

ABB BALDOR RELIANCE III

Customer information packet

IDM2276T

54M 6P TEBC HOR 254TC T'STATS INV DUTY

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
Frame	254TC
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	7.500 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	10.700 A @ 460.0 V 21.400 A @ 230.0 V 25.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.7 a

Part Detail

Revision	F
Type	AC
Mech. spec.	09T110
Base	
Status	PRD/A
Elec. spec.	09WGX827
Layout	09LYT110
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	03-19-2019

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5000 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	29.41 IN
Power Factor	71
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	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

NP3855L									
CAT.NO.	IDM2276T								
SPEC.	09T110X827G1								
FRAME	254TC			H.P.	7.5 TE				
VOLTS	230/460								
MAG. CUR.	11/5.5			F.L. AMPS			21.4/10.7		
R.P.M.	1180			R.P.M. MAX			5000		
HZ.	60		PH.	3		CLASS	H		
SER.F.	1.00		DES.	A		SL HZ	1		
NEMA NOM. EFF.	91		WK2	4.34					
BLOWER	V		PH				HZ	AMPS	
RATING	40C AMB-CONT								
DE	6309		ODE	6208					
CC	010A		SN						
	1000:1 CT/VT								

BALDOR/460 RELIANCE HP 7.5 BASE SPEED 1184 PHASE/HZ 3/60		CUSTOMER INFORMATION PACKET ID# 2276T - 54M 6P TEBC HOR 254TC T-STATS INV DUTY	WYE CONNECTION R1 0.473 R2 0.384 X1 2.600 X2 2.660 XM 43.300
INP AMPS 21.4/10.7		Base Volt 460 NL AMPS 5.84 Slip (HZ) 0.80 WK ² (lb-ft ²) 4.340	CT OHMS PER PHASE (BASE RATING, 20C)

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1184	7.5	32.4	460	60	10.7
Max Speed	1774	7.5	21.8	460	90	9.7
CT Min Speed	1.184	0.007	32.4	0.46	0.06	10.7

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1199	0.0	0.0	460	60	5.8
1/4	1196	1.8	7.9	460	60	6.3
1/2	1192	3.7	16.4	460	60	7.5
3/4	1189	5.4	23.9	460	60	8.9
Full Load	1184	7.5	32.4	460	60	10.7
O/L	1163	14.7	66.4	460	60	19.8

Remarks: Calculated Data

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DR BY USBRRANI
 CK BY CD
 APP BY USBRRANI
 DATE 7/21/2026

