

BALDOR® • RELIANCE

Product Information Packet

VEM3212T

5HP,3450RPM,3PH,60HZ,182TC,3544M,OPEN,F1

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3544M	Elec. Spec:	35WGL285	CD Diagram:	CD0005
Enclosure:	OPEN	Mfg Plant:		Mech. Spec:	35Z323	Layout:	35LYZ323
Frame:	182TC	Mounting:	F1	Poles:	02	Created Date:	04-28-2015
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	11-09-2016
Leads:	9#16					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3553L

CAT.NO.	VEM3212T									
SPEC.	35Z323L285G1									
HP	5									
VOLTS	230/460									
AMP	12/6									
RPM	3450									
FRAME	182TC				HZ	60		PH	3	
SER.F.	1.15		CODE	M	DES	A		CL	F	
NEMA-NOM-EFF	86.5		PF	89						
RATING	40C AMB-CONT									
CC	010A		USABLE AT 208V					13		
DE	6206		ODE	6203						
ENCL	OPEN		SN							
VPWM INVERTER READY										
CT30-60(2:1) VT3-60(20:1)										

Parts List		
Part Number	Description	Quantity
SA300126	SA 35Z323L285G1	1.000 EA
RA287172	RA 35Z323L285G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	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
35EP3201A16	FR ENDPLATE, MACH	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP1409A07	PU ENDPLATE, MACH	1.000 EA
35AD2001	AIR BAFFLE	1.000 EA
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 EA
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	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
HW2501E16	3KEY, 1/4 SQ X 1.750	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
S/P107-000-001	SUPER E PROC'S-FS, WS & CK PLTS	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HW3001B01	BRASS CUP WASHER, FOR #8 SCREW	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A24	THRUBOLT 10-32 X 10.625	4.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
NP3553L	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA

AC Induction Motor Performance Data

Record # 53122 - Typical performance - not guaranteed values

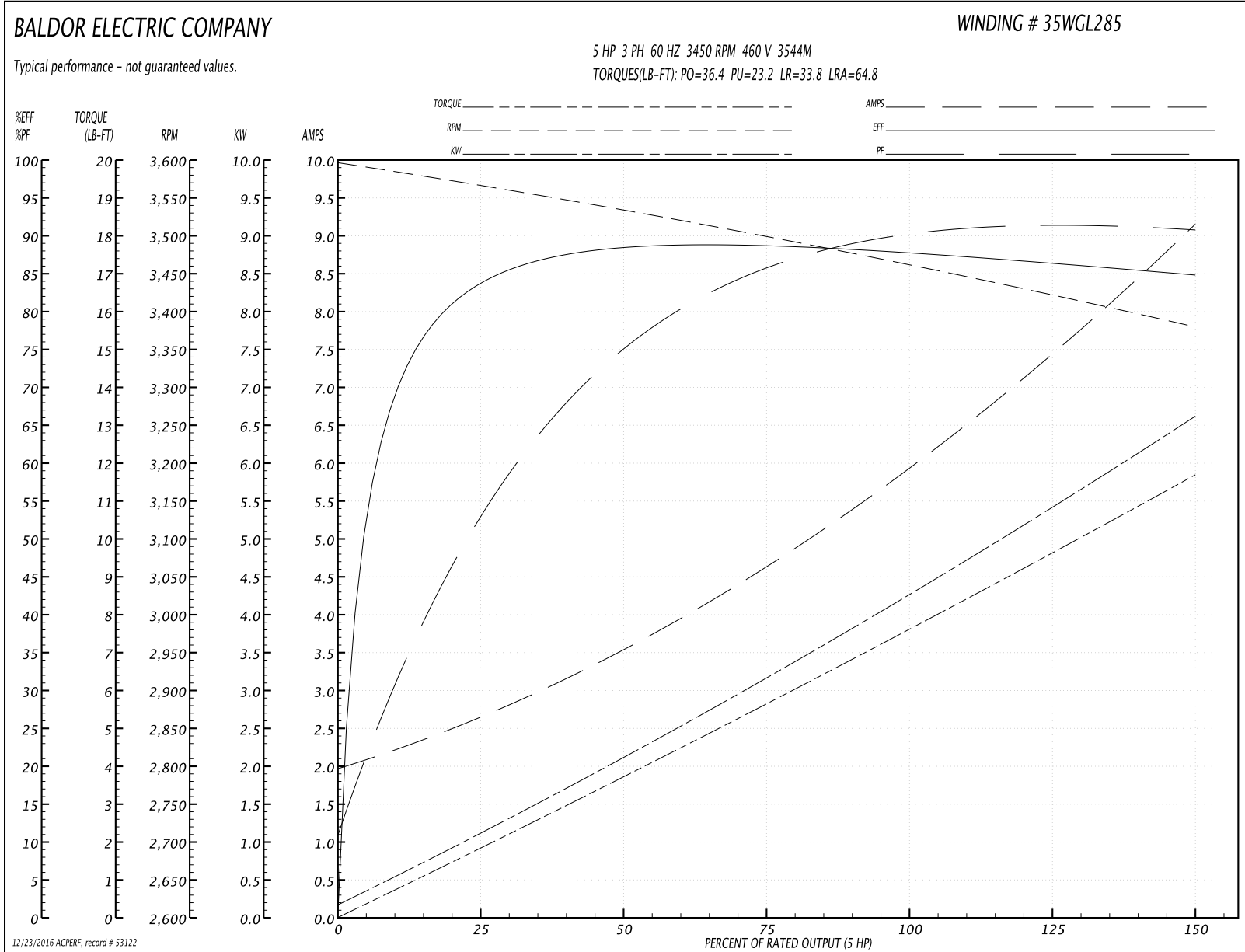
Winding: 35WGL285-R002	Type: 3544M	Enclosure: OPEN
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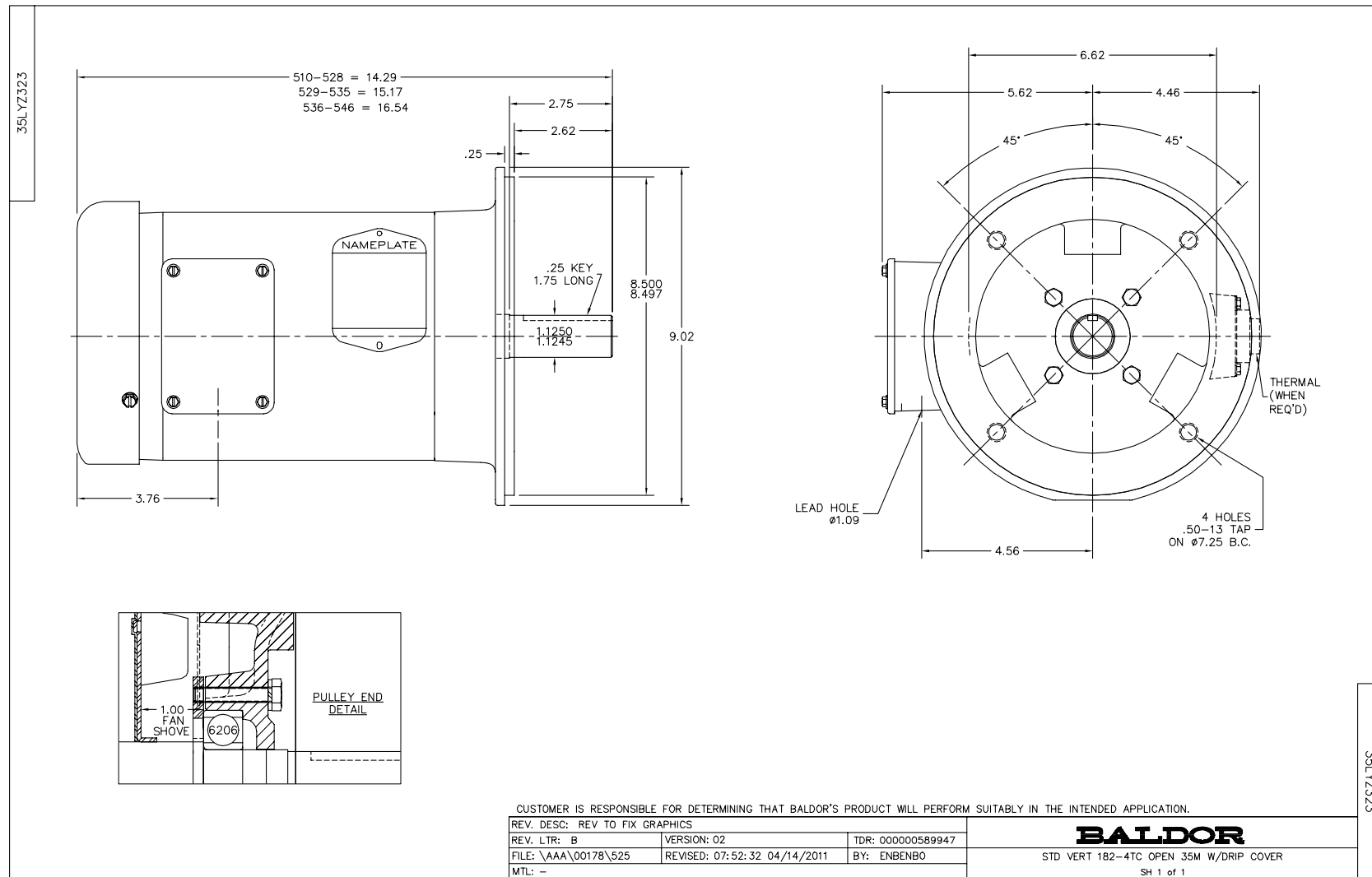
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	7.66 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	12/6			Breakdown Torque	36.4 LB-FT
R.P.M.	3450			Pull-up Torque	23.2 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	33.8 LB-FT
NEMA Design Code	A	KVA Code	M	Starting Current	64.8 A
Service Factor (S.F.)	1.15			No-load Current	2.07 A
NEMA Nom. Eff.	86.5	Power Factor	89	Line-line Res. @ 25°C	2.41 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	49°C
S.F. Amps				Temp. Rise @ S.F. Load	59°C
				Locked-rotor Power Factor	44.6
				Rotor inertia	0.122 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

