ABB BALDOR RELIANCE

Customer information packet

EM4108T

30HP, 3525RPM, 3PH, 60HZ, 286TS, 0950M, TEFC, F
Class - None
Division - Not Applicable

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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	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	34.000 A @ 460.0 V
	68.000 A @ 230.0 V
	74.000 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	K
Type	AC
Mech. spec.	09F629
Base	
Status	PRD/A
Elec. spec.	09WGT598
Layout	09LYF629
Eff. date	08-17-2026
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	01-05-2021

High Voltage Full Load Amps	34.0 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	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.77 IN
Power Factor	89
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	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

NP3443LUA											
CAT.NO.	EM4108T			**CUST. P/N**						**ENCL**	TEFC
SPEC.	09F629T598G1	**CC**	010A	**FRAME**	286TS		**SER.NO.**				
HP	30		**CLASS**	F	**HZ**	60					
R.P.M.	3525		**PH.**	3	**DES.**	A					
VOLTS	230/460			**CODE**	J		**ODE BRG**	6208	**DE BRG**	6311	
AMPS	68/34										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	91.7			**GREASE**	POLYREX EM		
P.F.	89	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**							
USABLE AT	50HZ 30HP 190/380V 83/41.5A			SF 1.0							
VOLTS	**AMPS**		**MAX. SPACE HEATER TEMP.**								

Accessories

Part number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 86057
Typical performance - not guaranteed values

Winding: 09WGT598-R001	**Type:** 0950M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		30	**Full Load Torque**	44.7 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		68/34	**Breakdown Torque**	151 LB-FT
R.P.M.		3525	**Pull-up Torque**	78.5 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	94.5 LB-FT
NEMA Design Code	A **KVA Code**	J	**Starting Current**	278 A
Service Factor (S.F.)		1.15	**No-load Current**	10.6 A
NEMA Nom. Eff.	91.7 **Power Factor**	89	**Line-line Res. @ 25ºC**	0.267 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	80°C
S.F. Amps			**Temp. Rise @ S.F. Load**	98°C
			Locked-rotor Power Factor	28.4
			Rotor inertia	1.28 lb-ft²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	60	79	87	89	91	91	90
Efficiency	88	91.9	92.5	92.1	91.3	90.2	91.6
Speed	3583	3565	3546	3526	3505	3481	3513
Line amperes	13.6	19.4	26.5	34.3	42.6	51.5	39.3

