ABB BALDOR RELIANCE

Customer information packet

IDM3774T

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, TEBC, F
Class - None
Division - Not Applicable

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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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	12.500 A @ 460.0 V
	25.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	H

Part Detail

Revision	F
Type	AC
Mech. spec.	07D515
Base	
Status	PRD/A
Elec. spec.	07WGX776
Layout	07LYD515
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	03-15-2019

Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 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	4
Overall Length	25.58 IN
Power Factor	82
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
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

NP4009L										
CAT.NO.	IDM3774T									
SPEC.	07D515X776G1									
FRAME	215TC		**H.P.**	10 TE						
VOLTS	230/460									
MAG. CUR.	10.2/5.1				**F.L. AMPS**	25/12.5				
R.P.M.	1760			**R.P.M. MAX**	6000					
HZ.	60	**PH.**	3	**CLASS**	H					
SER.F.	1.00	**DES.**	A	**SL HZ**	1.3					
NEMA NOM. EFF.	92.4	**WK2**	1.18							
BLOWER	**V**		**PH**		**HZ**		**AMPS**			
RATING	40C AMB-CONT									
DE	6307	**ODE**	6206							
CC	010A	**SN**								
	1000:1 CT/VT									

Parts List

Part number	Description	Quantity
SA371171	SA 07D515X776G1	1.000 ea
RA360851	RA 07D515X776G1	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
09CB3002SP	CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
37EP1100B61	FR TEBC 206 BRG W/ GRSR & THRU-SHAFT ENC	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP1300A01SP	FACE MT ENDPLATE-ENCL-307 BRG-213TC-215T	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	2.000 ea
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
09GS1013SP	GS FOR 09CB3501, 12CB1500 & 12CB1503 LID	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HA1005A11	SLINGER, OD 2.00, ID 1.15,	1.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
BLWM07-F	307 BLOWER ASSY. (07FH4015 & EF5100) F1,	1.000 ea
WD4101A08	STIMPSON #D3557,1.188 DIA. HOLE PLUG	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.036 ga
HA3104A32	THRUBOLT- 5/16-18 X12.750	4.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP4009L	SS INV UL CSA-EEV CC NEMA PREM	1.000 ea

07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

Catalog	0	NP VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	215TC	NP AMPS	25/12.5	MAX SAFE RPM	2700	R1	0.507	X1	1.970
HP	10	DUTY	Cont	NL AMPS	5.12	R2	0.342	X2	1.580
BASE SPEED	1760	S.F.	1.00	P.F. @NL/FL	4.4/82			XM	48.300
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/F	WK^2 (lb-ft^2)	1.18				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1762	10.0	29.8	460	60	12.3
Max Speed	2642	10.0	19.9	460	90	11.7
Min Speed	0	0.0	29.8	26.67	1.33	12.3

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	5.1
1/4	1790	2.5	7.3	460	60	5.8
1/2	1781	5.0	14.7	460	60	7.5
3/4	1771	7.5	22.3	460	60	9.8
Full Load	1762	10.0	29.8	460	60	12.3
O/L	1728	20.0	60.7	460	60	24.4

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

Remarks: Calculated Data
Vector PWM Inverter Duty

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CK BY
APP BY JJ
DATE 6/17/2015

