

ABB BALDOR RELIANCE III

Customer information packet

IDM2334T

60M 4P TEBC HOR 256TC T'STATS INV DUTY

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
Frame	256TC
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	24.000 A @ 460.0 V 48.000 A @ 230.0 V 52.000 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	24.0 a

Part Detail

Revision	G
Type	AC
Mech. spec.	09T110
Base	
Status	PRD/A
Elec. spec.	09WGT459
Layout	09LYT110
Eff. date	08-28-2025
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	03-18-2019

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	29.41 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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	IDM2334T								
SPEC.	09T110T459G1								
FRAME	256TC			HP	20 TE				
VOLTS	230/460								
MAG CUR	20.8/10.4			FLA		48/24			
RPM	1770			RPM MAX		2700			
HZ	60	PH	3	CLASS		H			
SER.F.	1.00	DES	A	SL HZ		1			
NEMA-NOM-EFF	93	WK2		2.62					
BLWR V		PH		HZ		A			
RATING	40C AMB-CONT								
DE BRG	6309	ODE BRG			6208				
CC	010A	SN							
	1000:1 CT, 1000:1 VT								

ABB BALDOR/460 RELIANCE III		CUSTOMER INFORMATION PACKET		MAX SAFE RPM 2700 Base Volt 460		WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)	
HP 20 HP		NL AMPS 10.40		R1 0.167		X1 0.876	
BASE SPEED 1772		Slips(HZ) 0.94		R2 0.159		X2 1.160	
PHASE/HZ 3/60		WK2 () 0.000				XM 30.000	

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1771.9	20.0	59.3	460	60	24.0
Max Speed	2657	20.0	39.5	460	90	23.1
Min Speed	0	0.0	59.3	17.91	0.94	24.0

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1798.9	0.0	0.0	460	60	10.4
1/4	1793.2	5.0	14.7	460	60	11.8
1/2	1786.4	10.0	29.4	460	60	15.0
3/4	1779.1	15.0	44.3	460	60	19.2
Full Load	1771.9	20.0	59.3	460	60	24.0
O/L	1741	40.1	121.0	460	60	48.7

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

Remarks: Calculated Data
Vector PWM Inverter Duty

BALDOR
A MEMBER OF THE ABB GROUP

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CK BY
APP BY USBRRAN1
DATE 11/27/2017

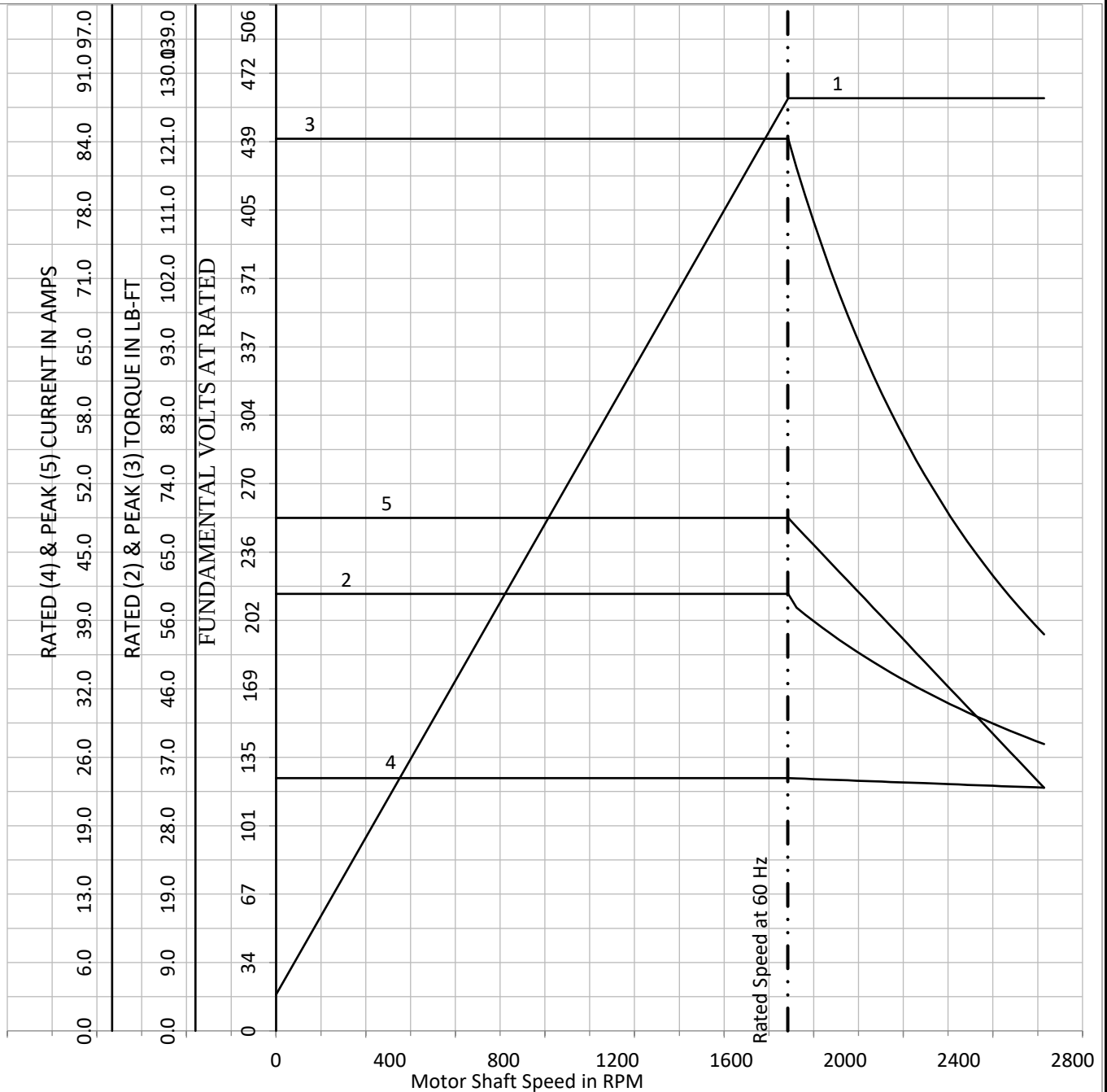
**A-C MOTOR
PERFORMANCE
CURVES**
09WGT459
Record: 67965

HP 20 HP
 BASE SPEED 1771.90002
 PHASE/HZ 3/60

MAX SAFE RPM 2700
 Base Volt 460
 NL AMPS 10.40
 Slips(HZ) 0.94
 WK2 () 0.000

WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
 R1 0.167 X1 0.876
 R2 0.159 X2 1.160
 XM 30.000

Vector PWM Inverter Duty
 Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only



