



Customer information packet

IDVSM2334T-5

20HP, 1770RPM, 3PH, 60HZ, 256TC, 0960M, TENV, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
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	575.0 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	None
Current @ Voltage	19.200 A @ 575.0 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	19.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J

Part detail

Revision	F
Type	AC
Mech. spec.	09K146
Base	
Status	PRD/A
Elec. spec.	09WGT507
Layout	09LYK146
Eff. date	11-13-2023
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	11-11-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.84 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
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

NP3302L				
CAT NO	IDVSM2334T-5			
SPEC.	09K146T507G1			
FRAME	256TC	HP	20 TE	
VOLTS	575			
MAG CUR	8.3	FLA	19.2	
RPM	1770	RPM MAX	2700	
HZ	60	PH	3	CLASS F
SER.F.	1.00	SL HZ	0.83	
NEMA-NOM-EFF	93	WK2	2.62	
RATING	40C AMB-CONT			
DE BRG	6309	ODE BRG	6208	
CC	010A	SN		
	1.5:1 CHP PWM			



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INVERTER DRIVE MOTOR



CAT. NO.					
SPEC.					
FRAME		H.P.			
VOLTS					
MAG. CUR.					
R.P.M.		R.P.M. MAX			
HZ.	PH.		CLASS		
SER. F.				SL. HZ	
NEMA NOM. EFF.		WK ²			
RATING					
BEARINGS	DE		ODE		
CC		SN			

B
A
S
E

F.L.
AMPS

 LB FT²






BALDOR ELECTRIC CO. FT. SMITH, AR. MFG. IN U.S.A.
 NP3302L

NP VOLTS	575	MAX SAFE RPM	2700	WVE CONN EQ CKT OHMS PER PHASE (BASE RATING, 200)			
NP AMPS	19.2	Base Volt	575	R1	0.264	X1	1.370
HP	20 HP	NL AMPS	8.28	R2	0.249	X2	1.820
BASE SPEED	1772	Slips(Hz)	0.93			XM	47.200
PHASE/HZ	3/60	Wk2 (lb-ft²)	2.650				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1772	20.0	59.3	575	60	19.2
Max Speed	2657	20.0	39.6	575	90	18.5
Min Speed	0	0.0	59.3	22.51	0.93	19.2

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	575	60	8.3
1/4	1793	5.0	14.7	575	60	9.4
1/2	1786	10.0	29.5	575	60	12.0
3/4	1779	15.0	44.3	575	60	15.3
Full Load	1772	20.0	59.3	575	60	19.2
O/L	1741	40.1	121.0	575	60	39.1

