

ABB BALDOR RELIANCE III

Customer information packet

ZDM3764T

38M 6P TEBC HOR 215TC T'STATS VECTOR

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
Frame	215TC
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	3.000 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	4.500 A @ 460.0 V 9.000 A @ 230.0 V 9.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.5 a

Part Detail

Revision	E
Type	AC
Mech. spec.	07D515
Base	
Status	PRD/A
Elec. spec.	07WGX822
Layout	07LYD515
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	03-12-2019

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2300 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.58 IN
Power Factor	70
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1165 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

NP4539L									
CAT.NO.	ZDM3764T								
SPEC.	07D515X822Z1								
FRAME	215TC			H.P.	3 TE				
VOLTS	230/460								
MAG. CUR.	4.6/2.3			F.L. AMPS				9/4.5	
R.P.M.	1165			R.P.M. MAX		2300			
HZ.	60		PH.	3	CLASS			H	
SER.F.	1.00		DES.	B	SL HZ			1.7	
NEMA NOM. EFF.	90.2		WK2	0.945					
BLWR V		PH		HZ		AMPS			
RATING	40C AMB-CONT								
DE	6307	ODE	6206						
CC	010A	SN							
	1000:1 CT/VT								

NP VOLTS	230/460			WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	9/4.5	Base Volt	460	R1	1.380	X1	7.300
HP	3	NL AMPS	2.32	R2	1.660	X2	6.590
BASE SPEED	1169	Slip (HZ)	1.55			XM	94.400
PHASE/HZ	3/60	WK ² (lb-ft ²)	0.945				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1169	3.0	13.5	460	60	4.5
Max Speed	1752	3.0	9.0	460	90	4.1
CT Min Speed	1.169	0.003	13.5	0.46	0.06	4.5

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1199	0.0	0.0	460	60	2.3
1/4	1191	0.8	3.4	460	60	2.6
1/2	1184	1.5	6.7	460	60	3.1
3/4	1176	2.3	10.1	460	60	3.7
Full Load	1169	3.0	13.5	460	60	4.5
O/L	1128	6.0	27.9	460	60	8.6

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

Remarks: Calculated Data

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DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 11/5/2024
**A-C MOTOR
PERFORMANCE
CURVES**
07WGX822

Record: 109146

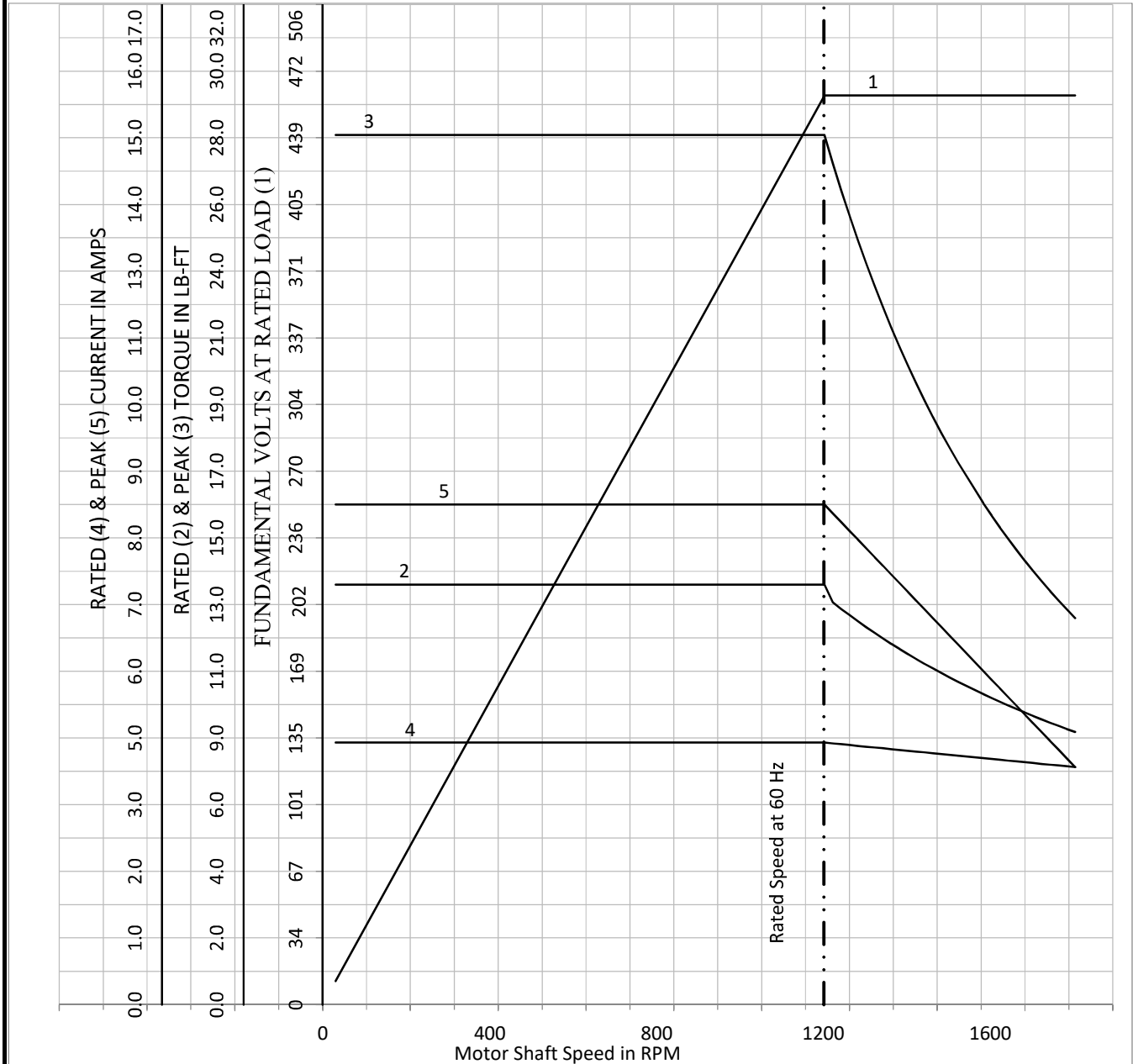
NP VOLTS 230/460
 NP AMPS 9/4.5
 HP 3
 BASE SPEED 1169
 PHASE/HZ 3/60

