ABB BALDOR RELIANCE

Customer information packet

EHM4115T-5

50HP, 1775RPM, 3PH, 60HZ, 326T, 1266M, 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	50.000 A @ 575.0 V
Design Code	B
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	50.0 a
Insulation Class	F

Part Detail

Revision	X
Type	AC
Mech. spec.	12G122
Base	
Status	PRD/A
Elec. spec.	12WGX283
Layout	12LYG122
Eff. date	07-10-2024
CD Diagram	CD0006
Poles	04
Leads	3#8
Proprietary	False
Created date	12-05-2011

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	1266M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	87
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	Mounting Provisions Only
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP2138L												
CAT.NO.	EHM4115T-5		**P/N**			**ENCLOSURE**	TEFC					
SPEC.	12G122X283G1	**CC**	010A	**FRAME**	326T	**S/N**						
HP	50		**CLASS**	F	**HZ**	60						
RPM	1775		**PH**	3	**DES**	B						
VOLT	575				**KVA-CODE**	H	**ODE BRG**	6311	**DE BRG**	6312		
AMP	50											
RATING	40C AMB-CONT			**GREASE**	POLYREX EM							
NEMA-NOM-EFF	94.5	**PF**	87	**SER.F.**	1.15							
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 3434
Typical performance - not guaranteed values

Winding: 12WGX283-R001	**Type:** 1266M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			50	**Full Load Torque**	149 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			45.6	**Breakdown Torque**	446 LB-FT
R.P.M.			1775	**Pull-up Torque**	210 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	229 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	318 A
Service Factor (S.F.)			1.15	**No-load Current**	16.6 A
NEMA Nom. Eff.	94.5	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.168 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	27
				Rotor inertia	8.79 LB-FT2

Load Characteristics 575 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	81	80	88	88	87	88
Efficiency	91.5	94.4	94.9	94.7	94.3	93.6	94.5
Speed	1795	1790	1784	1778	1773	1765	1775
Line amperes	22.2	25	37.6	45.6	57	69	52.44

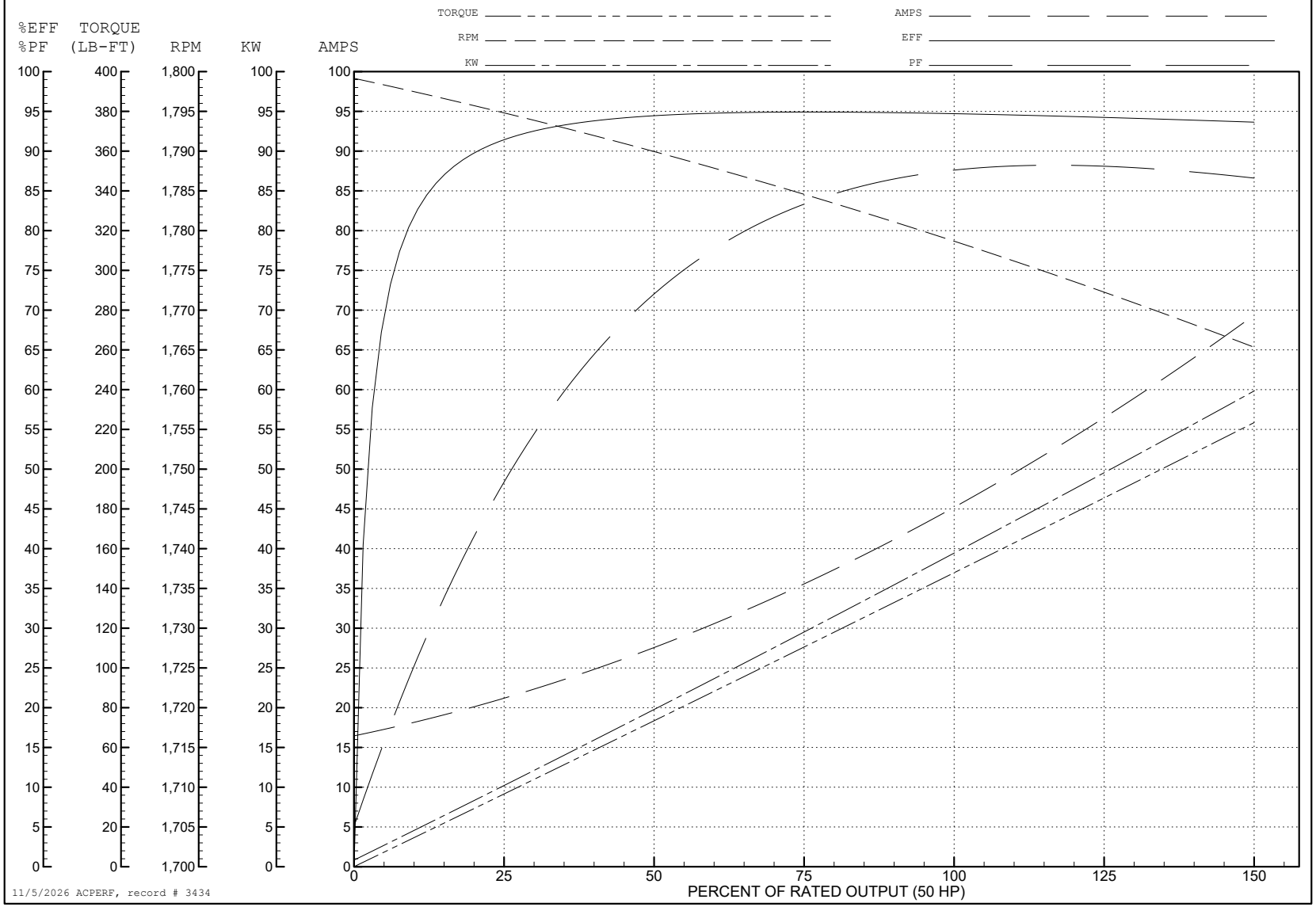
ABB Motors and Mechanical Inc.