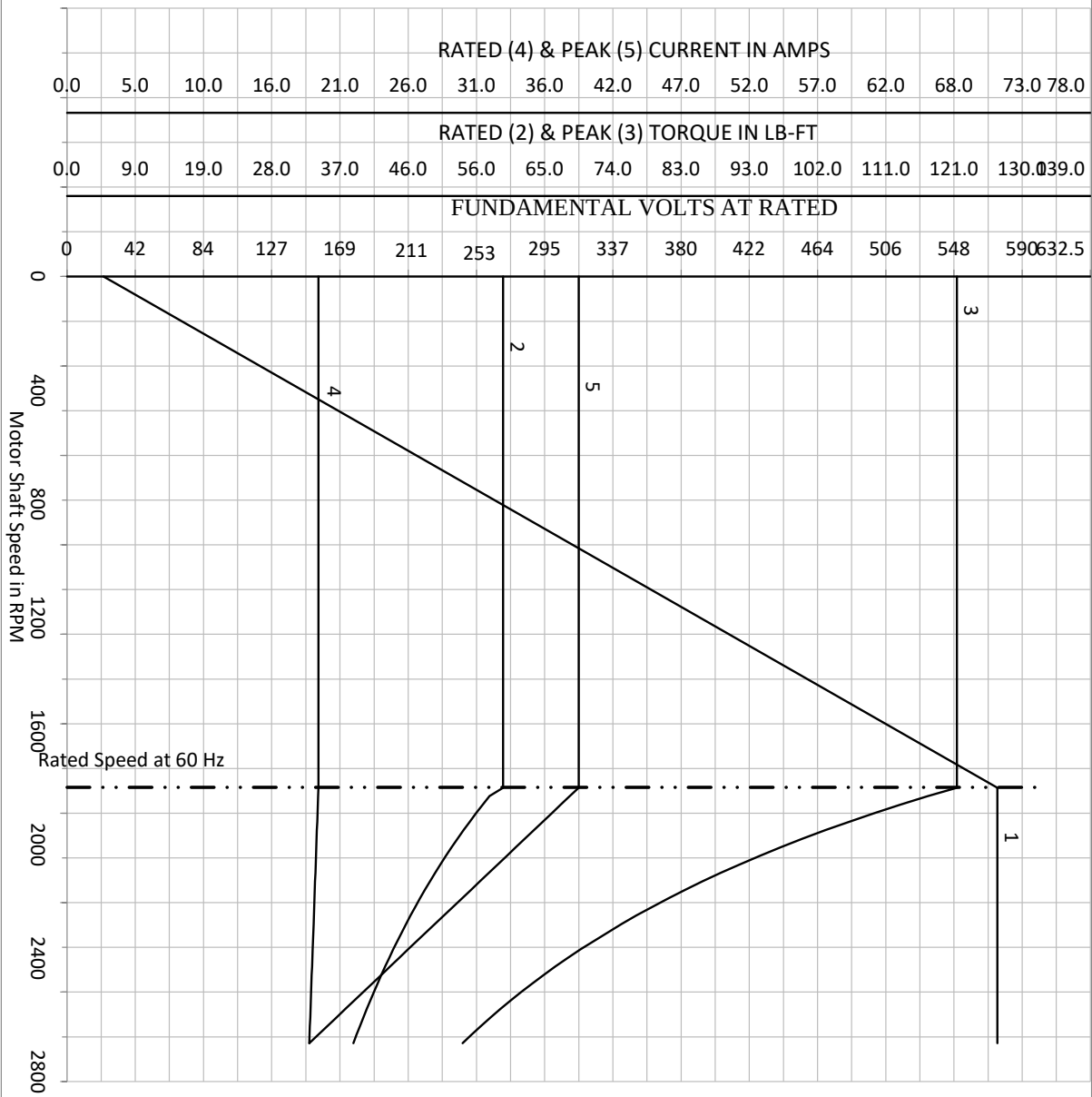
Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

BALDOR • RELIANCE			DR BY USBRRANI	A-C MOTOR	09WGT507
			CK BY	PERFORMANCE	
			APP BY USBRRANI	CURVES	Record: 85523
			DATE 11/19/2020		

NP VOLTS	575	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	19.2	Base Volt	575	R1	0.264	X1	1.370
HP	20 HP	NL AMPS	8.28	R2	0.249	X2	1.820
BASE SPEED	1772	Slips(HZ)	0.93			XM	47.200
PHASE/HZ	3/60	WK2 (lb-ft²)	2.650				

