BALDOR • RELIANCE

Product Information Packet

VEM7014-5

1HP,1760RPM,3PH,60HZ,56C,3520M,XPFC,F1,N

Part Detail

Revision:	B	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WGM849	**CD Diagram:**	CD0006	**Mfg Plant:**	
Mech. Spec:	35E374	**Layout:**	35LYE374	**Poles:**	04	**Created Date:**	09-30-2015
Base:	N	**Eff. Date:**	08-08-2017	**Leads:**	3#18		

Specs

Catalog Number:	VEM7014-5	**KVA Code:**	L
Enclosure:	XPFC	**Lifting Lugs:**	No Lifting Lugs
Frame:	56C	**Locked Bearing Indicator:**	Locked Bearing
Frame Material:	Steel	**Motor Lead Quantity/Wire Size:**	3 @ 18 AWG
Output @ Frequency:	1.000 HP @ 60 HZ	**Motor Lead Exit:**	Ko Box
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Motor Lead Termination:**	Flying Leads
Voltage @ Frequency:	575.0 V @ 60 HZ	**Motor Type:**	3520M
XP Class and Group:	CLI GP D; CLII GP F,G	**Mounting Arrangement:**	F1
XP Division:	Division I	**Power Factor:**	71
Agency Approvals:	CSA	**Product Family:**	Hazardous Location Motor
	CSA EEV	**Pulley End Bearing Type:**	Ball
	UR	**Pulley Face Code:**	C-Face
Auxillary Box:	No Auxillary Box	**Pulley Shaft Indicator:**	Standard
Auxillary Box Lead Termination:	None	**Rodent Screen:**	None
Base Indicator:	No Mounting	**RoHS Status:**	ROHS COMPLIANT
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Shaft Extension Location:**	Pulley End
Blower:	None	**Shaft Ground Indicator:**	No Shaft Grounding
Current @ Voltage:	1.200 A @ 575.0 V	**Shaft Rotation:**	Reversible

Design Code:	B	**Shaft Slinger Indicator:**	No Slinger
Drip Cover:	No Drip Cover	**Speed Code:**	Single Speed
Duty Rating:	CONT	**Motor Standards:**	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	**Starting Method:**	Direct on line
Feedback Device:	NO FEEDBACK	**Thermal Device - Bearing:**	NONE (OLD)
Front Face Code:	Standard	**Thermal Device - Winding:**	Normally Closed Thermostat
Front Shaft Indicator:	None	**Vibration Sensor Indicator:**	No Vibration Sensor
Heater Indicator:	No Heater	**Winding Thermal 1:**	None
Insulation Class:	B	**Winding Thermal 2:**	None
Inverter Code:	Not Inverter	**XP Temp Code:**	T3C

Nameplate NP1426XPSLEV

NO.		CC	010A			
SER.						
SPEC.	35E374M849G1					
CAT.NO.	VEM7014-5					
HP	1	T. CODE	T3C			
VOLTS	575					
AMPS	1.2					
RPM	1760					
HZ	60	PH	3	CL	B	
SER.F.	1.00	DES	B	CODE	L	
RATING	40C AMB-CONT					
FRAME	56C	NEMA-NOM-EFF	85.5			
USABLE AT 208V		PF	71			
BLANK						

Parts List

Part Number	Description	Quantity
SA308551	SA 35E374M849G1	1.000 EA
RA295883	RA 35E374M849G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
35CB3001A01SP	EXPL CONDUIT BOX, MACH, 1/2" PIPE TAP LE	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
35EP3700A01SP	FR ENDPLATE, XPFC	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3702A01SP	PU EP-205 BRG-35X-56C-143-5TC	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
HA3013A01	1/2-20X5/8 SPL.HX BOLT	2.000 EA
HW3021C06	3/32 DI X .625 PIN (F/S)	2.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 EA
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	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	6.000 EA
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.017 GA

Parts List (continued)

Part Number	Description	Quantity
HA3104A06	THRUBOLT 5/16-18 X 8.50 OHIO ROD	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP1426XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 35603 - Typical performance - not guaranteed values

