ABB BALDOR RELIANCE

Customer information packet

IDM4111T

60M 6P TEBC HOR 324T INV DUTY TSTATS
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEBC
Frame	324T
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	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	BLOWER
Current @ Voltage	32.000 A @ 460.0 V
	63.000 A @ 230.0 V
	69.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	32.0 a

Part Detail

Revision	F
Type	AC
Mech. spec.	12T107
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LYT107
Eff. date	08-18-2025
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	03-19-2019

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	3900 rpm
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	36.92 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1163L									
CAT NO	IDM4111T								
SPEC.	12T107Y116G1								
FRAME	324T			**HP**	25 TE				
VOLTS	230/460								
MAG CUR	27.6/13.8				**FLA**	63/32			
RPM	1180			**RPM MAX**	3900				
HZ	60	**PH**	3		**CLASS**	H			
SER.F.	1.00	**DES**	A			**SL HZ**	0.8		
NEMA-NOM-EFF	93		**WK2**	11.5					
BLWR V		**PH**		**HZ**		**A**			
RATING	40C AMB-CONT								
DE BRG	6312			**ODE BRG**	6311				
CC	010A	**SN**							
	1000:1 CT, 1000:1 VT								

NP VOLTS	230/460	MAX SAFE RPM	3900	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	63/32	Base Volt	460	R1	0.156	X1	0.866
HP	25HP	NL AMPS	13.8	R2	0.109	X2	0.853
BASE SPEED	1180	Slips (Hz)	0.80			XM	19.100
PHASE/HZ	3/60	WK^2 (lb-ft^2)	11.5				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1184	25.0	111.0	460	60	31.9
Max Speed	1775	25.0	74.1	460	90	30.7
Min Speed	0	0.0	111.0	21.89	0.80	31.9

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1199	0.0	0.0	460	60	13.8
1/4	1195	6.3	27.6	460	60	15.6
1/2	1192	12.6	55.4	460	60	19.7
3/4	1188	18.8	83.1	460	60	25.4
Full Load	1184	25.0	111.0	460	60	31.9
O/L	1164	50.1	226.0	460	60	64.5

Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

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DR BY	BR
CK BY	
APP BY	BR
DATE	3/28/2017

A-C MOTOR PERFORMANCE CURVES

12WGY116

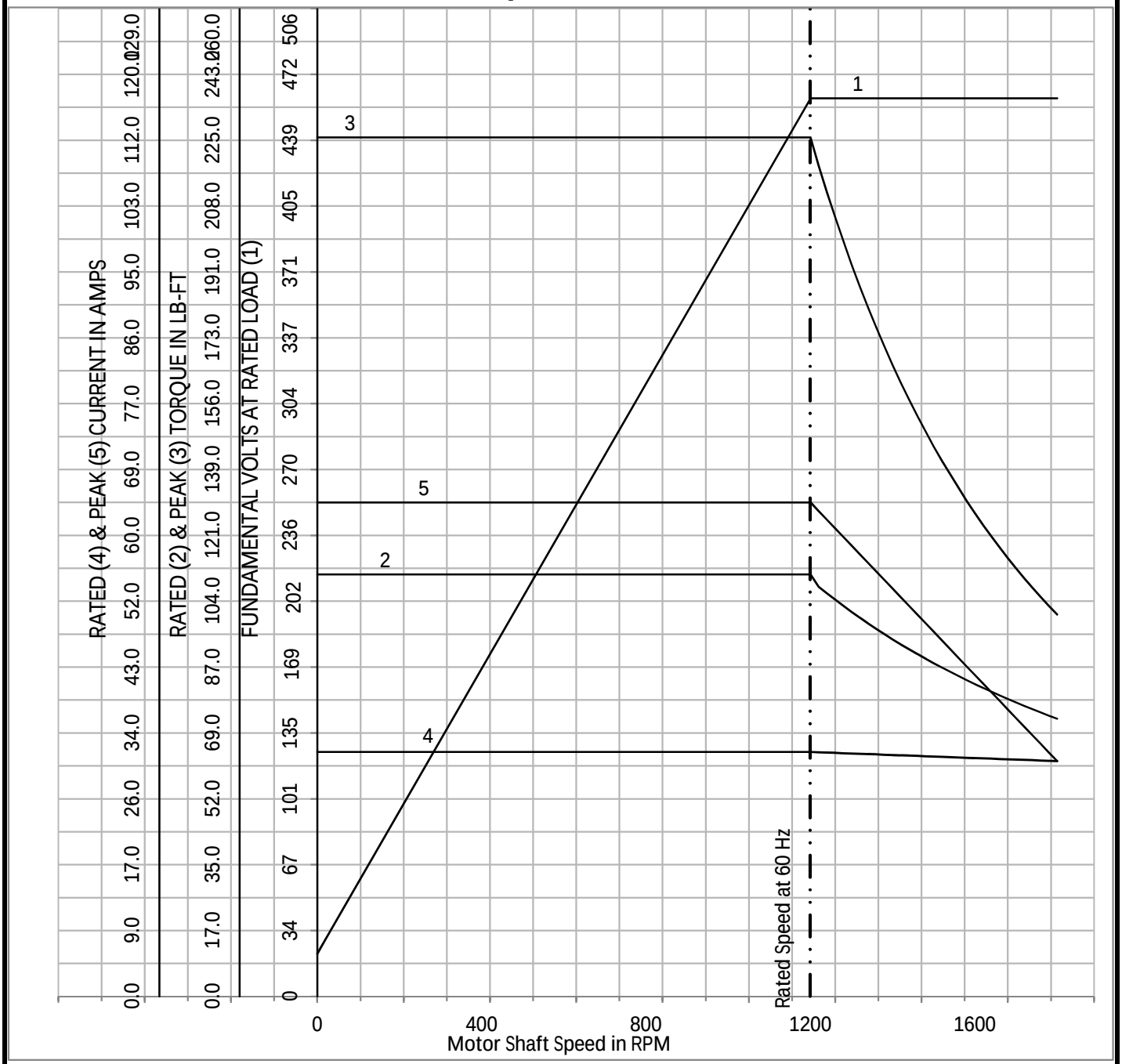
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WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)

R1	0.156	X1	0.866
R2	0.109	X2	0.853
		XM	19.100

Vector PWM Inverer Duty

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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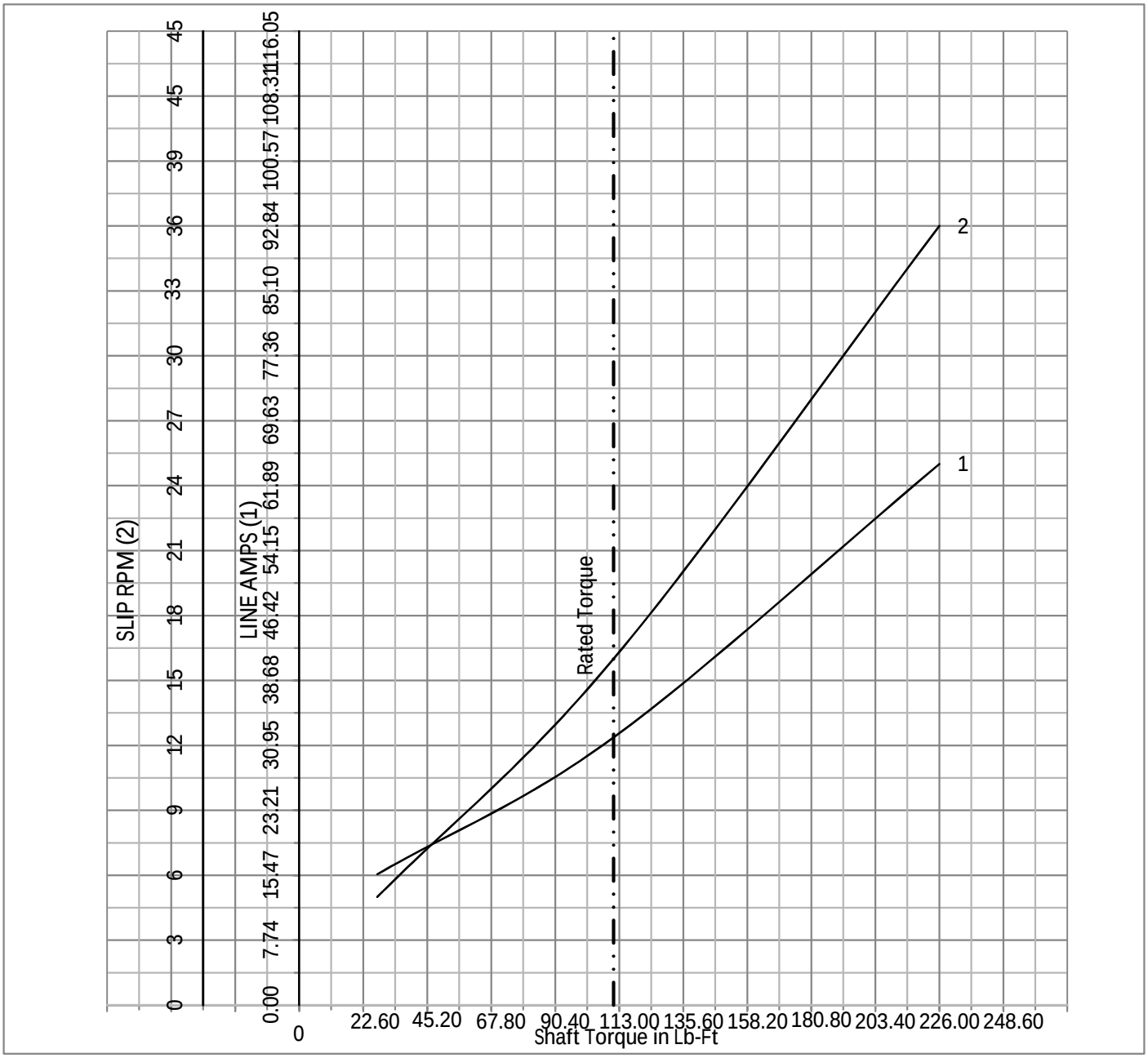
A-C MOTOR PERFORMANCE CURVES

12WGY116

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PHASE/HZ	3/60	WK2 (lb-ft2)	11.5				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

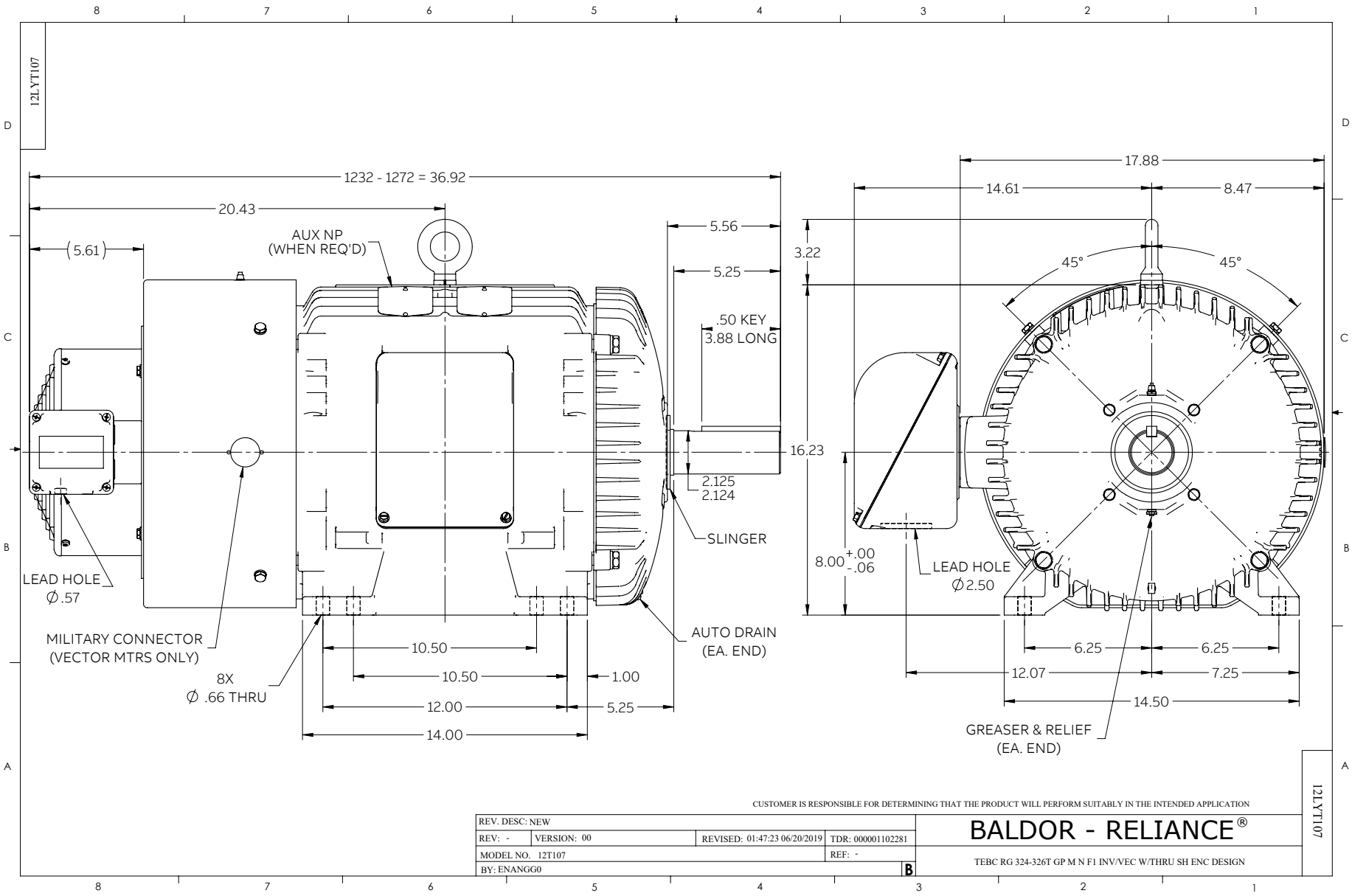
Data Valid For Nameplate Speed Range only

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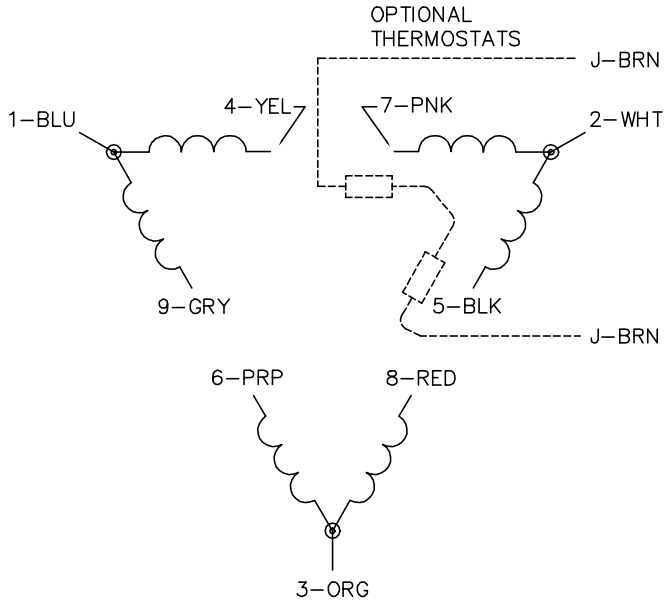
DR BY	BR
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APP BY	BR
DATE	3/28/2017

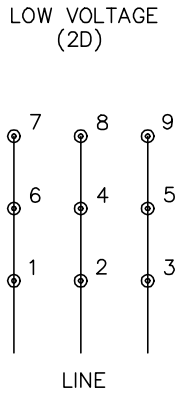
A-C MOTOR PERFORMANCE CURVES

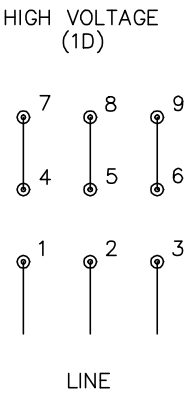
12WGY116


12LYT107
1232 - 1272 = 36.92
20.43
5.61
AUX NP
(WHEN REQ'D)
5.56
5.25
.50 KEY
3.88 LONG
16.23
2.125
2.124
SLINGER
LEAD HOLE
∅.57
MILITARY CONNECTOR
(VECTOR MTRS ONLY)
8X
∅ .66 THRU
10.50
10.50
1.00
12.00
5.25
14.00
AUTO DRAIN
(EA. END)
17.88
14.61
8.47
3.22
45°
45°
8.00 +.00 -.06
LEAD HOLE
∅2.50
6.25
6.25
12.07
7.25
14.50
GREASER & RELIEF
(EA. END)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 01:47:23 06/20/2019 TDR: 000001102281
MODEL NO. 12T107 REF: -
BY: ENANGG0 B
BALDOR - RELIANCE®
TEBC RG 324-326T GP M N F1 INV/VEC W/THRU SH ENC DESIGN
12LYT107

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