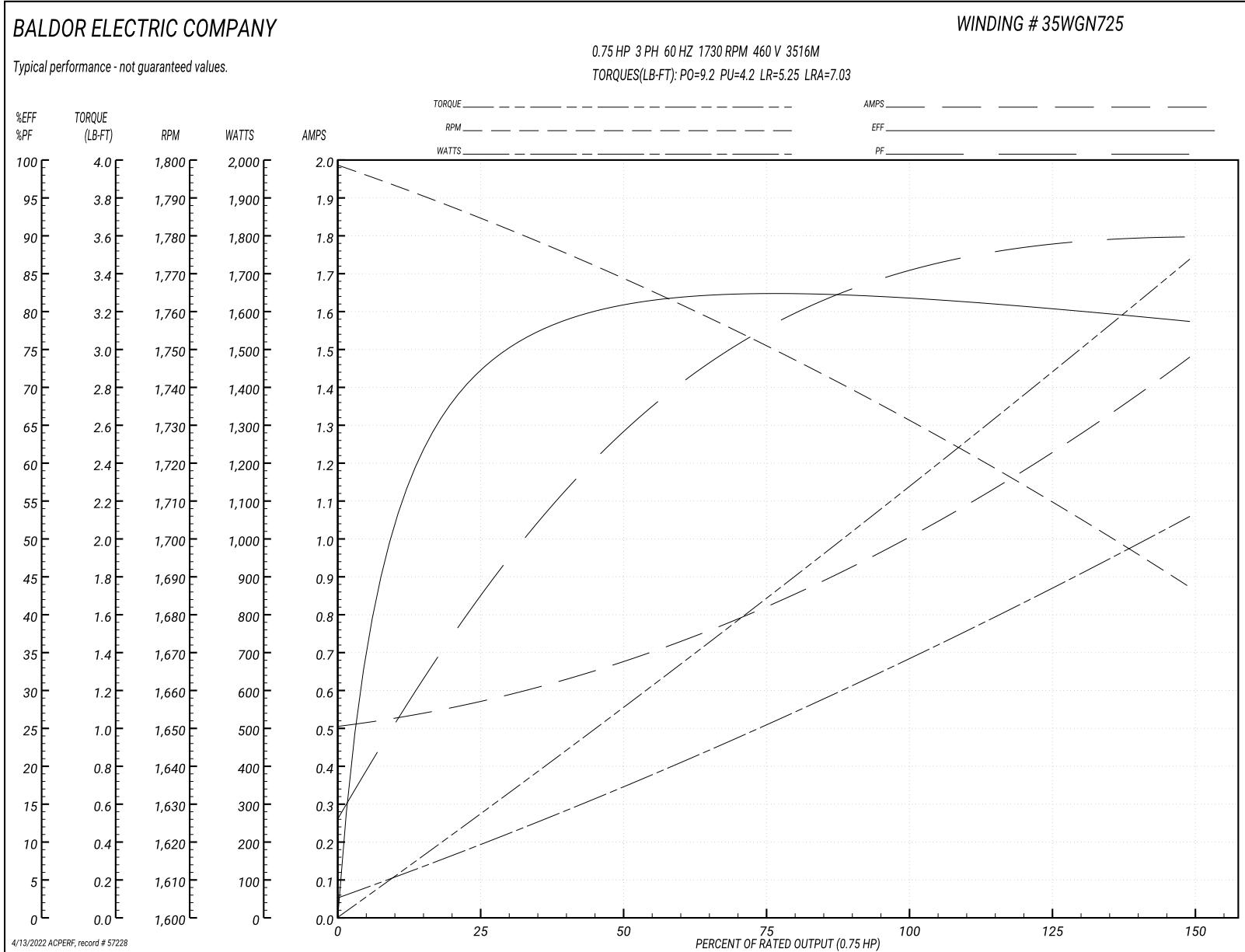
Typical performance - not guaranteed values

<b>Winding: 35WGN725-R005</b>			<b>Type: 3516M</b>			<b>Enclosure: OPEN</b>			
<b>Nameplate Data</b>						<b>460 V, 60 Hz: High Voltage Connection</b>			
<b>Rated Output (HP)</b>	.75		<b>Full Load Torque</b>			2.26 LB-FT			
<b>Volts</b>	230/460		<b>Start Configuration</b>			direct on line			
<b>Full Load Amps</b>	2/1		<b>Breakdown Torque</b>			9.2 LB-FT			
<b>R.P.M.</b>	1730		<b>Pull-up Torque</b>			4.2 LB-FT			
<b>Hz</b>	<b>60 Phase</b>	3	<b>Locked-rotor Torque</b>			5.25 LB-FT			
<b>NEMA Design Code</b>	<b>B KVA Code</b>		<b>Starting Current</b>			7.03 A			
<b>Service Factor (S.F.)</b>	1.25		<b>No-load Current</b>			0.51 A			
<b>NEMA Nom. Eff.</b>	<b>81.1 Power Factor</b>	84	<b>Line-line Res. @ 25°C</b>			32.1 Ω			
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>			20°C			
<b>S.F. Amps</b>	2.4/1.2		<b>Temp. Rise @ S.F. Load</b>			27°C			
						<b>Locked-rotor Power Factor</b>			66.3
						<b>Rotor inertia</b>			0.0946 LB-FT <sup>2</sup>