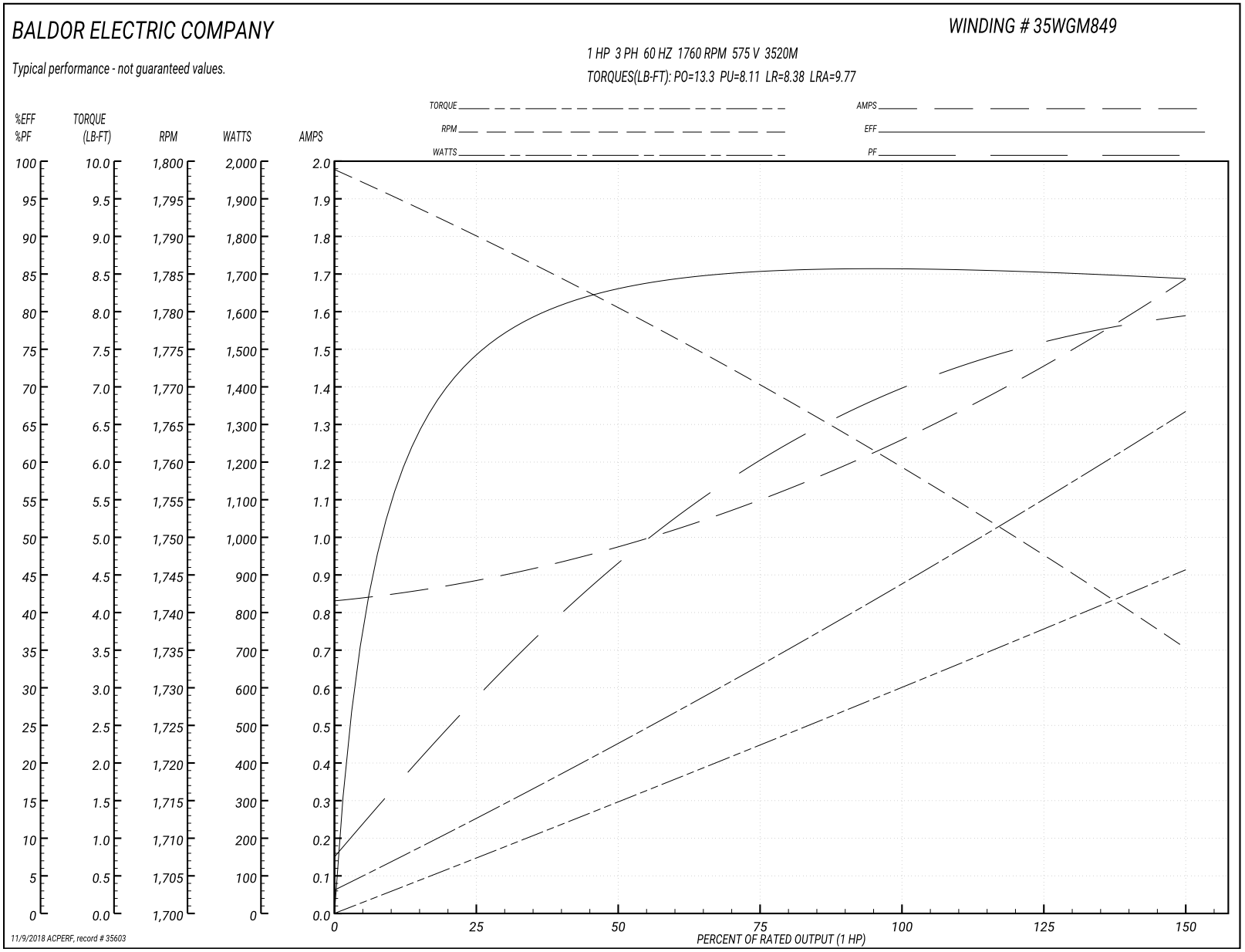
Winding: 35WGM849-R002	**Type:** 3520M	**Enclosure:** XPFC

Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1			Full Load Torque	2.99 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	1.2			Breakdown Torque	13.3 LB-FT
R.P.M.	1760			Pull-up Torque	8.11 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	8.38 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	9.77 A
Service Factor (S.F.)	1			No-load Current	0.84 A
NEMA Nom. Eff.	85.5	Power Factor	71	Line-line Res. @ 25ºC	23.9 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	36°C
				Locked-rotor Power Factor	53.9
				Rotor inertia	0.118 LB-FT2

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	47	60	69	76	80
Efficiency	74.4	83.2	85.2	85.9	85.3	84.4
Speed	1790	1780	1770	1760	1748	1735
Line amperes	0.872	0.977	1.1	1.26	1.46	1.68

Performance Graph at 575V, 60Hz, 1.0HP Typical performance - Not guaranteed values



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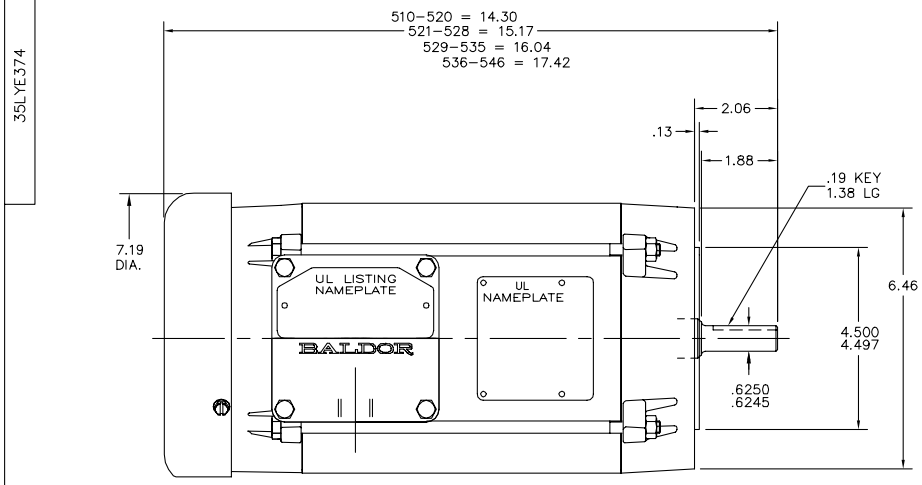

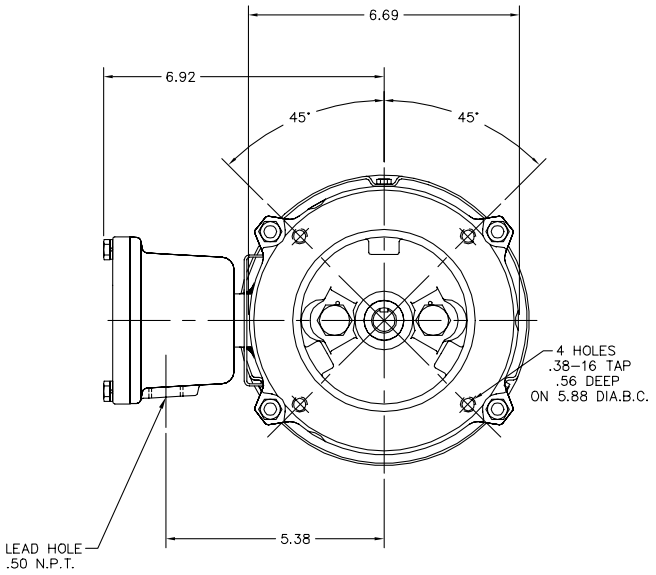

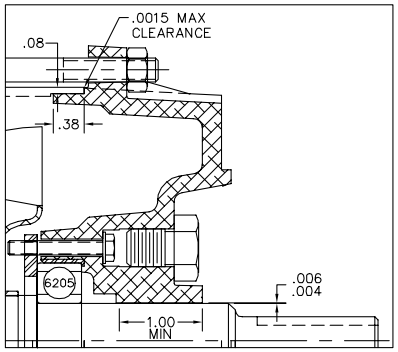

UL CLASS I – GROUP D & CLASS II – GROUPS F & G

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

REV. DESC: UPDATE PARTS TO MATCH BOM & CLEAN UP LINES		
REV. LTR: H	VERSION: 01	TDR: 000000985672
FILE: \AAA\00005\386	REVISED: 09:51:32 06/29/2016	BY: ENERIN0
MTL: –		

BALDOR

VERT 56C XPFC 35M CL-I GP-D, CL-II GP-F&G

SH 1 of 1

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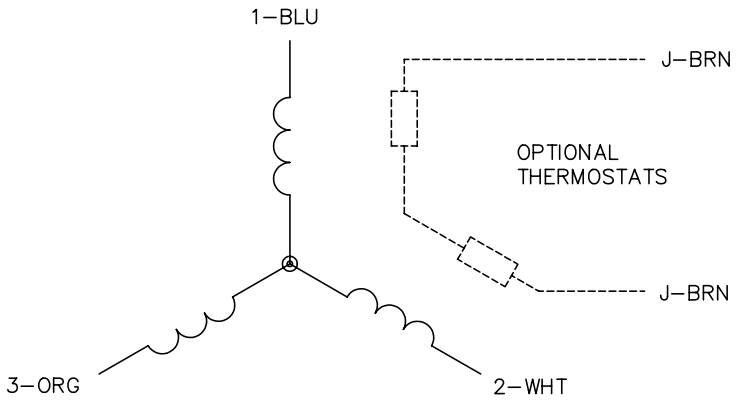
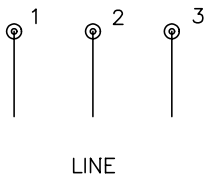
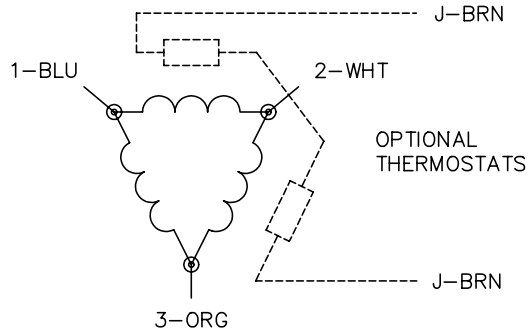
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435
9000CD		FILE: AAA00005141	MDL: –
		MTL: –	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED