ABB BALDOR RELIANCE

Customer information packet

EM4107T-5

25HP, 3525RPM, 3PH, 60HZ, 284TS, 0946M, TEFC, F
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/19/2026 8:23:08 AM

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

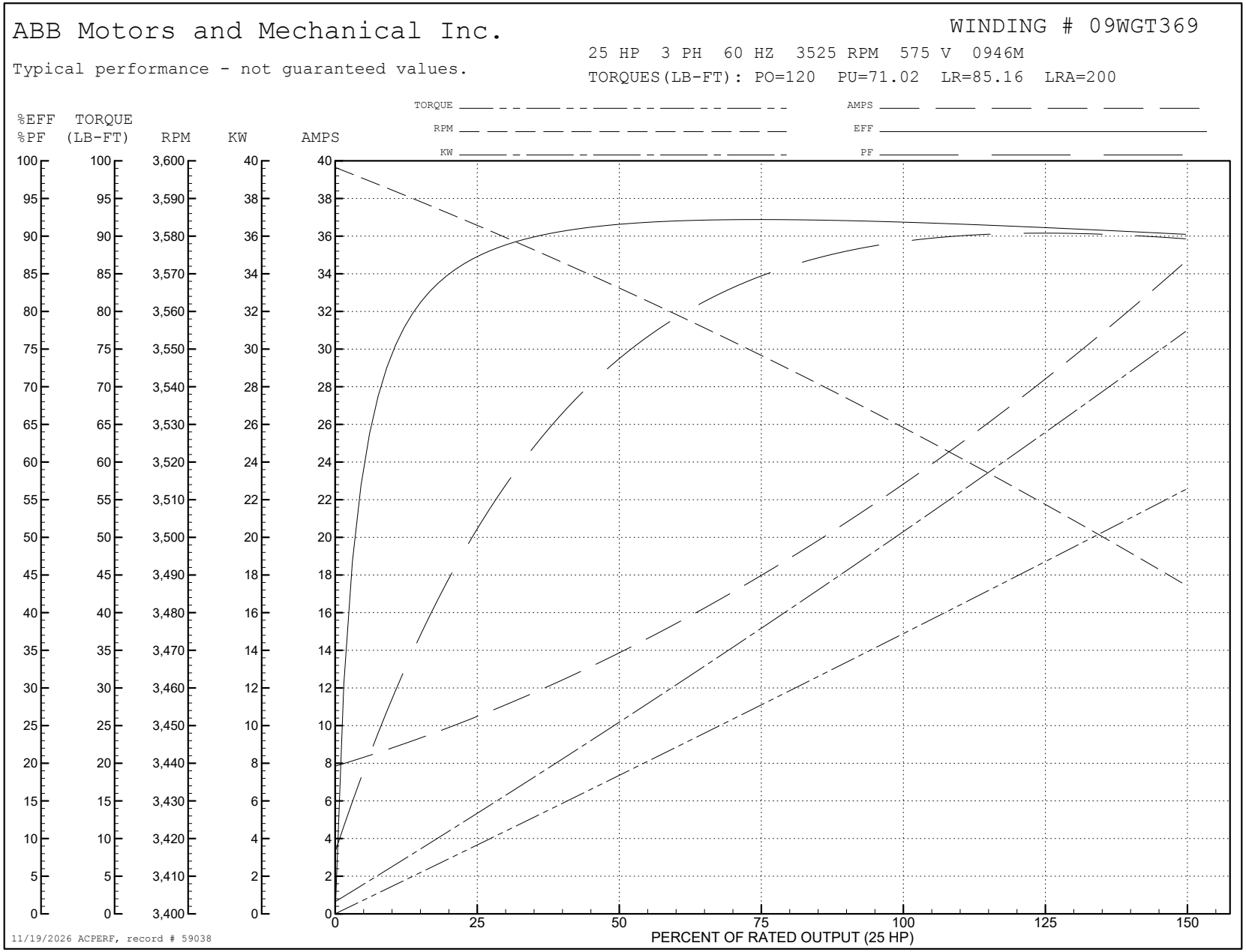
AC Induction Motor Performance Data
Record # 59038
Typical performance - not guaranteed values