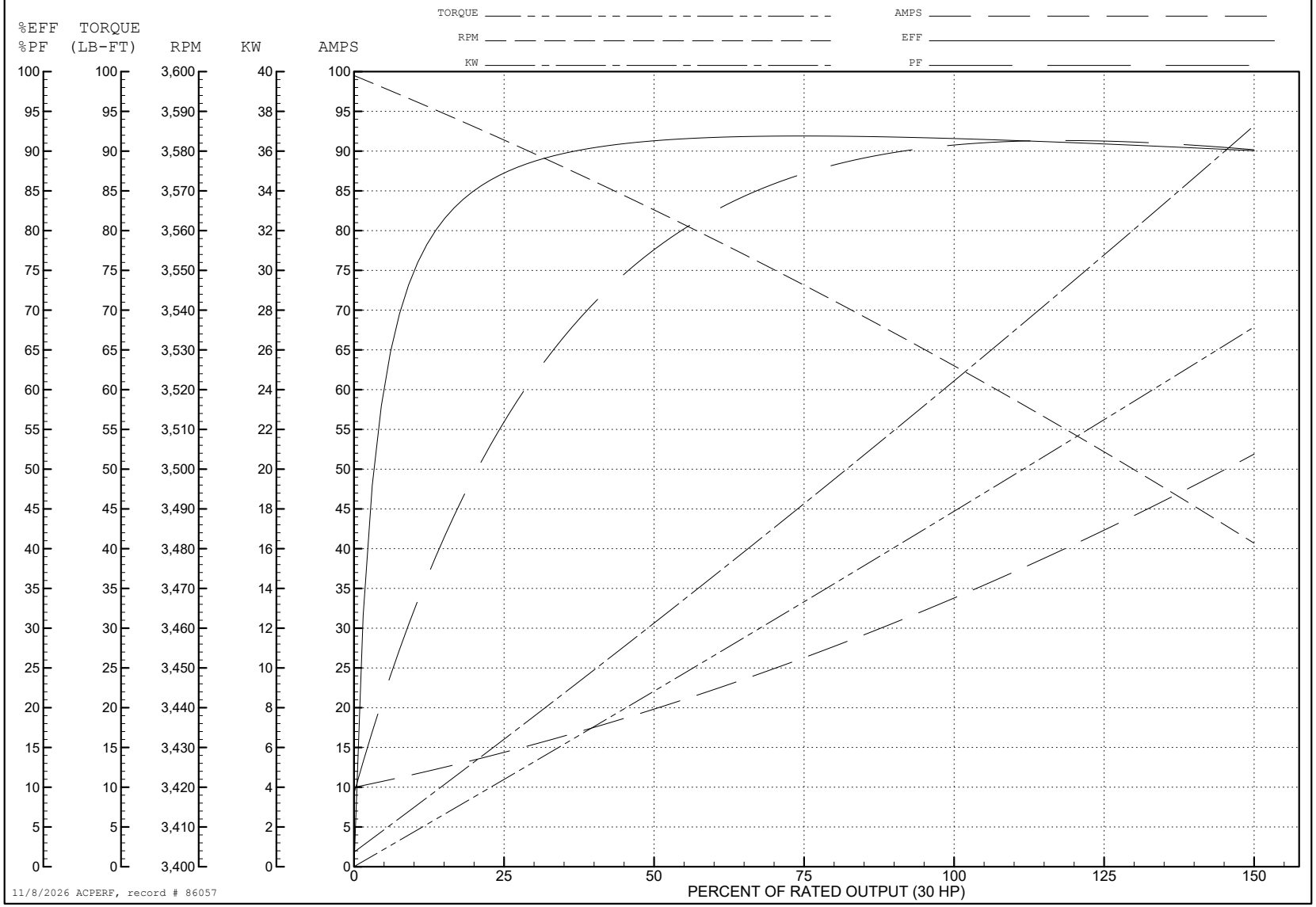
ABB Motors and Mechanical Inc.

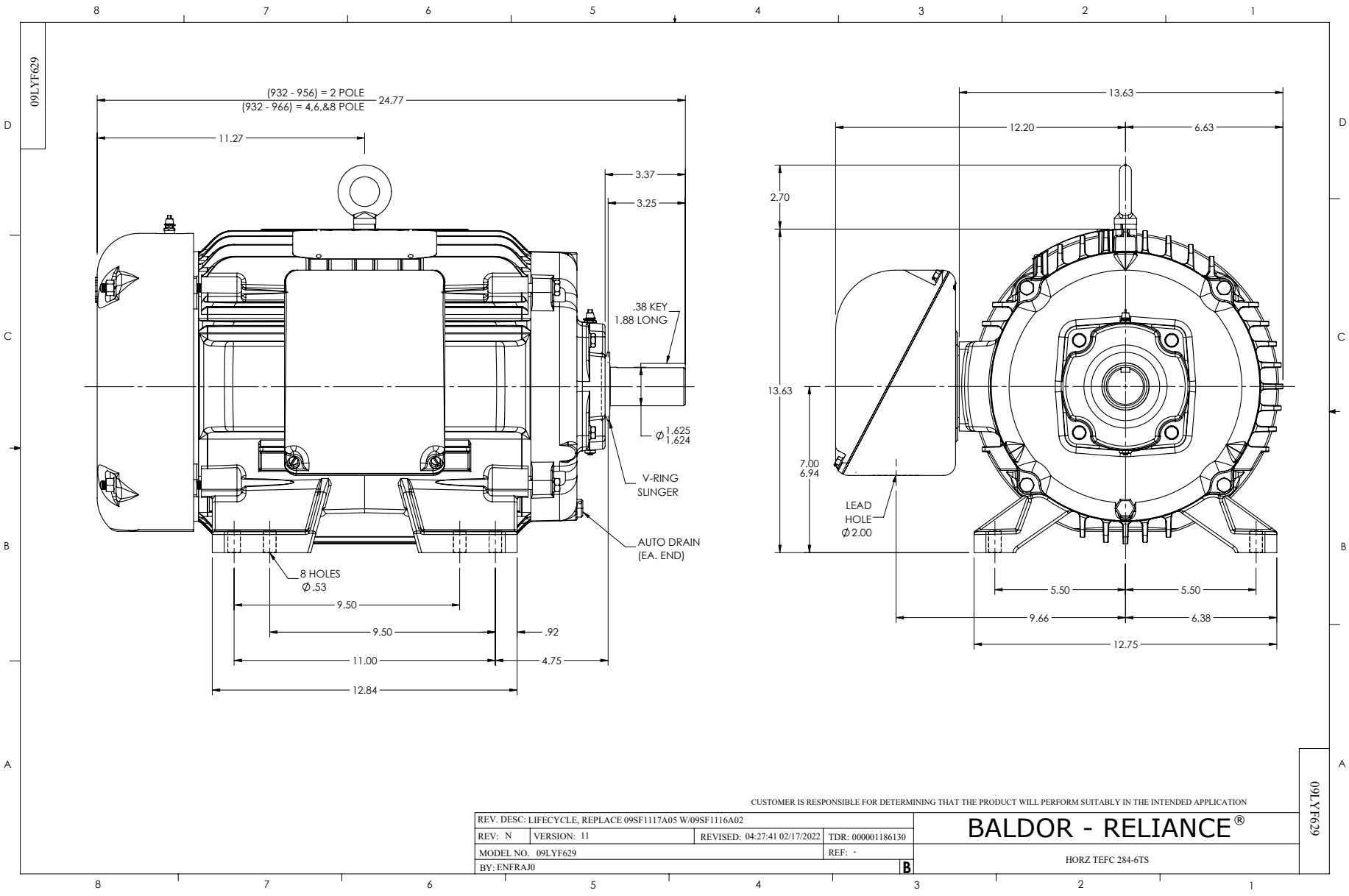
WINDING # 09WGT598

30 HP 3 PH 60 HZ 3525 RPM 460 V 0950M

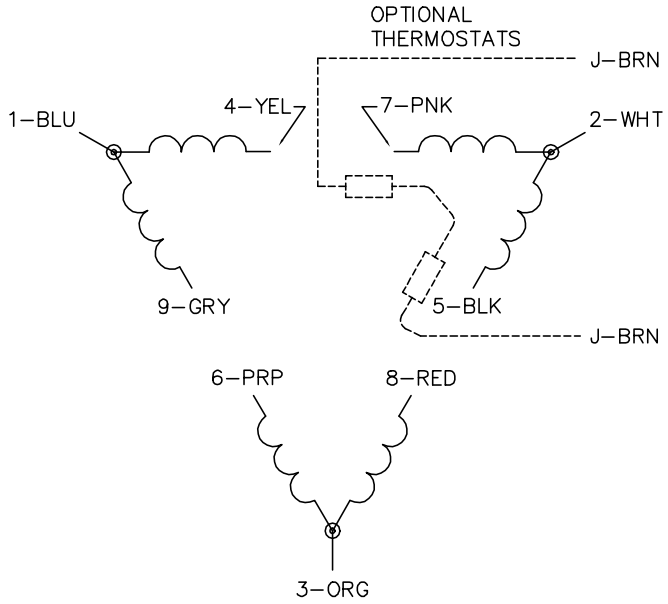
Typical performance - not guaranteed values.

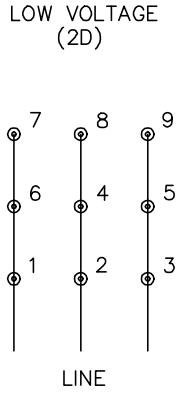
TORQUES(LB-FT): PO=151 PU=78.5 LR=94.5 LRA=278

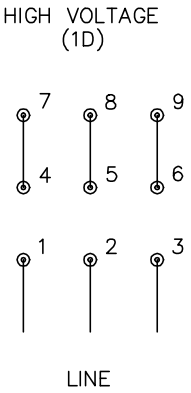



09LYF629
(932 - 956) = 2 POLE
(932 - 966) = 4,6,&8 POLE
24.77
11.27
3.37
3.25
.38 KEY
1.88 LONG
Ø 1.625
1.624
V-RING
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
Ø .53
9.50
9.50
.92
11.00
4.75
12.84
13.63
12.20
6.63
2.70
13.63
7.00
6.94
LEAD
HOLE
Ø 2.00
5.50
5.50
9.66
6.38
12.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING 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

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

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3PH, DV, 9 LEADS, DELTA CONNECTION

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