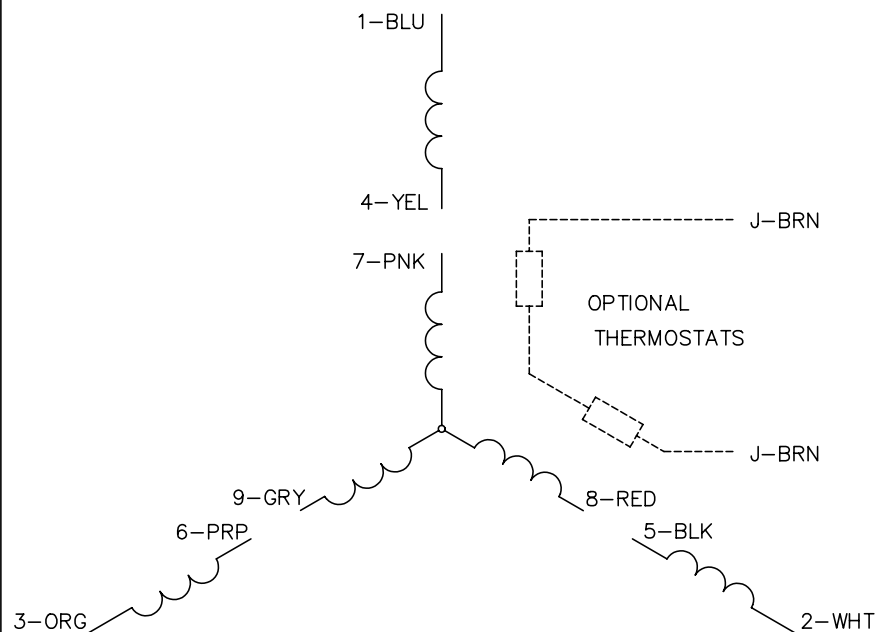
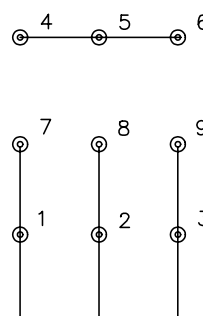
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	77	85	89	90	92	90
Efficiency	83.2	87.9	88.6	88.2	86.5	84.7	87.2
Speed	3563	3532	3499	3462	3422	3379	3438
Line amperes	2.54	3.52	4.7	6.03	7.52	9.08	6.92

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values

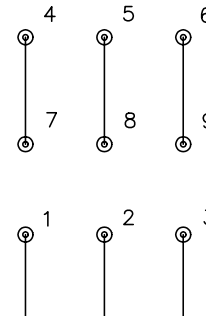




CD0005

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