

ABB BALDOR RELIANCE III

Customer information packet

EM4107T-5

25HP, 3525RPM, 3PH, 60HZ, 284TS, 0946M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284TS
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	23.000 A @ 575.0 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	23.0 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	09F629
Base	
Status	PRD/A
Elec. spec.	09WGT369
Layout	09LYF629
Eff. date	08-17-2026
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	03-14-2018

Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0946M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.77 IN
Power Factor	88
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	3525 rpm
Speed Code	Single Speed
Starting Method	Direct on line
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.	EM4107T-5				CUST. P/N				ENCL				TEFC
SPEC.	09F629T369G1		CC	010A		FRAME	284TS		SER.NO.				
HP	25			CLASS	F		HZ	60					
R.P.M.	3525			PH	3		DES	A					
VOLTS	575				CODE	J		ODE BRG	6208	DE BRG	6311		
AMPS	23												
RATING	40C AMB-CONT				NEMA NOM. EFF.				91.7	GREASE	POLYREX EM		
P.F.	88	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 # 59038

Typical performance - not guaranteed values

Winding: 09WGT369-R001			Type: 0946M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		25	Full Load Torque		37.15 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		23	Breakdown Torque		120 LB-FT		
R.P.M.		3525	Pull-up Torque		71.02 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		85.16 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		200 A
Service Factor (S.F.)		1.15	No-load Current		8.28 A		
NEMA Nom. Eff.		91.7	Power Factor	88	Line-line Res. @ 25°C		0.441 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		84°C	
S.F. Amps				Temp. Rise @ S.F. Load		103°C	
				Locked-rotor Power Factor		29.4	
				Rotor inertia		1.17 LB-FT2	

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	75	84	88	90	90	89
Efficiency	87	91.3	92.2	91.9	91.1	90.2	91.4
Speed	3582	3565	3550	3529	3509	3487	3517
Line amperes	9.93	13.56	18.15	23.1	28.66	34.35	26.4

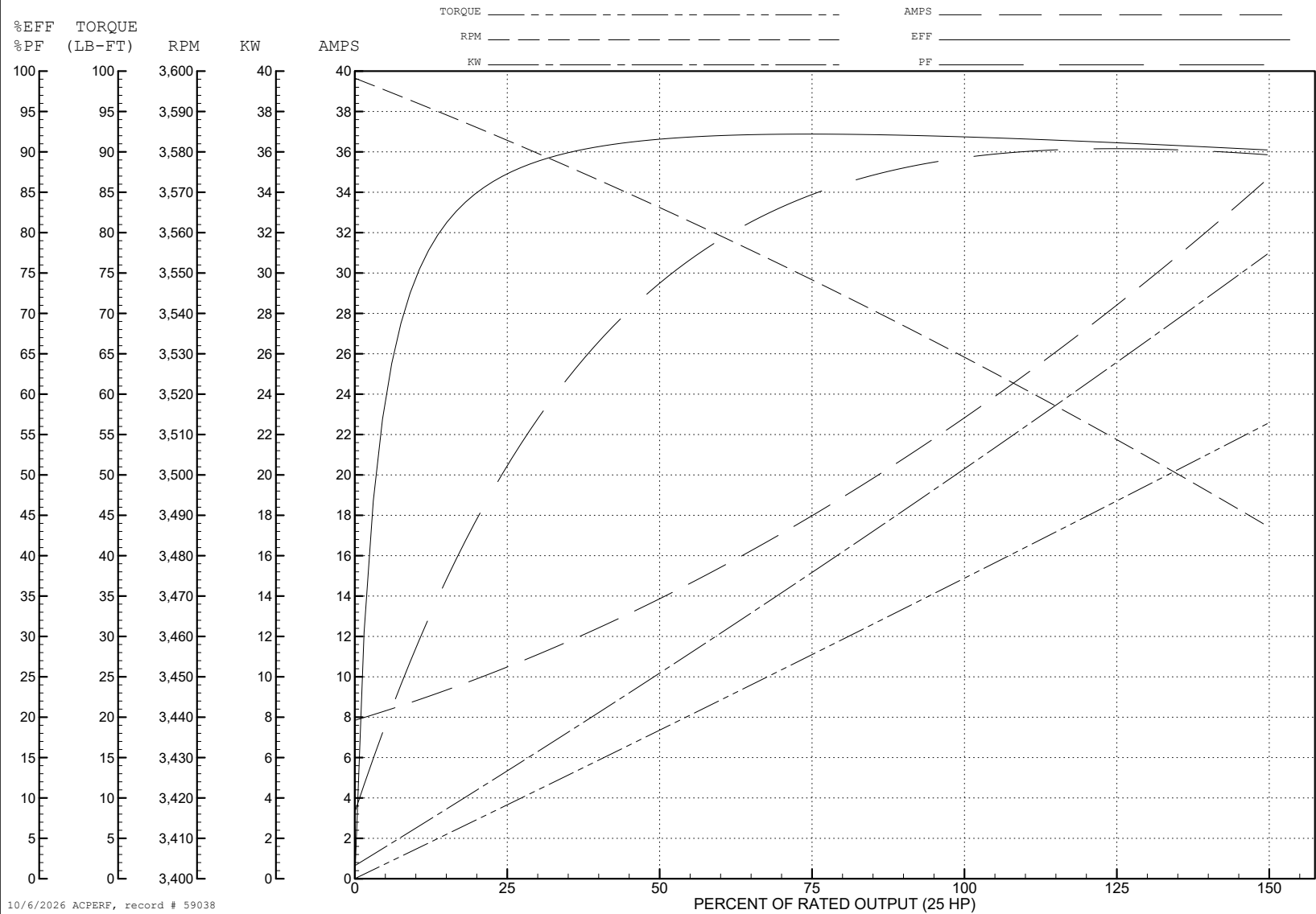
ABB Motors and Mechanical Inc.

