

ABB BALDOR RELIANCE III

Customer information packet

EM4108T-8

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

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	286TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	76.000 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	76.0 a
Insulation Class	F

Part Detail

Revision	AB
Type	AC
Mech. spec.	09F629
Base	
Status	PRD/A
Elec. spec.	09WGZ594
Layout	09LYF629
Eff. date	08-17-2026
CD Diagram	CD0695
Poles	02
Leads	6#6
Proprietary	False
Created date	04-27-2010

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0948M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.77 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
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												
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										

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	
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-FT2	

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

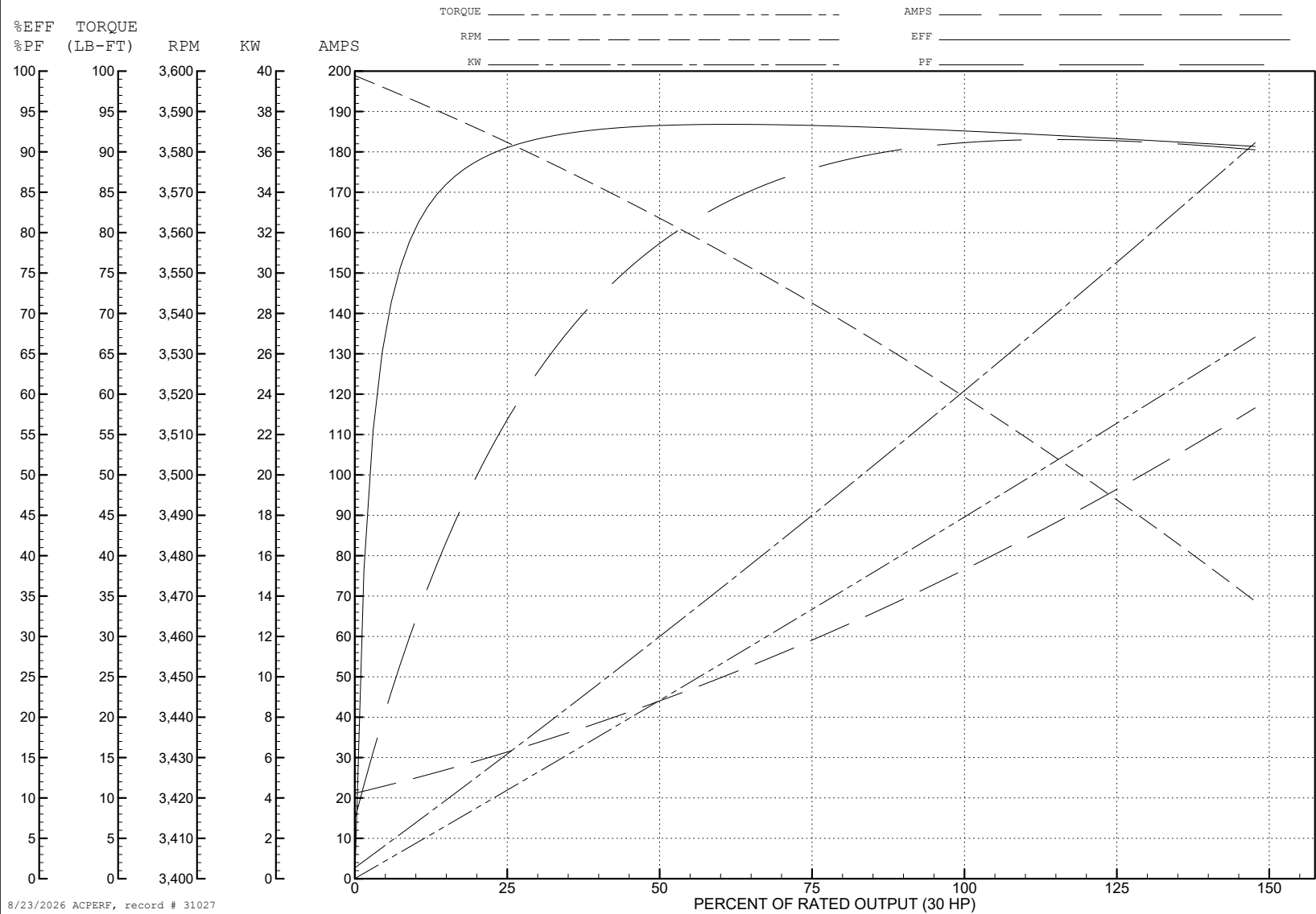
ABB Motors and Mechanical Inc.

