ABB BALDOR RELIANCE

Customer information packet

CEWDM4115T

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

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Specifications

Enclosure	TEFC
Frame	326TC
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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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	58.000 A @ 460.0 V
	128.000 A @ 208.0 V
	116.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY141
Layout	12LYP032
Eff. date	11-21-2024
CD Diagram	CD0180
Poles	04
Leads	9#8 Y
Proprietary	False
Created date	08-16-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	58.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
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	Washdown Features
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1669L									
CAT.NO.	CEWDM4115T								
SPEC.	12-0000-0980								
HP	50								
VOLTS	230/460 20:1 CT/VT								
AMP	116/58								
RPM	1775								
FRAME	326TC	**HZ**	60			**PH**	3		
SER.F.	1.00	**CODE**	H	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	94.5	**PF**	85						
RATING	40C AMB-CONT								
CC	010A								
DE	6312	**ODE**	6311						
ENCL	TEFC	**SN**							
BLANK	1.15SF ON SINEWAVE								

AC Induction Motor Performance Data
Record # 31496
Typical performance - not guaranteed values

Winding: 12WGY141-R003	**Type:** 1272M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	147 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			116/58	**Breakdown Torque**	396 LB-FT
R.P.M.			1775	**Pull-up Torque**	183 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	254 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	397 A
Service Factor (S.F.)			1.15	**No-load Current**	19.8 A
NEMA Nom. Eff.	94.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.10889 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	79°C
				Locked-rotor Power Factor	26.4
				Rotor inertia	9.59 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	53	74	83	86	87	87	87
Efficiency	91.3	94.3	94.8	94.6	94	93.1	94.2
Speed	1794.5	1789.3	1783.5	1777.5	1770.7	1761.5	1773
Line amperes	24.2	33.5	44.7	57.6	71.5	90	65.9

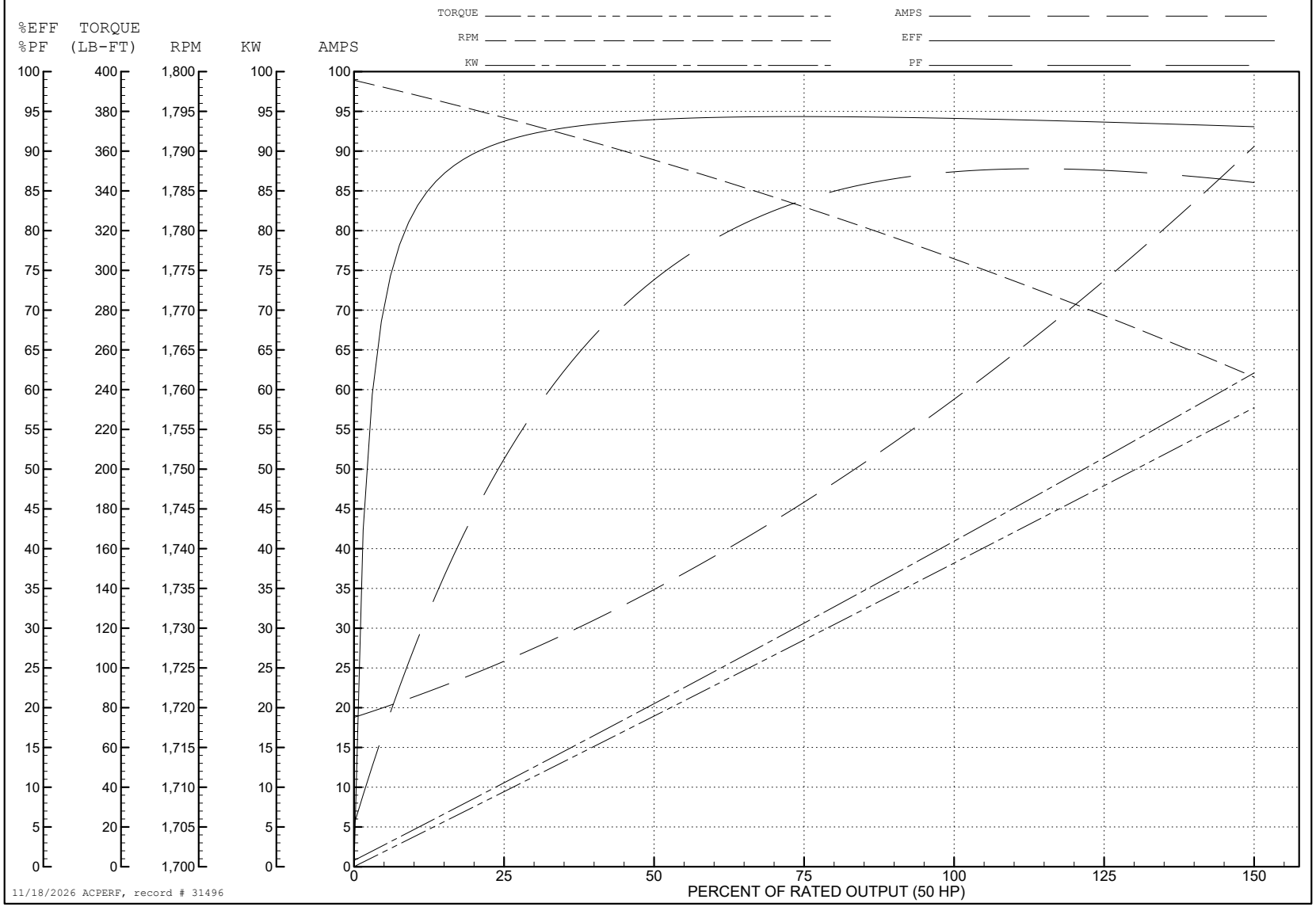
ABB Motors and Mechanical Inc.

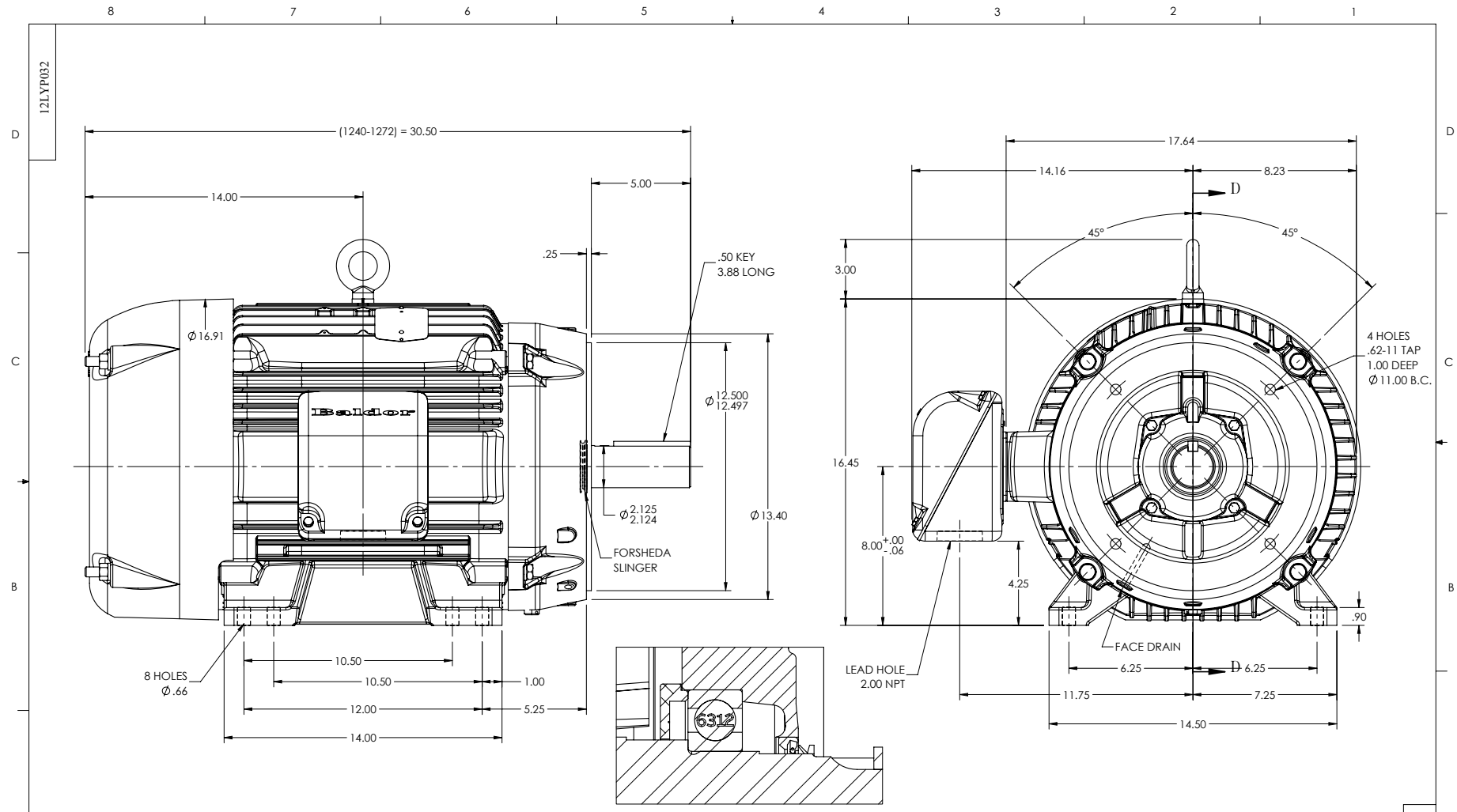
WINDING # 12WGY141

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

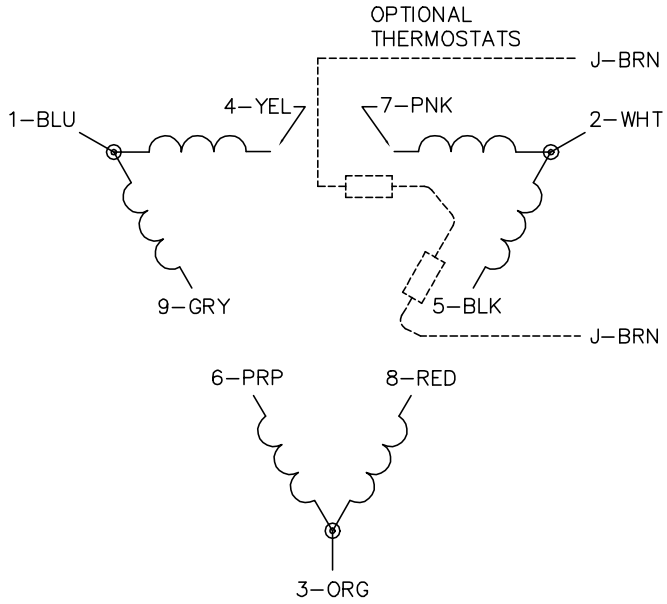
Typical performance - not guaranteed values.

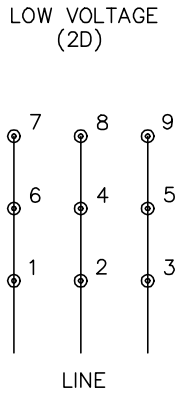
TORQUES(LB-FT): PO=396 PU=183 LR=254 LRA=397

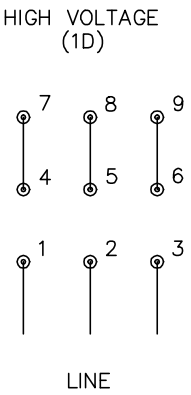



12LYP032
(1240-1272) = 30.50
14.00
5.00
.25
.50 KEY
3.88 LONG
Ø16.91
Ø12.500
12.497
Ø2.125
2.124
Ø13.40
FORSHEDA
SLINGER
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
6312
17.64
14.16
8.23
D
45°
45°
3.00
4 HOLES
.62-11 TAP
1.00 DEEP
Ø11.00 B.C.
16.45
8.00 +.00 -.06
4.25
.90
FACE DRAIN
LEAD HOLE
2.00 NPT
6.25
D 6.25
11.75
7.25
14.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD SEAL DETAIL VIEW
REV: F
VERSION: 04
REVISED: 10:52:15 09/19/2024
TDR: 000001241155
MODEL NO. 12LYP032
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HOR TEFC 324-6TC W/WASHDOWN FEATURES
12LYP032

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