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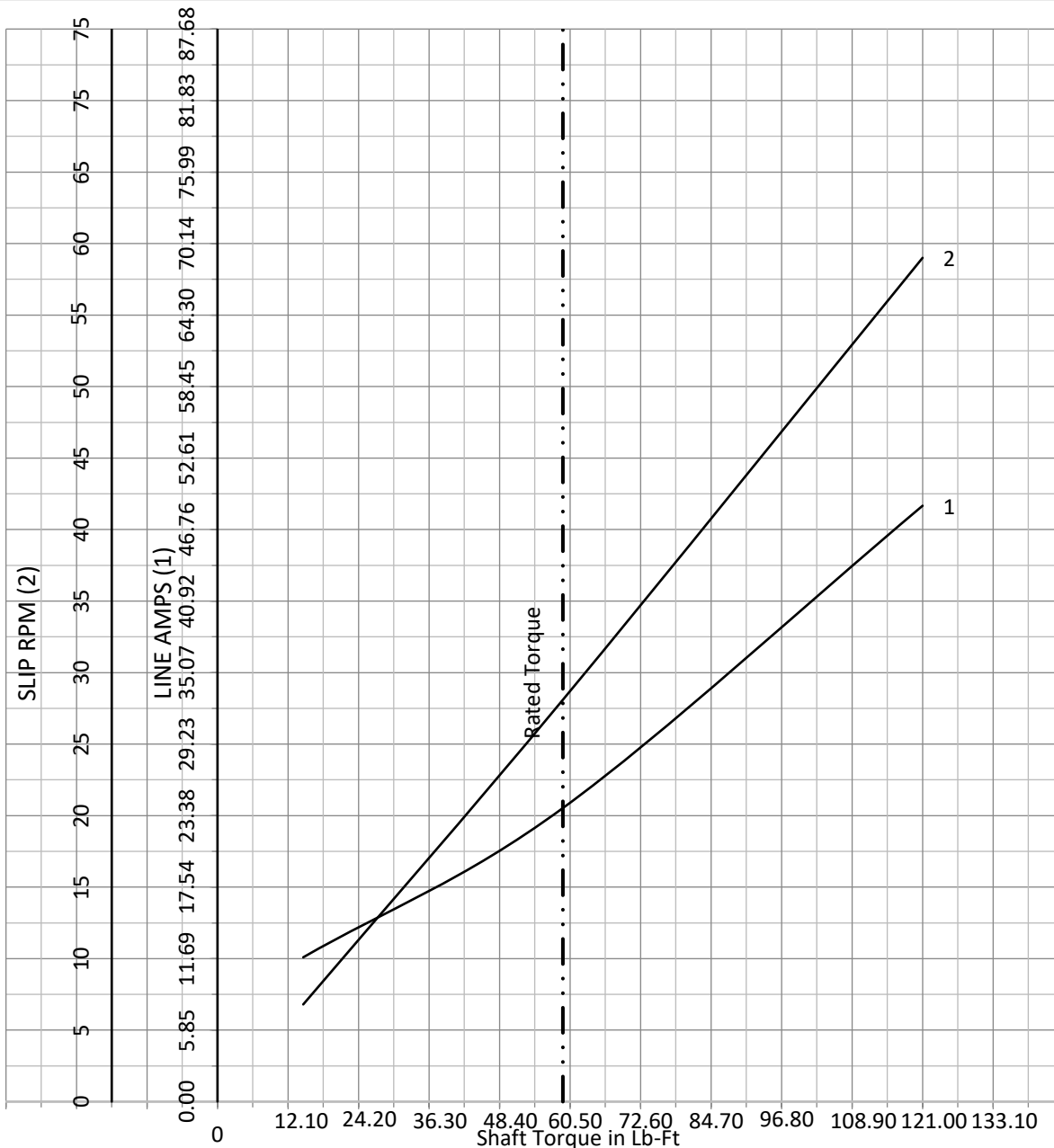
**A-C MOTOR
 PERFORMANCE
 CURVES**

09WGT459

Record: 67965

ABB BALDOR RELIANCE		CUSTOMER INFORMATION PACKET HP 20 HP BASE SPEED 1771.900024 PHASE/HZ 3/60	MAX SAFE RPM 2700 Base Volt 460 NL AMPS 10.40 Slips(HZ) 0.94 WK2 () 0.000	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) R1 0.167 X1 0.876 R2 0.159 X2 1.160 XM 30.000
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Vector PWM Inverer Duty
 Vaiable Speed AC Motor Curves

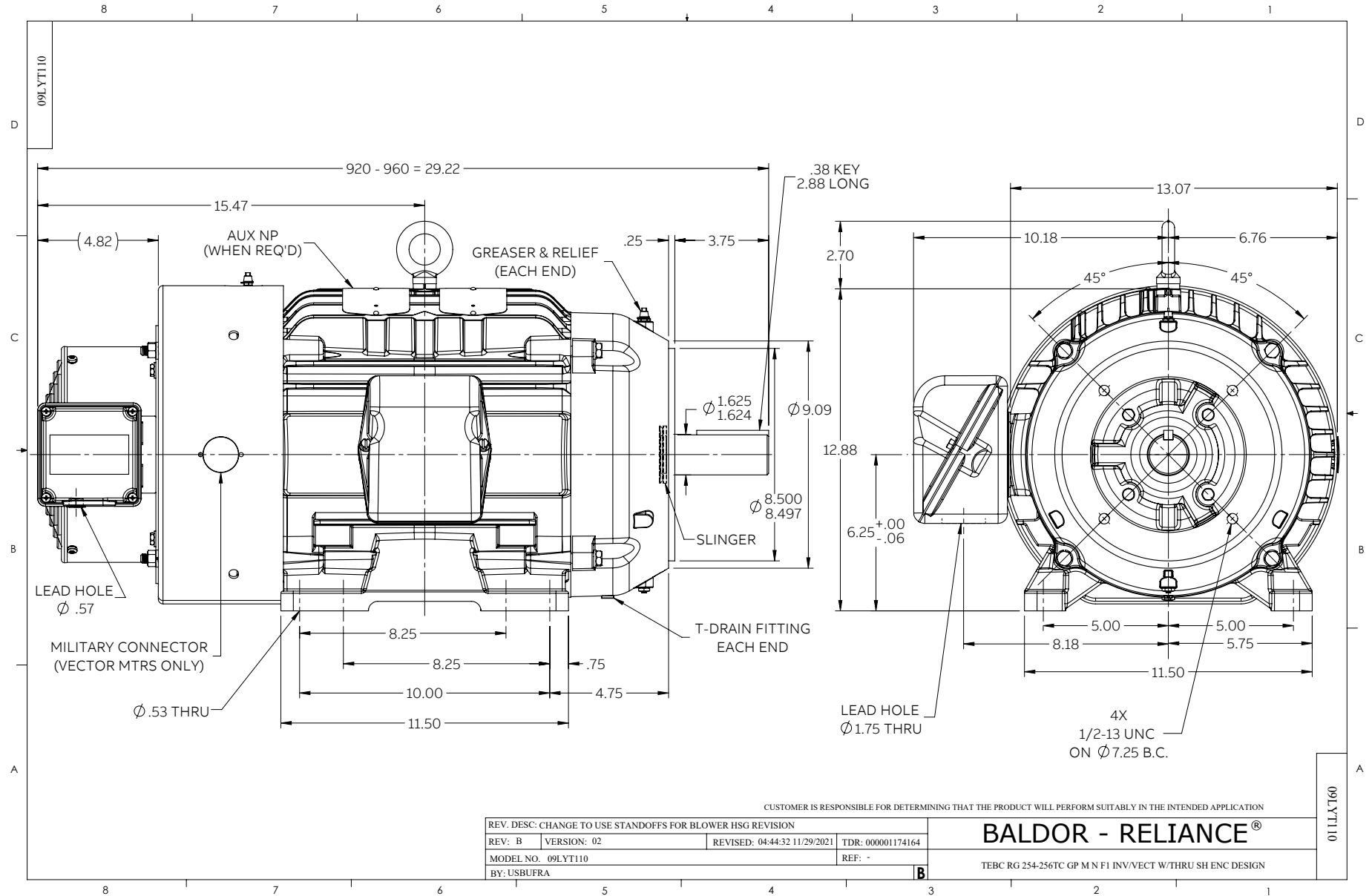


Calculated Data
 Data Valid For Nameplate Speed Range only

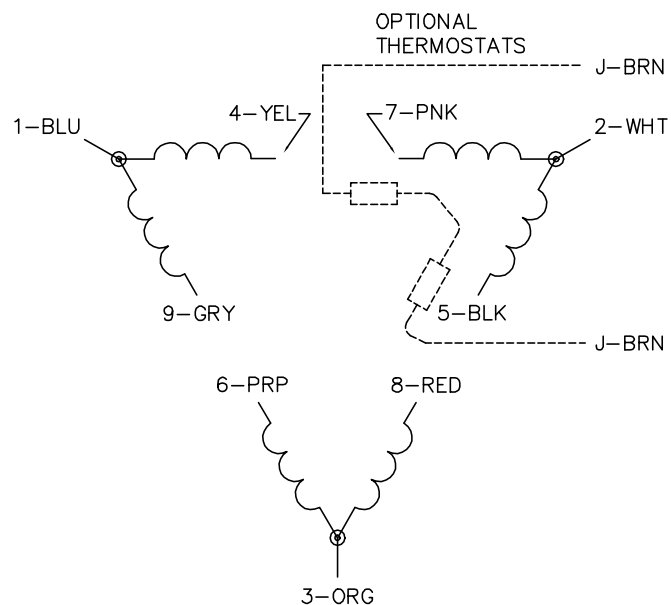
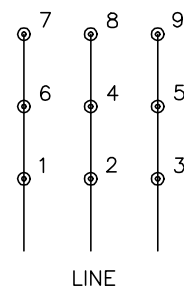
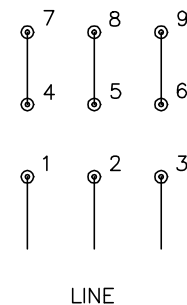


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**A-C MOTOR
 PERFORMANCE
 CURVES**
09WGT459
 Record: 67965



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.

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

SH 1 of 1

CD0180