

BALDOR® • RELIANCE

Product Information Packet

VBM3554

1.5HP,1755RPM,3PH,60HZ,56C,3521M,TEFC,F1

Part Detail							
Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3521M	Elec. Spec:	35WGZ541	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35E058	Layout:	35LYE058
Frame:	56C	Mounting:	F1	Poles:	04	Created Date:	01-14-2008
Base:	N	Rotation:	R	Insulation:	B	Eff. Date:	07-19-2011
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L									
CAT.NO.	VBM3554								
SPEC.	35E058Z541G2								
HP	1.5								
VOLTS	208-230/460								
AMP	5.1-4.8/2.4								
RPM	1755								
FRAME	56C	HZ			60	PH		3	
SER.F.	1.15	CODE			M	DES		B	CLASS
NEMA-NOM-EFF	84	PF			70				
RATING	40C AMB-CONT								
CC		USABLE AT 208V							
DE	6205	ODE			6203				
ENCL	TEFC	SN							

Parts List		
Part Number	Description	Quantity
SA167240	SA 35E058Z541G2	1.000 EA
RA155579	RA 35E058Z541G2	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	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
35EP3900T01	SPL FACE MTD FR EP-ENCL-W/STEARNS BRAKE	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3300A33	SPL FACE MTD EP -ENCL-205 BRG	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HA1014A02SP	SPL SPACER FOR FAN COVER MTD ON BRAKE	3.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	3.000 EA
BR1003A01	BRAKE RELEASE LEVER	1.000 EA
35FN3002M02	EXFN, PLASTIC, 6.00 OD, .639 ID (BRAKE)	1.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH5000A08SP	FAN COVER ASSY FOR BRAKE MTRS,W/ AUTOPHE	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13SP	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
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
HW2501D08	KEY, 3/16 SQ X .875 AUTO	1.000 EA
84XN3816J28	HEX SOC HD, 3/8-16 X 1.75 LONG	2.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
76BK3100BPF	1-056-031-00-BPF BRAKE TDR# 79345	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LB1185	LABEL,BRAKE CONNECTION (ON ROLLS)	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
G7PA1000	PACKAGING GROUP / BALDOR	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 32002 - Typical performance - not guaranteed values