Base Volt 460
 NL AMPS 2.32
 Slip (HZ) 1.55
 WK² (lb-ft²) 0.945

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

R1	1.380	X1	7.300
R2	1.660	X2	6.590
		XM	94.400

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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DR BY USBRRAN1
 CK BY CD
 APP BY USBRRAN1
 DATE 11/5/2024

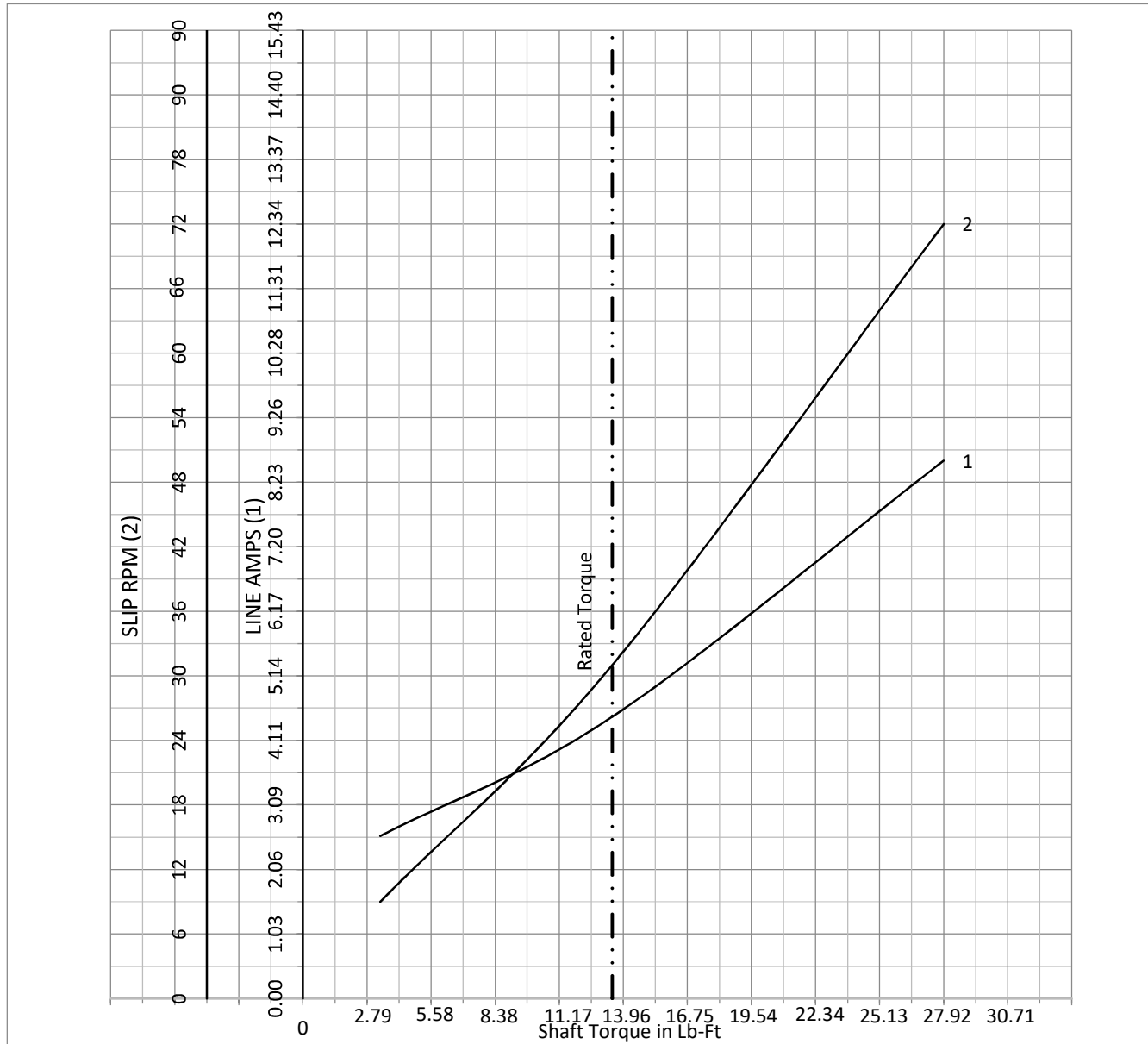
**A-C MOTOR
PERFORMANCE
CURVES**

07WGX822

Record: 109146

NP VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	9/4.5	Base Volt	460	R1	1.380	X1	7.300
HP	3	NL AMPS	2.32	R2	1.660	X2	6.590
BASE SPEED	1169	Slip (HZ)	1.55			XM	94.400
PHASE/HZ	3/60	WK2 (lb-ft2)	0.945				

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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 DR BY USBRRAN1

 CK BY CD

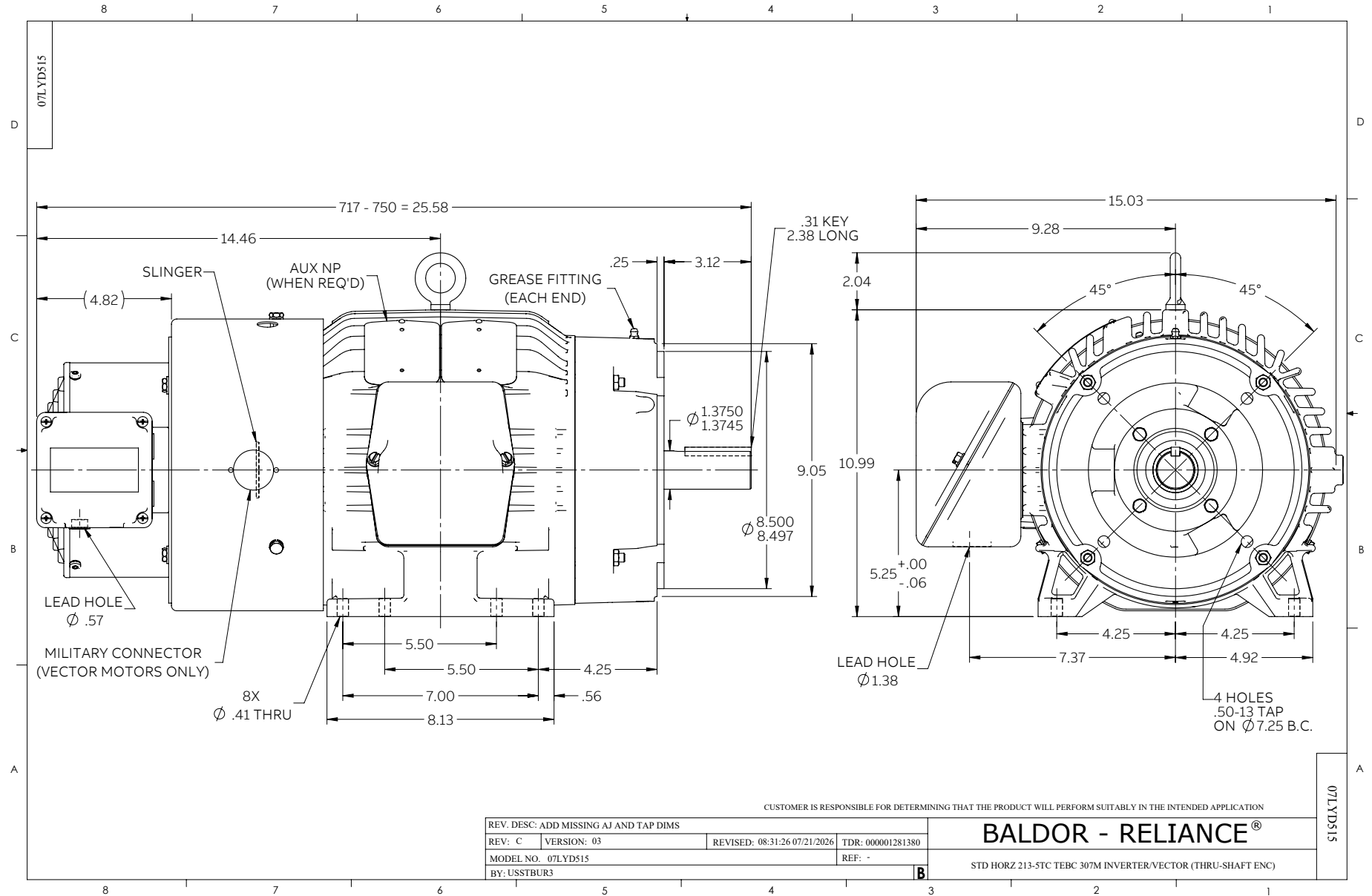
 APP BY USBRRAN1

 DATE 11/5/2024

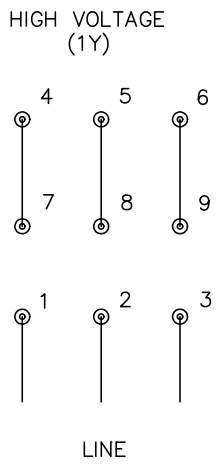
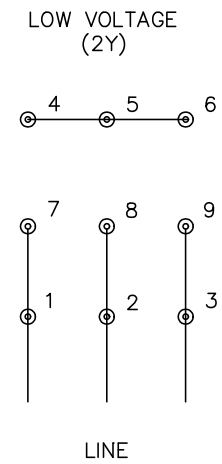
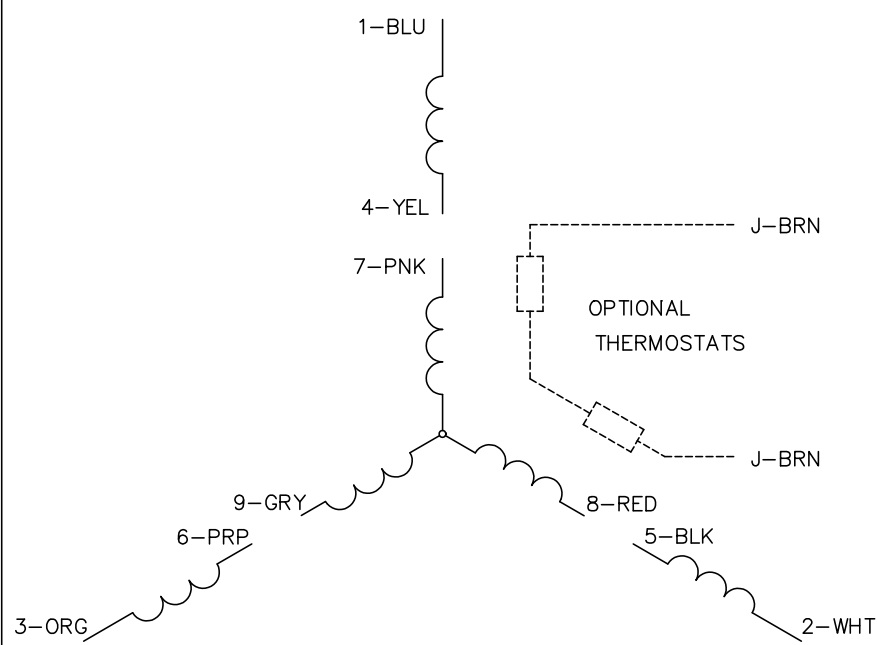
**A-C MOTOR
PERFORMANCE
CURVES**

07WGX822

Record: 109146



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005