ABB BALDOR RELIANCE

Customer information packet

EM4107T

25HP, 3520RPM, 3PH, 60HZ, 284TS, 0944M, TEFC, F
Class - None
Division - Not Applicable

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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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
	CURUSEEV
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	29.000 A @ 460.0 V
	58.000 A @ 230.0 V
	62.000 A @ 208.0 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 Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	N
Type	AC
Mech. spec.	09F629
Base	
Status	PRD/A
Elec. spec.	09WGT577
Layout	09LYF629
Eff. date	08-17-2026
CD Diagram	CD0005
Poles	02
Leads	9#10
Proprietary	False
Created date	08-01-2018

High Voltage Full Load Amps	29.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 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

NP3443LUA											
CAT.NO.	EM4107T			**CUST. P/N**						**ENCL**	TEFC
SPEC.	09F629T577G1	**CC**	010A	**FRAME**	284TS		**SER.NO.**				
HP	25		**CLASS**	F	**HZ**	60					
R.P.M.	3520		**PH.**	3	**DES.**	A					
VOLTS	230/460			**CODE**	J		**ODE BRG**	6208	**DE BRG**	6311	
AMPS	58/29										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	91.7			**GREASE**	POLYREX EM		
P.F.	88	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**							
USABLE AT	50HZ 20HP 190/380V 56/28A			SF1.0							
VOLTS	**AMPS**		**MAX. SPACE HEATER TEMP.**								

Accessories

Part number	Description	Multiplier
09-1310	C FACE KIT	A8

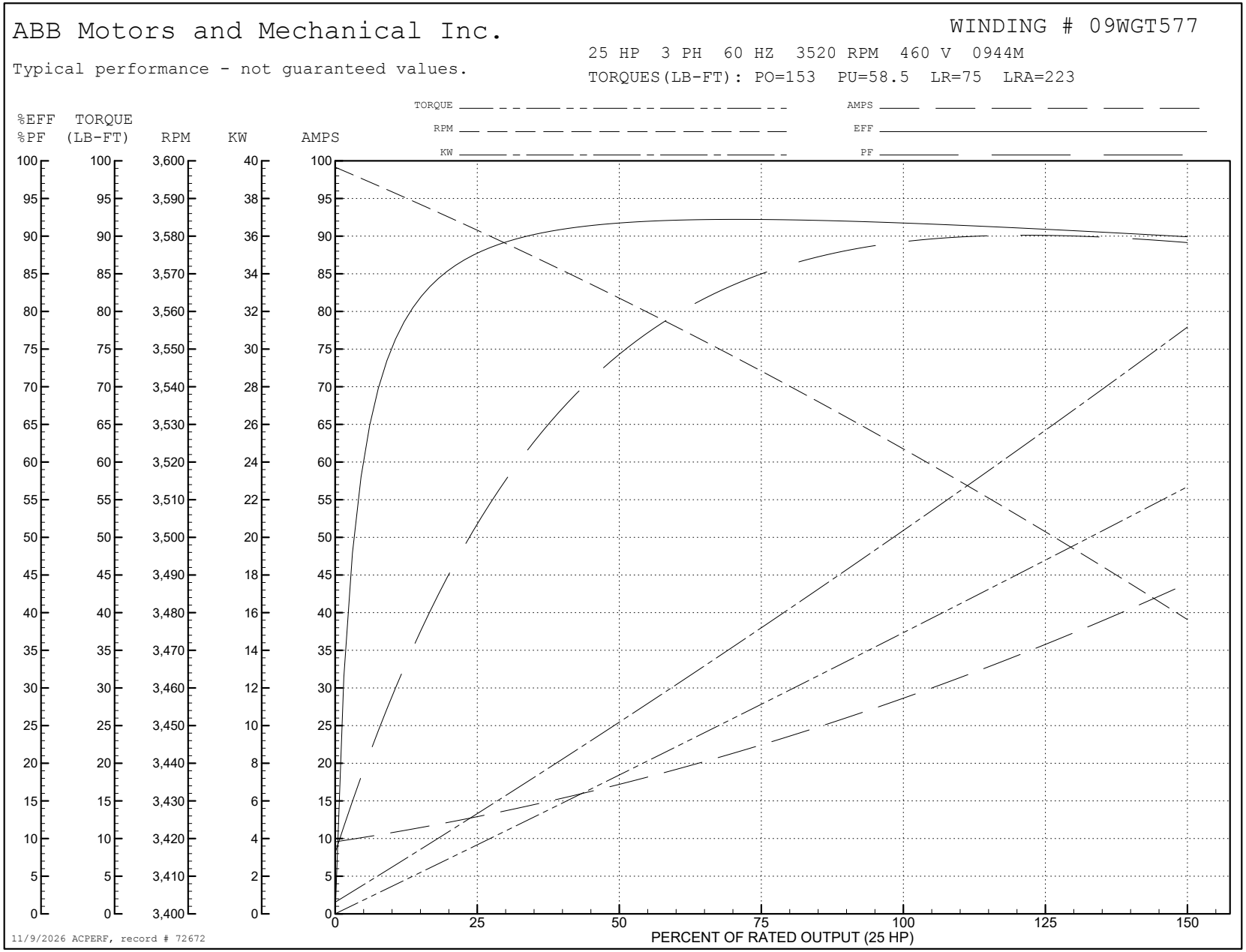
AC Induction Motor Performance Data
Record # 72672
Typical performance - not guaranteed values

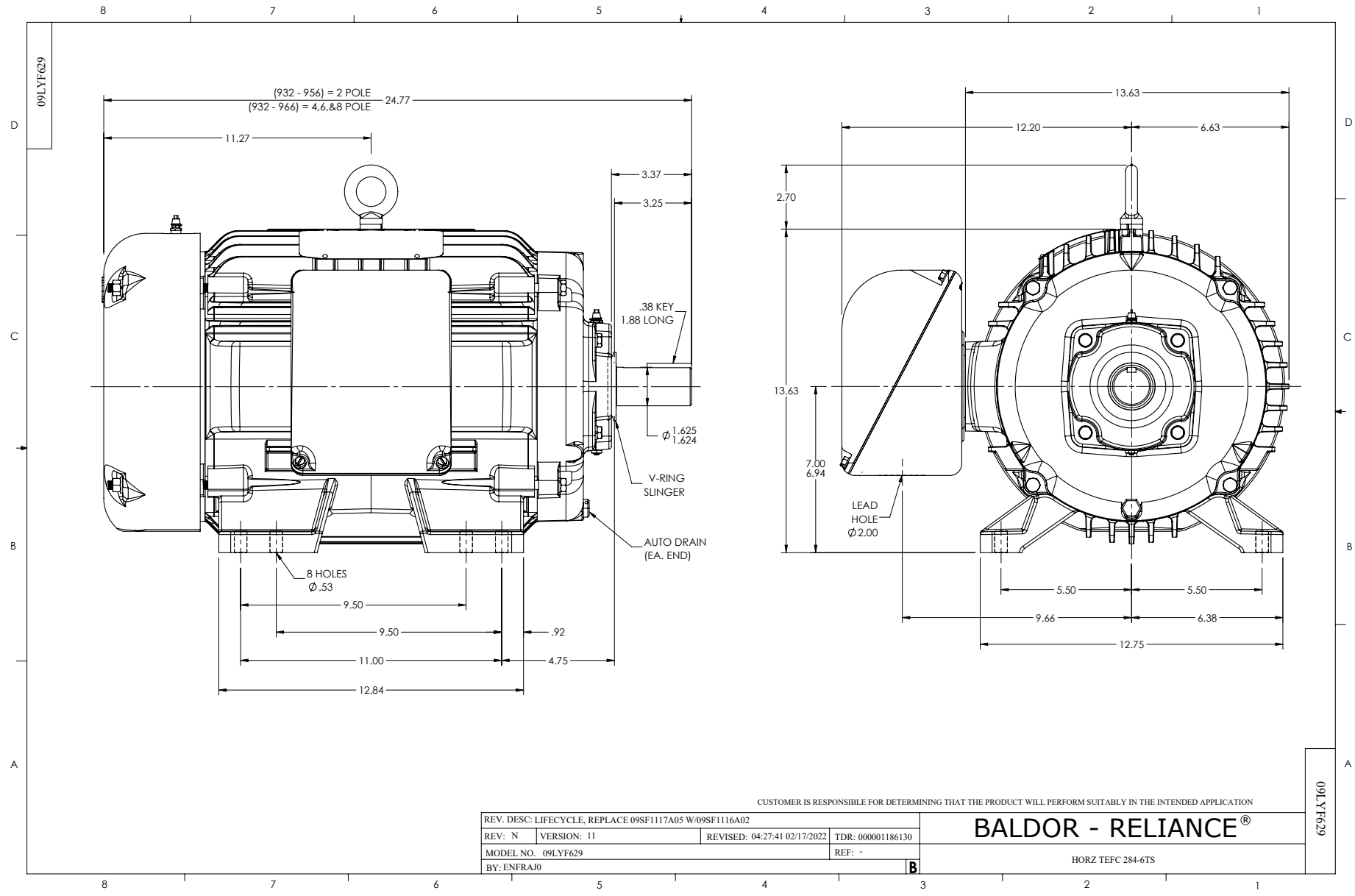
Winding: 09WGT577-R001	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	37.39 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			58/29	**Breakdown Torque**	153 LB-FT
R.P.M.			3520	**Pull-up Torque**	58.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	75 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	223 A
Service Factor (S.F.)			1.15	**No-load Current**	10.1 A
NEMA Nom. Eff.	91.7	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.3381 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	74°C
S.F. Amps				**Temp. Rise @ S.F. Load**	91°C
				Locked-rotor Power Factor	29.7