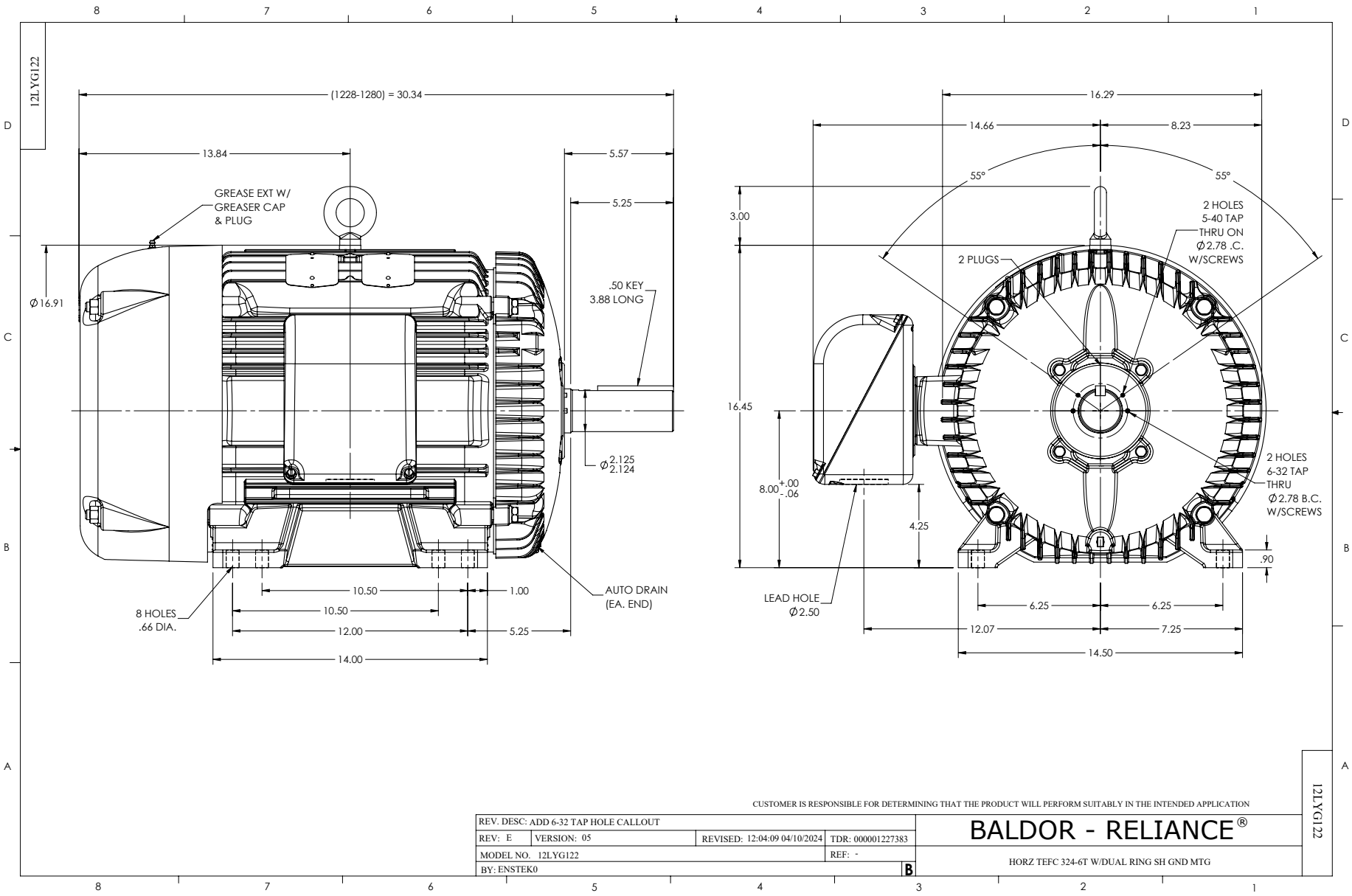
WINDING # 12WGX283

50 HP 3 PH 60 HZ 1775 RPM 575 V 1266M

Typical performance - not guaranteed values.

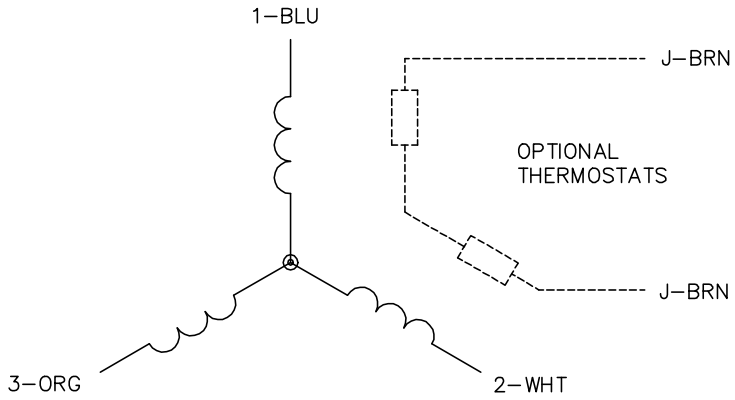
TORQUES(LB-FT): PO=446 PU=210 LR=229 LRA=318

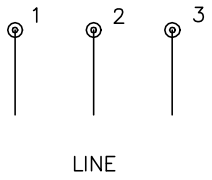



12LYG122
(1228-1280) = 30.34
13.84
5.57
5.25
GREASE EXT W/
GREASER CAP
& PLUG
Ø16.91
.50 KEY
3.88 LONG
Ø2.125
2.124
8 HOLES
.66 DIA.
10.50
1.00
10.50
12.00
5.25
14.00
AUTO DRAIN
(EA. END)
16.29
14.66
8.23
55°
55°
3.00
2 HOLES
5-40 TAP
THRU ON
Ø2.78 .C.
W/SCREWS
2 PLUGS
16.45
8.00 +.00 -.06
4.25
2 HOLES
6-32 TAP
THRU
Ø2.78 B.C.
W/SCREWS
.90
LEAD HOLE
Ø2.50
6.25
6.25
12.07
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: E
VERSION: 05
REVISED: 12:04:09 04/10/2024
TDR: 000001227383
MODEL NO. 12LYG122
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
HORZ TEFC 324-6T W/DUAL RING SH GND MTG
12LYG122

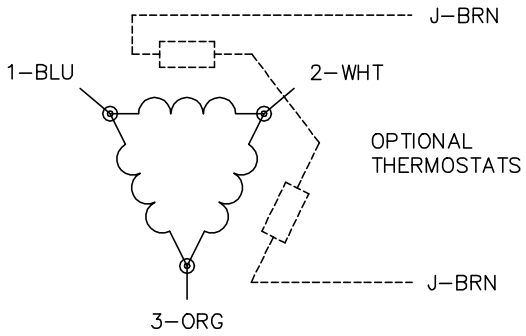
CD0006

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

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