

**BALDOR® • RELIANCE** 

**Product Information Packet**

**EHM4115T-5**

**50HP,1775RPM,3PH,60HZ,326T,1266M,TEFC,F1**

Part Detail							
Revision:	T	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	12WGX283	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	12G122	Layout:	12LYG122	Poles:	04	Created Date:	12-05-2011
Base:	RG	Eff. Date:	07-20-2021	Leads:	3#8		

Specs			
Catalog Number:	EHM4115T-5	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Ready
Frame:	326T	KVA Code:	H
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	50.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 8 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	575.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	1266M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	87
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	Mounting Provisions Only

<b>Current @ Voltage:</b>	50.000 A @ 575.0 V	<b>Shaft Rotation:</b>	Reversible
<b>Design Code:</b>	B	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Drip Cover:</b>	No Drip Cover	<b>Speed Code:</b>	Single Speed
<b>Duty Rating:</b>	CONT	<b>Motor Standards:</b>	NEMA
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Starting Method:</b>	Direct on line
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Bearing:</b>	None
<b>Front Face Code:</b>	Standard	<b>Thermal Device - Winding:</b>	None
<b>Front Shaft Indicator:</b>	None	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	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				USABLE AT 208V						
RATING	40C AMB-CONT			GREASE	POLYREX EM						
NEMA-NOM-EFF	94.5	PF	87	SER.F.	1.15						
HTR-VOLTS			HTR-AMPS								

Parts List		
Part Number	Description	Quantity
SA235199	SA 12G122X283G1	1.000 EA
RA222161	RA 12G122X283G1	1.000 EA
09FN3001B03SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 EA
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
12EP1107A05	FR ENDPLATE, MACH	1.000 EA
HA3400A13	STUD, 1/2-13 X 7" WELKER	4.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
HW5100A13	W4627-047 WVY WSHER	1.000 EA
10XN3118K40	5/16-18 X 2.25" HEX HD, GRADE 5	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
12EP1106A69	PU ENDPLATE, MACH	1.000 EA
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
12FH1002SP	FAN COVER, CAST	1.000 EA
HW1001A50	LOCKWASHER 1/2, ZINC PLT.,.879 OD, .509 I	4.000 EA
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
10GS1000SP	GASKET, CONDUIT BOX LID	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 EA
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
HW4500A35	1/8 NPT STEEL .50 HEX CAP	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 LB
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.080 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP2138L	ALUM SUPER-E UL CSA-EEV PREM CC (300	1.000 EA
12PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 EA
FE-0000022	ZRTG FE ASSEMBLY	1.000 EA

**AC Induction Motor Performance Data**

Record # 3434

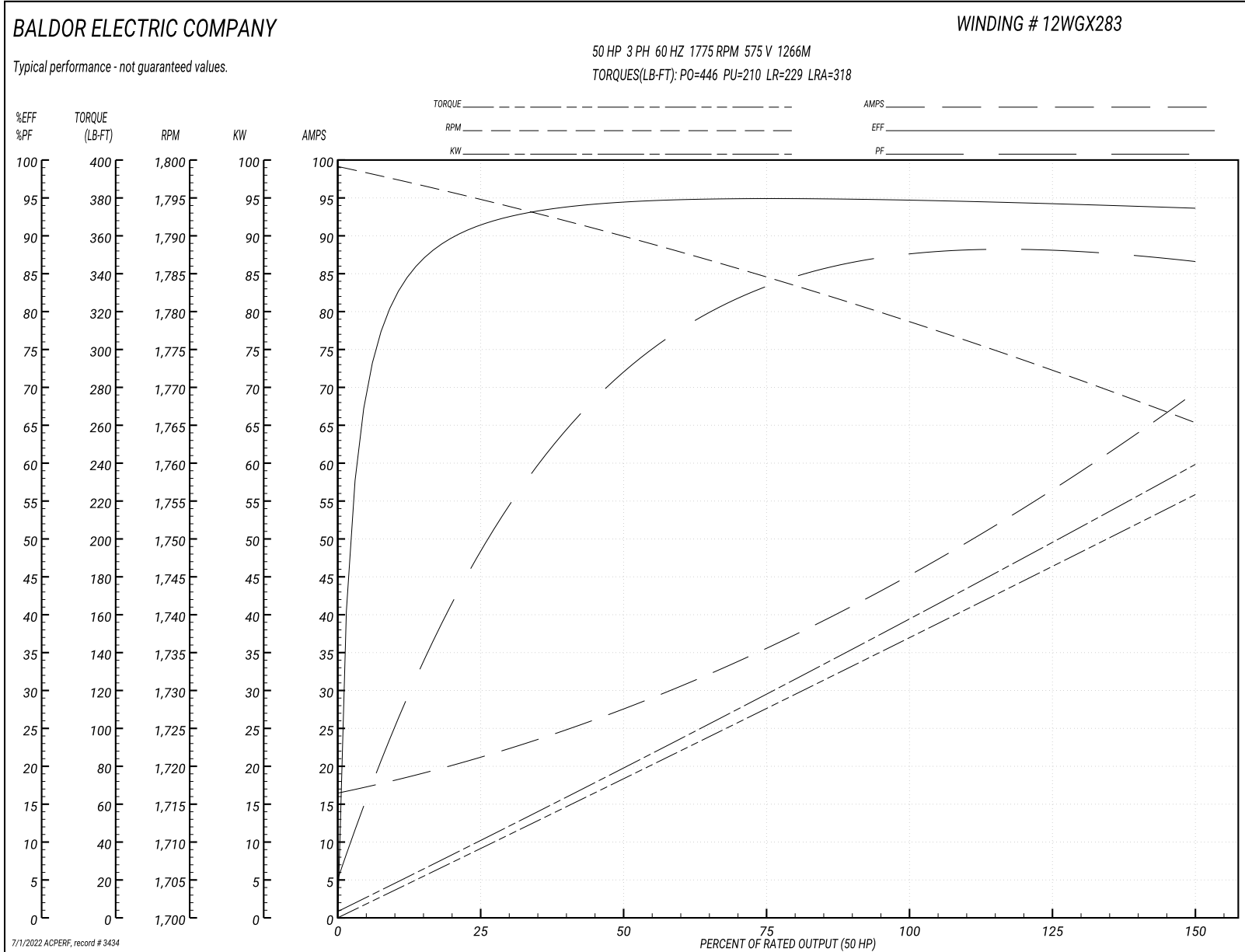
Typical performance - not guaranteed values

Winding: 12WGX283-R001		Type: 1266M	Enclosure: TEFC		
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
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. @ 25°C	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-FT <sup>2</sup>	

**Load Characteristics 575 V, 60 Hz, 50 HP**

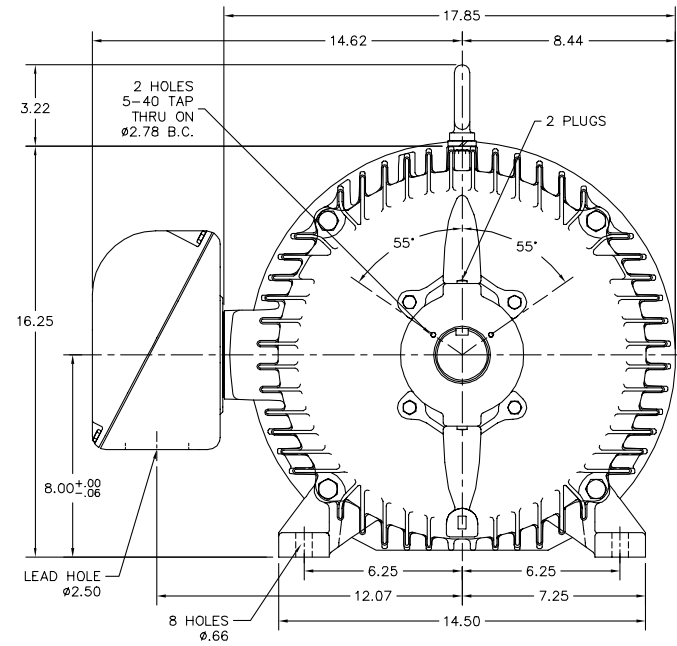
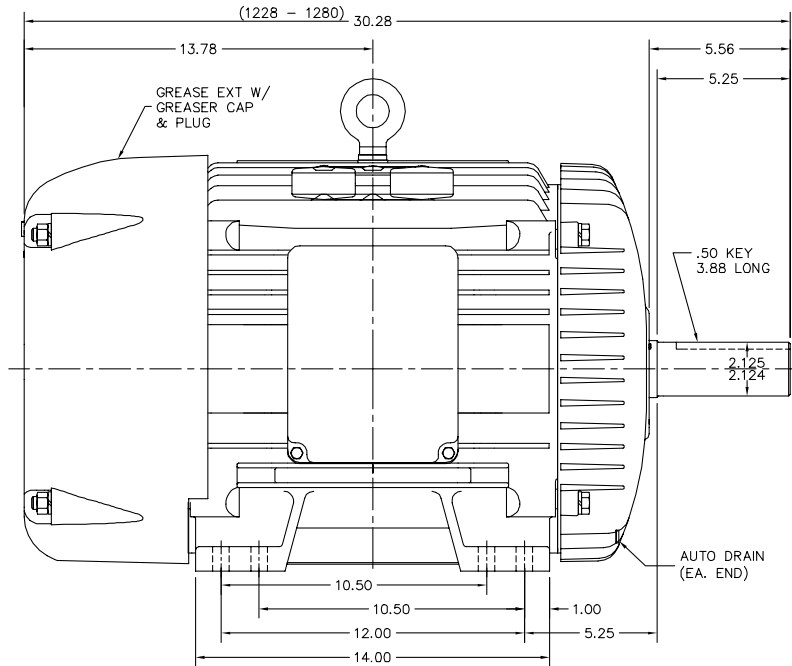
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	81	80	88	88	87	88
Efficiency	91.5	94.4	94.9	94.7	94.3	93.6	94.5
Speed	1795	1790	1784	1778	1773	1765	1775
Line amperes	22.2	25	37.6	45.6	57	69	52.44

Performance Graph at 575V, 60Hz, 50.0HP Typical performance - Not guaranteed values





12LYG122



12LYG122

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: REMOVE LOCKNUT	VERSION: 03	TDR: 000000953592
REV. LTR: C	REVISED: 01:34:26 11/16/2015	BY: ENMARSO
FILE: \AAA\00175\435		
MTL: -		

**BALDOR**

HORZ TEFC 324-6T W/1/2 RING SH GND MTG  
SH 1 of 1

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

SH 1 of 1

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