ABB BALDOR RELIANCE

Customer information packet

EM4115T-5G

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

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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	575.0 V @ 60 HZ
Agency Approvals	UR
	CSA
	CSA EEV
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	46.000 A @ 575.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	46.0 a
Insulation Class	H

Part Detail

Revision	Z
Type	AC
Mech. spec.	12F882
Base	
Status	PRD/A
Elec. spec.	12WGY539
Layout	12LYF882
Eff. date	03-10-2025
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	01-16-2012

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 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 Extension Location	Pulley End
Shaft Ground Indicator	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 (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3443L											
CAT.NO.	EM4115T-5G			**CUST. P/N**						**ENCL**	TEFC
SPEC.	12F882Y539G1	**CC**	010A	**FRAME**	326T		**SER.NO.**				
HP	50	**CLASS**	H	**HZ**	60						
R.P.M.	1775	**PH**	3	**DES**	A						
VOLTS	575	**CODE**	H	**ODE BRG**	6311	**DE BRG**	6312				
AMPS	46										
RATING	40C AMB-CONT	**NEMA NOM. EFF.**	94.5	**GREASE**	POLYREX EM						
P.F.	85	**SER.F.**	1.15	**VPWM INVERTER READY**							
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**							

AC Induction Motor Performance Data
Record # 47383
Typical performance - not guaranteed values

Winding: 12WGY539-R002	**Type:** 1272M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			50	**Full Load Torque**	147 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			46	**Breakdown Torque**	412 LB-FT
R.P.M.			1775	**Pull-up Torque**	190 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	264 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	330 A
Service Factor (S.F.)			1.15	**No-load Current**	16.7 A
NEMA Nom. Eff.	94.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.157 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	26
				Rotor inertia	9.59 LB-FT2

Load Characteristics 575 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	72	82	85	87	86	86
Efficiency	93	95.4	95	94.8	94.5	93.7	94.7
Speed	1795	1790	1784	1778	1772	1763	1774
Line amperes	20	27.2	36	46.2	57.2	71.8	52.8

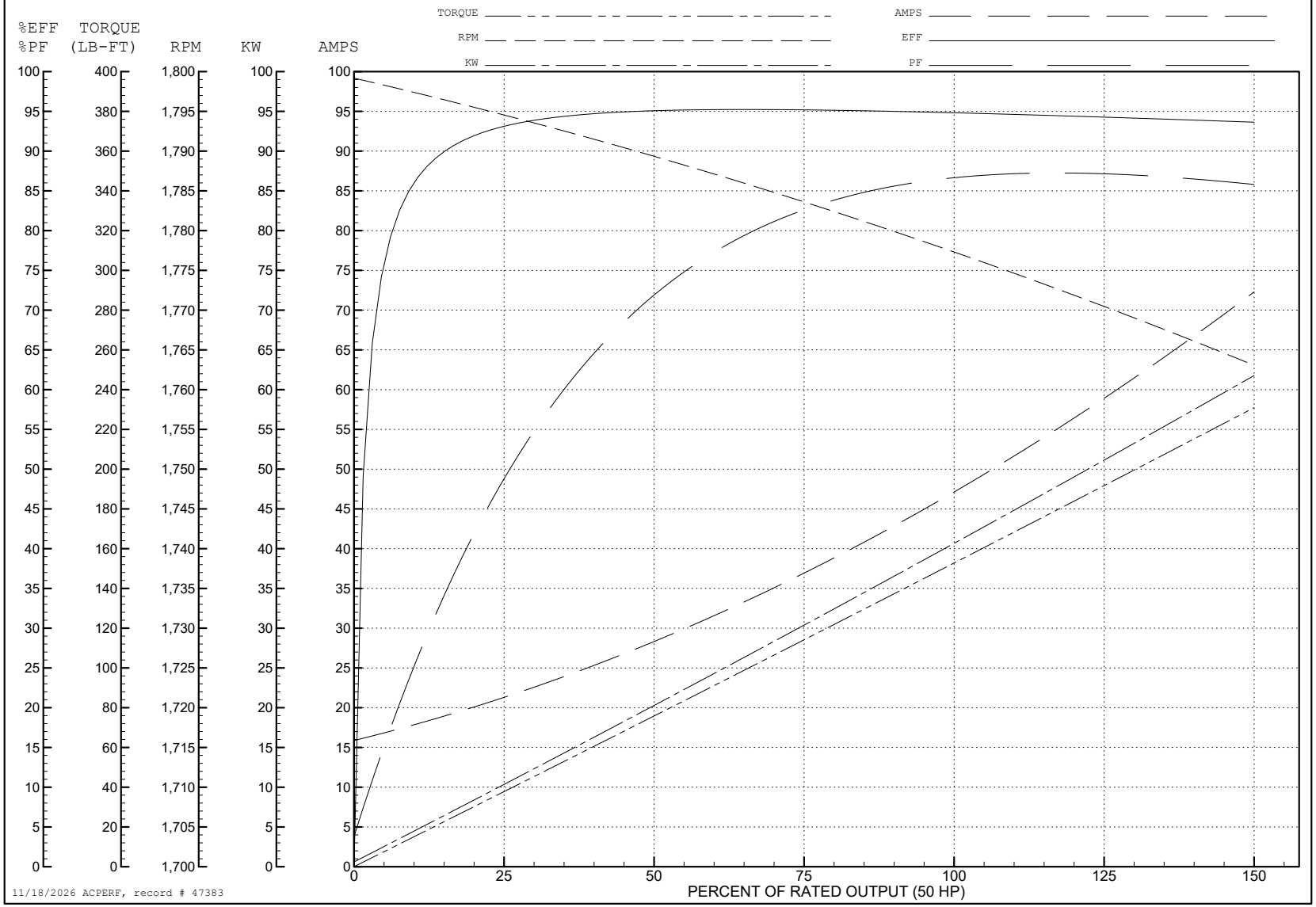
ABB Motors and Mechanical Inc.

