

BALDOR® • RELIANCE 

Product Information Packet

EM4108T-8

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

Part Detail							
Revision:	U	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGZ594	CD Diagram:	CD0695	Mfg Plant:	
Mech. Spec:	09F629	Layout:	09LYF629	Poles:	02	Created Date:	04-27-2010
Base:	RG	Eff. Date:	02-25-2022	Leads:	6#6		

Specs			
Catalog Number:	EM4108T-8	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Ready
Frame:	286TS	KVA Code:	H
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	30.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 6 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	200.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	0948M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	91
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

Current @ Voltage:	76.000 A @ 200.0 V	Shaft Rotation:	Reversible
Design Code:	A	Shaft Slinger Indicator:	Shaft Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Part Winding
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3443L										
CAT.NO.	EM4108T-8				CUST. P/N				ENCL	TEFC
SPEC.	09F629Z594G1		CC	010A	FRAME	286TS		SER.NO.		
HP	30		CLASS	F	HZ	60				
R.P.M.	3520		PH	3	DES	A				
VOLTS	200		CODE	H	ODE BRG	6208		DE BRG	6311	
AMPS	76		USABLE AT 208V							
RATING	40C AMB-CONT		NEMA NOM. EFF.	91.7		GREASE	POLYREX EM			
P.F.	91		SER.F.	1.15		VPWM INVERTER READY				
HTR-VOLTS			HTR-AMPS			HTR-WATTS				

AC Induction Motor Performance Data

Record # 31027

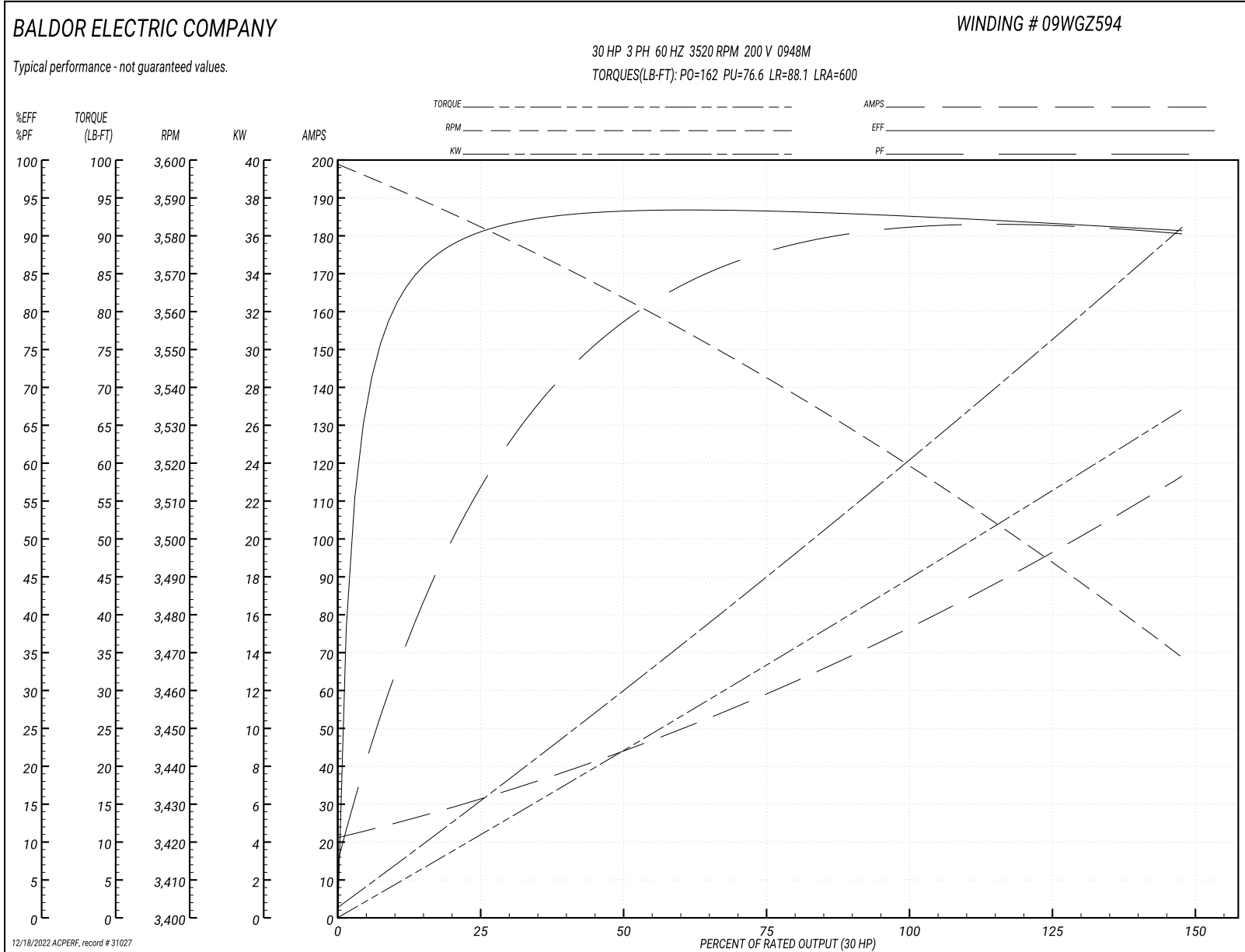
Typical performance - not guaranteed values

