



Customer information packet

EM4115T-5G

50HP, 1775RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1

Class - None

Division - Not Applicable

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. @ 25°C	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

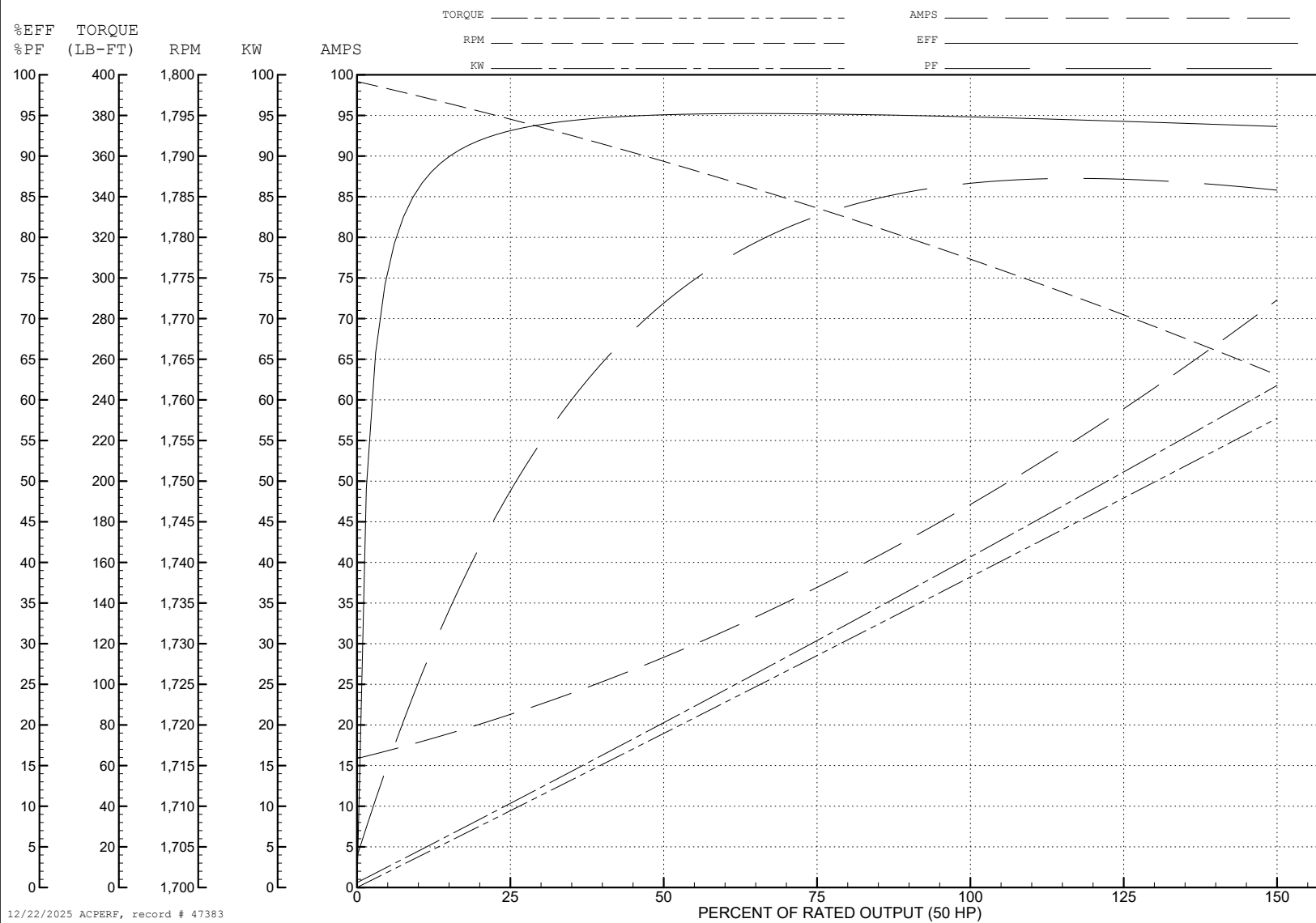
ABB Motors and Mechanical Inc.

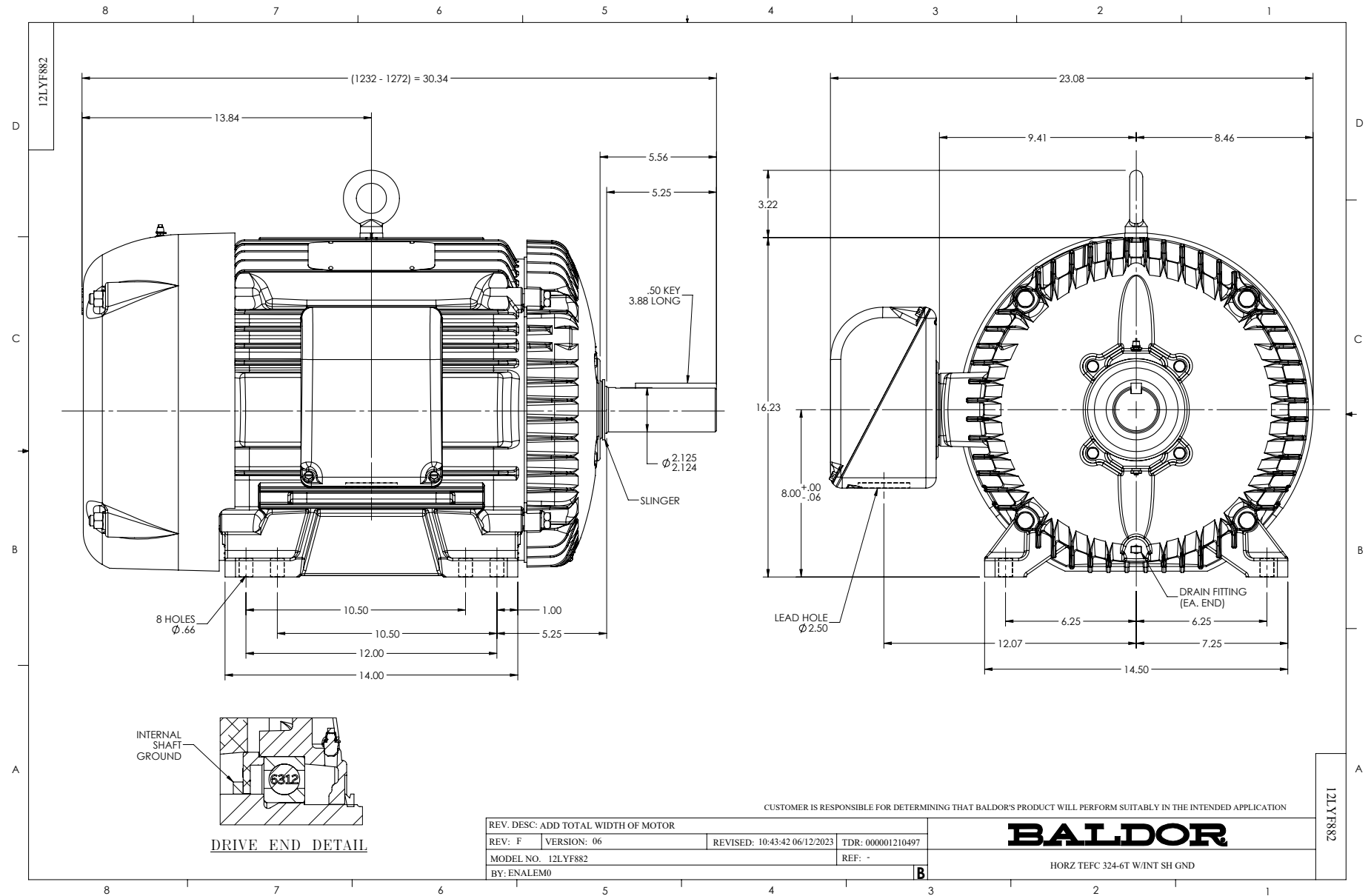
WINDING # 12WGY539

Typical performance - not guaranteed values.

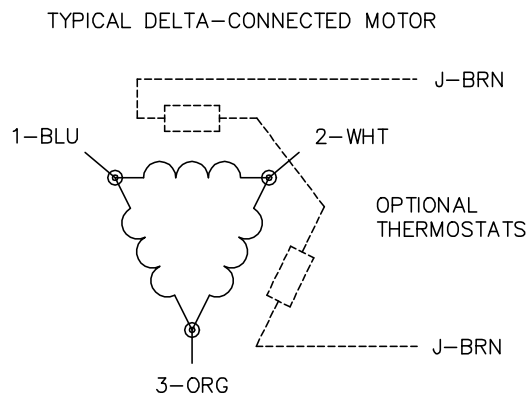
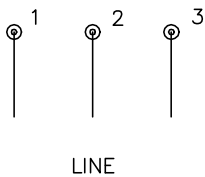
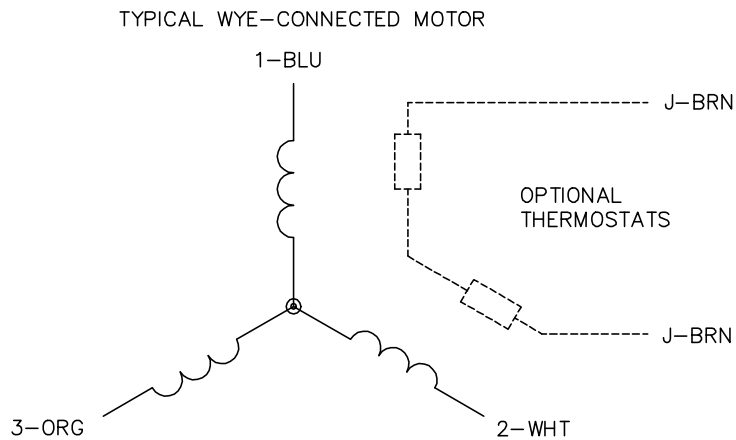
50 HP 3 PH 60 HZ 1775 RPM 575 V 1272M

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





CD0006



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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

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

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