

BALDOR® • RELIANCE

Product Information Packet

CEM3770T-5

7.5HP,1770RPM,3PH,60HZ,213TC,0735M,TEFC

Part Detail							
Revision:	M	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0738M	Elec. Spec:	07WGX817	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	07H058	Layout:	07LYH058
Frame:	213TC	Mounting:	F1	Poles:	04	Created Date:	03-20-2009
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	05-16-2016
Leads:	3#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441L

CAT.NO.	CEM3770T-5										
SPEC.	07H058X817										
HP	7.5										
VOLTS	575										
AMP	7.5										
RPM	1770										
FRAME	213TC					HZ	60		PH	3	
SER.F.	1.15			CODE	J	DES	A		CL	F	
NEMA-NOM-EFF	91.7			PF	81						
RATING	40C AMB-CONT										
CC	010A					USABLE AT 208V					
DE	6307					ODE	6206				
ENCL	TEFC			SN							
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1)											

Parts List		
Part Number	Description	Quantity
SA180779	SA 07H058X817	1.000 EA
RA168731	RA 07H058X817	1.000 EA
37FN3002C01	EXFN, PLASTIC, 6.00 OD, 1.155 ID	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
09CB3002	CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30	1.000 EA
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 EA
37FE1100A41	FR ENDPLATE ASSEMBLY FOR ROUTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37PE1300A10	PUEP ASSEMBLY FOR ROUTING	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
07FH4007	PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
09CB3501	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
09GS1013	09 GS FOR 09CB3501 LID - LEXIDE	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.036 GA
HA3104A32	THRUBOLT- 5/16-18 X12.750	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3441L	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA
07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 26661 - Typical performance - not guaranteed values

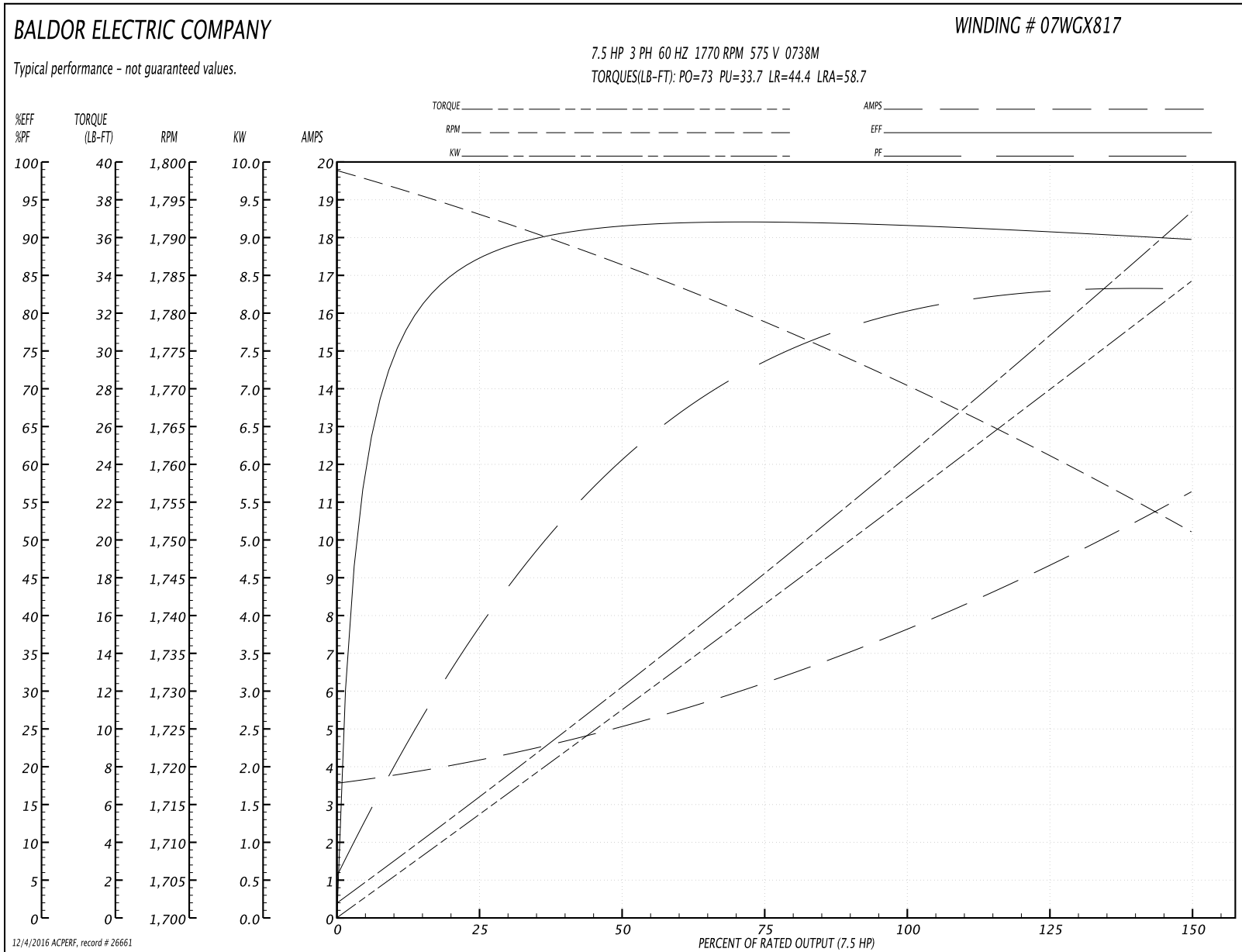
Winding: 07WGX817-R001	Type: 0738M	Enclosure: TEFC
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Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	7.5			Full Load Torque	22.1 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	7.5			Breakdown Torque	73 LB-FT
R.P.M.	1770			Pull-up Torque	33.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	44.4 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	58.7 A
Service Factor (S.F.)	1.15			No-load Current	3.66 A
NEMA Nom. Eff.	91.7	Power Factor	81	Line-line Res. @ 25°C	2.23 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	42°C
S.F. Amps				Temp. Rise @ S.F. Load	51°C
				Locked-rotor Power Factor	37.9
				Rotor inertia	0.934 LB-FT ²