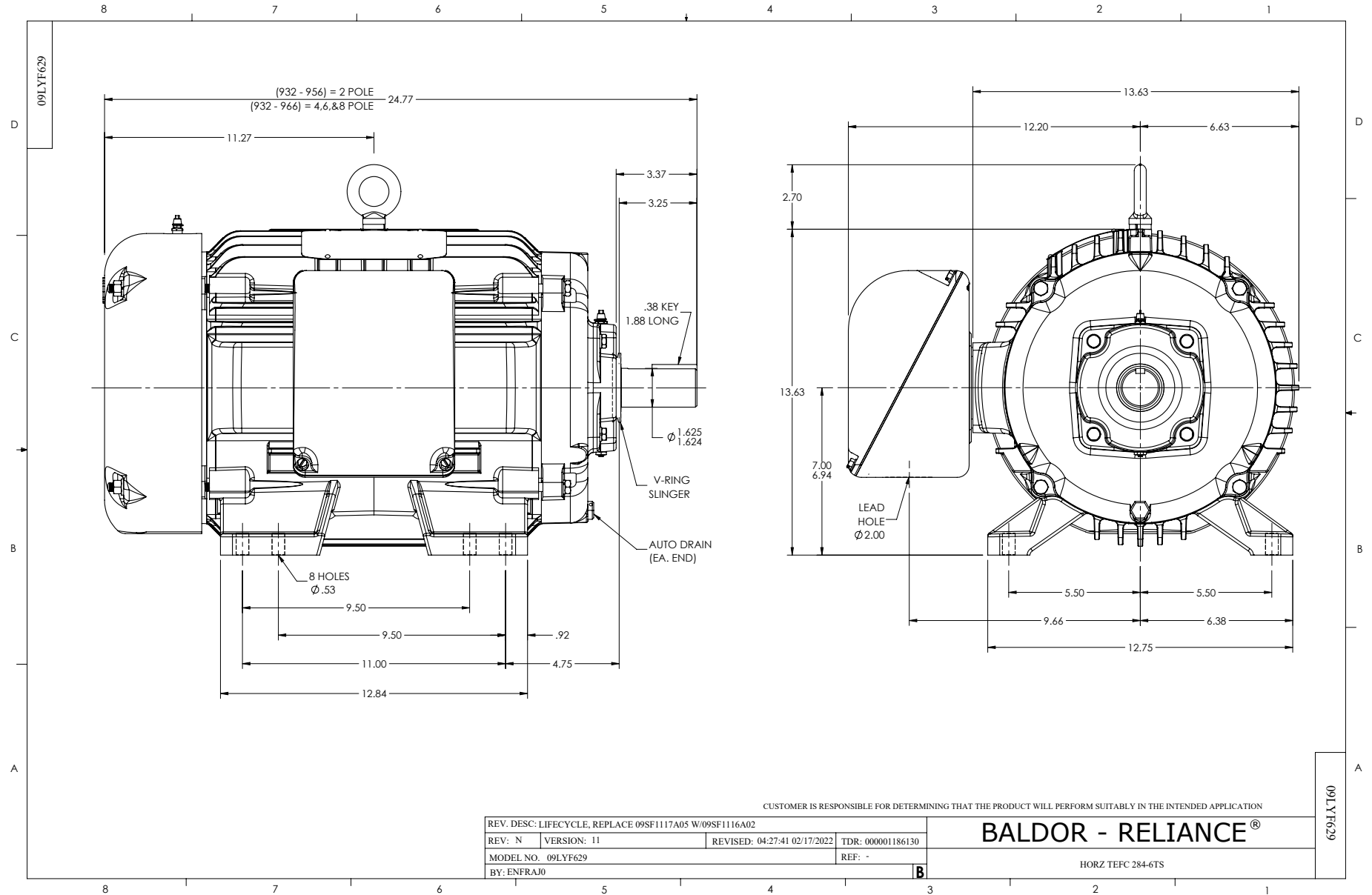
Winding: 09WGZ594-R001		Type: 0948M	Enclosure: TEFC
Nameplate Data		200 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	30	Full Load Torque	44.7 LB-FT
Volts	200	Start Configuration	direct on line
Full Load Amps	76	Breakdown Torque	162 LB-FT
R.P.M.	3520	Pull-up Torque	76.6 LB-FT
Hz	60 Phase	Locked-rotor Torque	88.1 LB-FT
NEMA Design Code	A KVA Code	Starting Current	600 A
Service Factor (S.F.)	1.15	No-load Current	22 A
NEMA Nom. Eff.	91.7 Power Factor	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

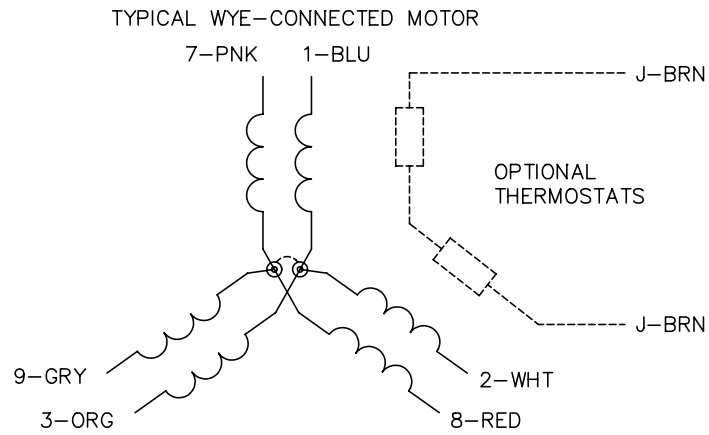
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	80	87	91	90	91	90
Efficiency	90	93.2	93	92.7	92	90.5	92.3
Speed	3582	3563	3542	3519	3496	3468	3505
Line amperes	30.4	43.9	60	76.5	96.5	116	88.5

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

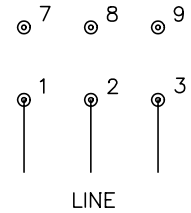




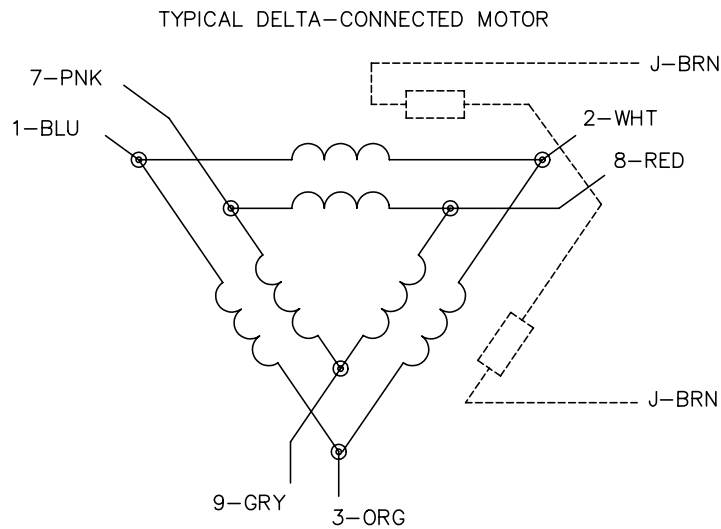
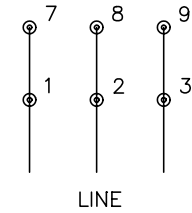
CD0695



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.

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

CD0695