

ABB BALDOR RELIANCE III

Customer information packet

IDVSM3774T-5

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, GP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	GP
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	10.000 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	9.800 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	No Key Or Flat
Heater Indicator	No Heater
High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H

Part Detail

Revision	C
Type	AC
Mech. spec.	07M288
Base	
Status	PRD/A
Elec. spec.	07WGX493
Layout	07LYM288
Eff. date	09-24-2026
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	11-10-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.59 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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP4615L									
CAT NO	IDVSM3774T-5								
SPEC.	07M288X493G1							ENCL	TEFC
FRAME	215TC		HP	10					
VOLTS	575								
MAG CUR	4.1			FLA	9.8				
RPM	1760		RPM MAX		2700				
HZ	60	PH	3	CLASS		F			
SER.F.	1.00		SL HZ		1.3				
NEMA-NOM-EFF	91.7		WK2	1.18					
RATING	40C AMB-CONT								
DE BRG	6307		ODE BRG		6206				
CC	010A	SN							
	1.5:1 CHP PWM								
	1000:1 CT/VT								

NP VOLTS	575					WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
NP AMPS	9.8	Base Volt	575	R1	0.000	X1 0.000
HP	10	NL AMPS	4.10	R2	0.000	X2 0.000
BASE SPEED	1762	Slip (HZ)	1.27			XM 0.000
PHASE/HZ	3/60	WK ² (lb-ft ²)	1.180			

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1762	10.0	29.7	575	60	9.8
Max Speed	2642	9.9	19.8	575	90	9.1
CT Min Speed	1.762	0.010	29.7	0.58	0.06	9.8

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	575	60	4.1
1/4	1790	2.5	7.3	575	60	4.7
1/2	1781	5.0	14.7	575	60	6.0
3/4	1771	7.5	22.3	575	60	7.8
Full Load	1762	10.0	29.7	575	60	9.8
O/L	1731	19.9	60.3	575	60	19.1

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**
07WGX493

Record: 36492

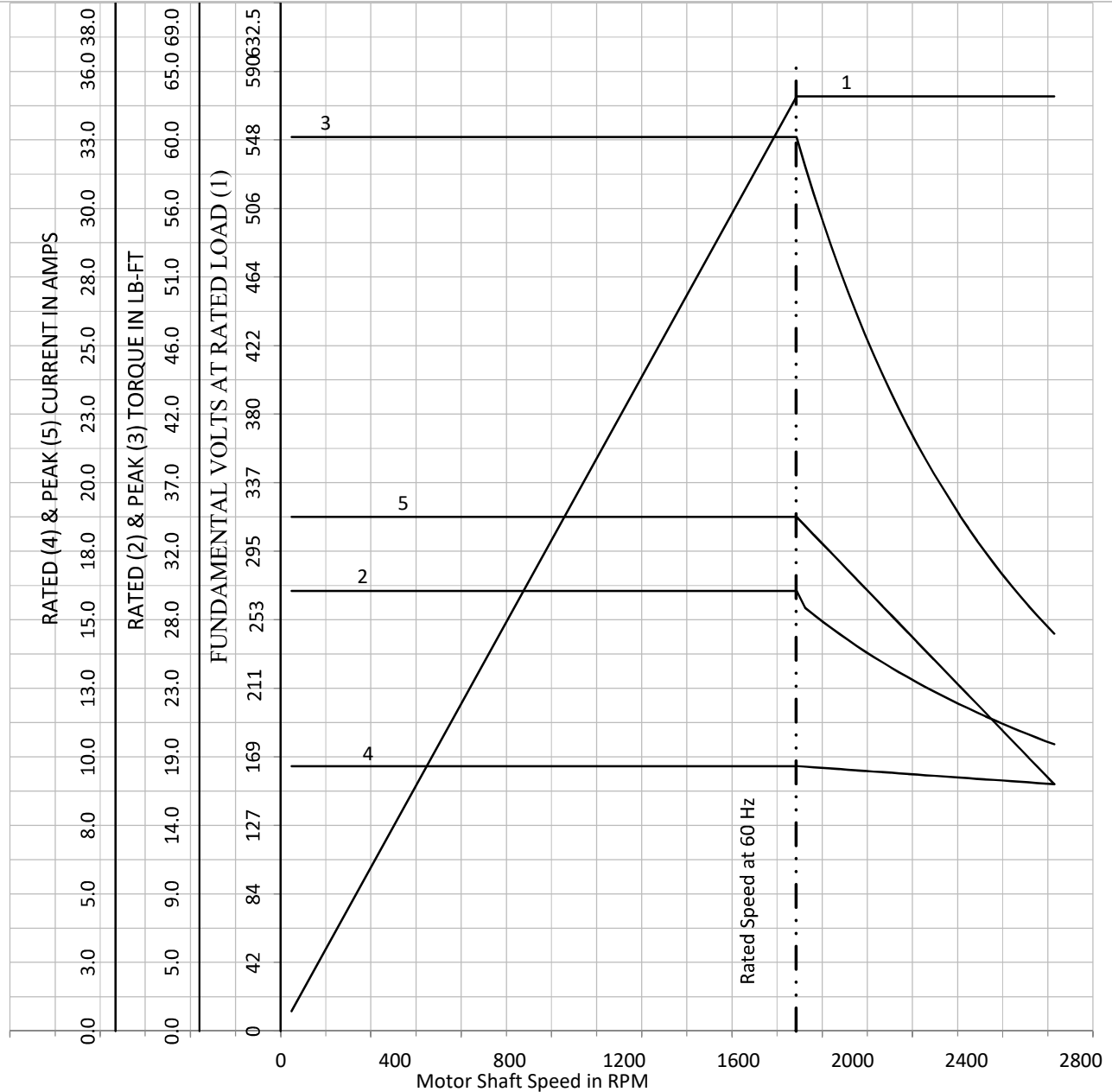
NP VOLTS 575
 NP AMPS 9.8
 HP 10
 BASE SPEED 1762
 PHASE/HZ 3/60

Base Volt 575
 NL AMPS 4.10
 Slip (HZ) 1.27
 WK² (lb-ft²) 1.180

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

R1	0.000	X1	0.000
R2	0.000	X2	0.000
		XM	0.000

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

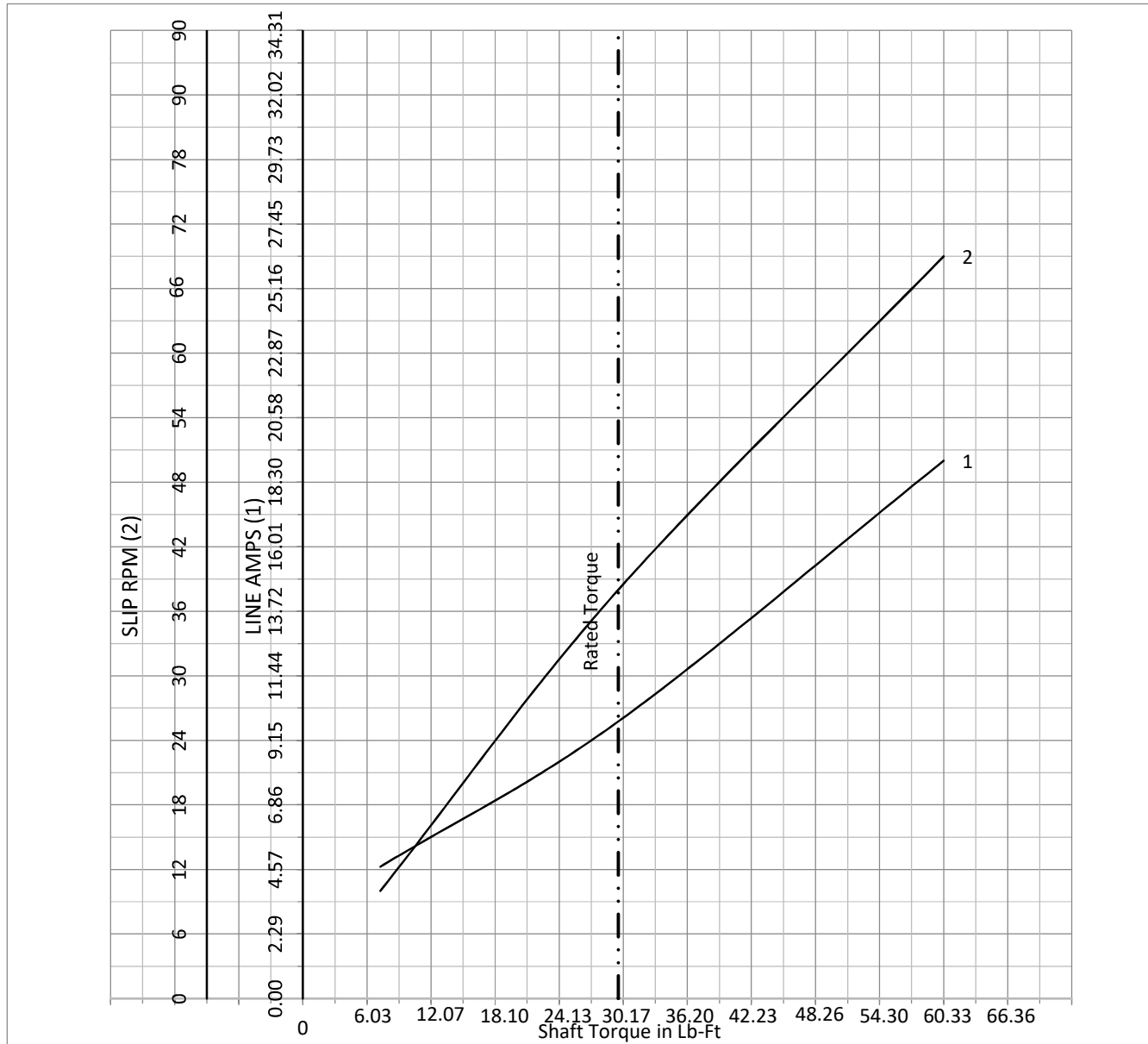
**A-C MOTOR
PERFORMANCE
CURVES**

07WGX493

Record: 36492

NP VOLTS	575	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	9.8	Base Volt	575	R1	0.000	X1	0.000
HP	10	NL AMPS	4.10	R2	0.000	X2	0.000
BASE SPEED	1762	Slip (HZ)	1.27			XM	0.000
PHASE/HZ	3/60	WK2 (lb-ft2)	1.180				

