

BALDOR® • RELIANCE

Product Information Packet

VM8016T

2HP,3450RPM,3PH,60HZ,145TC,0526M,TEFC,F1

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0526M	Elec. Spec:	05WGW501	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	05E533	Layout:	05LYE533
Frame:	145TC	Mounting:	F1	Poles:	02	Created Date:	06-02-2010
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	08-08-2014
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1261E									
CAT.NO.	VM8016T								
SPEC.	05E533W501H1								
HP	2								
VOLTS	208-230/460								
AMP	5.6-5.2/2.6								
RPM	3450								
FRAME	145TC	HZ			60	PH		3	
SER.F.	1.15	CODE			L	DES		B	CL F
NEMA-NOM-EFF	84	PF			88				
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V			5.6				
DE	6205	ODE			6203				
ENCL	TEFC	SN							

Parts List		
Part Number	Description	Quantity
SA197662	SA 05E533W501H1	1.000 EA
RA185045	RA 05E533W501H1	1.000 EA
06CB1000A07G	CONDUIT BOX, MACH (GRAY EPOXY).	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	003SS CUP WASHER, FOR #8 SCREW	1.000 EA
35EP1100A41G	FR ENDPLATE, MACH, GRAY EPOXY	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP1329A01G	PUEP ENCL, MACH, GRAY EPOXY (STD BA FOR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
51XN1032A18	10-32 X 1 1/8 HX WS SL SR (ESKAY)	2.000 EA
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH1000A01G	35FH1000A01 W/GRAY FLUIDIZ	1.000 EA
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	3.000 EA
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 EA
06CB1500A01G	CONDUIT BOX LID, MACH GRAY	1.000 EA
06GS1003	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

Parts List (continued)		
Part Number	Description	Quantity
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 EA
HW4600B46SP	SEAL 0.875 X 1.420 X 0.240 FACE SEALING	1.000 EA
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
MJ5001A27	32220KN GRAY SEALER	0.001 QT
LB1000	LABEL, DIRTY DUTY	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
MG1025G29	MUNSELL 4.5Y 5.3/0.7 DARK CHARCOAL GREY	0.022 GA
MG1025Z20	ACTIVATOR WILKOFAS 060.32	0.010 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
NP1261E	SS UL CSA CC	1.000 EA
36PA1000	PACK GROUP W/LB5001	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 # 178 - Typical performance - not guaranteed values

