ABB BALDOR RELIANCE

Customer information packet

ZDM3768T

48M 6P TEBC HOR 215TC T'STATS VECTOR
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/20/2026 10:42:27 AM

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	5.000 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	UR
	CSA
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	14.600 A @ 230.0 V
	7.300 A @ 460.0 V
Design Code	A
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	7.3 a
Insulation Class	H

Part Detail

Revision	E
Type	AC
Mech. spec.	07D515
Base	
Status	PRD/A
Elec. spec.	07WGX823
Layout	07LYD515
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	03-12-2019

Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2000 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.58 IN
Power Factor	72
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	1160 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.	ZDM3768T								
SPEC.	07D515X823Z1								
FRAME	215TC			**H.P.**	5 TE				
VOLTS	230/460								
MAG. CUR.	7.4/3.7					**F.L. AMPS**	14.6/7.3		
R.P.M.	1160			**R.P.M. MAX**	2000				
HZ.	60		**PH.**	3	**CLASS**	H			
SER.F.	1.00		**DES.**	A	**SL HZ**	2			
NEMA NOM. EFF.	90.2		**WK2**	1.19					
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	14.6/7.3	Base Volt	460	R1	0.000	X1	0.000
HP	5	NL AMPS	3.70	R2	0.000	X2	0.000
BASE SPEED	1163	Slip (HZ)	1.85			XM	0.000
PHASE/HZ	3/60	WK^2 (lb-ft^2)	1.190				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1163	5.1	22.8	460	60	7.3
Max Speed	1741	5.0	15.2	460	90	6.8
CT Min Speed	1.163	0.005	22.8	0.46	0.06	7.3

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1199	0.0	0.0	460	60	3.7
1/4	1190	1.3	5.6	460	60	4.0
1/2	1181	2.5	11.0	460	60	4.8
3/4	1173	3.7	16.7	460	60	5.9
Full Load	1163	5.1	22.8	460	60	7.3
O/L	1095	10.1	48.4	460	60	16.1

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

Remarks: Calculated Data

BALDOR · RELIANCE

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

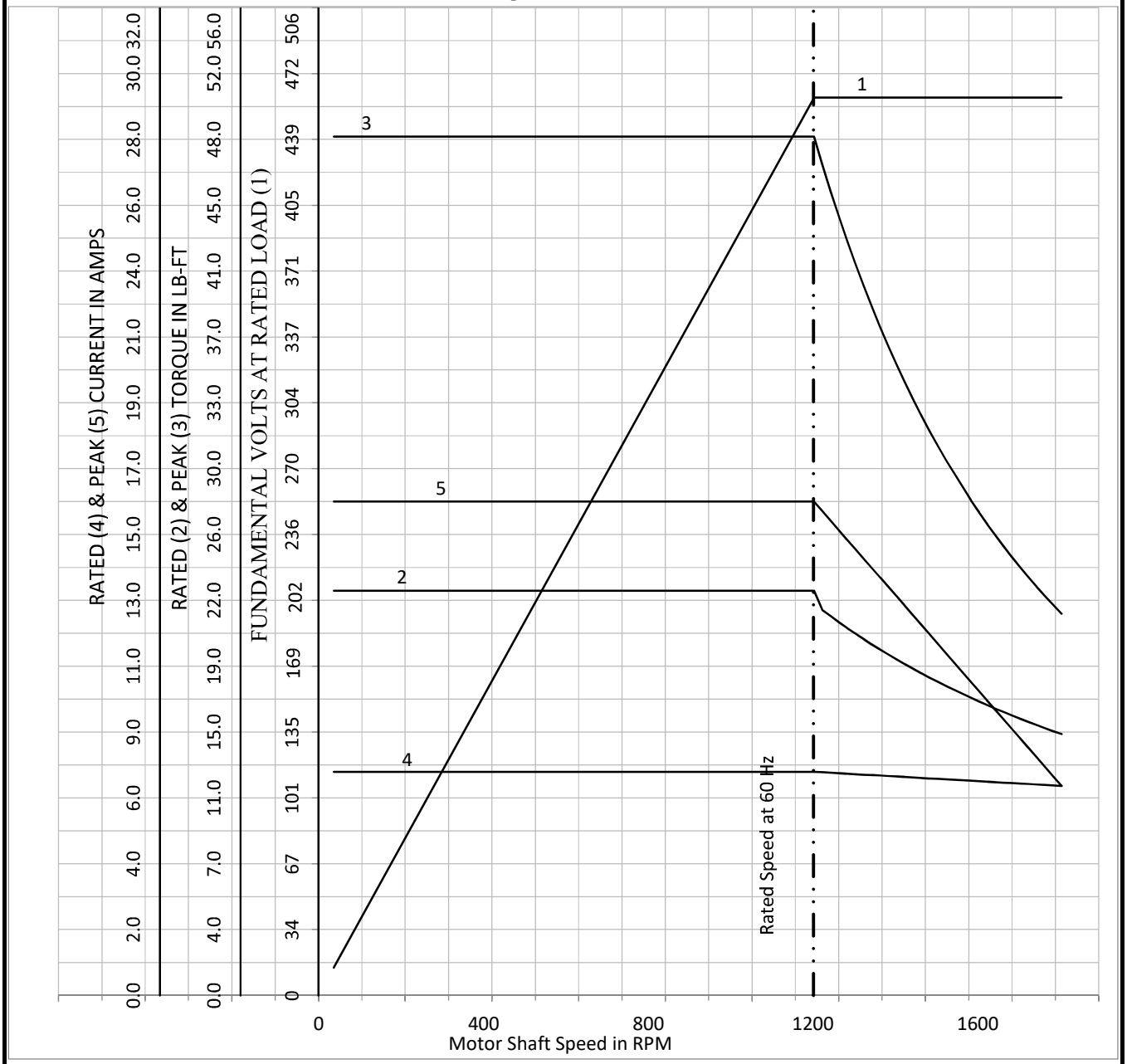
A-C MOTOR PERFORMANCE CURVES

07WGX823

Record: 36499

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	14.6/7.3	Base Volt	460	R1	0.000	X1	0.000
HP	5	NL AMPS	3.70	R2	0.000	X2	0.000
BASE SPEED	1163	Slip (HZ)	1.85			XM	0.000
PHASE/HZ	3/60	WK^2 (lb-ft^2)	1.190				

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR · RELIANCE

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

A-C MOTOR PERFORMANCE CURVES

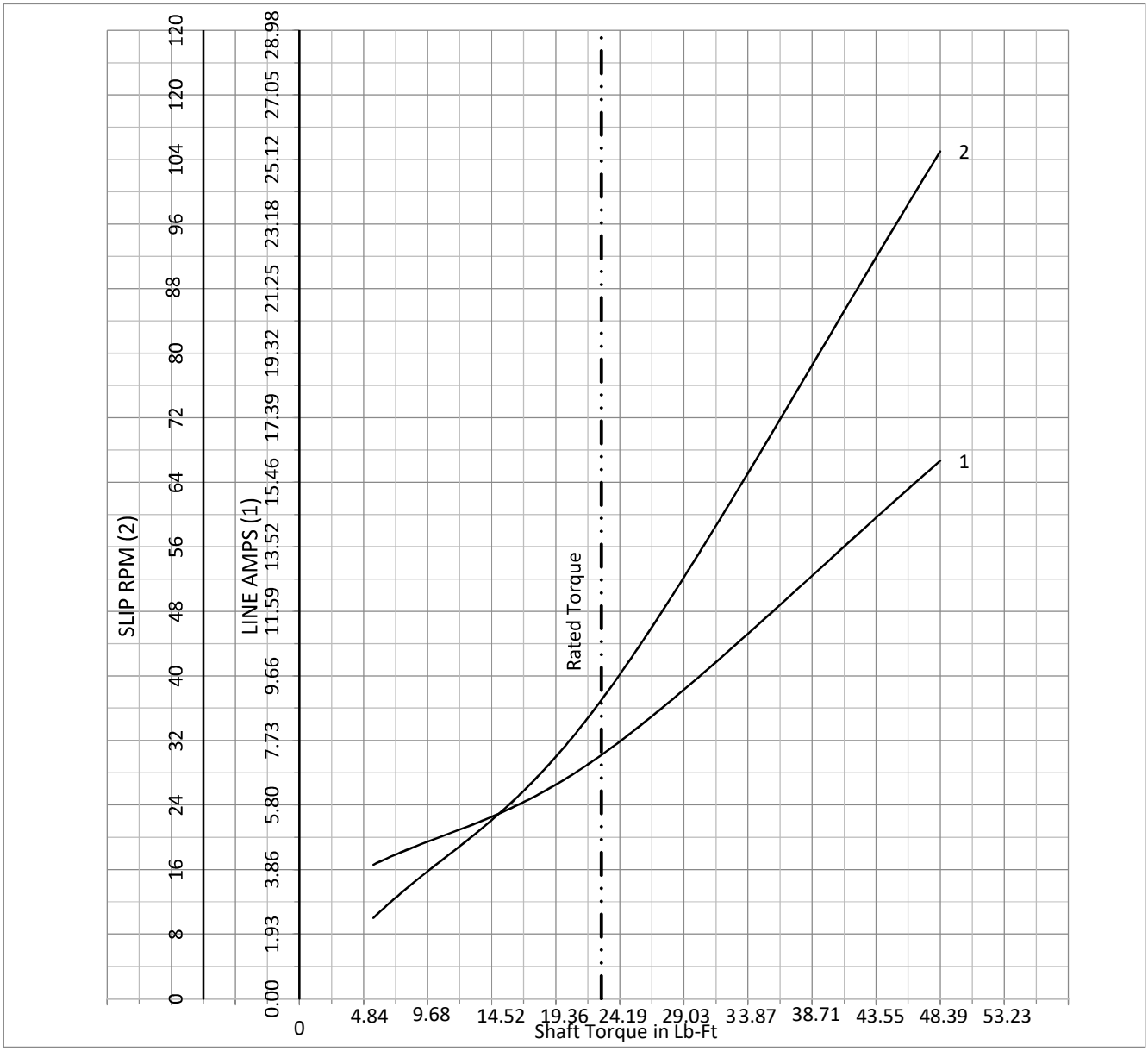
07WGX823

Record: 36499

NP VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	14.6/7.3	Base Volt	460	R1	0.000	X1	0.000
HP	5	NL AMPS	3.70	R2	0.000	X2	0.000
BASE SPEED	1163	Slip (HZ)	1.85			XM	0.000
PHASE/HZ	3/60	WK2 (lb-ft2)	1.190				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

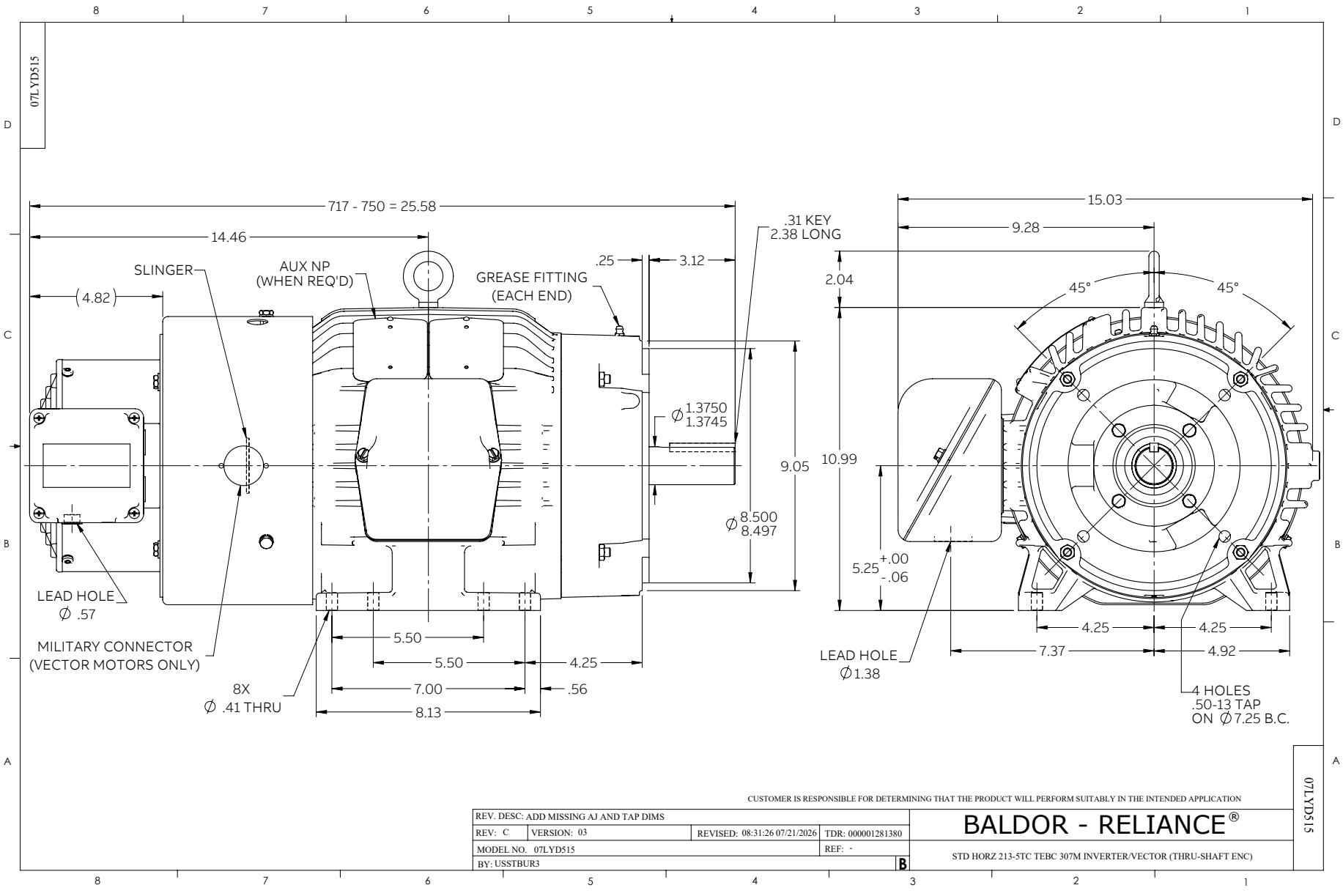
BALDOR · RELIANCE

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

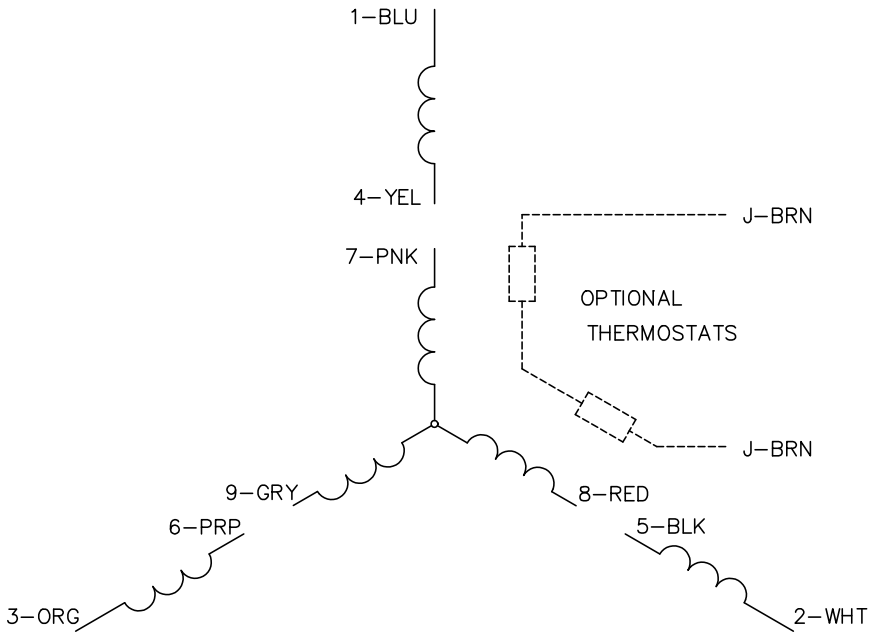
A-C MOTOR PERFORMANCE CURVES

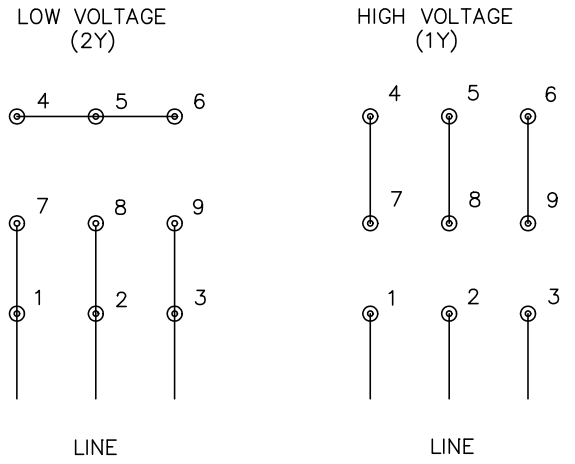
07WGX823

Record: 36499


07LYD515
717 - 750 = 25.58
14.46
4.82
SLINGER
AUX NP
(WHEN REQ'D)
GREASE FITTING
(EACH END)
.25
3.12
.31 KEY
2.38 LONG
Ø1.3750
1.3745
9.05
Ø8.500
8.497
LEAD HOLE
Ø .57
MILITARY CONNECTOR
(VECTOR MOTORS ONLY)
8X
Ø .41 THRU
5.50
5.50
4.25
7.00
.56
8.13
15.03
9.28
2.04
45°
45°
10.99
5.25 +.00 -.06
4.25
4.25
7.37
4.92
LEAD HOLE
Ø1.38
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD MISSING AJ AND TAP DIMS
REV: C
VERSION: 03
REVISED: 08:31:26 07/21/2026
TDR: 000001281380
MODEL NO. 07LYD515
REF: -
BY: USSTBUR3
B
BALDOR - RELIANCE®
STD HORZ 213-5TC TEBC 307M INVERTER/VECTOR (THRU-SHAFT ENC)
07LYD515

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS