

ABB BALDOR RELIANCE III

Customer information packet

ZDM2276T

54M 6P TEBC HOR 254TC T'STATS VECTOR

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	ENCODER
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	08-28-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	03-13-2019

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

NP1168L									
CAT NO	ZDM2276T								
SPEC.	09T110X827Z1								
FRAME	254TC			HP	7.5 TE				
VOLTS	230/460								
MAG CUR	11/5.5			FLA		21.4/10.7			
RPM	1180		RPM MAX			5000			
HZ	60		PH	3		CLASS		H	
SER.F.	1.00		DES	A		SL HZ		1	
NEMA-NOM-EFF	91		WK2		4.34				
BLWR V		PH		HZ			A		
RATING	40C AMB-CONT								
DE BRG	6309		ODE BRG			6208			
CC	010A		SER.NO						
	1000:1 CT, 1000:1 VT								

BALDOR/460 RELIANCE		CUSTOMER INFORMATION PACKET		ZD M2276T - 54M 6P TEBC HOR 254TC 1 st STAT VECTOR		WYE CONNECT 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				

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

BALDOR • RELIANCE

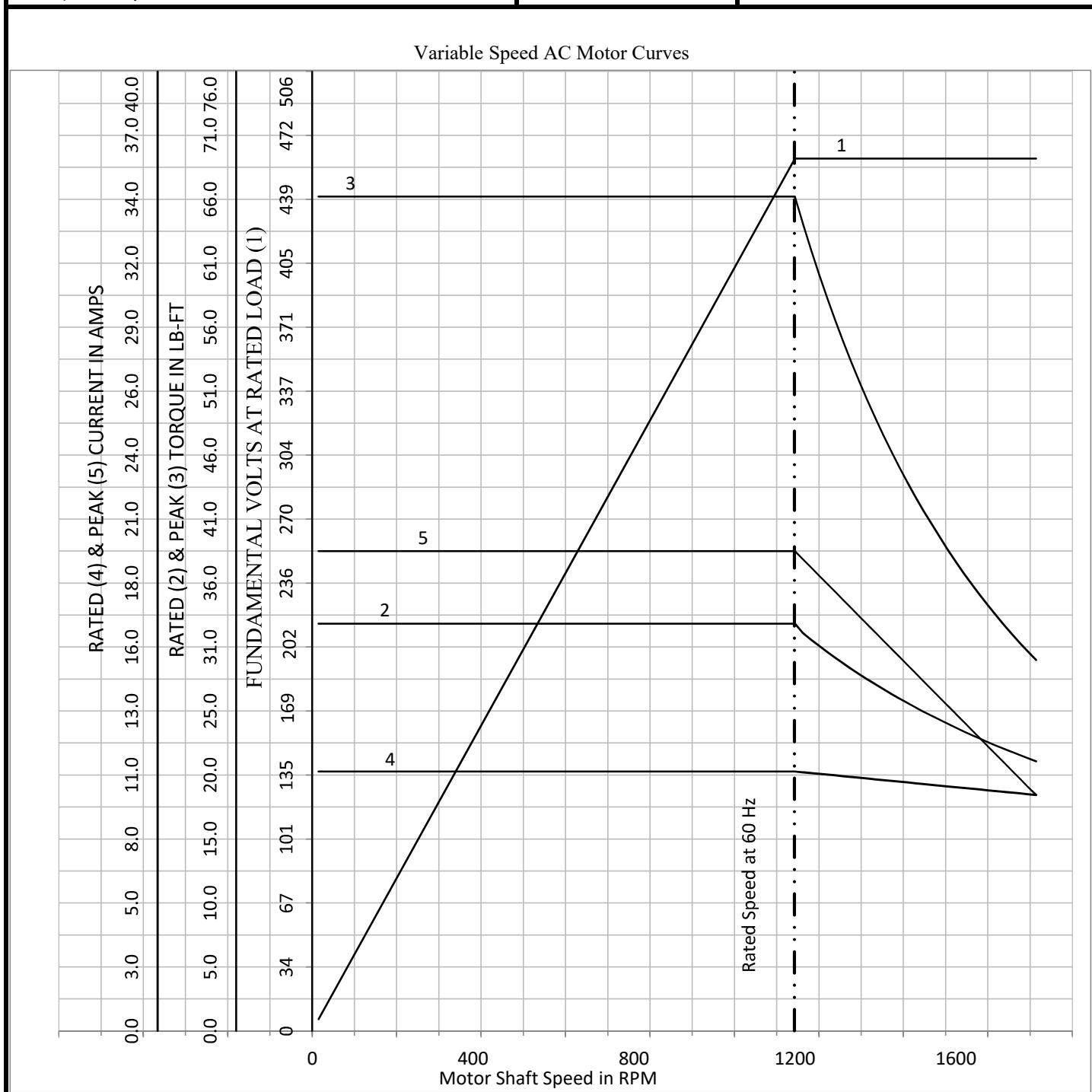
DR BY USBRRANI
CK BY CD
APP BY USBRRANI
DATE 7/21/2026

**A-C MOTOR
PERFORMANCE
CURVES**

09WGX827

Record: 20707

BALDOR/RELIANCE		CUSTOMER INFORMATION PACKET		WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)	
HP	7.5	Base Volt	460	R1	0.473
BASE SPEED	1184	NL AMPS	5.84	R2	0.384
PHASE/HZ	3/60	Slip (HZ)	0.80	X1	2.600
		WK ² (lb-ft ²)	4.340	X2	2.660
				XM	43.300



Calculated Data

Data Valid For Nameplate Speed Range only

DR BY USBRRAN1

CK BY CD

APP BY USBRRAN1

DATE 7/21/2026

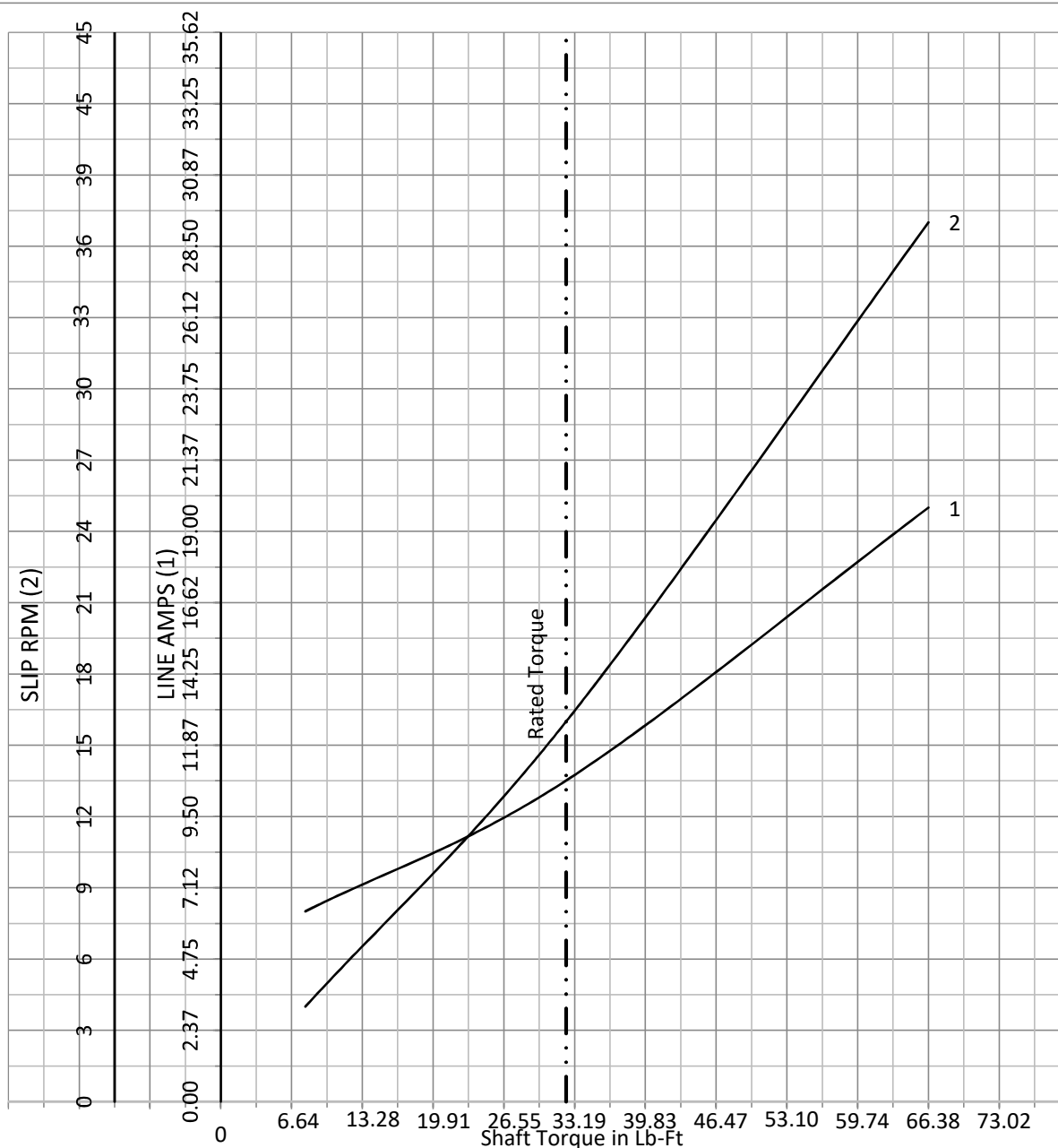
**A-C MOTOR
PERFORMANCE
CURVES**

09WGX827

Record: 20707