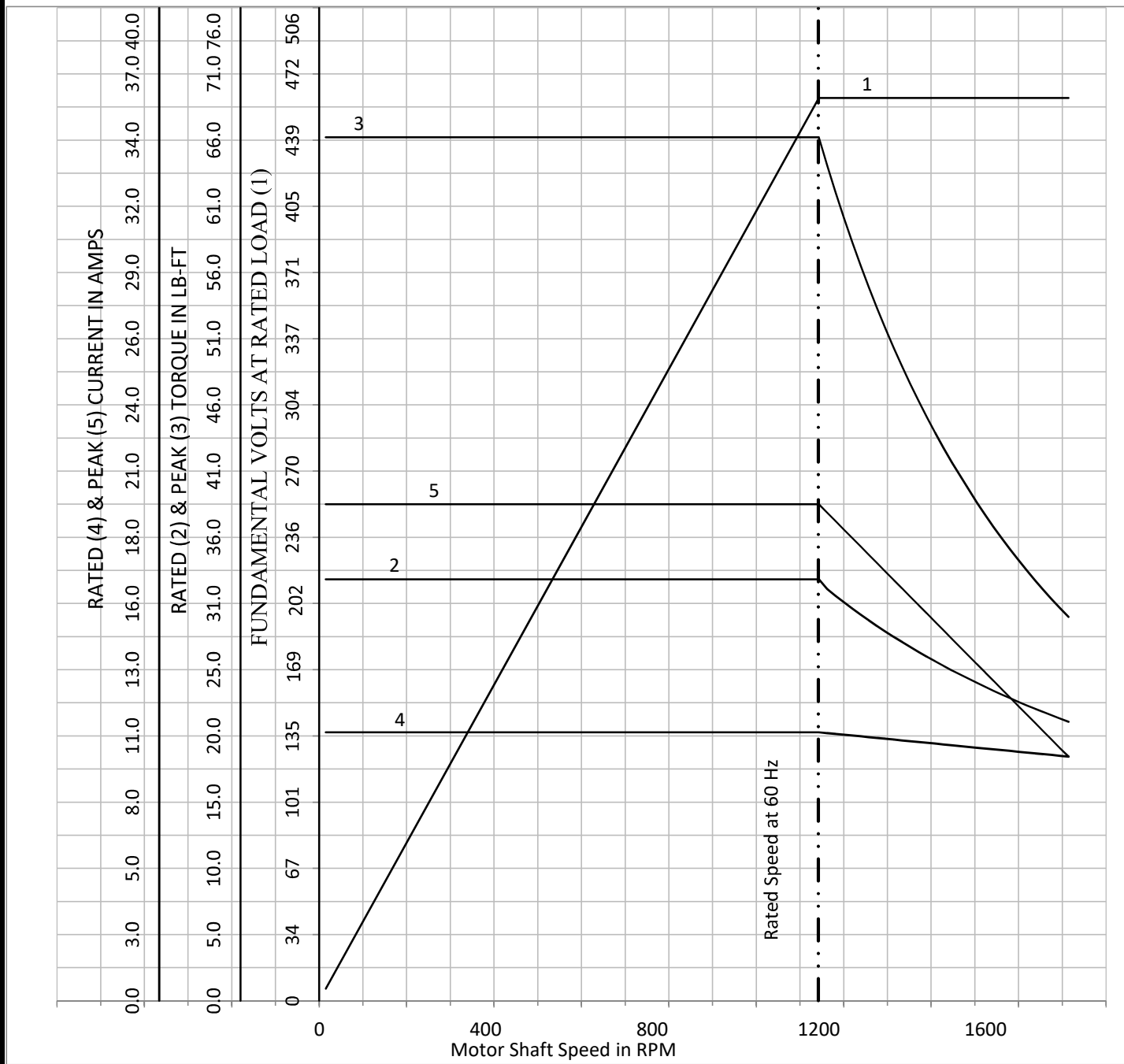
**A-C MOTOR
 PERFORMANCE
 CURVES**

09WGX827

Record: 20707

BALDOR/RELIANCE		CUSTOMER INFORMATION PACKET		IDM 2276T - 54M 6P TEBC HOR 254TC T'STATS INV DUTY		WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)	
HP	7.5	Base Volt	460	R1	0.473	X1	2.600
BASE SPEED	1184	NL AMPS	5.84	R2	0.384	X2	2.660
PHASE/HZ	3/60	Slip (HZ)	0.80			XM	43.300
		WK ² (lb-ft ²)	4.340				

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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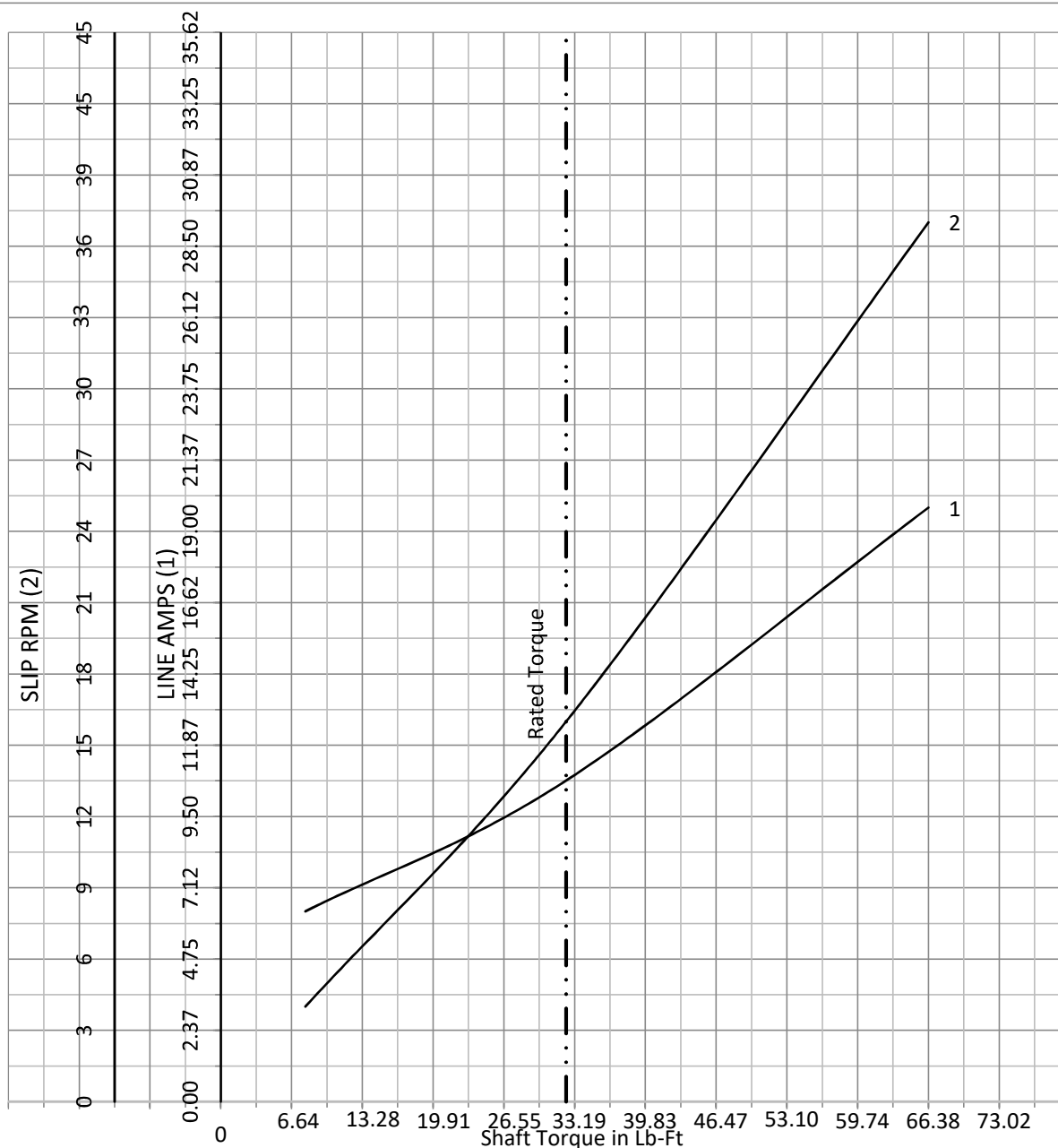
**A-C MOTOR
PERFORMANCE
CURVES**

