ABB BALDOR RELIANCE

Customer information packet

ZDM4117T

64M 6P TEBC HOR 326T VECTOR TSTATS
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEBC
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	30.000 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	UR
	CSA
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	39.000 A @ 460.0 V
	78.000 A @ 230.0 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	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a
Insulation Class	H

Part Detail

Revision	E
Type	AC
Mech. spec.	12T107
Base	
Status	PRD/A
Elec. spec.	12WGY812
Layout	12LYT107
Eff. date	08-18-2025
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	03-14-2019

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	1264M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	36.92 IN
Power Factor	78
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

NP1168L							
CAT NO	ZDM4117T						
SPEC.	12T107Y812Z1						
FRAME	326T		**HP**	30 TE			
VOLTS	230/460						
MAG CUR	34.4/17.2			**FLA**	78/39		
RPM	1180		**RPM MAX**	3900			
HZ	60	**PH**	3	**CLASS**	H		
SER.F.	1.00	**DES**	A	**SL HZ**	1		
NEMA-NOM-EFF	93	**WK2**	12.2				
BLWR V		**PH**		**HZ**		**A**	
RATING	40C AMB-CONT						
DE BRG	6312		**ODE BRG**	6311			
CC	010A	**SER.NO**					
	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	78/39	Base Volt	460	R1	0.118	X1	0.692
HP	30HP	NL AMPS	17.2	R2	0.086	X2	0.688
BASE SPEED	1180	Slips (Hz)	0.85			XM	14.900
PHASE/HZ	3/60	WK^2 (lb-ft^2)	12.2				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1183	30.0	133.0	460	60	38.7
Max Speed	1774	30.0	88.7	460	90	36.7
Min Speed	0	0.0	133.0	20.98	0.85	38.7

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1199	0.0	0.0	460	60	17.2
1/4	1197	7.6	33.3	460	60	19.2
1/2	1192	15.1	66.5	460	60	24.1
3/4	1188	22.6	100.0	460	60	31.0
Full Load	1183	30.0	133.0	460	60	38.7
O/L	1165	59.9	270.0	460	60	76.6

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

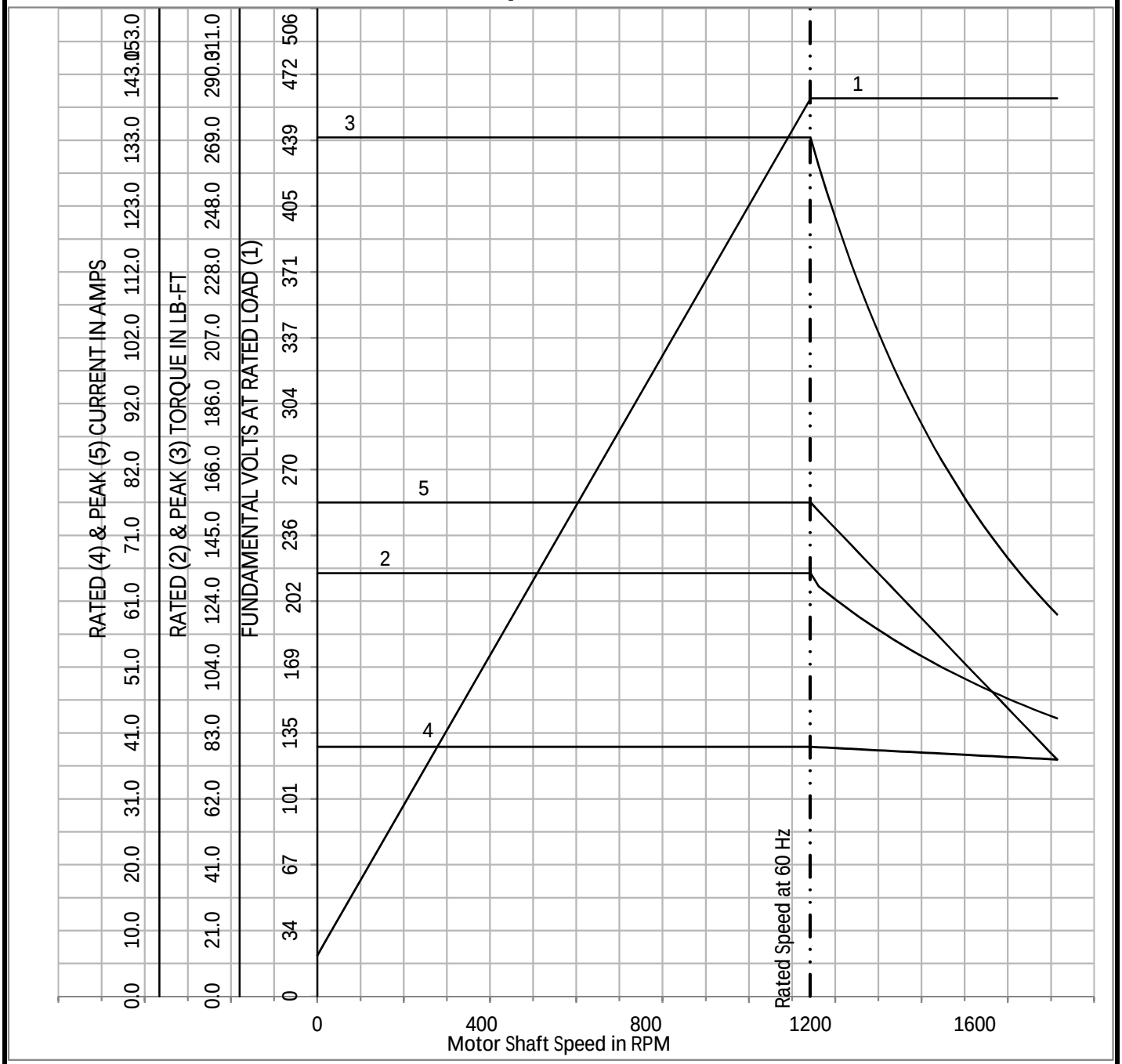
A-C MOTOR PERFORMANCE CURVES

12WGY812

NP VOLTS	230/460	MAX SAFE RPM	3900	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
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BASE SPEED	1180	Slips (Hz)	0.85			XM	14.900
PHASE/HZ	3/60	WK2 (lb-ft2)	12.2				

Vector PWM Inverer Duty

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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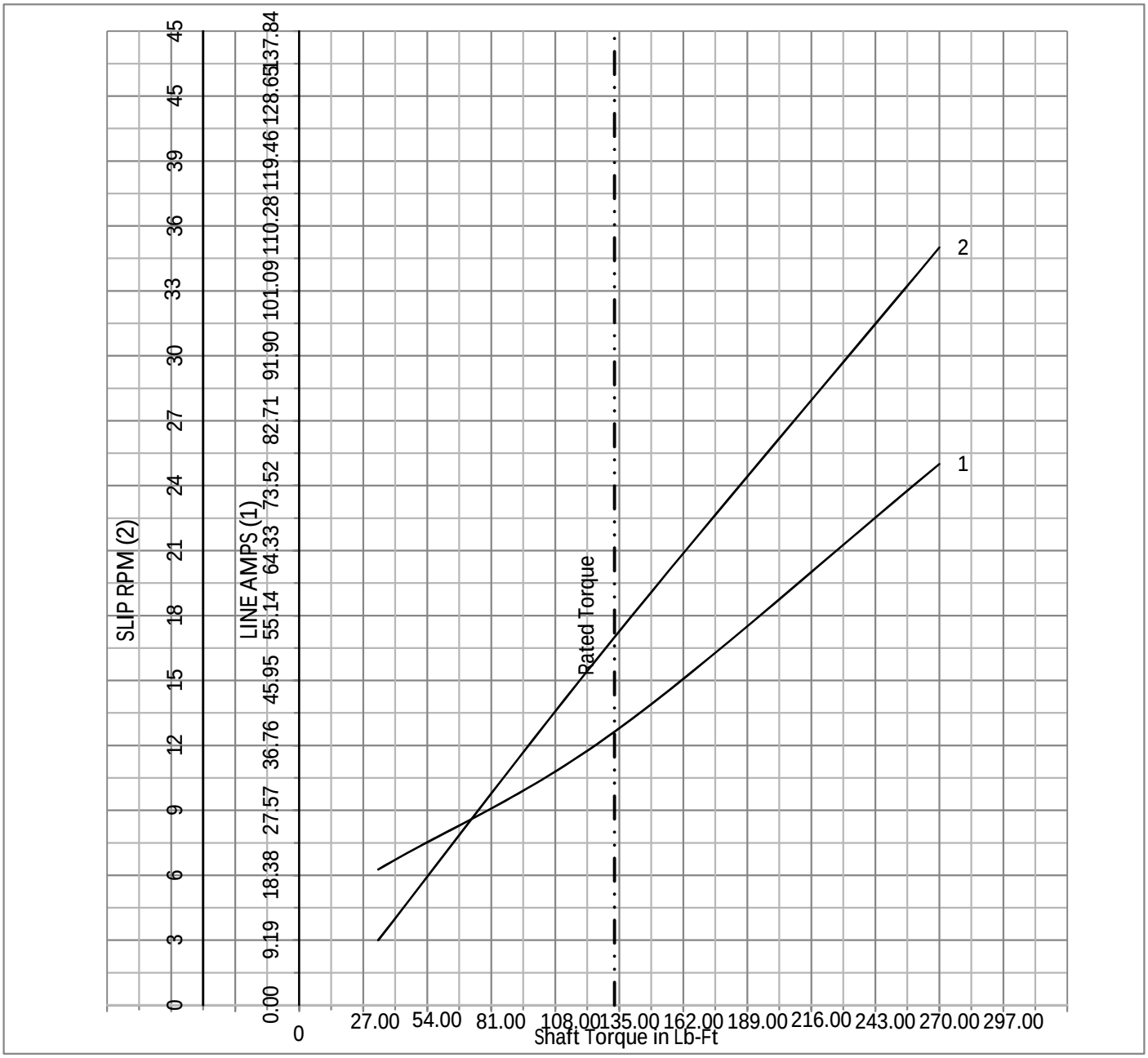
A-C MOTOR PERFORMANCE CURVES

12WGY812

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PHASE/HZ	3/60	WK2 (lb-ft2)	12.2				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

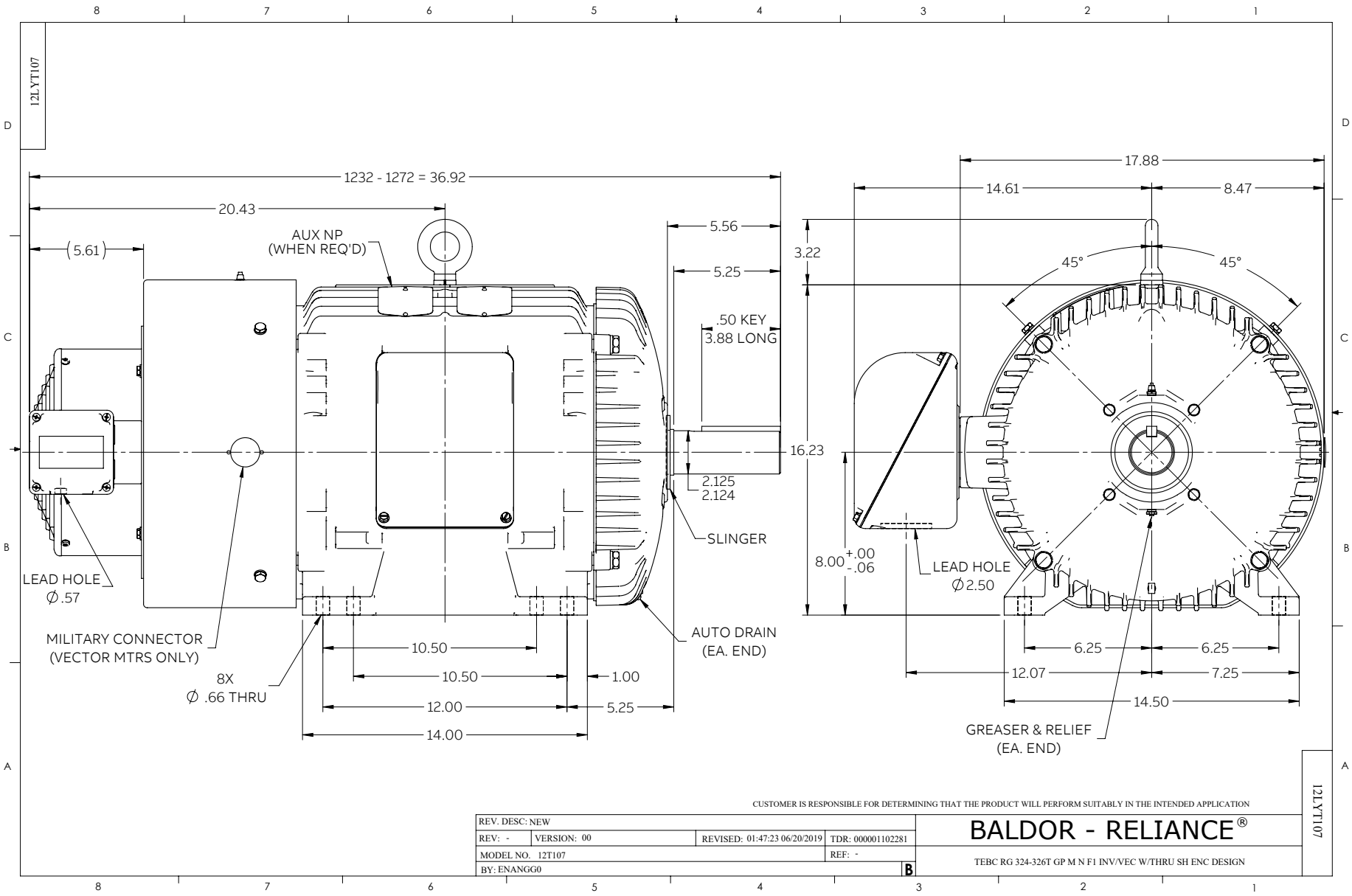
Data Valid For Nameplate Speed Range only

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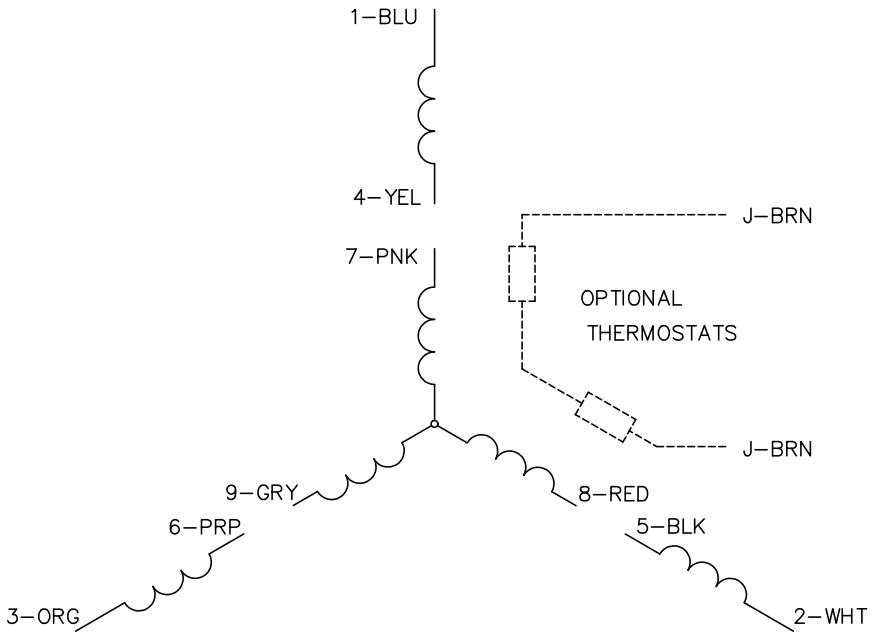
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DATE	3/28/2017

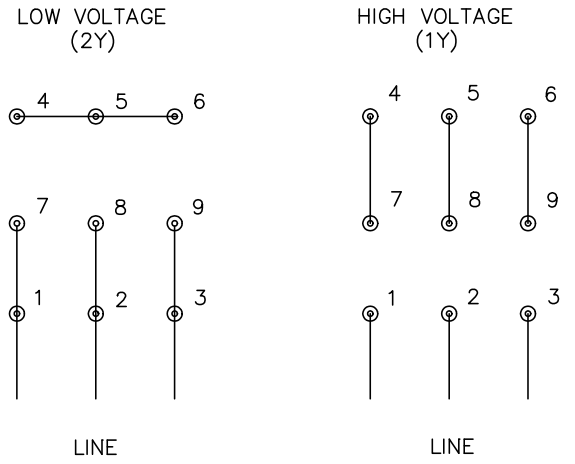
A-C MOTOR PERFORMANCE CURVES

12WGY812


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

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS