

ABB BALDOR RELIANCE III

Customer information packet

ZDM4111T

60M 6P TEBC HOR 324T VECTOR TSTATS

Class - None

Division - Not Applicable

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	ENCODER
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	03-14-2019

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
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	ZDM4111T								
SPEC.	12T107Y116Z1								
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	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	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



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

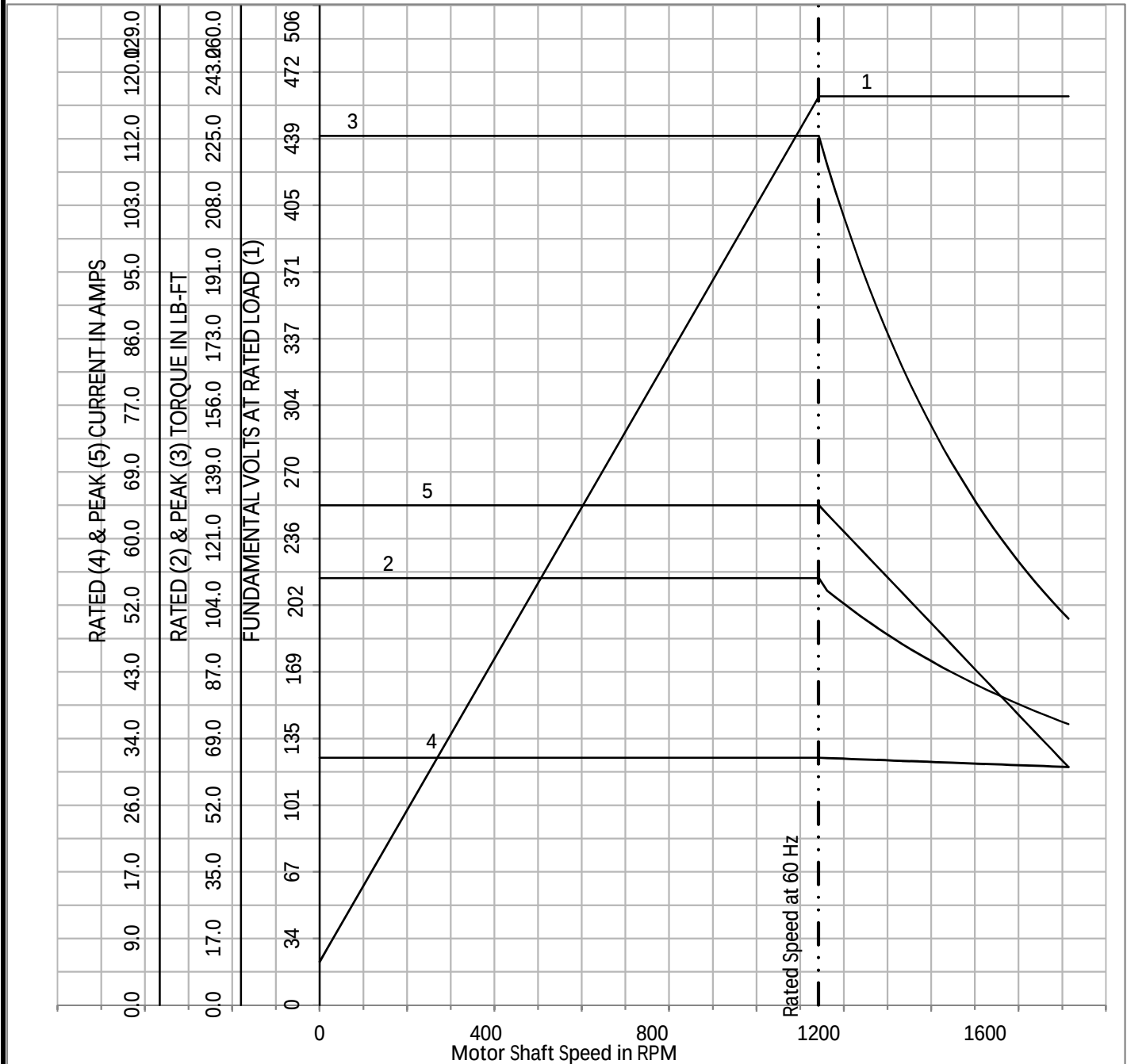
A-C MOTOR **12WGY116**
PERFORMANCE
CURVES

NP VOLTS 230/460
 NP AMPS 63/32
 HP 25HP
 BASE SPEED 1180
 PHASE/HZ 3/60

MAX SAFE RPM 3900
 Base Volt 460
 NL AMPS 13.8
 Slips (Hz) 0.80
 WK2 (lb-ft²) 11.5

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 Inverter Duty
 Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

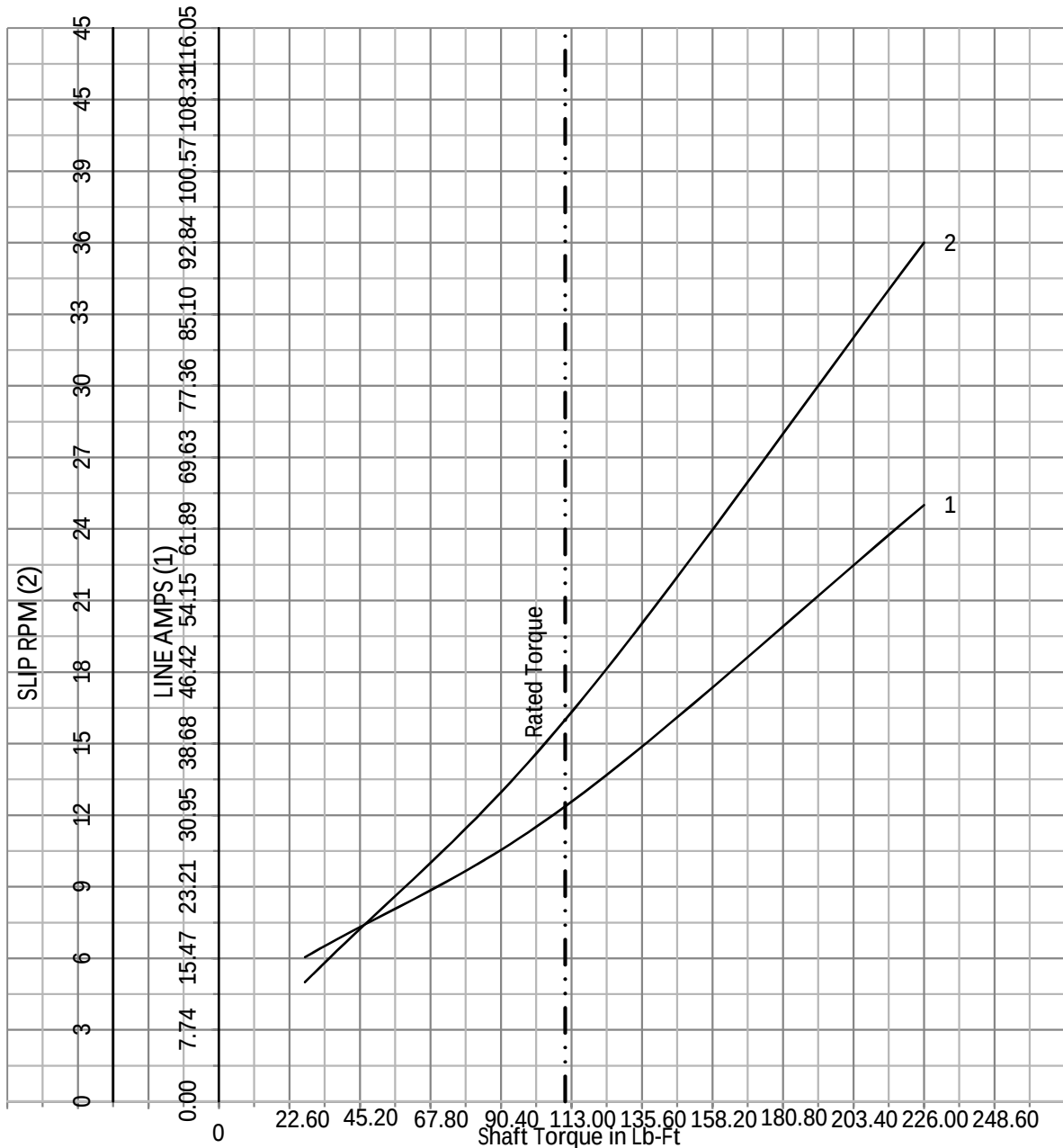


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A-C MOTOR
 PERFORMANCE
 CURVES
12WGY116

NP VOLTS	230/460	MAX SAFE RPM	3900	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
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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	WK2 (lb-ft2)	11.5				

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



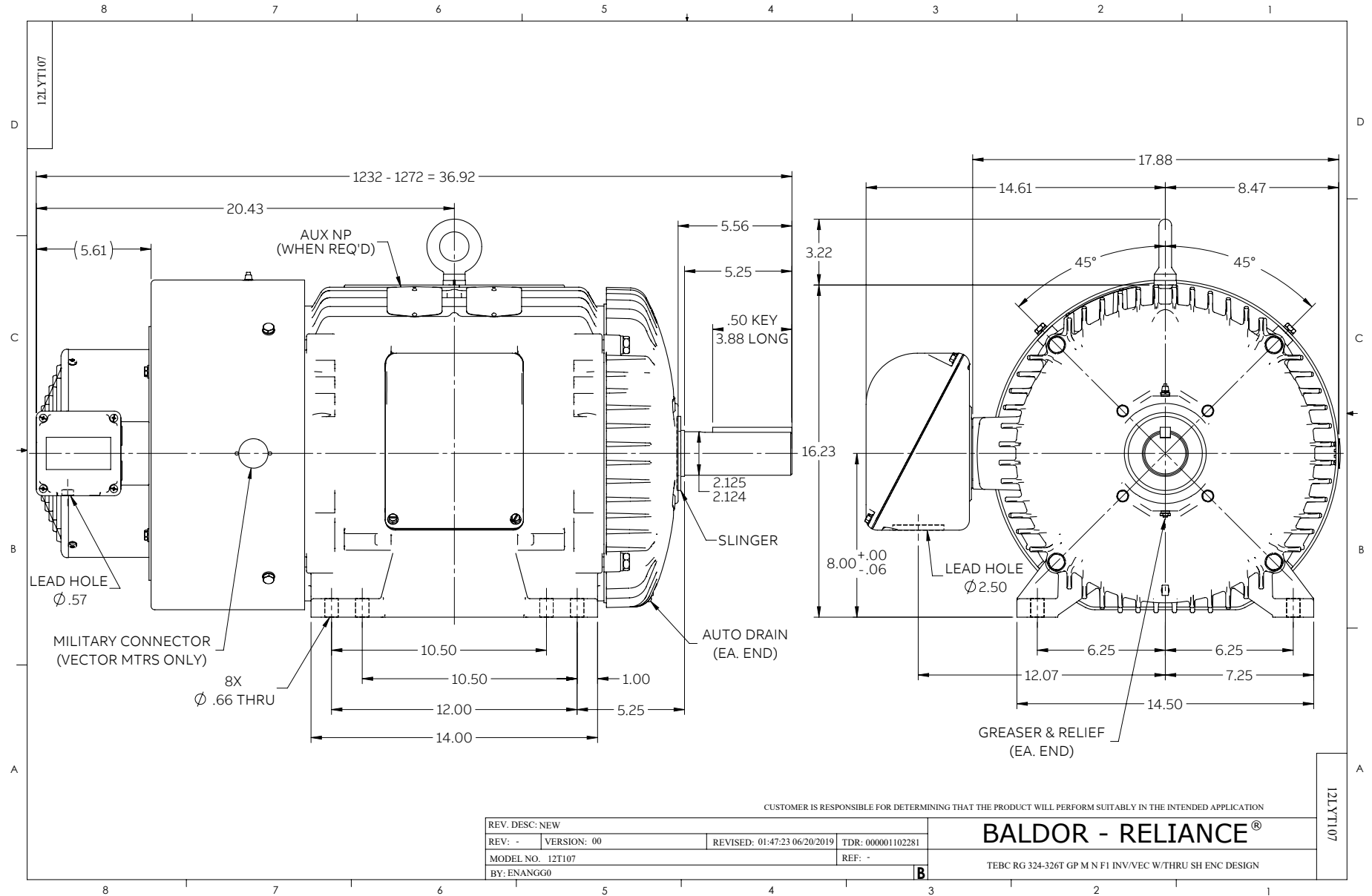
Calculated Data

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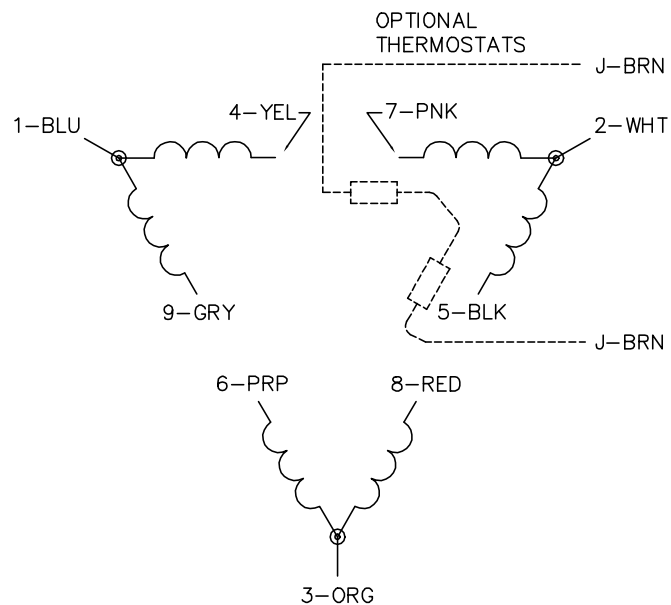


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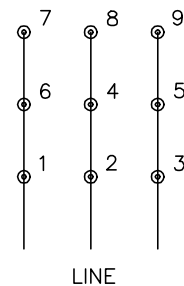
A-C MOTOR
PERFORMANCE
CURVES
12WGY116



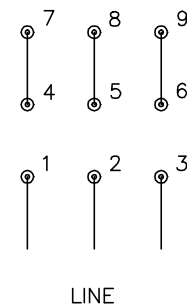
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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: ENBRIRO

MTL: —



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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