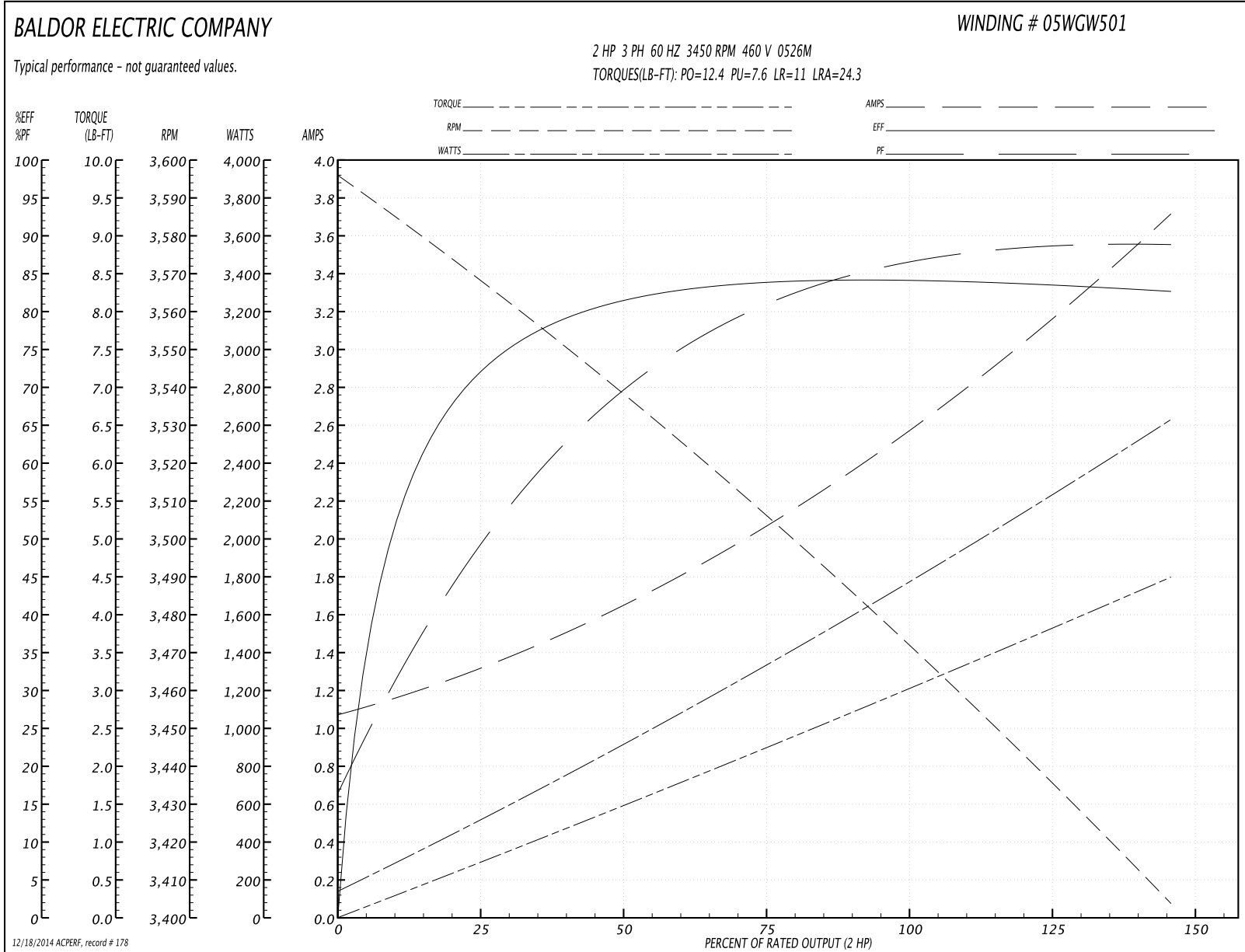
Winding: 05WGW501-R001	Type: 0526M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	3 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5.6-5.2/2.6			Breakdown Torque	12.4 LB-FT
R.P.M.	3450			Pull-up Torque	7.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	11 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	24.3 A
Service Factor (S.F.)	1.15			No-load Current	1.1 A
NEMA Nom. Eff.	84	Power Factor	88	Line-line Res. @ 25°C	7.86 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	55°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	73	80	85	89	89	0
Efficiency	72.7	81.2	83.8	84.2	83.7	82.6	0
Speed	3563	3537	3507	3475	3440	3402	0
Line amperes	1.3	1.6	2.1	2.6	3.1	3.7	2.9

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 20640 - Typical performance - not guaranteed values