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

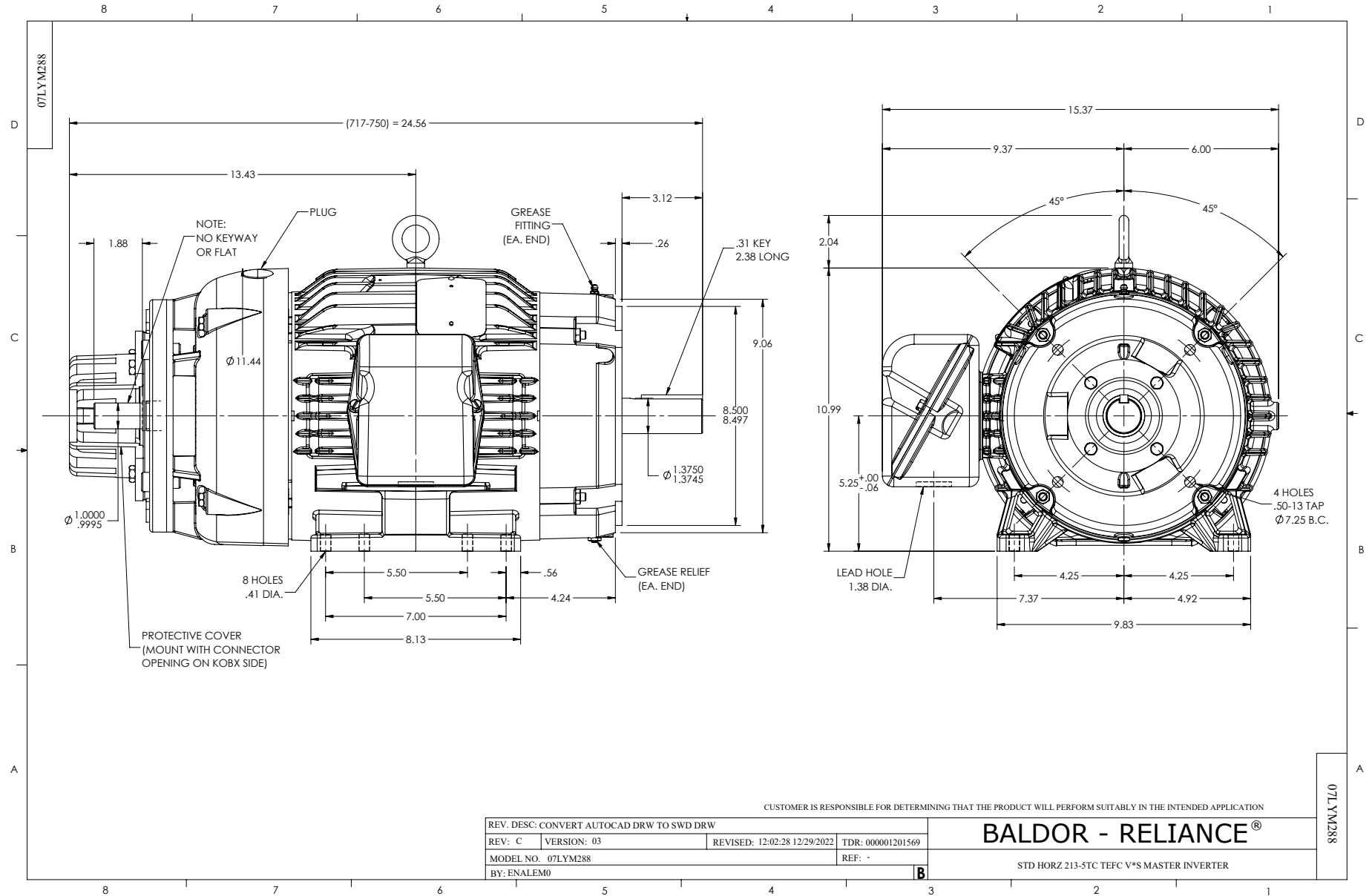
APP BY USBRRAN1

DATE 11/5/2024

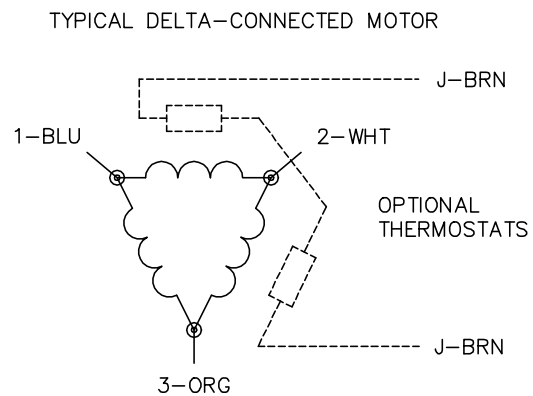
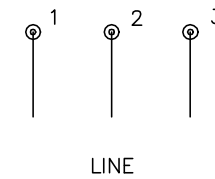
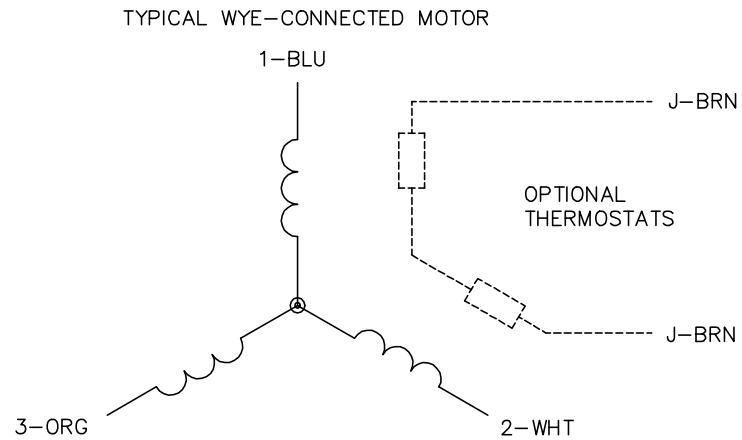
**A-C MOTOR
PERFORMANCE
CURVES**

07WGX493

Record: 36492



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: -



BALDOR - RELIANCE®

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

SH 1 of 1