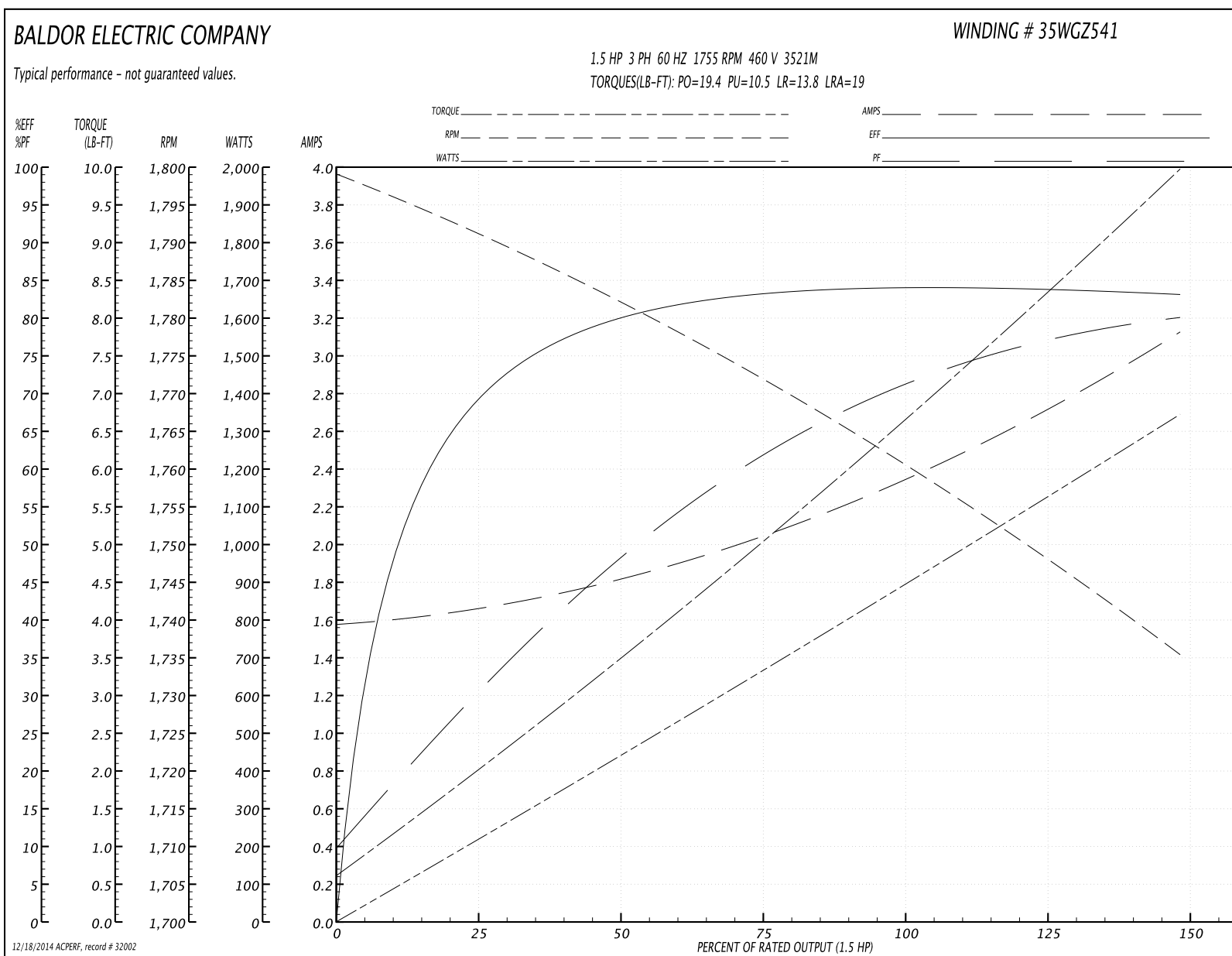
Winding: 35WGZ541-R012	Type: 3521M	Enclosure: TEFC
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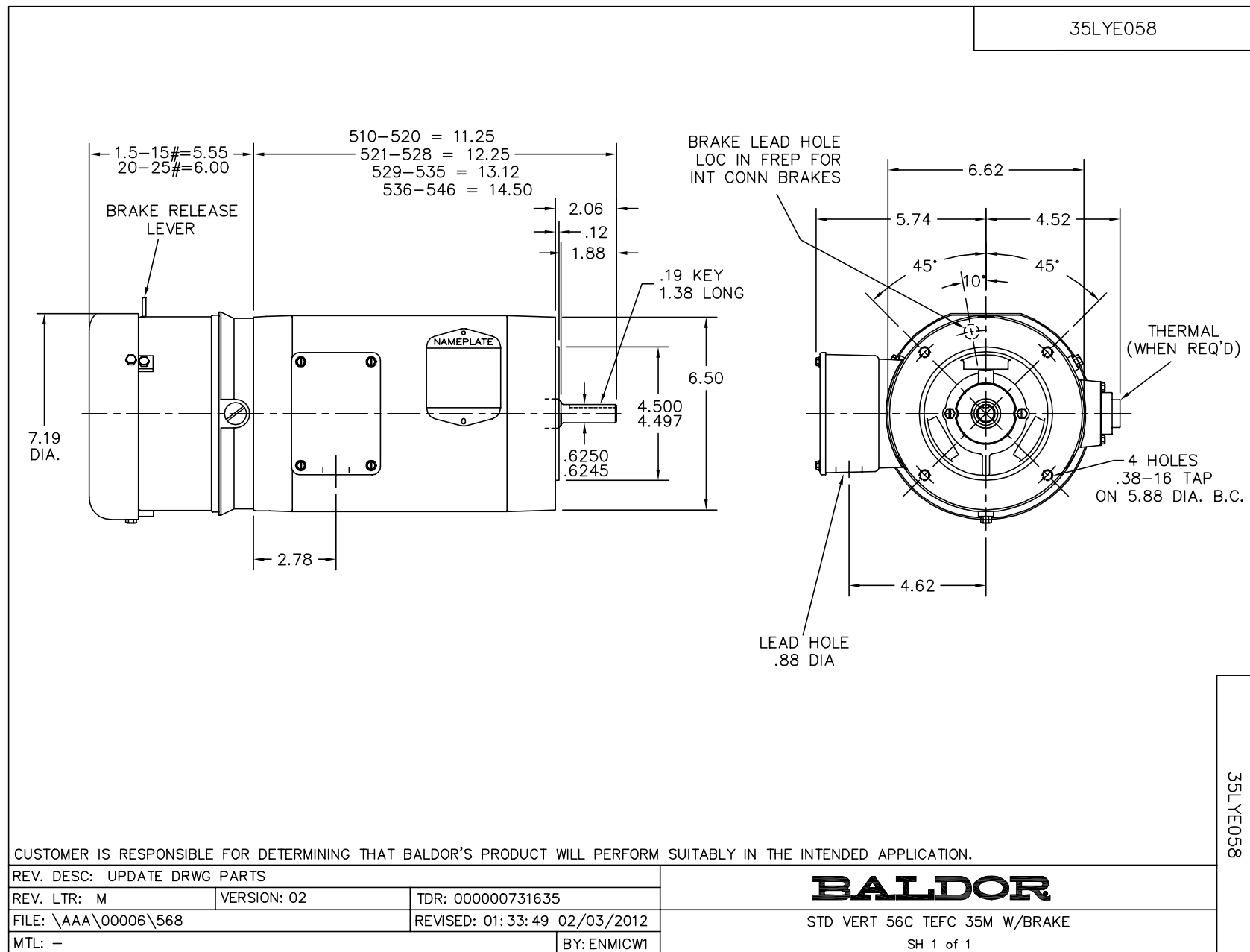
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	4.43 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5.1-4.8/2.4			Breakdown Torque	19.4 LB-FT
R.P.M.	1755			Pull-up Torque	10.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	13.8 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	19 A
Service Factor (S.F.)	1.15			No-load Current	1.59 A
NEMA Nom. Eff.	84	Power Factor	70	Line-line Res. @ 25°C	10.1 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	56°C
S.F. Amps				Temp. Rise @ S.F. Load	65°C
				Rotor inertia	0.124 LF ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

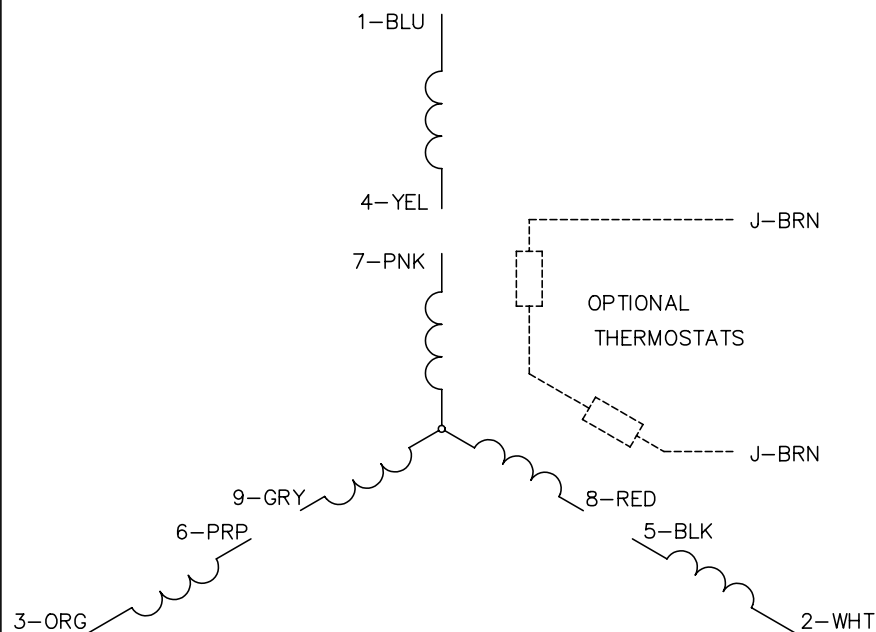
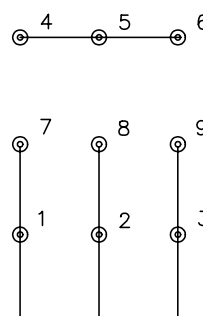
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	48	62	70	77	80	74
Efficiency	68.2	79.4	83	84	83.9	83	83.9
Speed	1792	1782	1772	1761	1749	1735	1754
Line amperes	1.64	1.8	2.04	2.35	2.71	3.12	2.57

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values

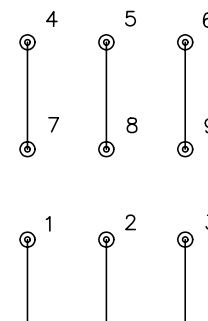




CD0005


 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

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005