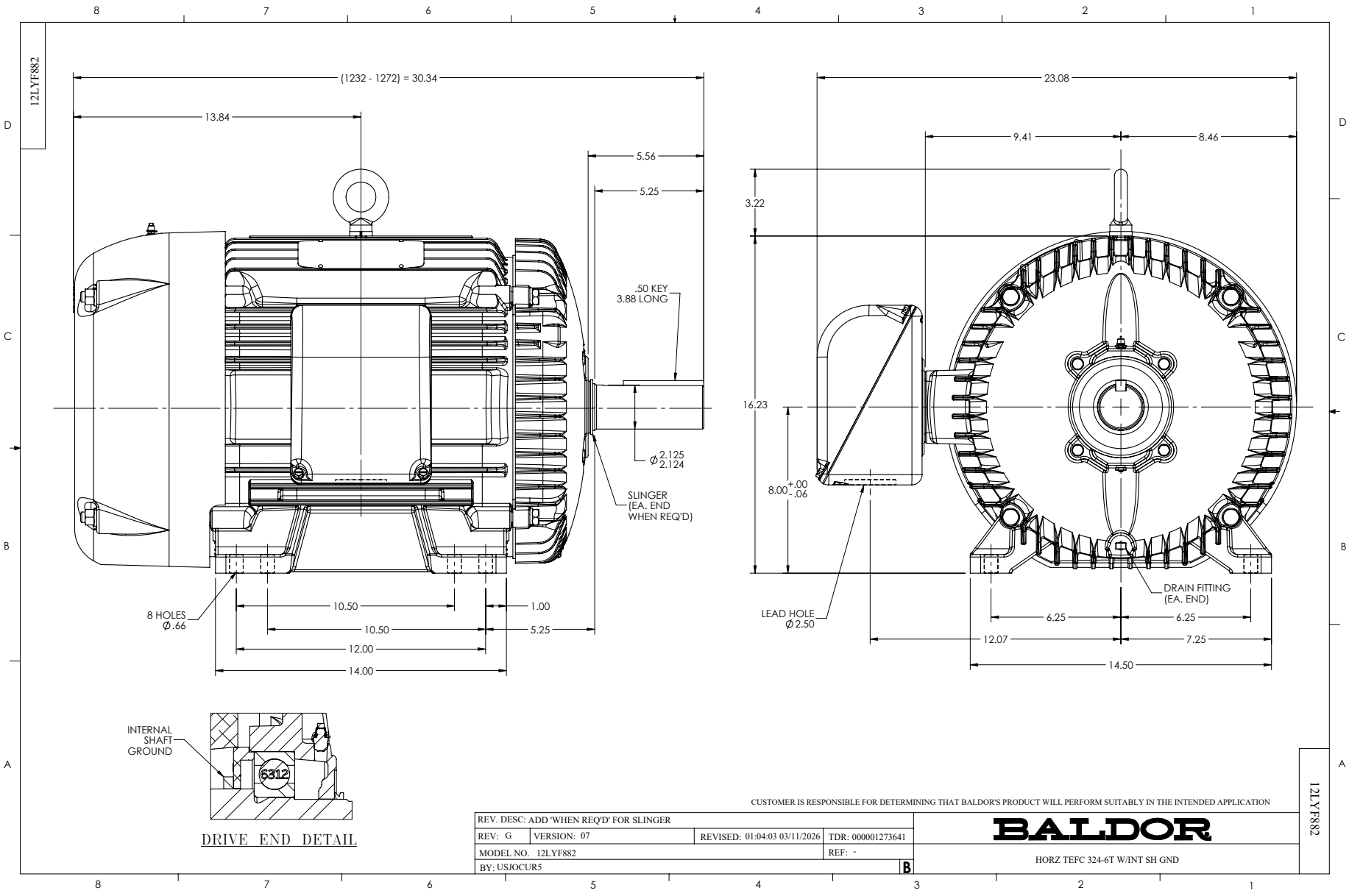
WINDING # 12WGY539

50 HP 3 PH 60 HZ 1775 RPM 575 V 1272M

Typical performance - not guaranteed values.

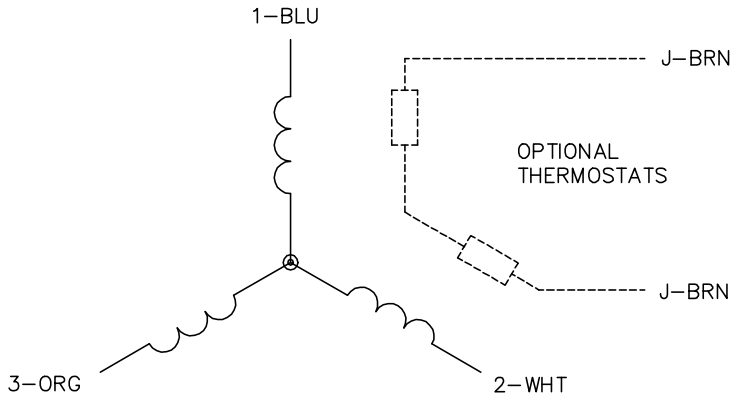
TORQUES(LB-FT): PO=412 PU=190 LR=264 LRA=330

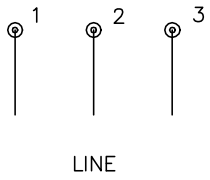



12LYF882
(1232 - 1272) = 30.34
13.84
5.56
5.25
.50 KEY
3.88 LONG
Ø 2.125
2.124
SLINGER
(EA. END
WHEN REQ'D)
8 HOLES
Ø .66
10.50
1.00
10.50
5.25
12.00
14.00
23.08
9.41
8.46
3.22
16.23
8.00 +.00 -.06
LEAD HOLE
Ø 2.50
DRAIN FITTING
(EA. END)
6.25
6.25
12.07
7.25
14.50
INTERNAL
SHAFT
GROUND
6312
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 'WHEN REQ'D' FOR SLINGER
REV: G
VERSION: 07
REVISED: 01:04:03 03/11/2026
TDR: 000001273641
MODEL NO. 12LYF882
REF: -
BY: USJOCUR5
B
BALDOR
HORZ TEFC 324-6T W/INT SH GND
12LYF882

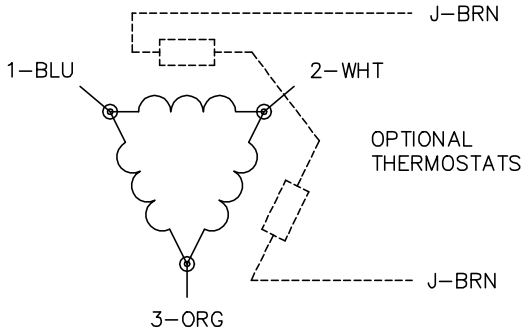
CD0006

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