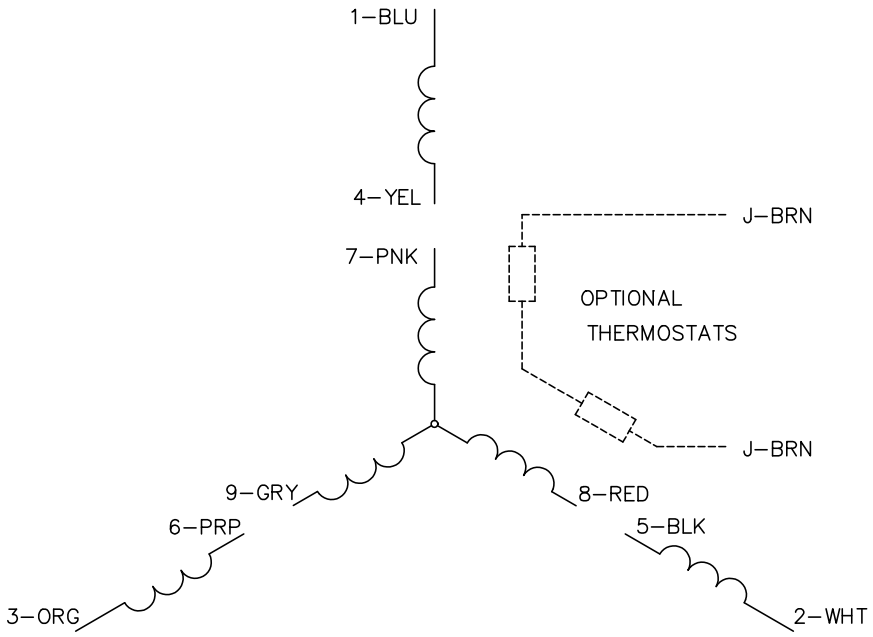
Load Characteristics 460 V, 60 Hz, 25 HP

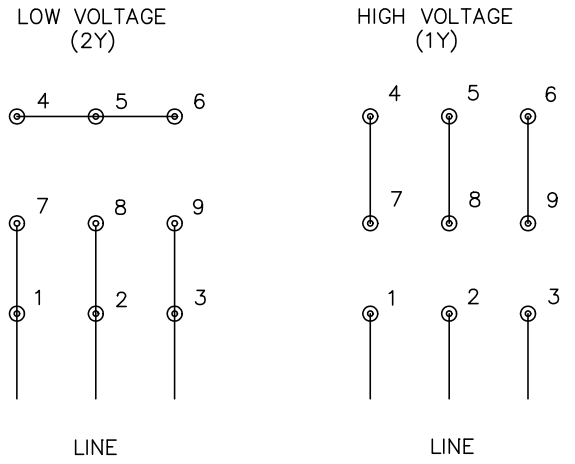
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	76	84	88	89	90	89
Efficiency	87.6	91.6	92.2	91.8	90.9	89.8	91.3
Speed	3580.5	3562.7	3544.2	3524	3501.4	3477.9	3510
Line amperes	12.3	16.9	22.7	29.1	36.1	43.5	33.3


ABB Motors and Mechanical Inc.
WINDING # 09WGT577
Typical performance - not guaranteed values.
25 HP 3 PH 60 HZ 3520 RPM 460 V 0944M
TORQUES(LB-FT): PO=153 PU=58.5 LR=75 LRA=223
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (25 HP)
11/9/2026 ACPERF, record # 72672


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

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS