BALDOR
A MEMBER OF THE ABB GROUP

BALDOR • RELIANCE

Product Information Packet

VL3513T

1.5HP,3450RPM,1PH,60HZ,143TC,3524L,TEFC

Copyright © All product information within this document is subject to Baldor Electric Company copyright © protection, unless otherwise noted.

Part Detail							
Revision:	J	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Prod. Type:**	3524L	**Elec. Spec:**	35WGY748	**CD Diagram:**	CD0001
Enclosure:	TEFC	**Mfg Plant:**		**Mech. Spec:**	35Y522	**Layout:**	35LYY522
Frame:	143TC	**Mounting:**	F1	**Poles:**	02	**Created Date:**	12-04-2009
Base:	N	**Rotation:**	R	**Insulation:**	B	**Eff. Date:**	09-16-2016
Leads:	4#16 A PH,2#18 B PH					**Replaced By:**	
Literature:		**Elec. Diagram:**					

BALDOR A MEMBER OF THE ABB GROUP

Nameplate NP1256L

CAT.NO.	VL3513T							
SPEC.	35Y522Y748G1							
HP	1.5							
VOLTS	115/230							
AMP	16/8							
RPM	3450							
FRAME	143TC		**HZ**	60			**PH**	1
SER.F.	1.15	**CODE**	J	**DES**	L	**CLASS**	B	
NEMA-NOM-EFF	70	**PF**	85					
RATING	40C AMB-CONT							
CC						**USABLE AT 208V**	8.4	
DE	6205		**ODE**	6203				
ENCL	TEFC	**SN**						

BALDOR A MEMBER OF THE ABB GROUP

Parts List

Part Number	Description	Quantity
SA188368	SA 35Y522Y748G1	1.000 EA
RA176106	RA 35Y522Y748G1	1.000 EA
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 EA
36GS1000	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
35EP3100M01	FREP TEFC 203 BRG W/GRSR (RAISED FH PADS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
NS2501A01	INSULATOR, CAPACITOR	1.000 EA
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 EA
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 EA
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3300A46	SPL FACE MTD EP-ENCL-145TC-205 BRG	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	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
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	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
35GS1030	35 GS FOR CB LID - LEXIDE	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA

BALDOR
A MEMBER OF THE ABB GROUP

Parts List (continued)

Part Number	Description	Quantity
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
SP5055A67	MODEL 35 TYPE L STATIONARY SWITCH	1.000 EA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA

BALDOR
A MEMBER OF THE ABB GROUP

AC Induction Motor Performance Data

Record # 10315 - Typical performance - not guaranteed values

Winding: 35WGY748-R001	**Type:** 3524L	**Enclosure:** TEFC

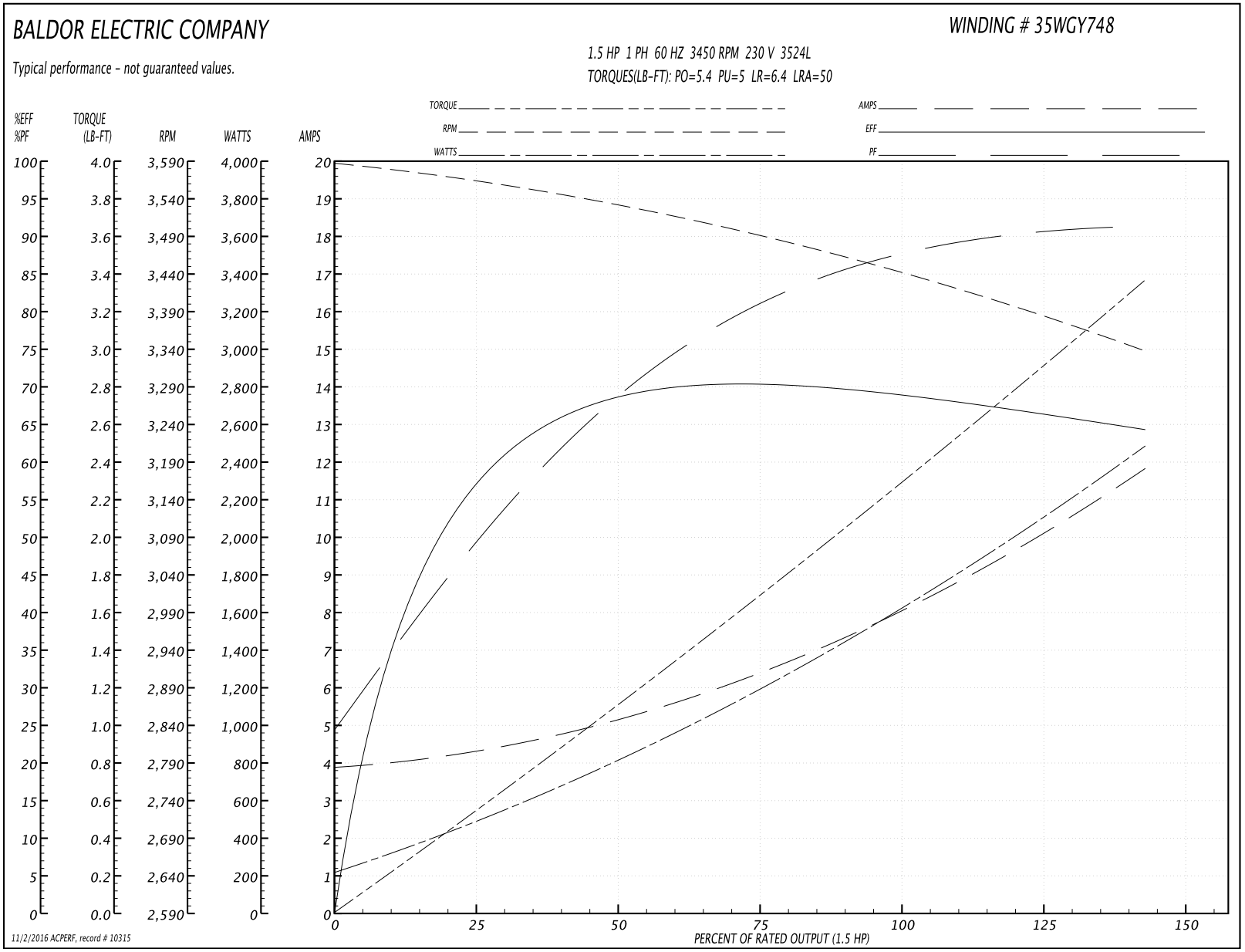
Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.25 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	16/8			Breakdown Torque	5.4 LB-FT
R.P.M.	3450			Pull-up Torque	5 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	6.4 LB-FT
NEMA Design Code	L	KVA Code	J	Starting Current	50 A
Service Factor (S.F.)	1.15			No-load Current	3.9 A
NEMA Nom. Eff.	70	Power Factor	85	Line-line Res. @ 25ºC	1.58 Ω A Ph 1.29 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	80°C
S.F. Amps				Temp. Rise @ S.F. Load	90°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	68	78	85	89	90	87
Efficiency	56	68	70	70	67	64	69.5
Speed	3560	3530	3490	3450	3395	3335	3430
Line amperes	4.3	5.2	6.3	8	9.8	11.8	9

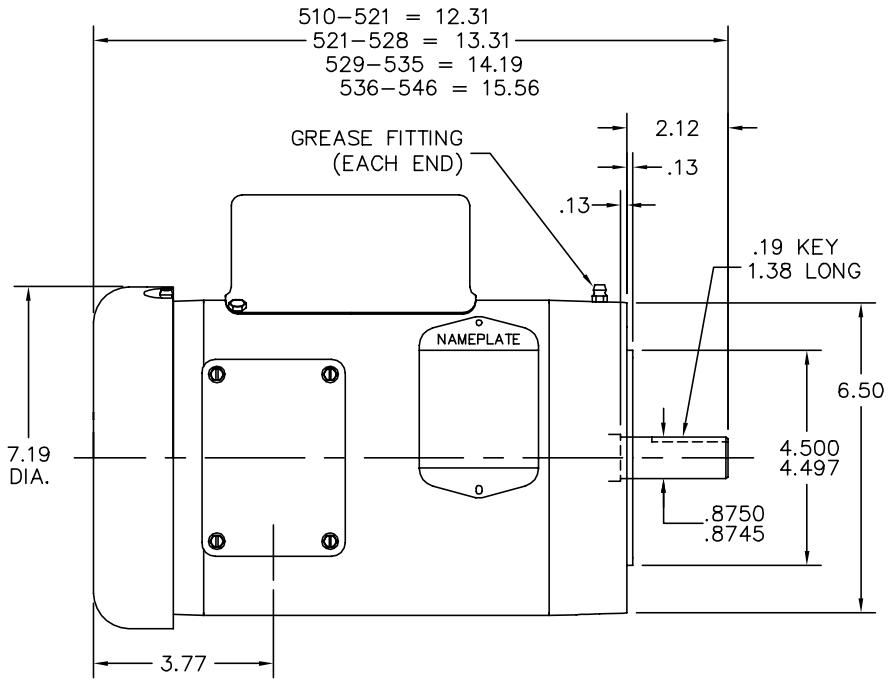
BALDOR A MEMBER OF THE ABB GROUP

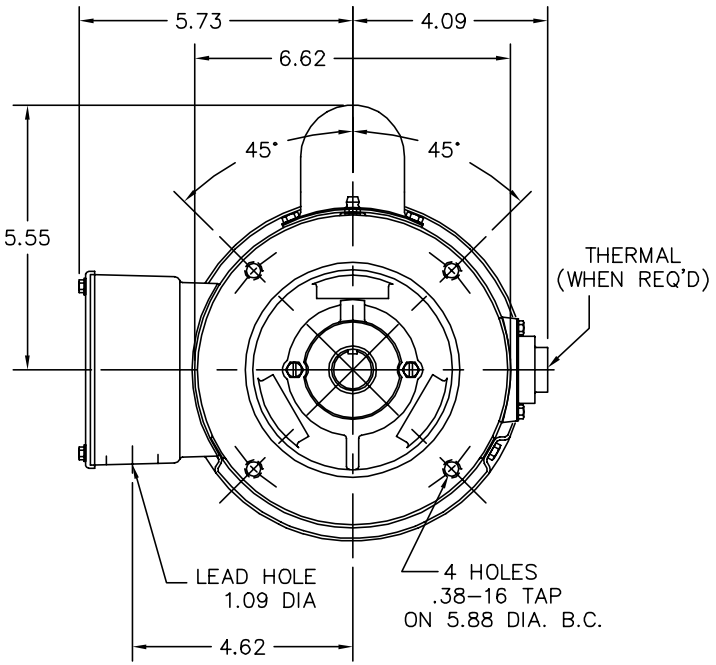
Performance Graph at 230V, 60Hz, 1.5HP Typical performance - Not guaranteed values



BALDOR
A MEMBER OF THE ABB GROUP

35LYY522





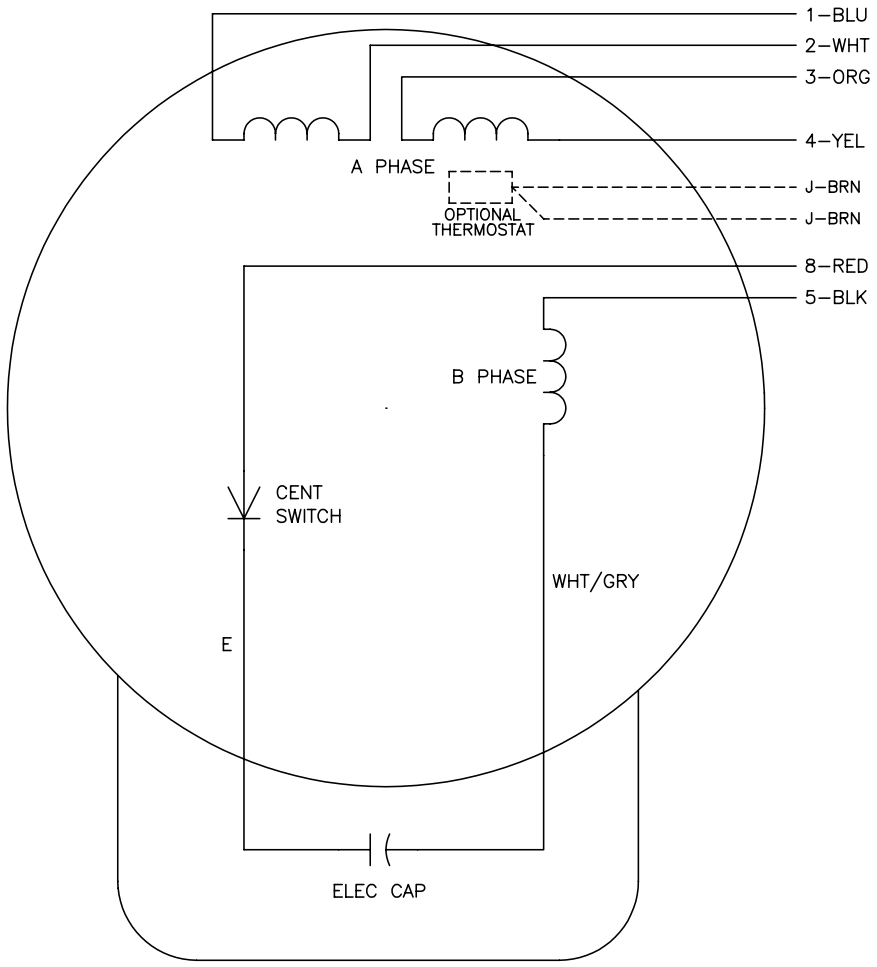
35LYY522

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

REV. DESC: NEW			BALDOR • DODGE • RELIANCE
REV. LTR: –	VERSION: 00	TDR: 000000520893	
FILE: \AAA\00167\989		REVISED: 01:11:45 12/04/2009	STD VERT 143–5TC TEFC 35L FACE MTD, 1.09 KOBX LEAD HOLE
MTL: –		BY: ENROSTO	SH 1 of 1

BALDOR A MEMBER OF THE ABB GROUP

CD0001



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	–
LOW OPP	1,3,5	2,4,8	–

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS

CD0001

BALDOR A MEMBER OF THE ABB GROUP