

BALDOR® • RELIANCE

Product Information Packet

EM4108T-8

30HP,3520RPM,3PH,60HZ,286TS,0948M,TEFC,F

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	0948M	Elec. Spec:	09WGZ594	CD Diagram:	CD0695
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	09F629	Layout:	09LYF629
Frame:	286TS	Mounting:	F1	Poles:	02	Created Date:	04-27-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-26-2017
Leads:	6#6					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3443L

CAT.NO.	EM4108T-8		P/N			ENCLOSURE	TEFC	
SPEC.	09F629Z594G1	CC	010A	FRAME	286TS	S/N		
HP	30		CLASS	F	HZ	60		
RPM	3520		PH	3	DES	A		
VOLT	200		KVA-CODE	H		ODE BRG	6208	DE BRG
AMP	76		USABLE AT 208V					
RATING	40C AMB-CONT		NEMA-NOM-EFF		91.7	GREASE		
PF	91	SER.F.	1.15	VPWM INVERTER READY				
HTR-VOLTS		HTR-AMPS		MAX. SPACE HEATER TEMP.				

Parts List		
Part Number	Description	Quantity
SA194172	SA 09F629Z594G1	1.000 EA
RA181762	RA 09F629Z594G1	1.000 EA
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.500 ID	1.000 EA
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 EA
10CB3000SP	STD KO BOX MODEL 310,312,314 MTRS W/2.00	1.000 EA
12GS1000SP	GASKET	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA
WD1000B17	T&B CX35TN TERMINAL	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	1.000 EA
09FE1100A14	FREP ASSEMBLY, 09EP1100A14	1.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
09EP1116A01	PU ENDPLATE, MACH	1.000 EA
HA3113A15	THRUBOLT 3/8-16 X 18.875 W/3.50 THD LENG	4.000 EA
09FH4000SP	FAN COVER, STAMPED	1.000 EA
HA2081A05	SPACER TUBE, 309 FAN HSG, 2.00 LONG	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
10GS1000SP	GASKET, CONDUIT BOX LID	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 EA
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.080 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0695	CONNECTION LABEL	1.000 EA
NP3443L	SS SUPER-E UL CSA-EEV PREM CC	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA

Accessories		
Part Number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 31027 - Typical performance - not guaranteed values

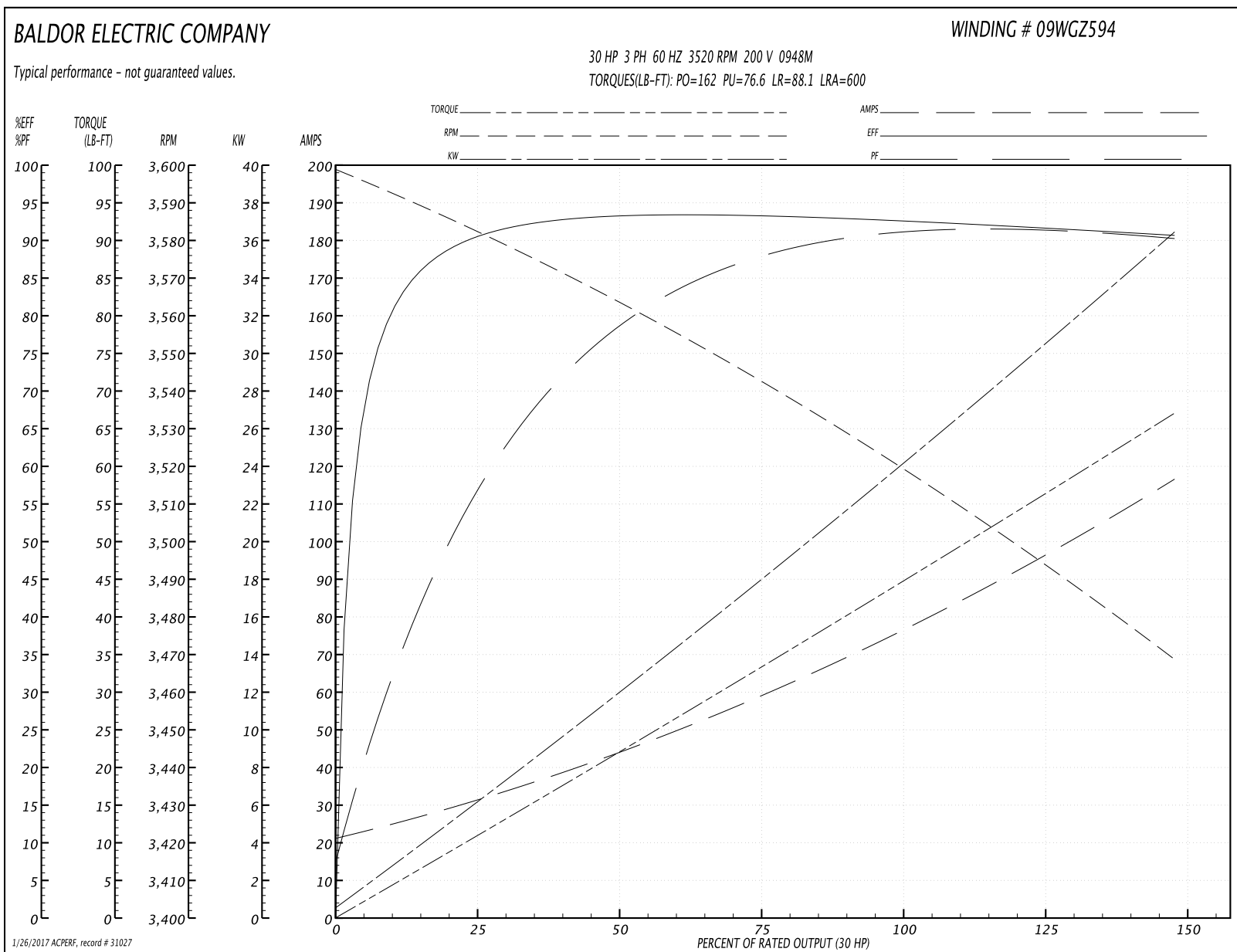
Winding: 09WGZ594-R001	Type: 0948M	Enclosure: TEFC
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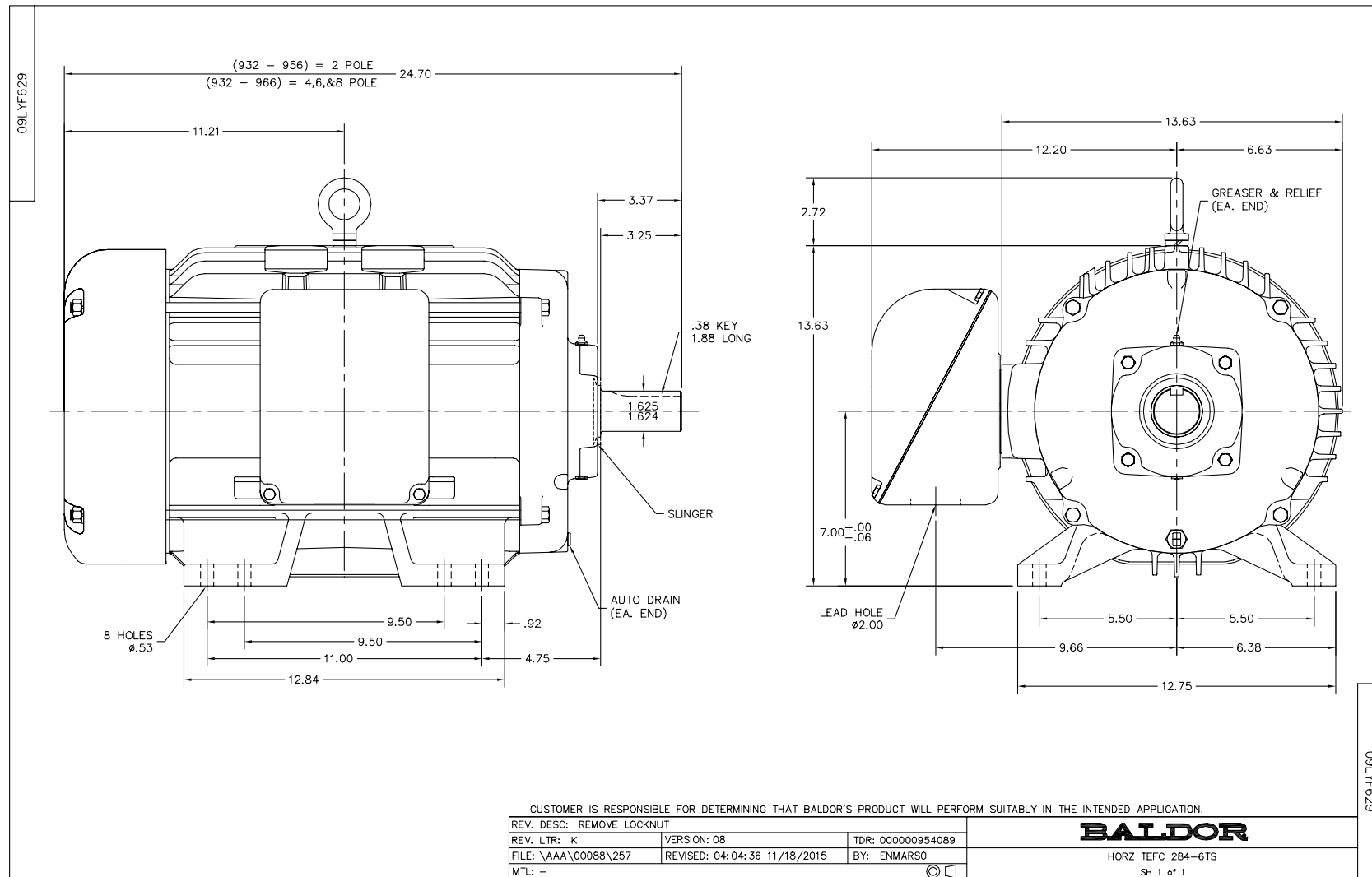
Nameplate Data				200 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	30			Full Load Torque	44.7 LB-FT
Volts	200			Start Configuration	direct on line
Full Load Amps	76			Breakdown Torque	162 LB-FT
R.P.M.	3520			Pull-up Torque	76.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	88.1 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	600 A
Service Factor (S.F.)	1.15			No-load Current	22 A
NEMA Nom. Eff.	91.7	Power Factor	91	Line-line Res. @ 25°C	0.0511 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	80°C
S.F. Amps				Temp. Rise @ S.F. Load	99°C
				Locked-rotor Power Factor	28
				Rotor inertia	1.23 LB-FT ²

Load Characteristics 200 V, 60 Hz, 30 HP

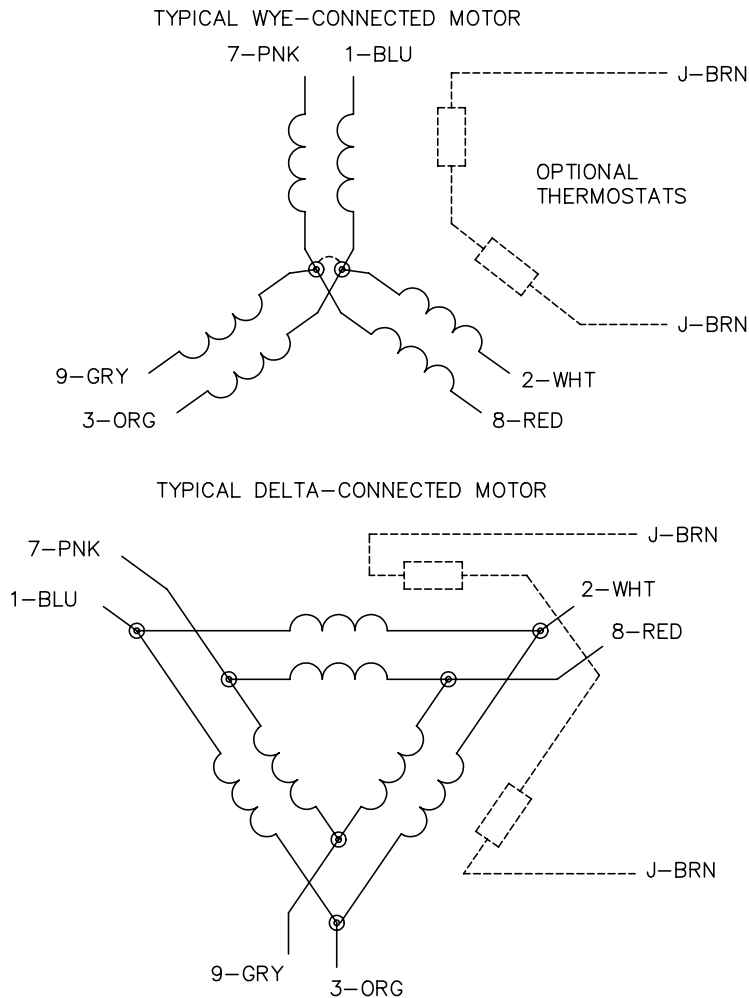
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	80	87	91	90	91	90
Efficiency	90	93.2	93	92.7	92	90.5	92.3
Speed	3582	3563	3542	3519	3496	3468	3505
Line amperes	30.4	43.9	60	76.5	96.5	116	88.5

Performance Graph at 200V, 60Hz, 30.0HP Typical performance - Not guaranteed values

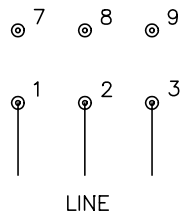




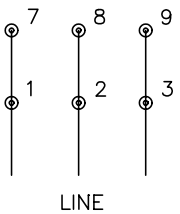
CD0695



START CONNECTION



RUN CONNECTION



- NOTES:
1. MOTOR MAY BE 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 ALWAYS BE NUMBERED AS SHOWN.

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
9690D0		FILE: AAA00005151	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>