A-C MOTOR PERFORMANCE CURVES

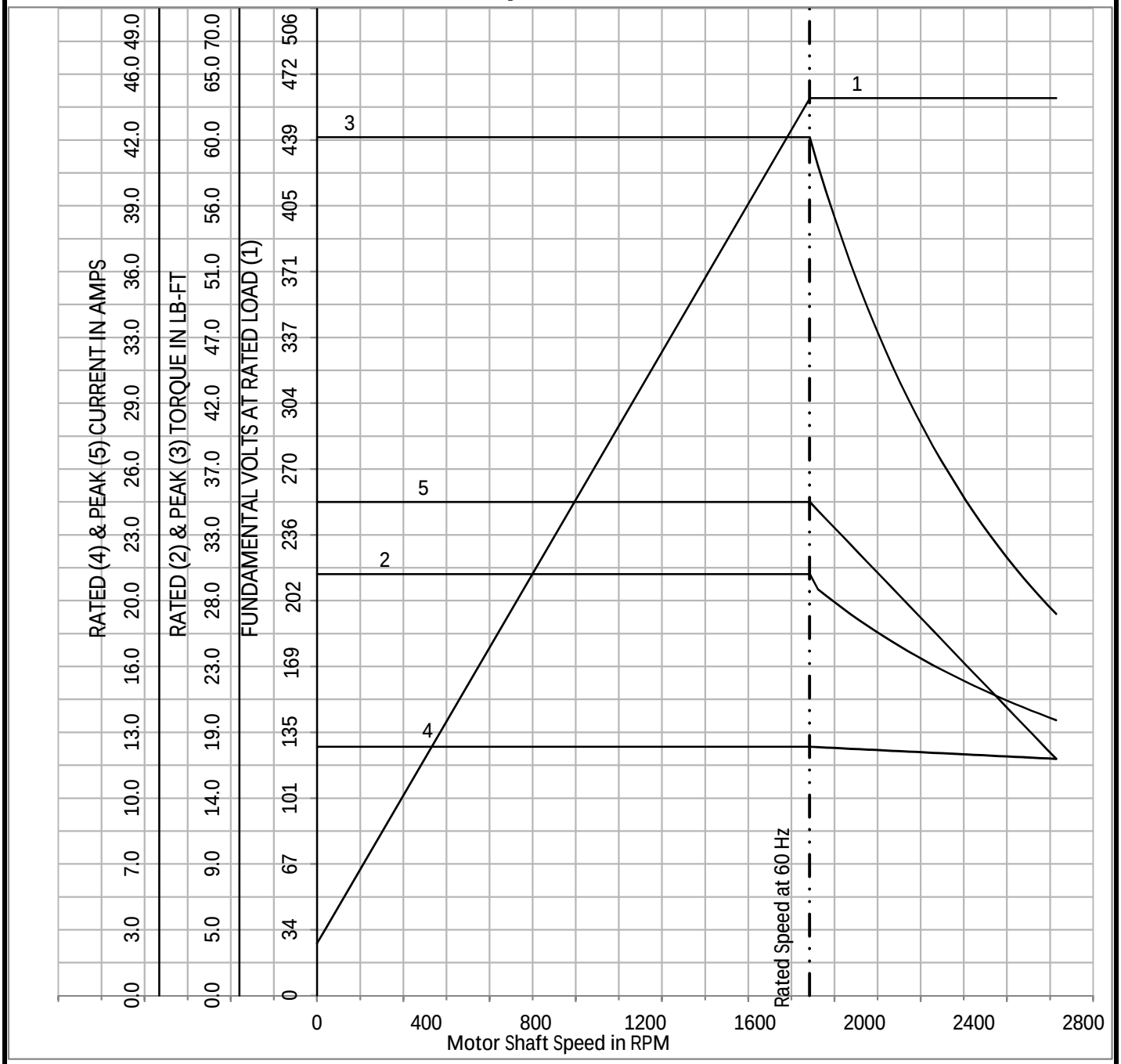
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ISSUE DATE 6/17/2015

Catalog	0	VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	215TC	AMPS	25/12.5	MAX SAFE RPM	2700	R1	0.507	X1	1.97
HP	10	DUTY	Cont	In (AMPS)	5.12	R2	0.342	X2	1.58
BASE SPEED	1760	S.F.	1.00	P.F. @NL/FL	4.4/82			XM	48.3000
PHASE/HZ	3/60	AMB^{0}C/INS	40/F	WK^2 (lb-ft^2)	1.18				