Vector PWM Inverter Duty
Variable Speed AC Motor Curves



Calculated Data
Data Valid For Nameplate Speed Range only

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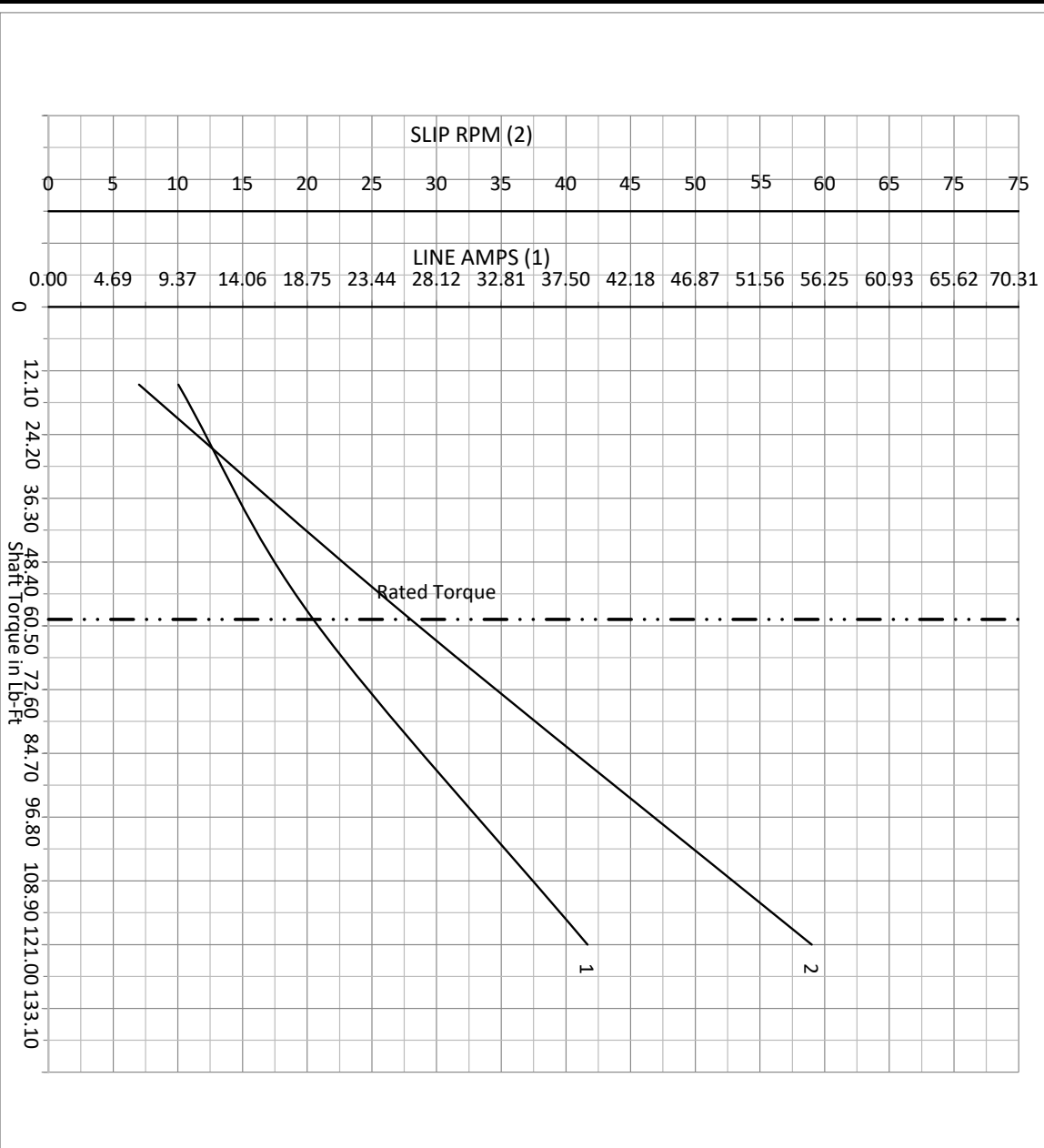
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CK BY
APP BY USBRANI
DATE 11/19/2020

A-C MOTOR PERFORMANCE CURVES

09WGT507
Record: 85523

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Vector PWM Inverter Duty
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Calculated Data

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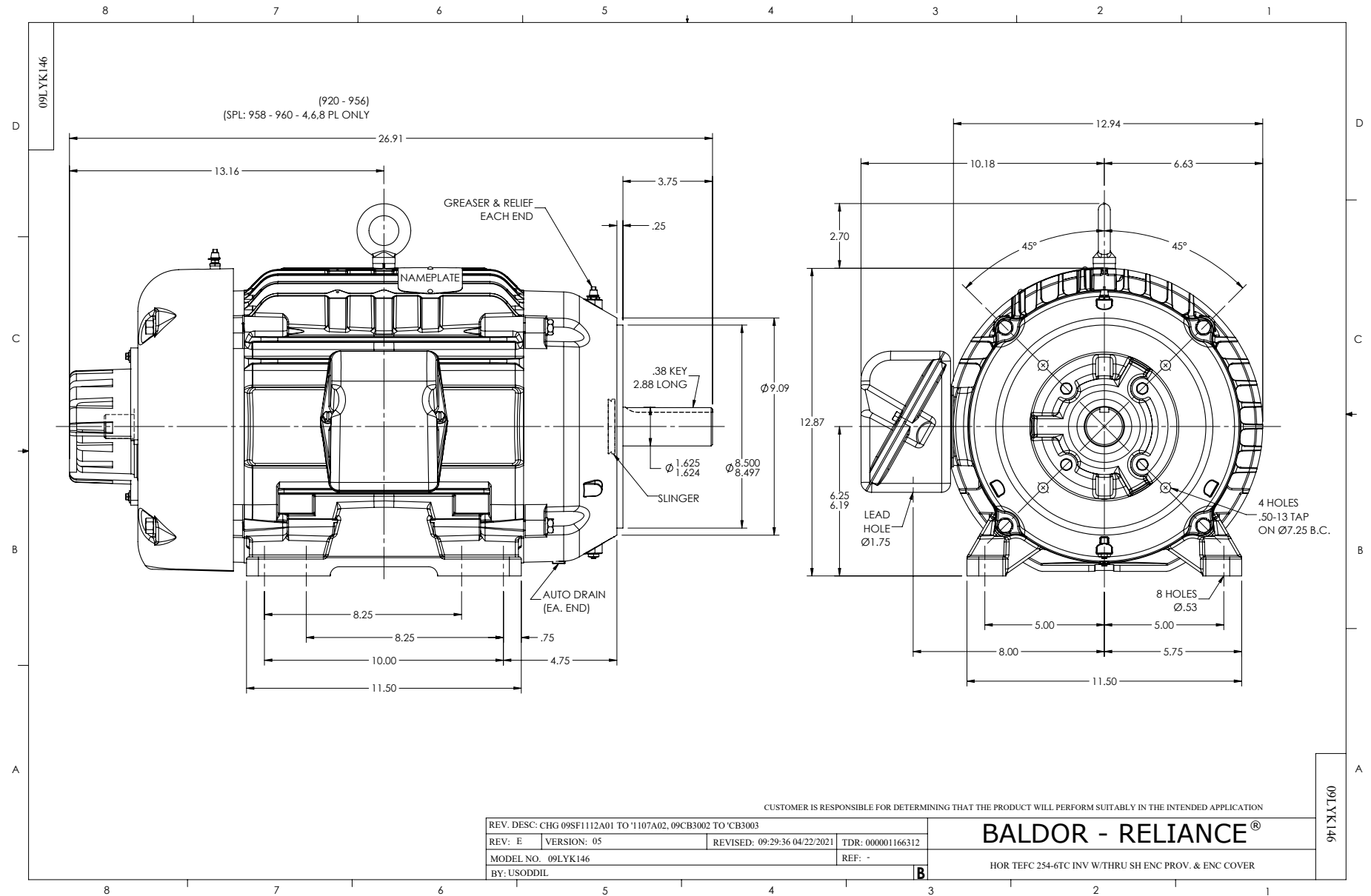
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DATE 11/19/2020

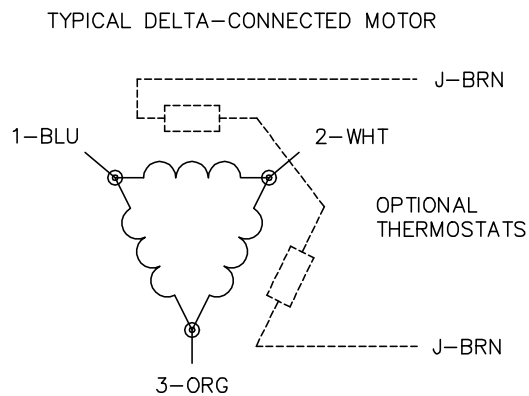
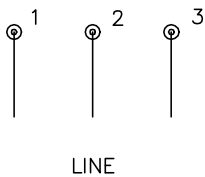
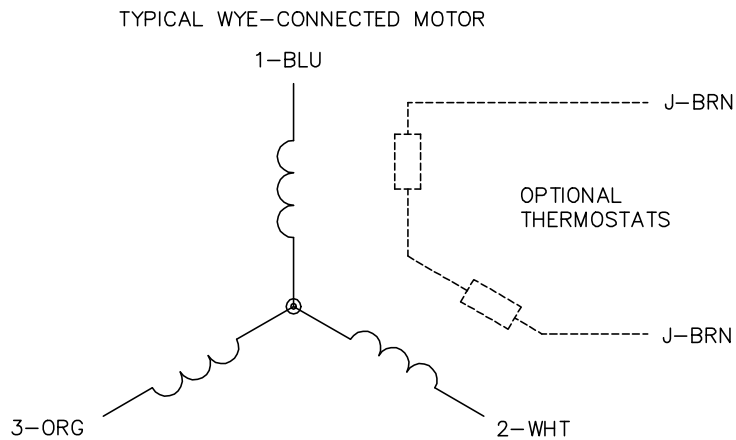
**A-C MOTOR
PERFORMANCE
CURVES**

09WGT507

Record: 85523



CD0006



- NOTES:
1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: -



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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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