

BALDOR® • RELIANCE

Product Information Packet

VENCP83580T-4

1HP,3450RPM,3PH,60HZ,143TC,0520M,TENV,F1

Part Detail							
Revision:	AC	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0520M	Elec. Spec:	05WGW634	CD Diagram:	CD0006
Enclosure:	TENV	Mfg Plant:		Mech. Spec:	05F158	Layout:	05LYF158
Frame:	143TC	Mounting:	F1	Poles:	02	Created Date:	11-26-2007
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	01-12-2017
Leads:	3#18 15" LEAD LENGTH,0#0 Dbl Dip & Bake,0#0 Phase InsulaY					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3235E

CAT.NO.	VENCP83580T-4									
SPEC.	05F158W634G1									
HP	1	TE					IP	56		
VOLTS	460									
AMP	1.3									
RPM	3450									
FRAME	143TC					HZ	60			
SER.F.	1.15					CODE	L	DES	B	
RATING	40C AMB-CONT									
SN										
DE	6205					ODE	6205			
NEMA-NOM-EFF	84					PF	88			
G.MIN.EFF	81.5					CC	010A			
T. CODE	T3C					T=	160			

PH3

CLF

Nameplate NP3186E

SPEC.	05F158W634G1		
D.E. BRG.	25BC02X30X		
O.D.E. BRG.	25BC02XP30X		
GREASE	POLYREX EM		
WEIGHT	59	# OF ROTOR BARS	20
RPM MAX	5400	MAX. KVAR	.05
BLANK			
INV.TYPE	PWM	# OF STATOR SLOTS	24
T=	160		
C HP FR	60	C HP TO	90
CT HZ FROM	6	CT HZ TO	60
VT HZ FROM	3	VT HZ TO	60
HTR-VOLTS	N/A	HTR-AMPS	N/A
HTR-WATTS		MAX. SPACE HEATER TEMP.	N/A

Parts List		
Part Number	Description	Quantity
SA165352	SA 05F158W634G1	1.000 EA
RA153758	RA 05F158W634G1	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
06CB1001A01G	CONDUIT BOX, MACH GRAY	1.000 EA
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 EA
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #8 SCREW	1.000 EA
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	1.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
35EP1102B48G	FREP TENV 205 BRG W/GRSR,REL,GRD,.25-20	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4010A01	DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .076	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
35EP1329A32G	EP ENCL 205 BRG,GRSR,RLF,NPT DRAIN,INPRO	1.000 EA
HW4601A22	INPRO SEAL, 205 BRG, VBX	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4010A01	DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .076	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
06CB1503A01G	LIPPED CONDUIT BOX LID, MACH GRAY EPOXY	1.000 EA
06GS1009	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 EA
10XN2520A12	O1/4-20X 3/4 HEX HEAD CAP	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
MJ5004A59	ADHESIVE LOCTITE #401 SURFACE INSENSITIV	0.010 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
MJ1000A73	INPRO P-80 ASSEMBLY LUB./ 1 QT. CONTAIN	0.001 QT
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LT0019A00	MOTOR NO-LOAD PERFORMANCE DATA SHEET	1.000 EA
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	3.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1025N19	WILKOFAS, 778.50, RELIANCE BLUE-GREEN	0.022 GA
LB1119N	WARNING LABEL	1.000 EA
LB1449	DIV-2/NEC WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3235E	SS IEEE841 DIV-2 UL CSA-C US EEV PREM	1.000 EA
NP3186E	SS IEEE841 INV AUX DATA INFORMATION	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 47144 - Typical performance - not guaranteed values

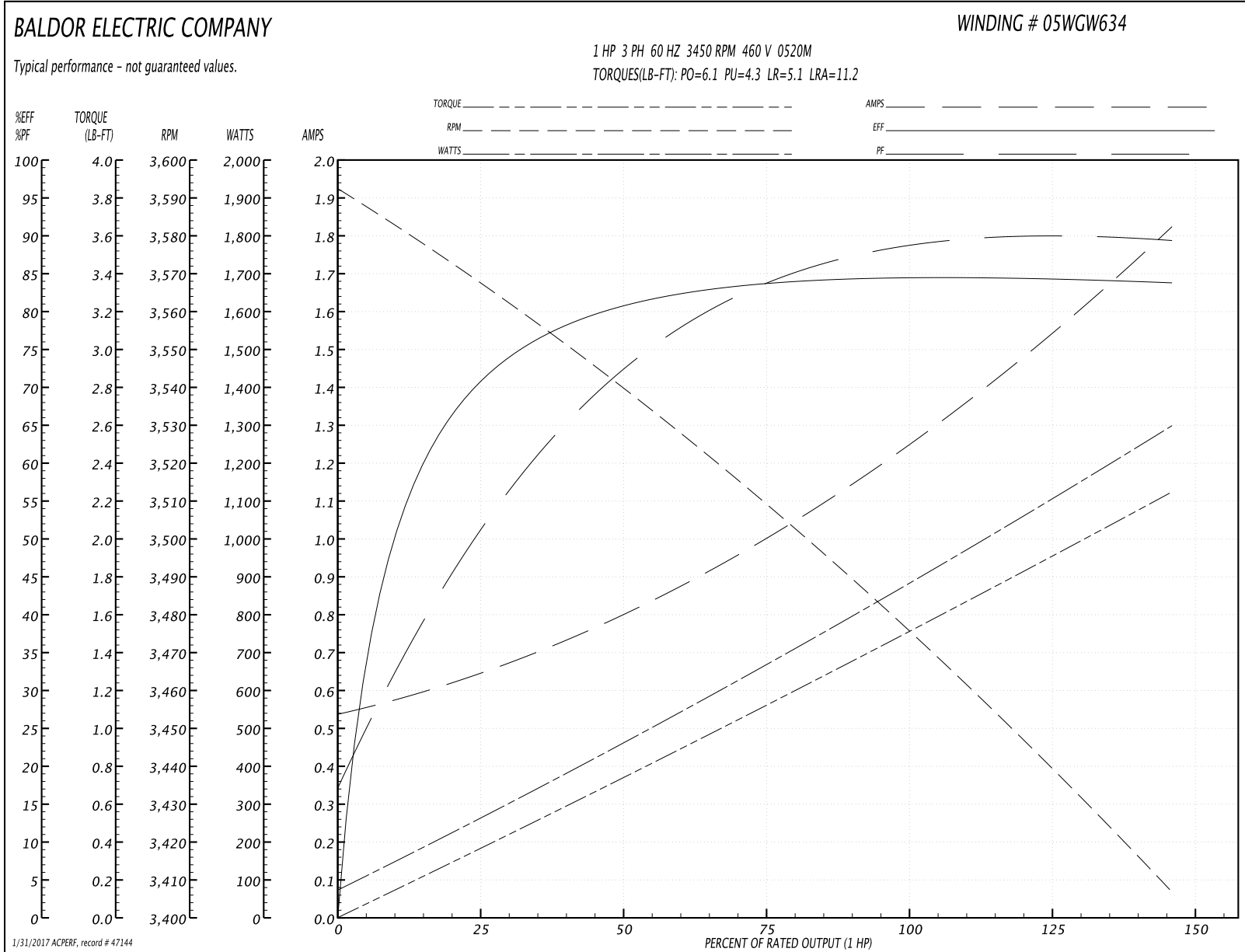
Winding: 05WGW634-R004	Type: 0520M	Enclosure: TENV
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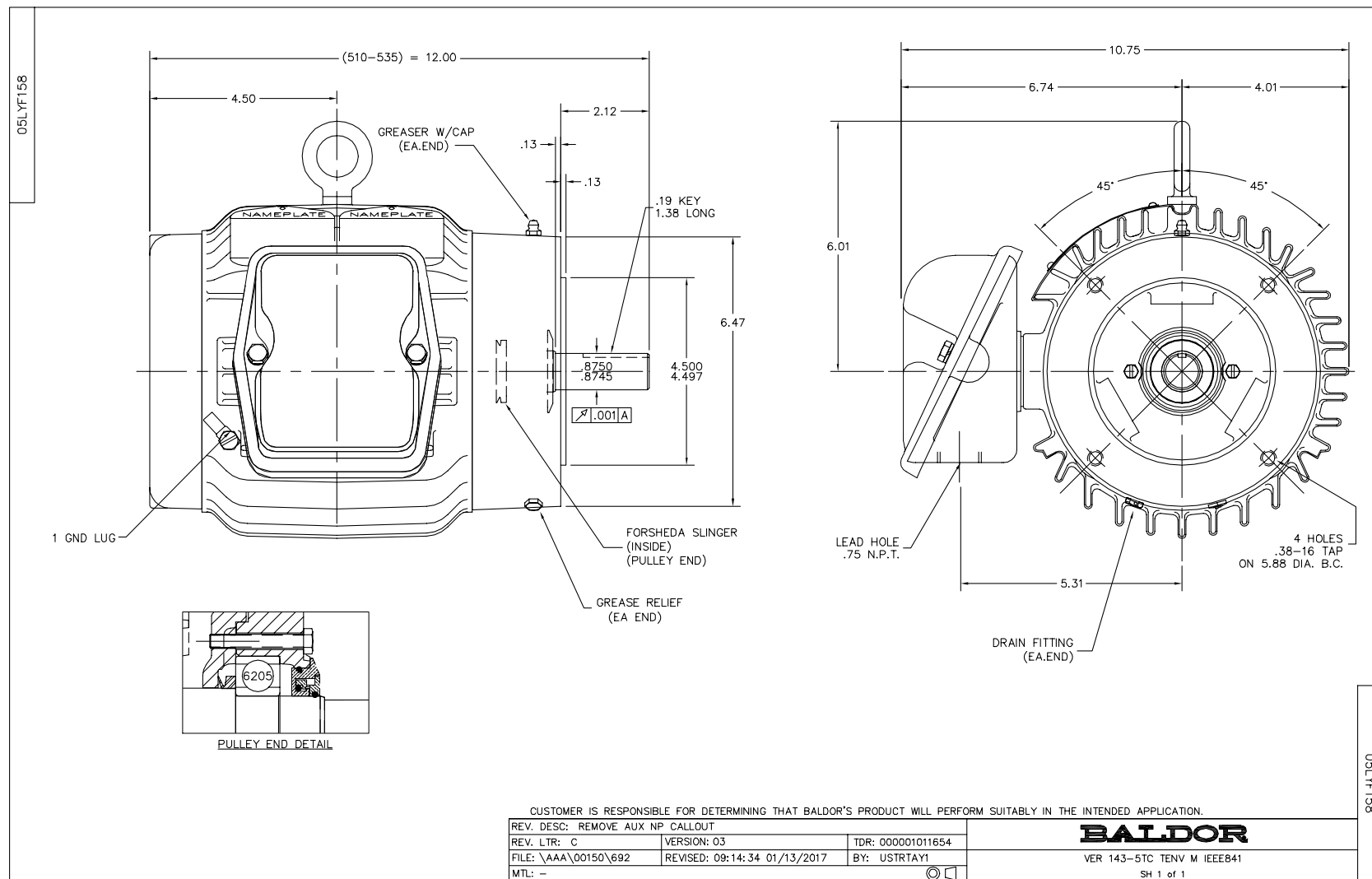
Nameplate Data				460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1			Full Load Torque	1.5 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	1.3			Breakdown Torque	6.1 LB-FT
R.P.M.	3450			Pull-up Torque	4.3 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.1 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	11.2 A
Service Factor (S.F.)	1.15			No-load Current	0.545 A
NEMA Nom. Eff.	84	Power Factor	88	Line-line Res. @ 25°C	15.2 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	50°C
S.F. Amps				Temp. Rise @ S.F. Load	57°C
				Locked-rotor Power Factor	53.2
				Rotor inertia	0.055 LB-FT ²

Load Characteristics 460 V, 60 Hz, 1 HP

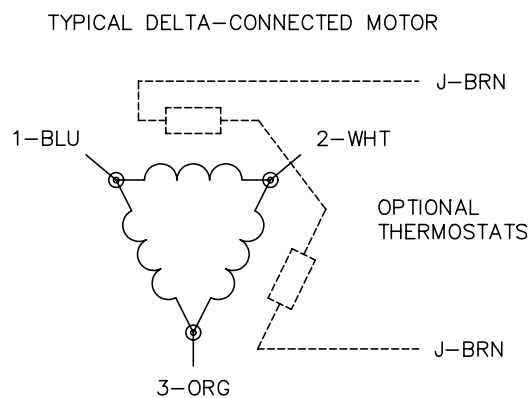
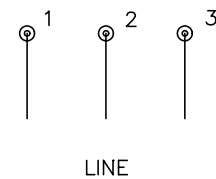
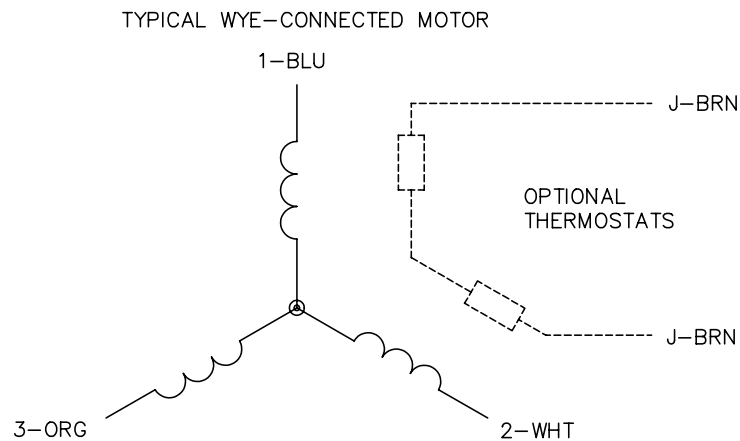
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	73	83	87	91	89	89
Efficiency	69.8	80.5	83.9	84.6	84.6	83.6	84.6
Speed	3567	3538	3509	3477	3443	3406	3457
Line amperes	0.633	0.803	1.01	1.26	1.5	1.83	1.4

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values





CD0006



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D

BY: JLP

REVISED: 01/21/99 4:02

TDR: 0171435

90000

FILE: AAA00005141

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006