Vector PWM Inverer Duty

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

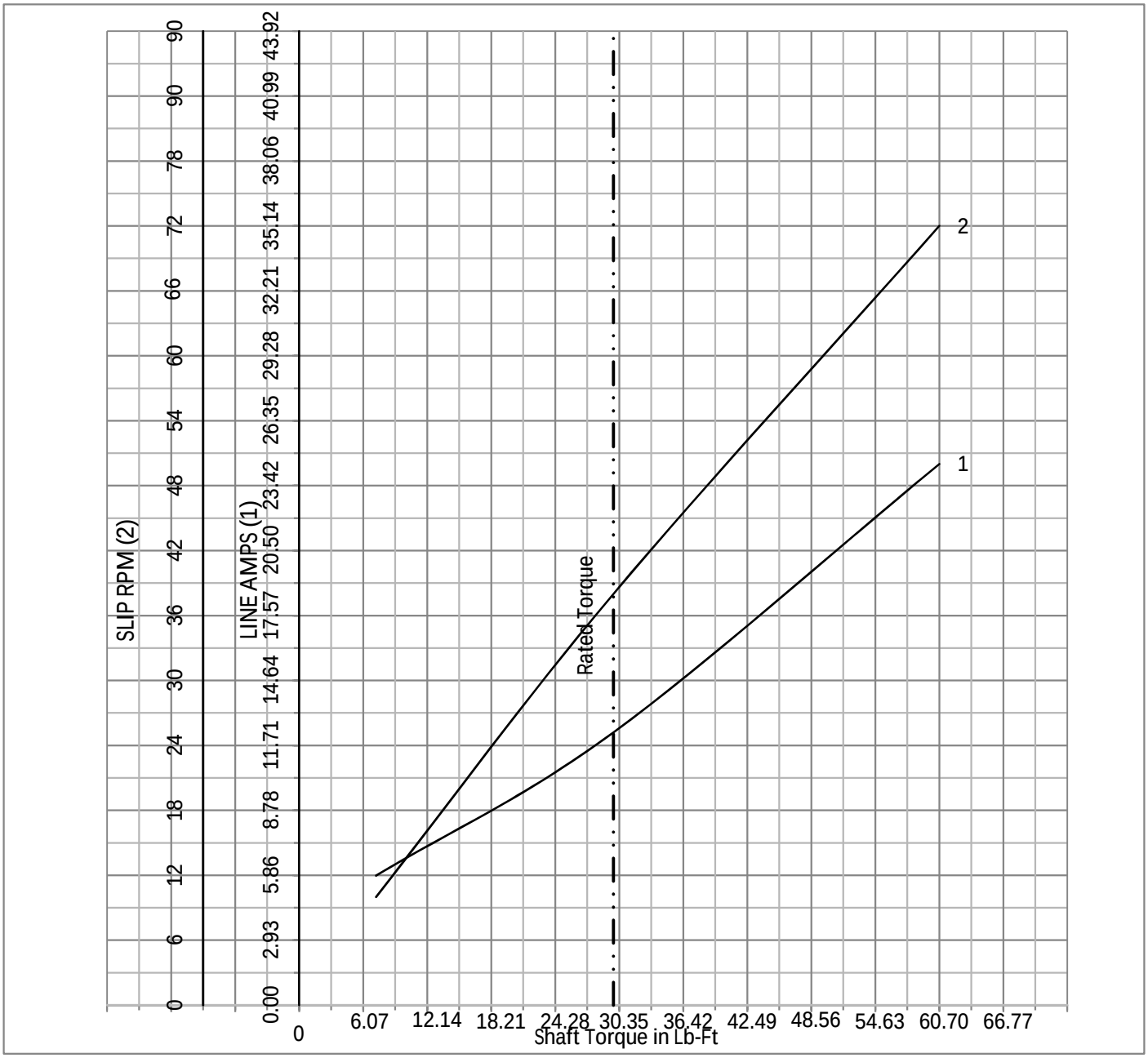
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ISSUE DATE 6/17/2015

Catalog	0	NP VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	215TC	NP AMPS	25/12.5	MAX SAFE RPM	2700	R1	0.507	X1	1.97
HP	10	DUTY	Cont	NL AMPS	5.12	R2	0.342	X2	1.58
BASE SPEED	1760	S.F.	1.00	P.F. @NL/FL	4.4/82			XM	48.3
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/F	WK^2 (lb-ft^2)	1.18				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

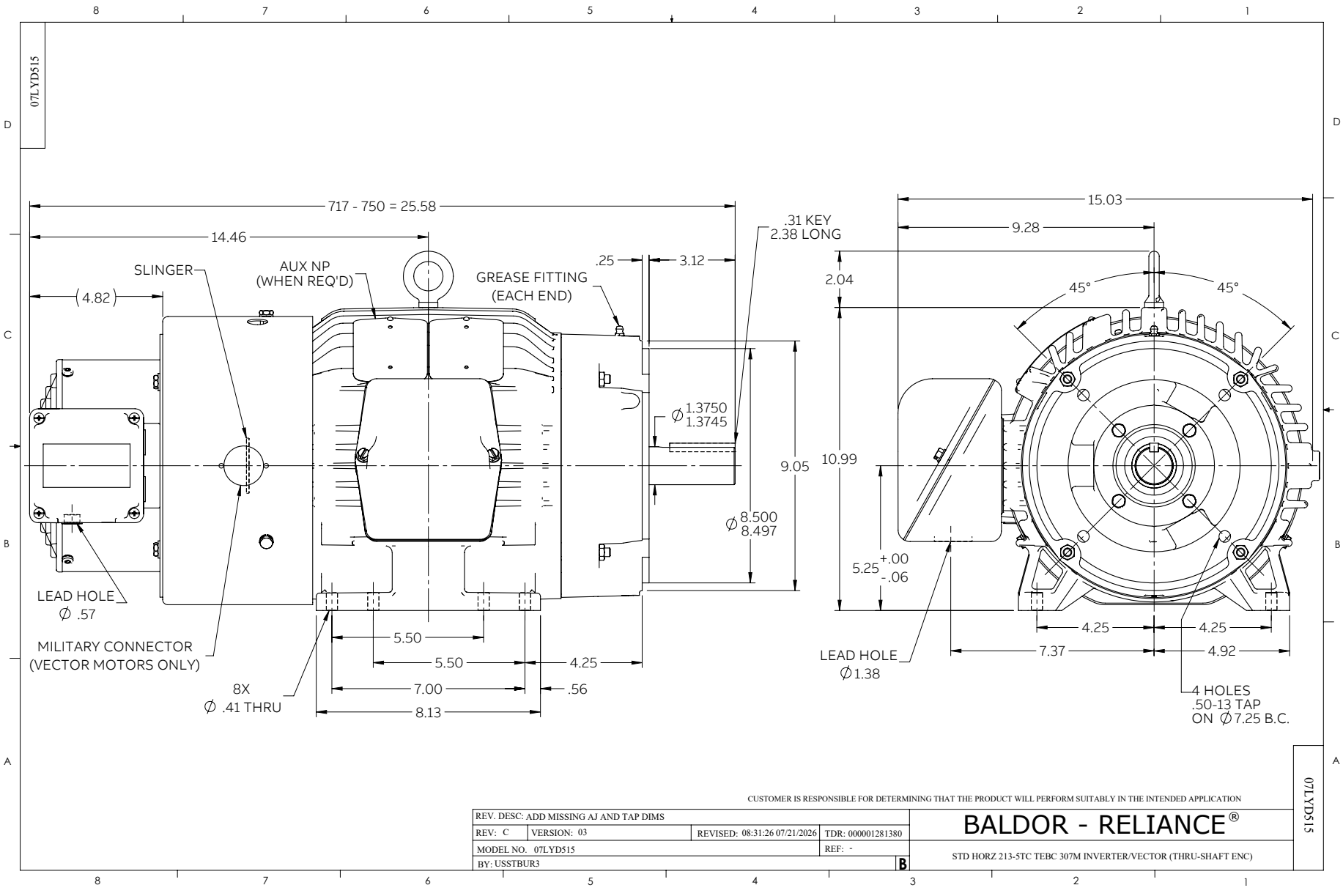
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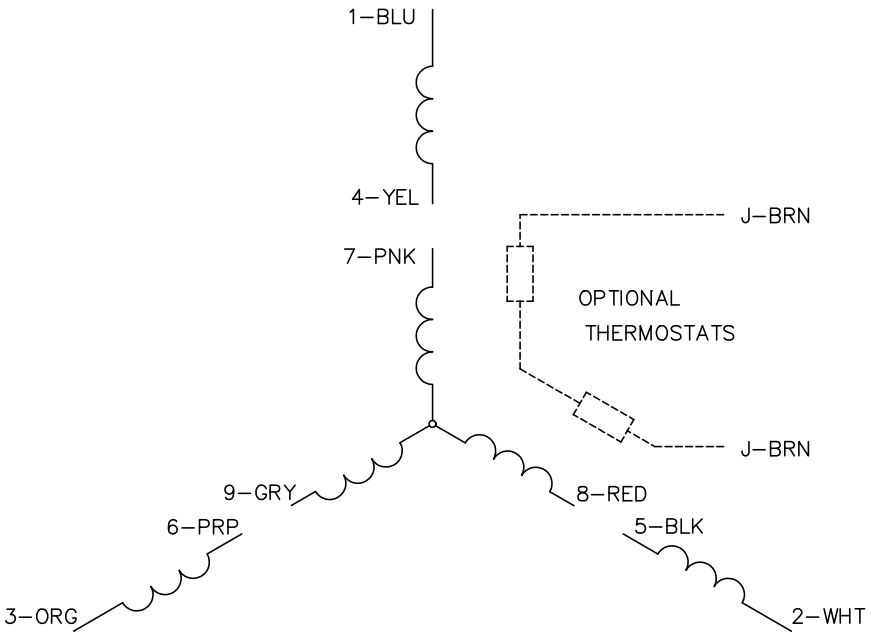
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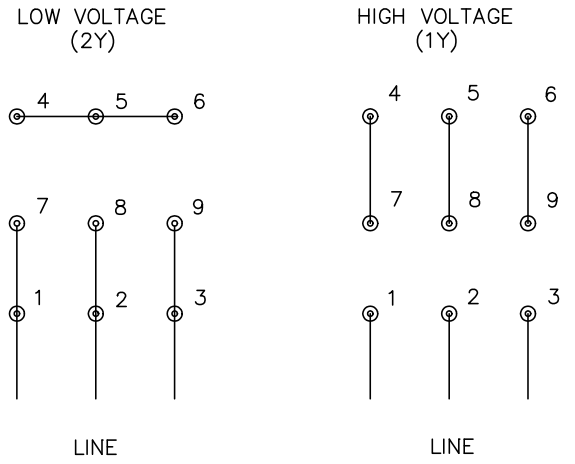
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ISSUE DATE 6/17/2015


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
Ø 1.3750
1.3745
9.05
Ø 8.500
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