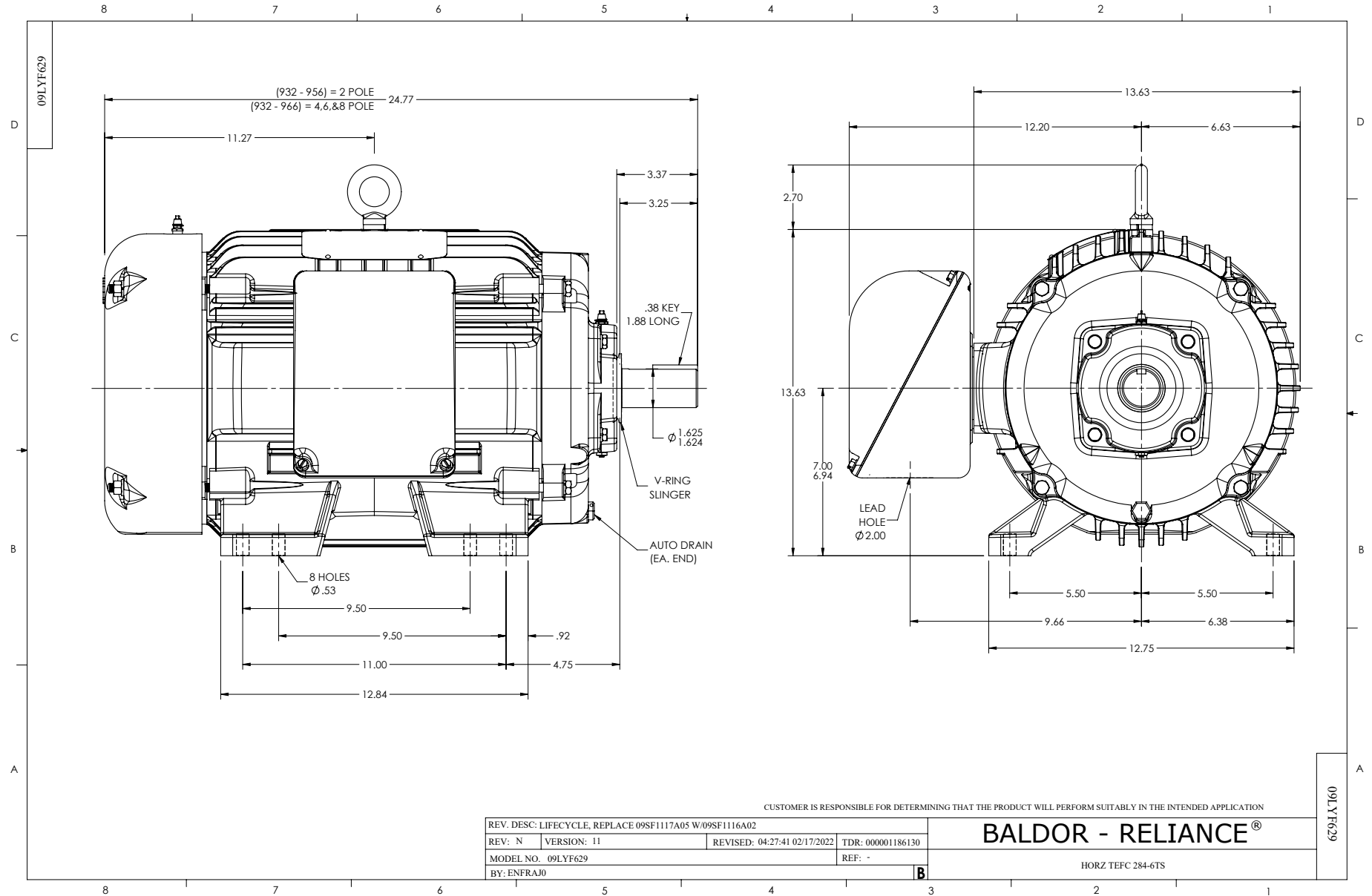
WINDING # 09WGT369

Typical performance - not guaranteed values.

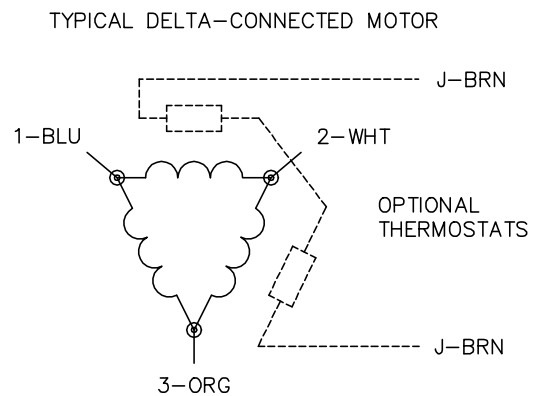
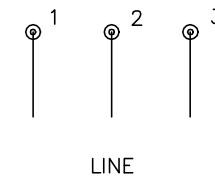
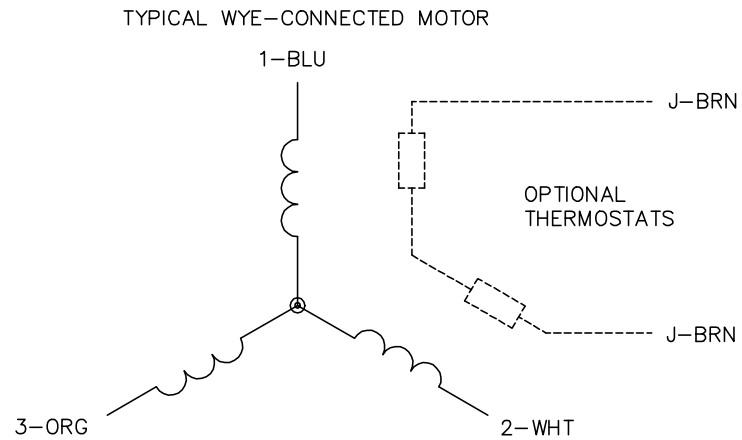
25 HP 3 PH 60 HZ 3525 RPM 575 V 0946M

TORQUES (LB-FT): PO=120 PU=71.02 LR=85.16 LRA=200





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.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: —



BALDOR - RELIANCE®

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

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