ABB BALDOR RELIANCE

Customer information packet

EM4115T

50HP, 1775RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1
Class - None
Division - Not Applicable

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11/19/2026 7:05:55 AM

Specifications

Enclosure	TEFC
Frame	326T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	116.000 A @ 230.0 V
	126.000 A @ 208.0 V
	58.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	G
Type	AC
Mech. spec.	12H13
Base	
Status	PRD/A
Elec. spec.	12WGZ279
Layout	12LYH013
Eff. date	03-21-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	11-19-2020

High Voltage Full Load Amps	58.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	85
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	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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.	EM4115T			**CUST. P/N**						**ENCL**	TEFC
SPEC.	12H013Z279G1	**CC**	010A	**FRAME**	326T		**SER.NO.**				
HP	50		**CLASS**	F	**HZ**	60					
R.P.M.	1775		**PH.**	3	**DES.**	A					
VOLTS	230/460			**CODE**	H		**ODE BRG**	6311	**DE BRG**	6312	
AMPS	116/58										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	94.5			**GREASE**	POLYREX EM		
P.F.	85	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**							
USABLE AT	50HZ 50HP 190/380V 138/69.5A			SF1.0							
VOLTS	**AMPS**		**MAX. SPACE HEATER TEMP.**								

Accessories

Part number	Description	Multiplier
12-1105	C FACE KIT	A8
12EP1501A03SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 93227
Typical performance - not guaranteed values

Winding: 12WGZ279-R001	**Type:** 1272M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			50
Volts			230/460
Full Load Amps			116/58
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.5	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			132/66

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	148 LB-FT
Start Configuration	direct on line
Breakdown Torque	437.3 LB-FT
Pull-up Torque	223.3 LB-FT
Locked-rotor Torque	255.3 LB-FT
Starting Current	407.47 A
No-load Current	21 A
Line-line Res. @ 25ºC	0.11287 Ω
Temp. Rise @ Rated Load	66°C
Temp. Rise @ S.F. Load	82°C
Locked-rotor Power Factor	26.5

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	73	82	85	87	87	86
Efficiency	91.5	94.3	94.7	94.5	93.8	93	94.1
Speed	1791.2	1786.1	1779.1	1773.3	1766.2	1758.5	1769
Line amperes	25.1	34.1	45.4	58.2	72	87	66.5

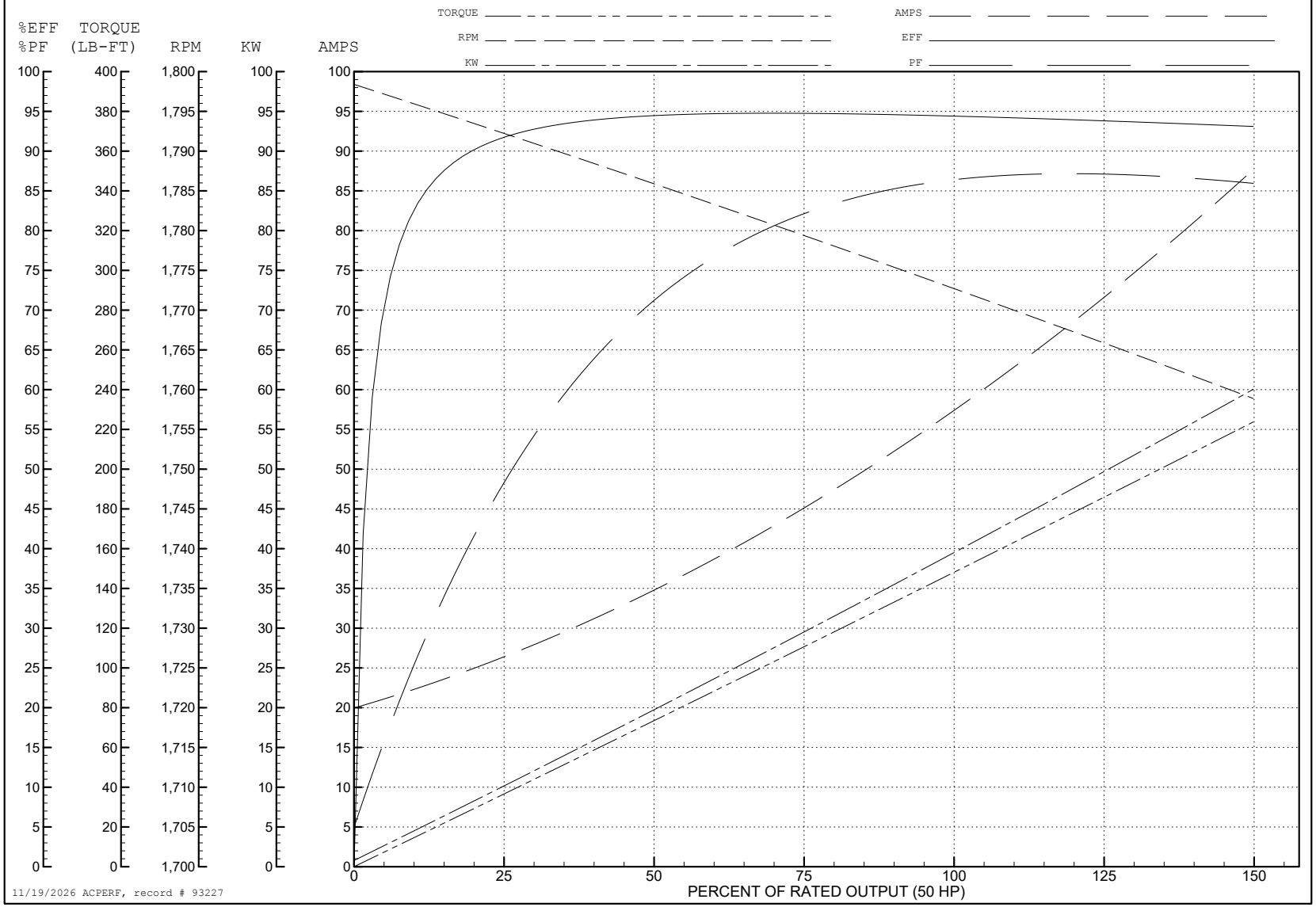
ABB Motors and Mechanical Inc.

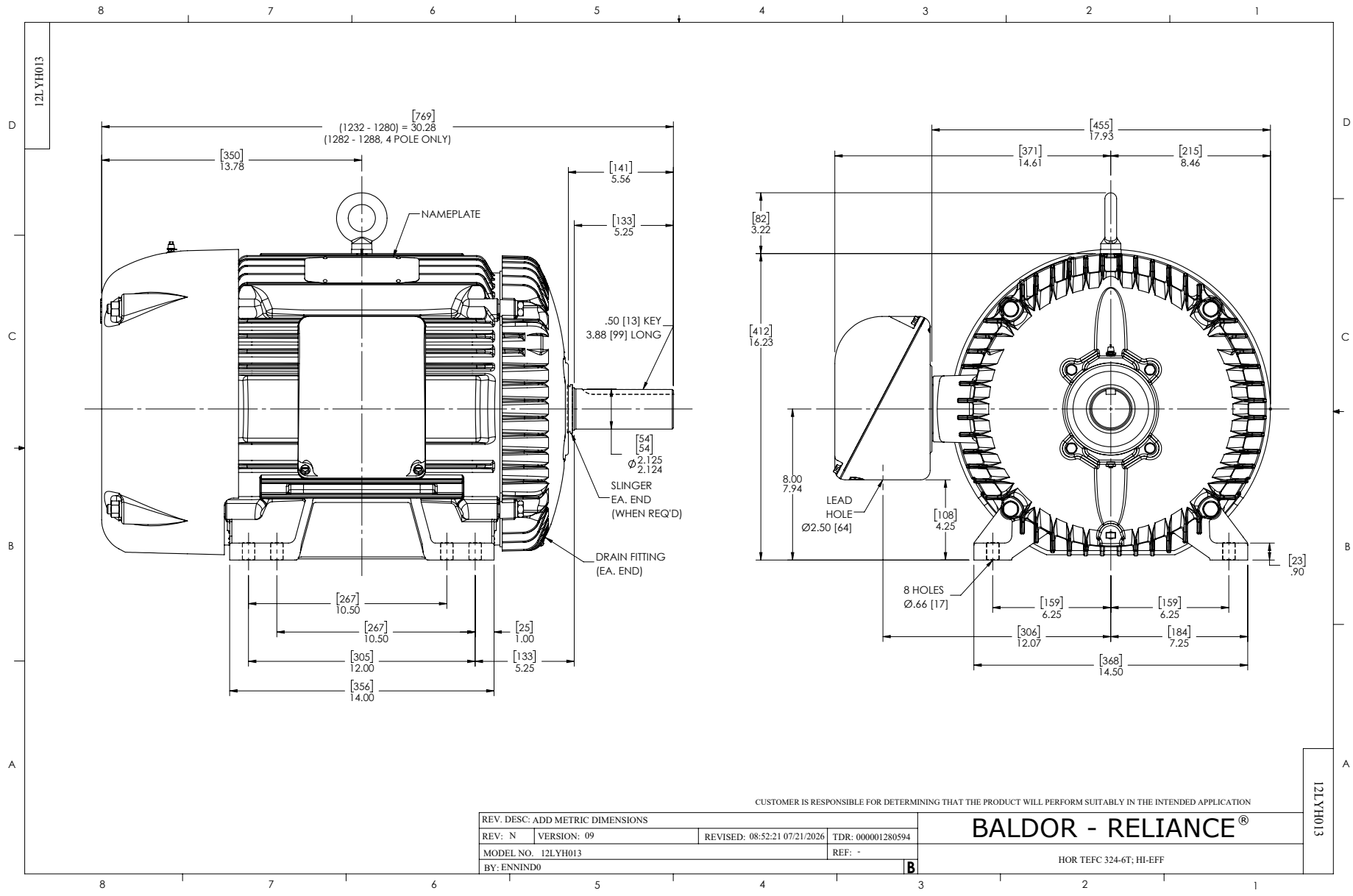
WINDING # 12WGZ279

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

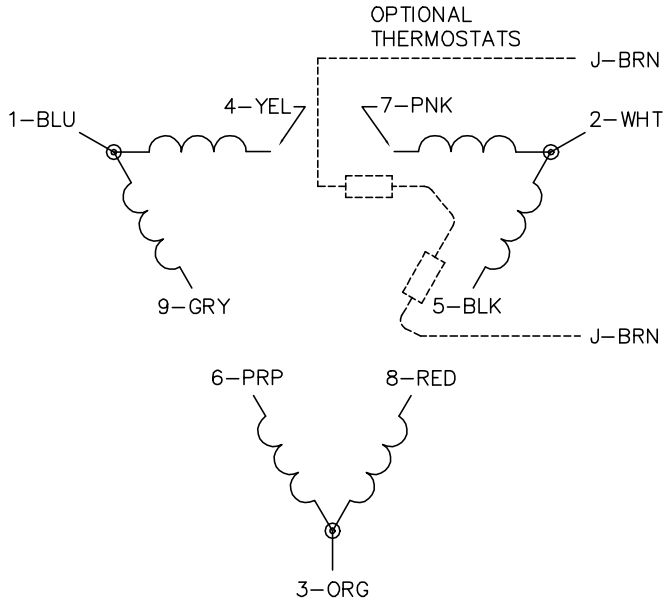
Typical performance - not guaranteed values.

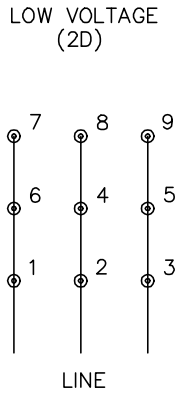
TORQUES(LB-FT): PO=437.3 PU=223.3 LR=255.3 LRA=407.47

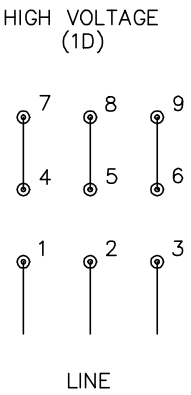



12LYH013
[769]
(1232 - 1280) = 30.28
(1282 - 1288, 4 POLE ONLY)
[350]
13.78
[141]
5.56
[133]
5.25
NAMEPLATE
.50 [13] KEY
3.88 [99] LONG
[54]
54
Ø2.125
2.124
SLINGER
EA. END
(WHEN REQ'D)
DRAIN FITTING
(EA. END)
[267]
10.50
[267]
10.50
[25]
1.00
[305]
12.00
[133]
5.25
[356]
14.00
[455]
17.93
[371]
14.61
[215]
8.46
[82]
3.22
[412]
16.23
8.00
7.94
LEAD
HOLE
Ø2.50 [64]
[108]
4.25
[23]
.90
8 HOLES
Ø.66 [17]
[159]
6.25
[159]
6.25
[306]
12.07
[184]
7.25
[368]
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD METRIC DIMENSIONS
REV: N
VERSION: 09
REVISED: 08:52:21 07/21/2026
TDR: 000001280594
MODEL NO. 12LYH013
REF: -
BY: ENNIND0
B
BALDOR - RELIANCE®
HOR TEFC 324-6T; HI-EFF
12LYH013

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: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1