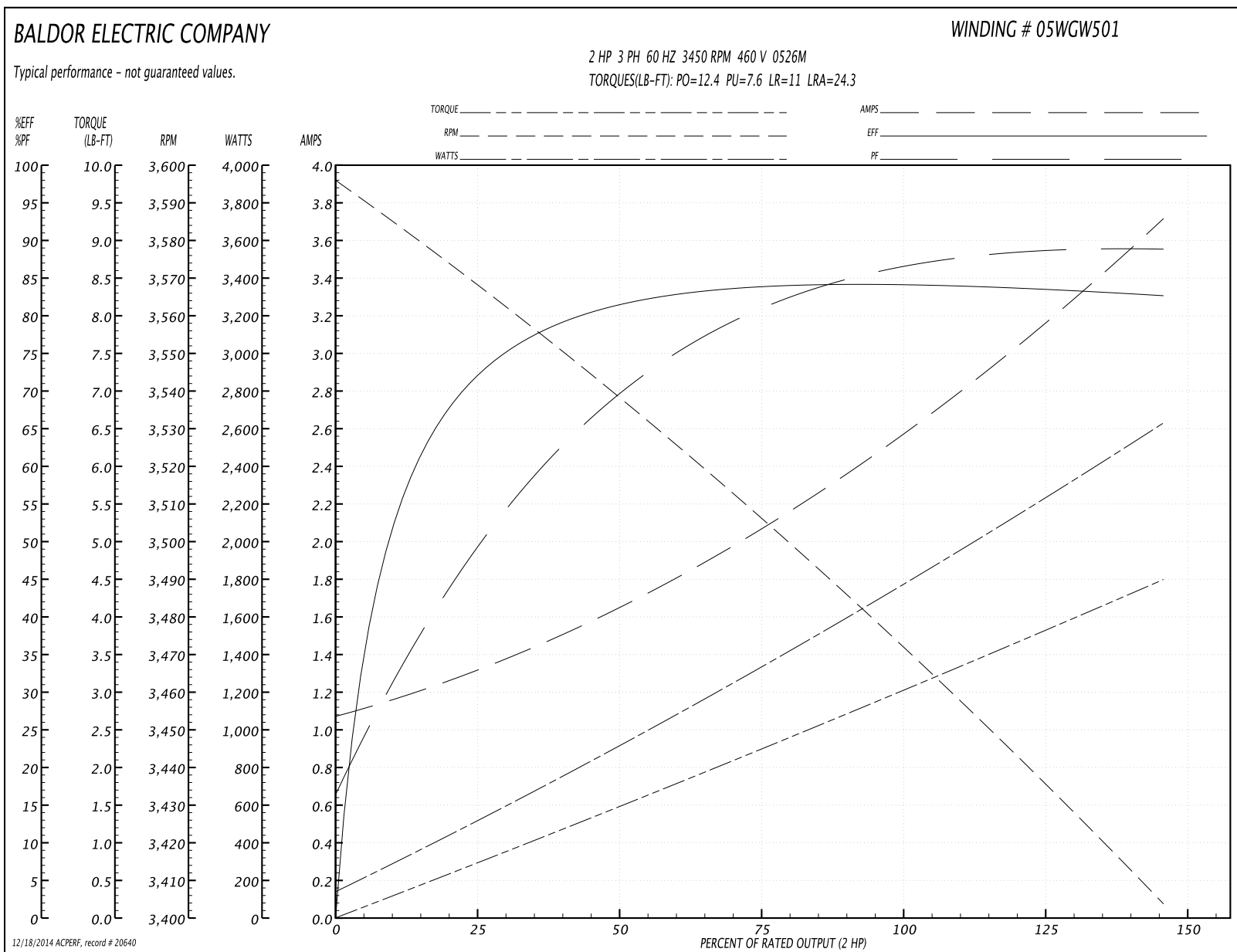
Winding: 05WGW501-R002	Type: 0526M	Enclosure: TEFC
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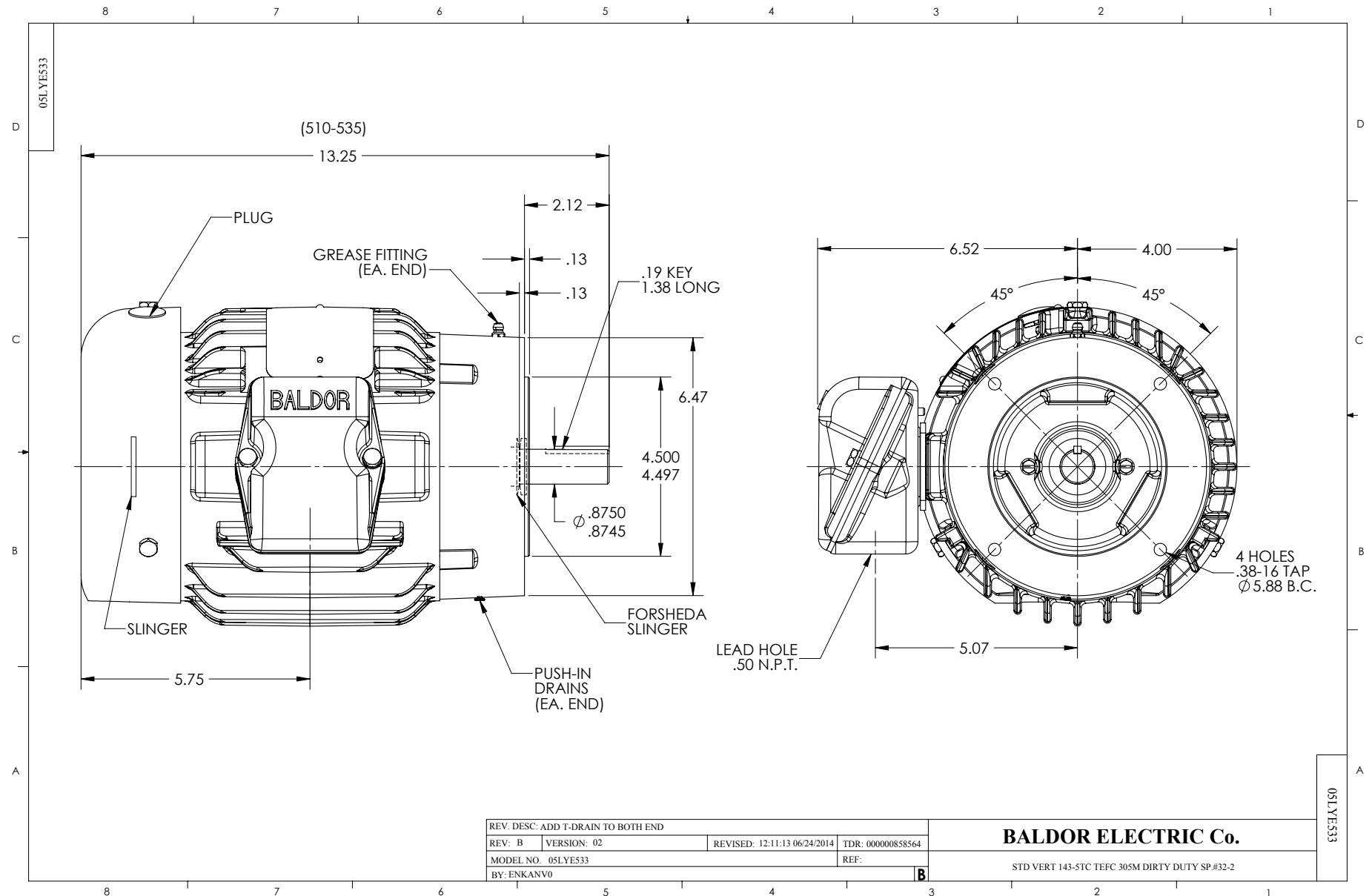
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	3 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	5.6-5.2/2.6			Breakdown Torque	12.4 LB-FT
R.P.M.	3450			Pull-up Torque	7.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	11 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	24.3 A
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NEMA Nom. Eff.	84	Power Factor	88	Line-line Res. @ 25°C	7.86 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	55°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	73	80	85	89	89	0
Efficiency	72.7	81.2	83.8	84.2	83.7	82.6	0
Speed	3563	3537	3507	3475	3440	3402	0
Line amperes	1.3	1.6	2.1	2.6	3.1	3.7	2.9

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values

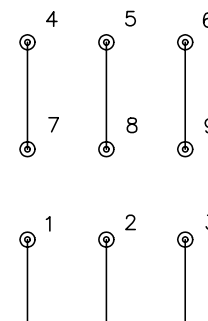




CD0005


 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