BALDOR-RELIANCE		CUSTOMER INFORMATION PACKET		ZDM2276T - 54M 6P TEB C HOR 254TC T'STATS VECTOR		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

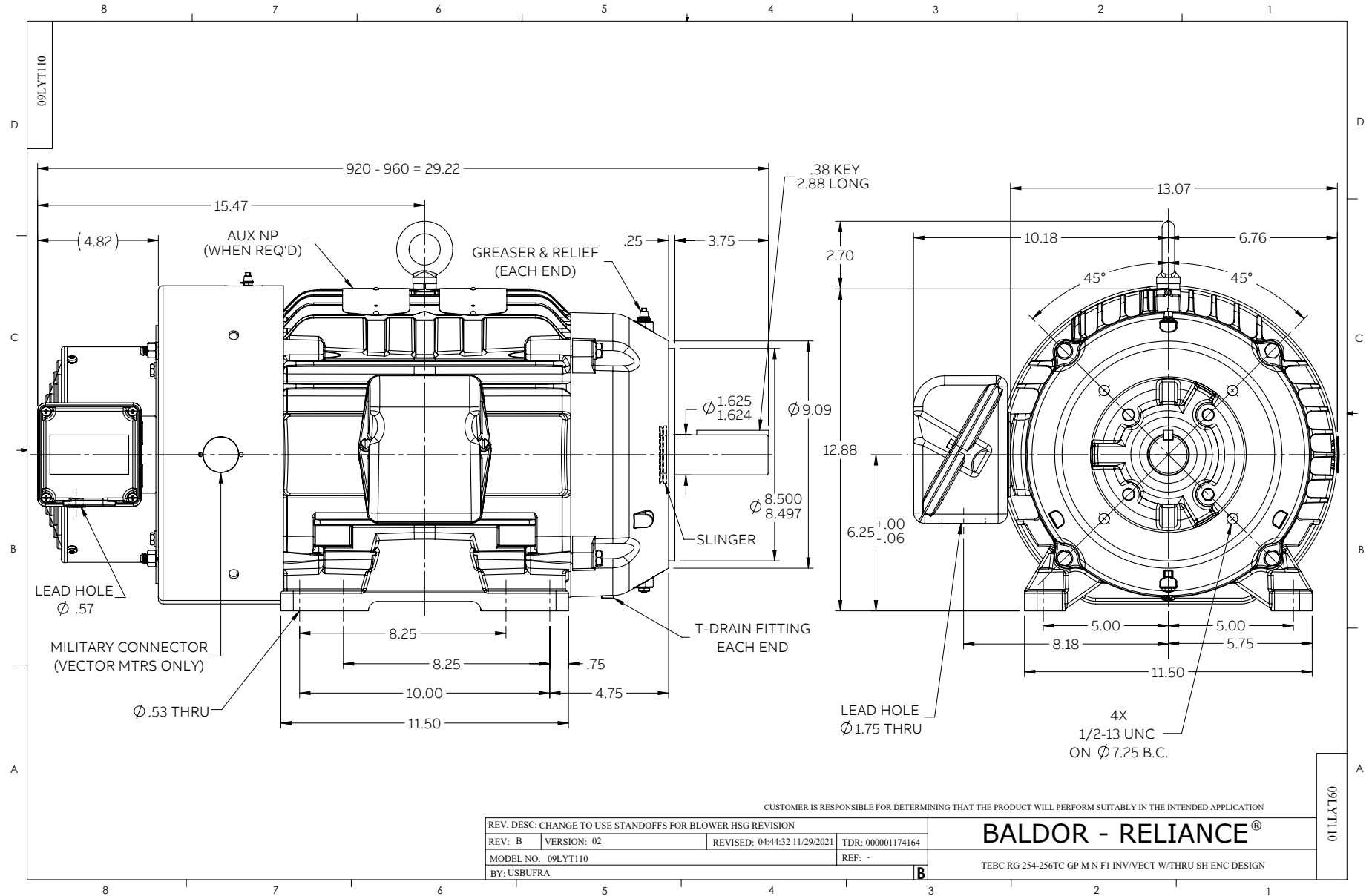
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APP BY USBRRANI
DATE 7/21/2026