09WGX827

Record: 20707

BALDOR-RELIANCE 330/460 11/4/10.7		CUSTOMER INFORMATION PACKET		IDM 2276T - 54M 6P TBC HOR 254TC T'STATS INV DUTY	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
HP	7.5	Base Volt	460	R1	0.473	X1	2.600	
BASE SPEED	1184	NL AMPS	5.84	R2	0.384	X2	2.660	
PHASE/HZ	3/60	Slip (HZ)	0.80			XM	43.300	
		WK2 (lb-ft2)	4.340					

Vector PWM Inverer Duty
Vaiaable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

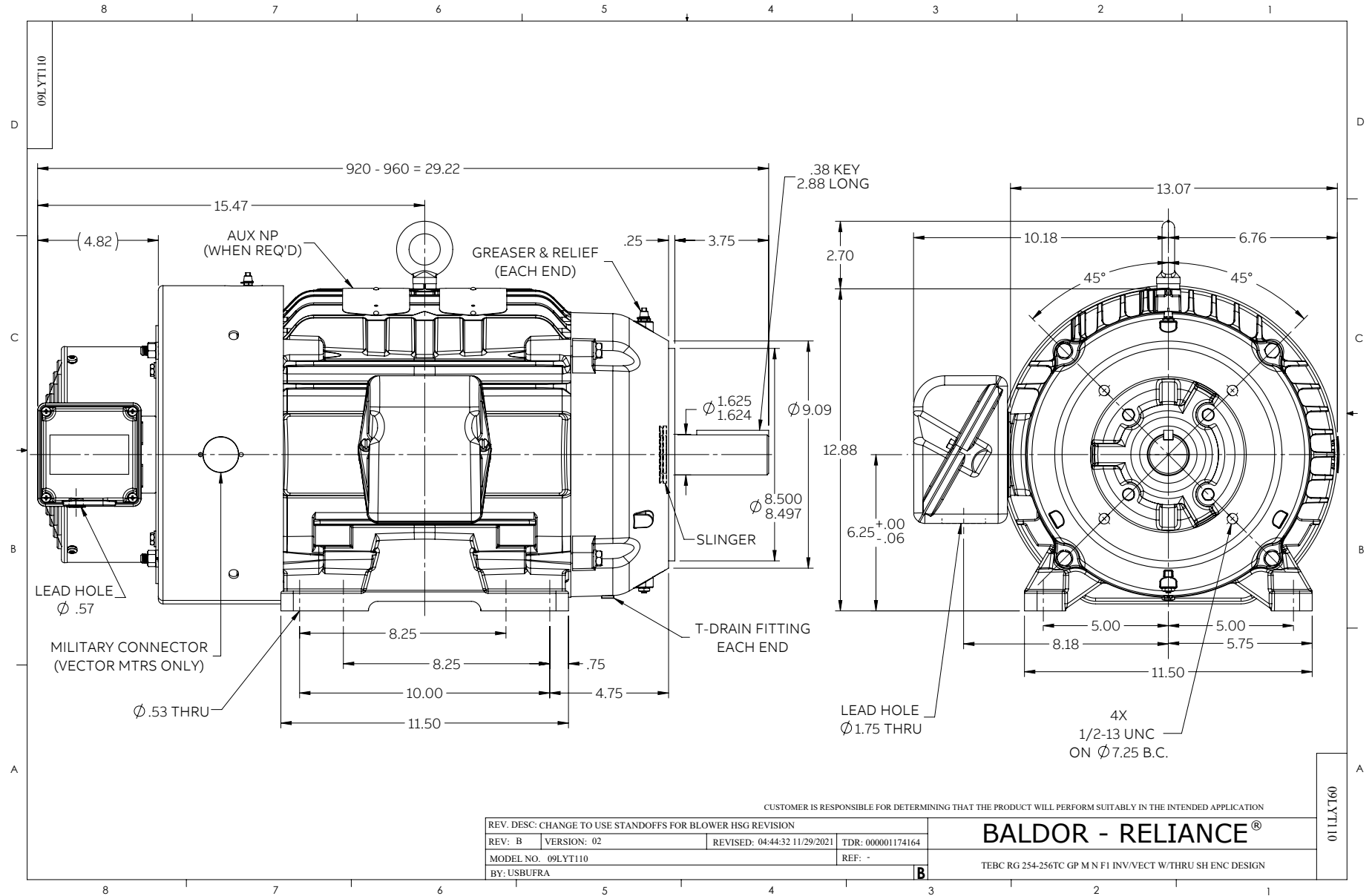
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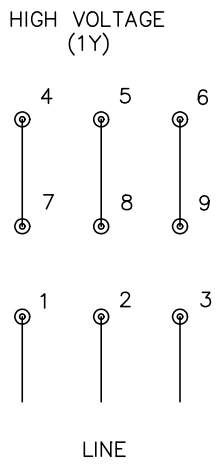
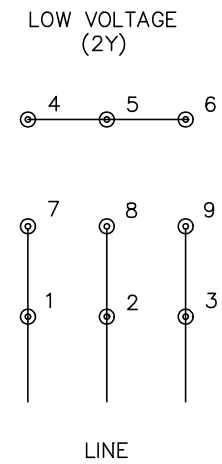
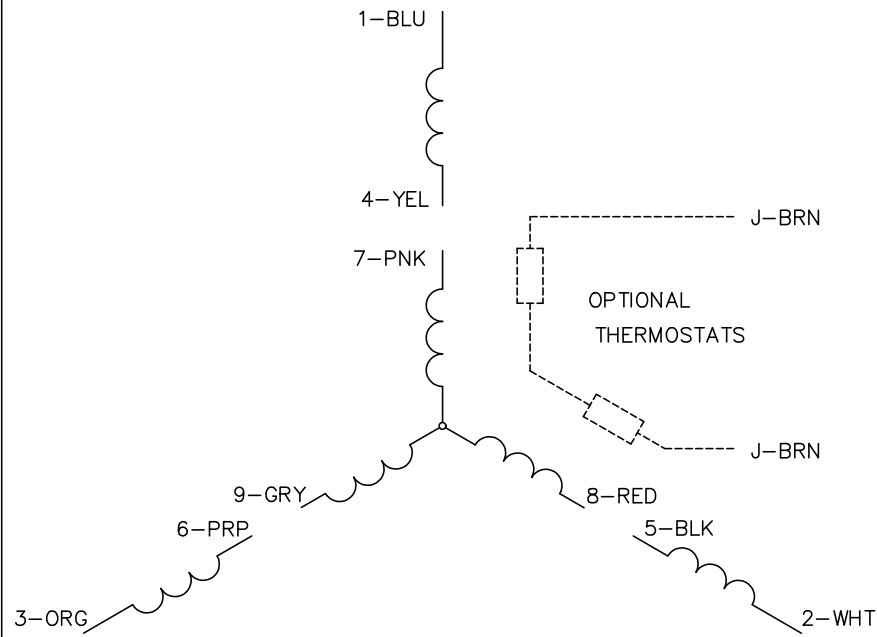
**A-C MOTOR
PERFORMANCE
CURVES**

09WGX827

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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
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005