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	73	79	82	84	82
Efficiency	86.9	91.4	92.2	91.7	90.9	89.7	90.9
Speed	1793	1786	1779	1771	1761	1751	1764
Line amperes	4.07	4.98	6.23	7.7	9.4	11.2	8.58

Performance Graph at 575V, 60Hz, 7.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 44991 - Typical performance - not guaranteed values

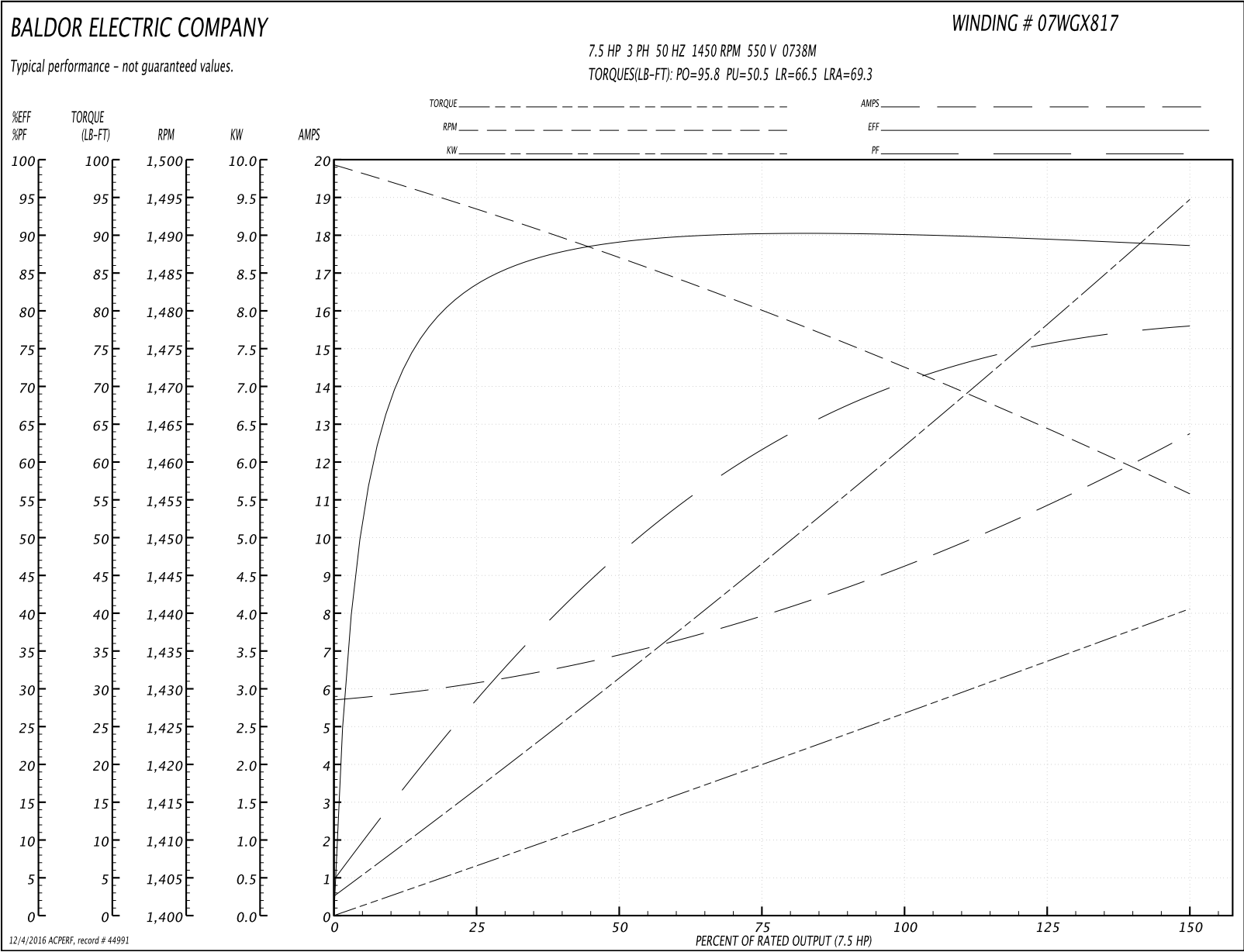
Winding: 07WGX817-R001	Type: 0738M	Enclosure: TEFC
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Nameplate Data				550 V, 50 Hz: Single Voltage Motor	
Rated Output (HP)	7.5			Full Load Torque	26.6 LB-FT
Volts	550			Start Configuration	direct on line
Full Load Amps	9.1			Breakdown Torque	95.8 LB-FT
R.P.M.	1450			Pull-up Torque	50.5 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	66.5 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	69.3 A
Service Factor (S.F.)	1.15			No-load Current	5.77 A
NEMA Nom. Eff.	89.5	Power Factor	71	Line-line Res. @ 25°C	2.23 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	56°C
S.F. Amps				Temp. Rise @ S.F. Load	67°C
				Locked-rotor Power Factor	44.1
				Rotor inertia	0.934 LB-FT2

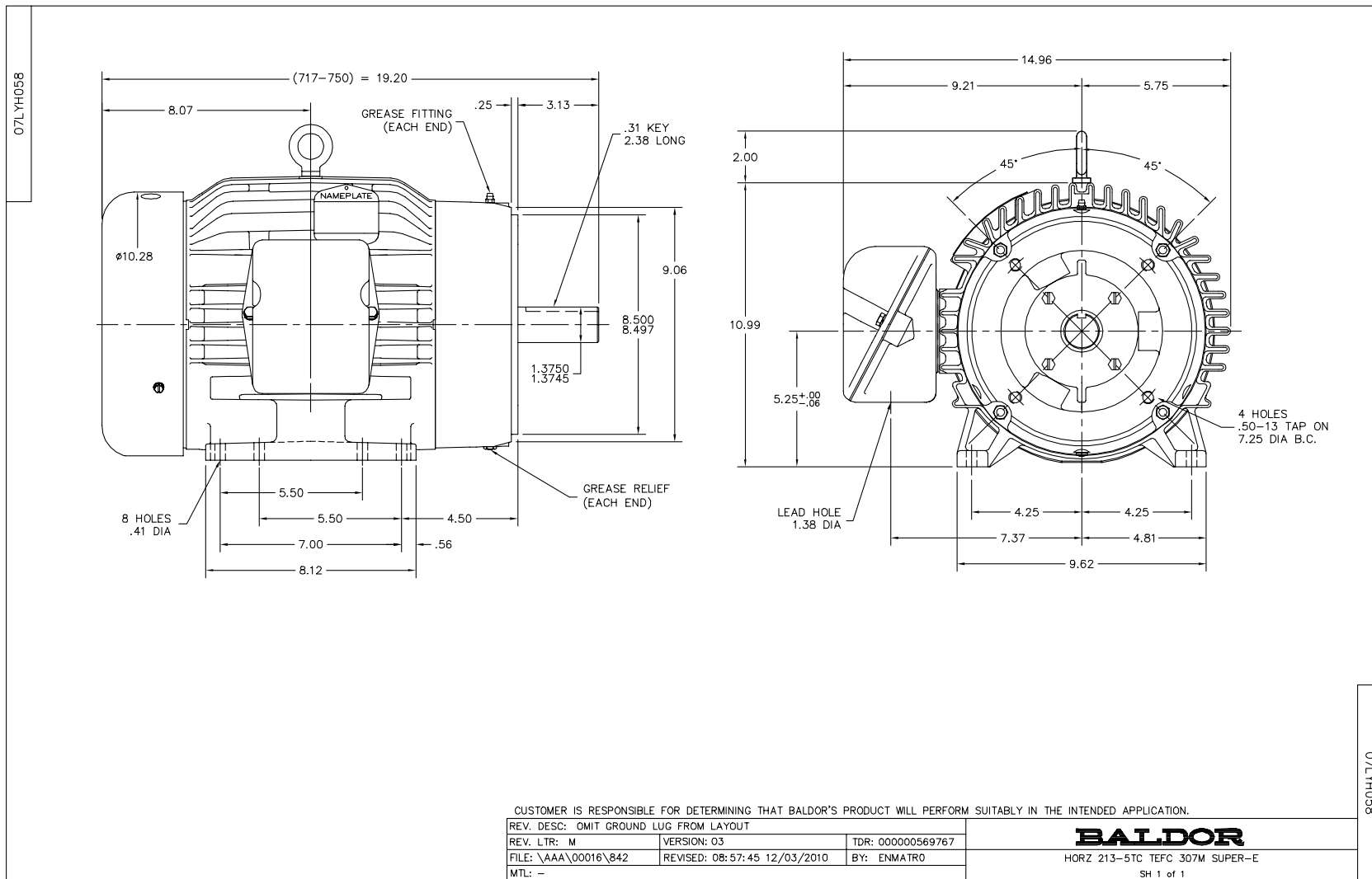
Load Characteristics 550 V, 50 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	48	61	70	75	78	74
Efficiency	83.2	89.2	90.1	90.2	89.6	88.6	89.4
Speed	1494	1487	1480	1473	1464	1456	1466
Line amperes	6.09	6.83	7.9	9.29	10.9	12.7	10.1

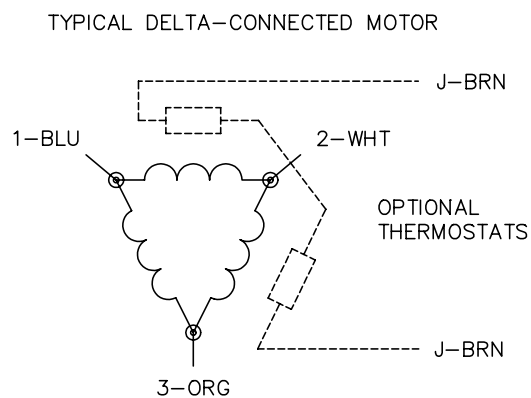
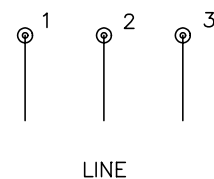
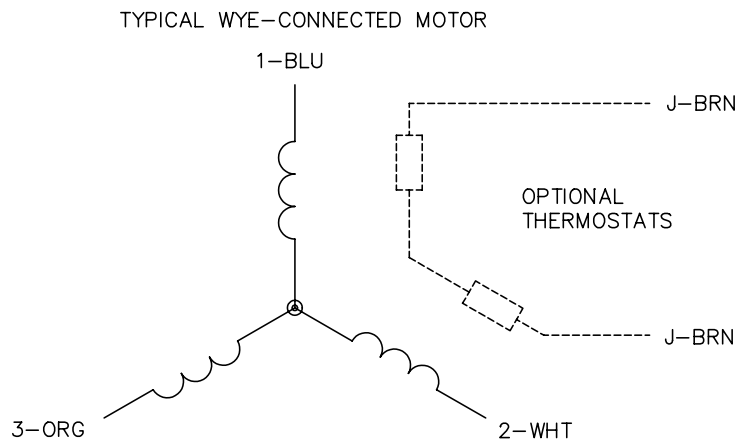
Performance Graph at 550V, 50Hz, 7.5HP Typical performance - Not guaranteed values



12/4/2016 ACPERF, record # 44991



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

9000D

FILE: AAA00005141

MDL: -

MTL: -

BALDOR ELECTRIC Co.

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

CD0006