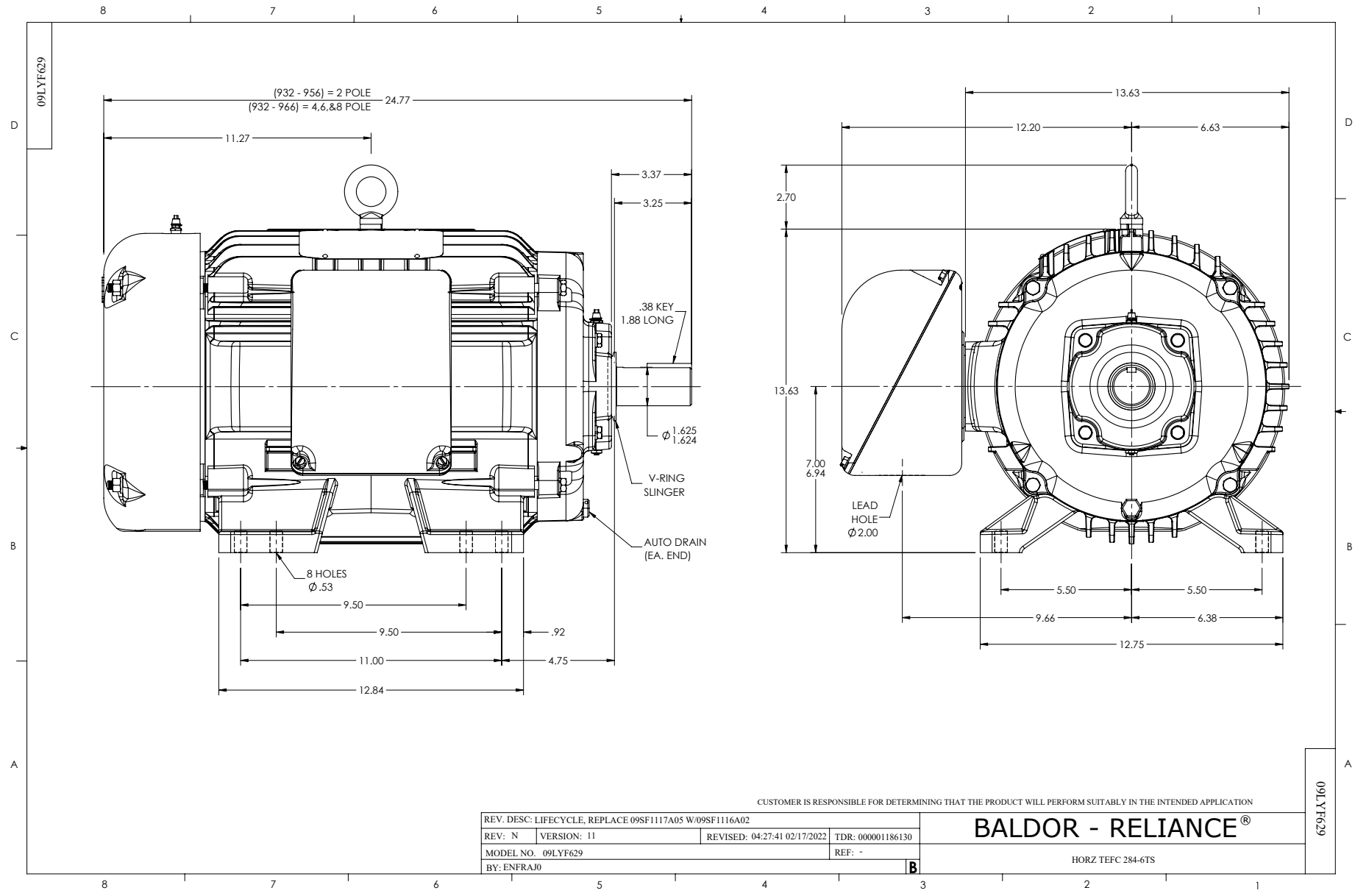
Winding: 09WGT369-R001	**Type:** 0946M	**Enclosure:** TEFC

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. @ 25ºC**	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

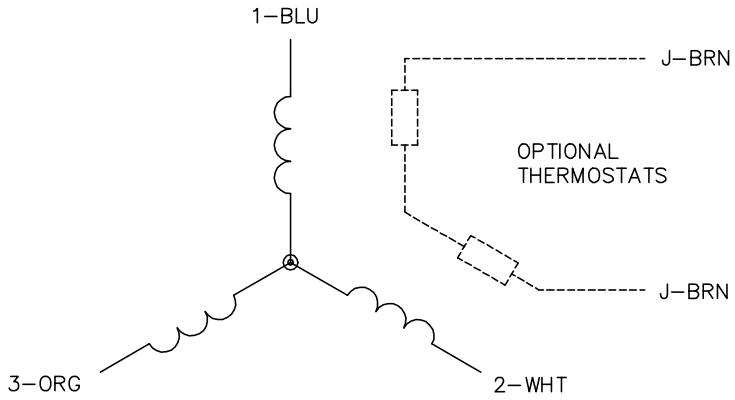
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	54	75	84	88	90	90	89
Efficiency	87	91.3	92.2	91.9	91.1	90.2	91.4
Speed	3582	3565	3550	3529	3509	3487	3517
Line amperes	9.93	13.56	18.15	23.1	28.66	34.35	26.4

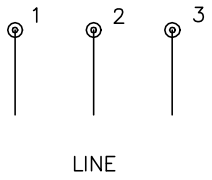

ABB Motors and Mechanical Inc.
WINDING # 09WGT369
Typical performance - not guaranteed values.
25 HP 3 PH 60 HZ 3525 RPM 575 V 0946M
TORQUES(LB-FT): PO=120 PU=71.02 LR=85.16 LRA=200
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/19/2026 ACPERF, record # 59038


09LYF629
(932 - 956) = 2 POLE
(932 - 966) = 4,6,&8 POLE
24.77
11.27
3.37
3.25
.38 KEY
1.88 LONG
Ø 1.625
1.624
V-RING
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
Ø .53
9.50
9.50
.92
11.00
4.75
12.84
13.63
12.20
6.63
2.70
13.63
7.00
6.94
LEAD
HOLE
Ø 2.00
5.50
5.50
9.66
6.38
12.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LIFECYCLE, REPLACE 09SF1117A05 W/09SF1116A02
REV: N
VERSION: 11
REVISED: 04:27:41 02/17/2022
TDR: 000001186130
MODEL NO. 09LYF629
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ TEFC 284-6TS
09LYF629

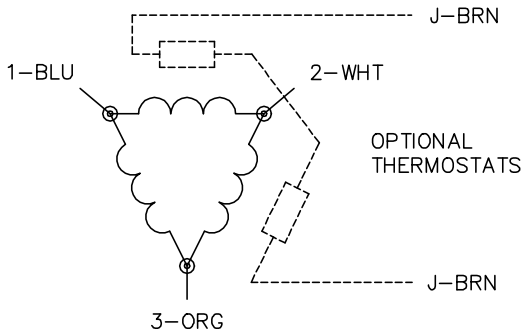
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1