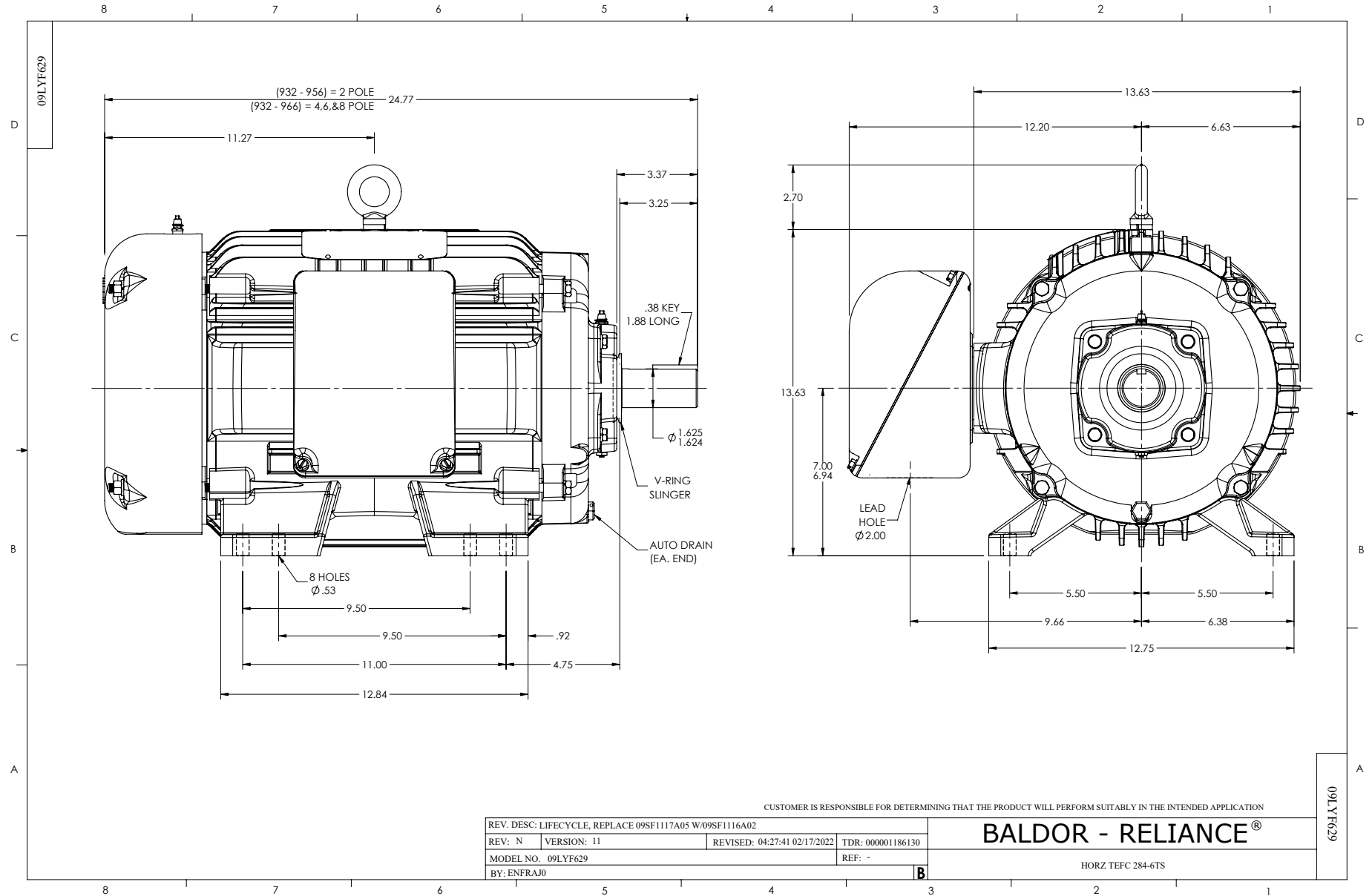
WINDING # 09WGZ594

Typical performance - not guaranteed values.

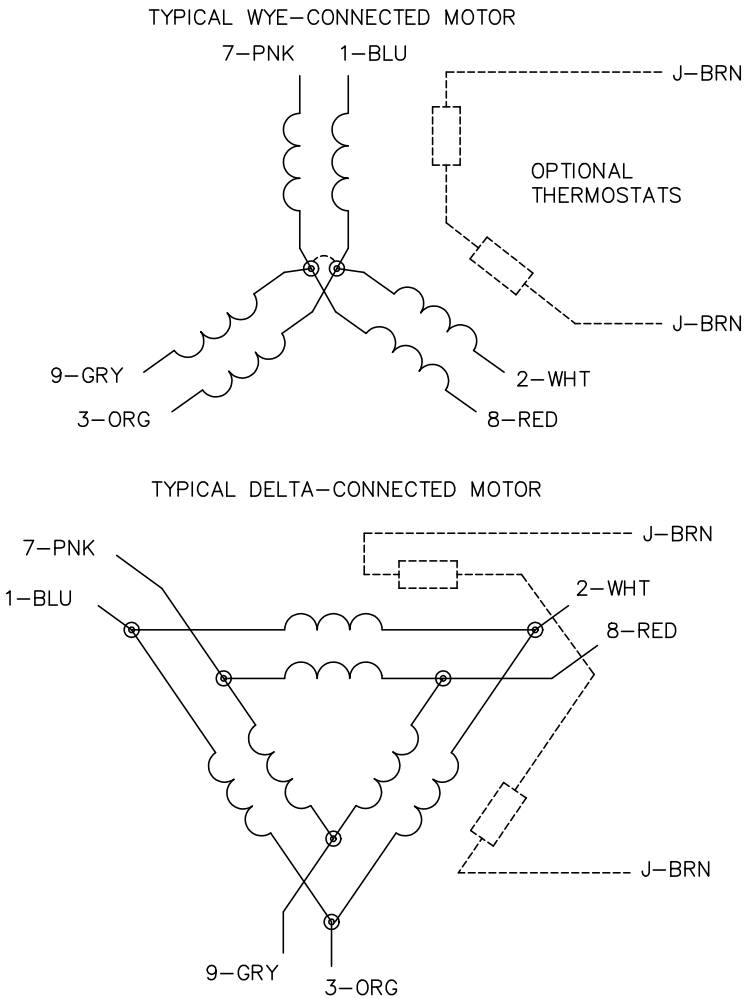
30 HP 3 PH 60 HZ 3520 RPM 200 V 0948M

TORQUES (LB-FT): PO=162 PU=76.6 LR=88.1 LRA=600

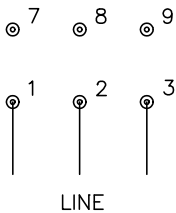




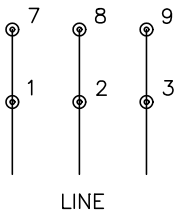
CD0695



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

S69000

FILE: AAA00005151

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

CD0695