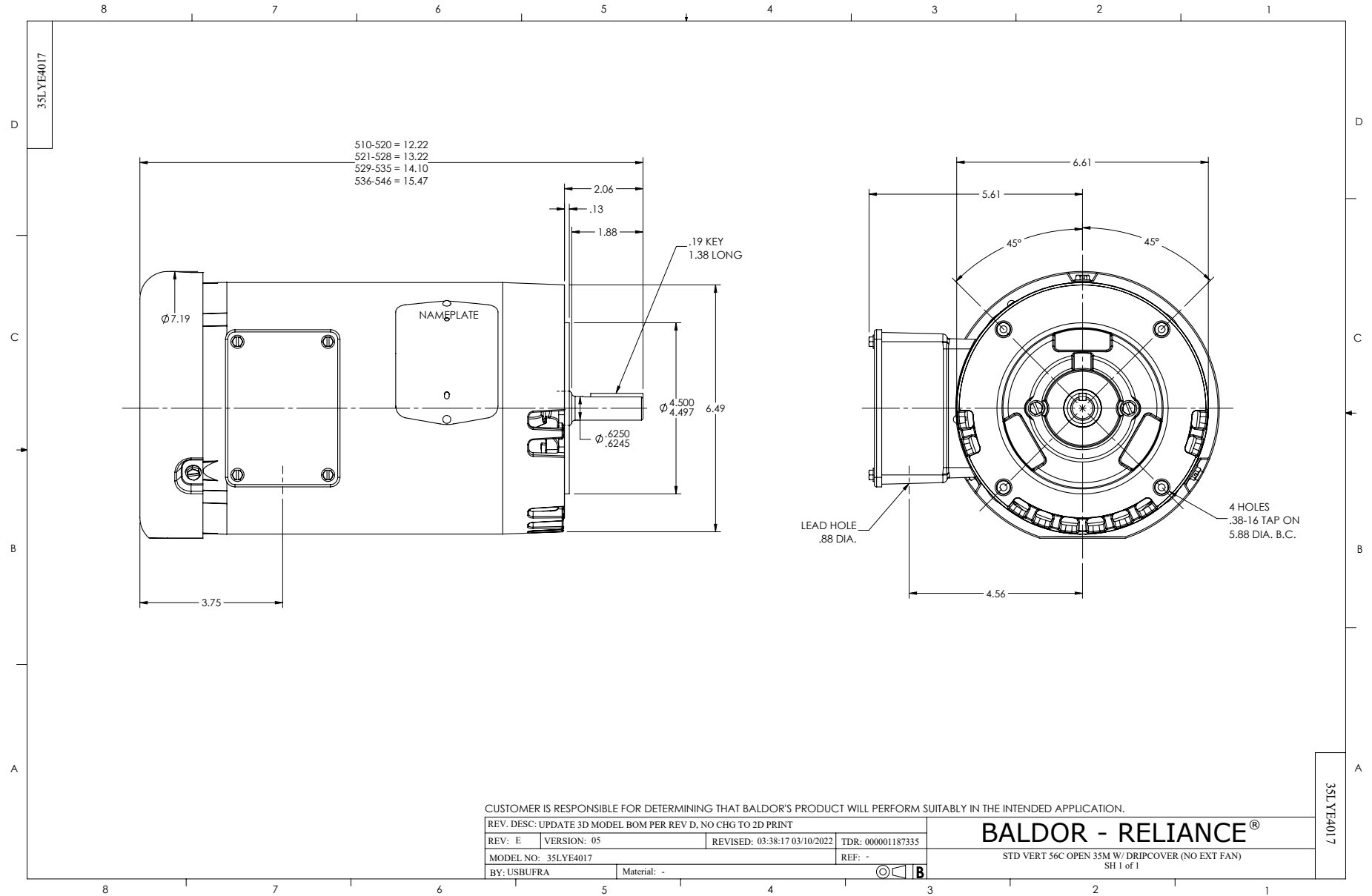
**Load Characteristics 460 V, 60 Hz, 0.75 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	44	66	77	84	89	90	89
<b>Efficiency</b>	71.8	80.6	82.3	82	80.8	78.6	80.8
<b>Speed</b>	1784	1768	1752	1732	1711	1687	1711
<b>Line amperes</b>	0.569	0.668	0.822	1.01	1.21	1.48	1.21

Performance Graph at 460V, 60Hz, 0.75HP Typical performance - Not guaranteed values







CD0005

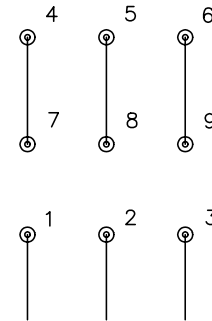


LOW VOLTAGE  
(2Y)



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
90000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005

Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>