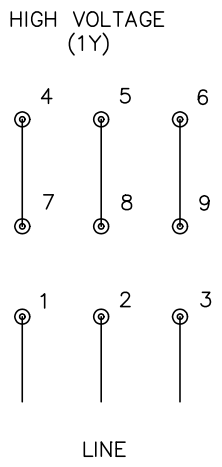
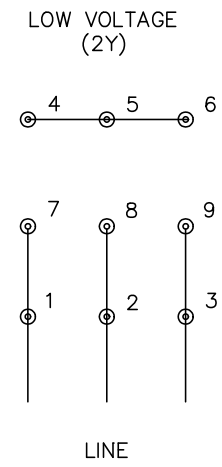
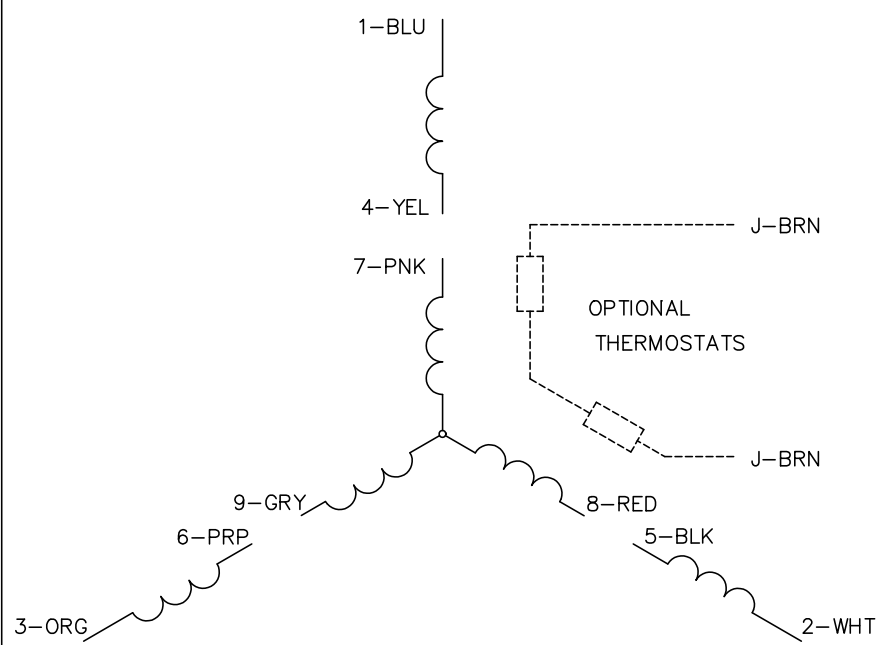
**A-C MOTOR
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CURVES**

09WGX827

Record: 20707



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