ABB BALDOR RELIANCE

Customer information packet

ZDM3770T-5

38M 4P TEBC HOR 213TC T'STATS VECTOR
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEBC
Frame	213TC
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	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	7.500 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	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.5 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J

Part Detail

Revision	E
Type	AC
Mech. spec.	07D515
Base	
Status	PRD/A
Elec. spec.	07WGX817
Layout	07LYD515
Eff. date	09-30-2025
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	03-12-2019

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4000 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.58 IN
Power Factor	81
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	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

NP1167L							
CAT NO	ZDM3770T-5						
SPEC.	07D515X817Z1						
FRAME	213TC	**HP**	7.5 TE				
VOLTS	575						
MAG CUR	3.3	**FLA**	7.5				
RPM	1770	**RPM MAX**	4000				
HZ	60	**PH**	3	**CLASS**	H		
SER.F.	1.00	**DES**	A	**SL HZ**	1		
NEMA-NOM-EFF	91.7	**WK2**	0.934				
BLWR V		**PH**		**HZ**		**A**	
RATING	40C AMB-CONT						
DE BRG	6307	**ODE BRG**	6206				
CC	**SN**						
	1000:1 CT/VT						

AC Induction Motor Performance Data
Record # 36497
Typical performance - not guaranteed values

Winding: 07WGX817-R006	**Type:** 0738M	**Enclosure:** TEBC

Nameplate Data			
Rated Output (HP)			7.5
Volts			575
Full Load Amps			7.5
R.P.M.			1770
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	91.7	**Power Factor**	81
Rating - Duty			40C AMB-CONT

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	22.1 LB-FT
Start Configuration	direct on line
Breakdown Torque	73 LB-FT
Pull-up Torque	33.7 LB-FT
Locked-rotor Torque	44.4 LB-FT
Starting Current	58.7 A
No-load Current	3.66 A
Line-line Res. @ 25ºC	2.23 Ω
Temp. Rise @ Rated Load	42°C
Locked-rotor Power Factor	37.9
Rotor inertia	0.934 lb-ft²

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	40	62	73	79	82	84
Efficiency	86.9	91.4	92.2	91.7	90.9	89.7
Speed	1793	1786	1779	1771	1761	1751
Line amperes	4.07	4.98	6.23	7.7	9.4	11.2

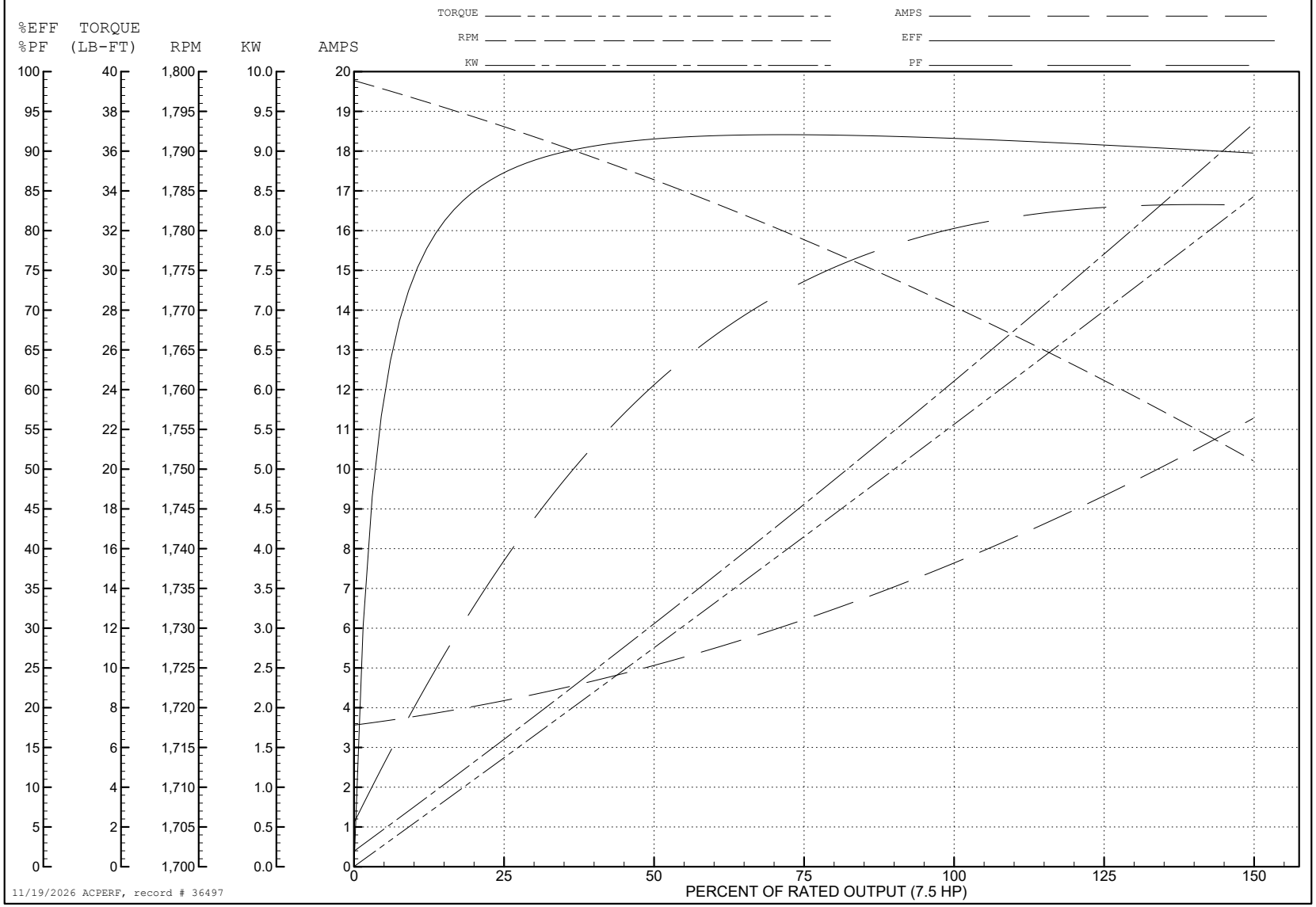
ABB Motors and Mechanical Inc.

WINDING # 07WGX817

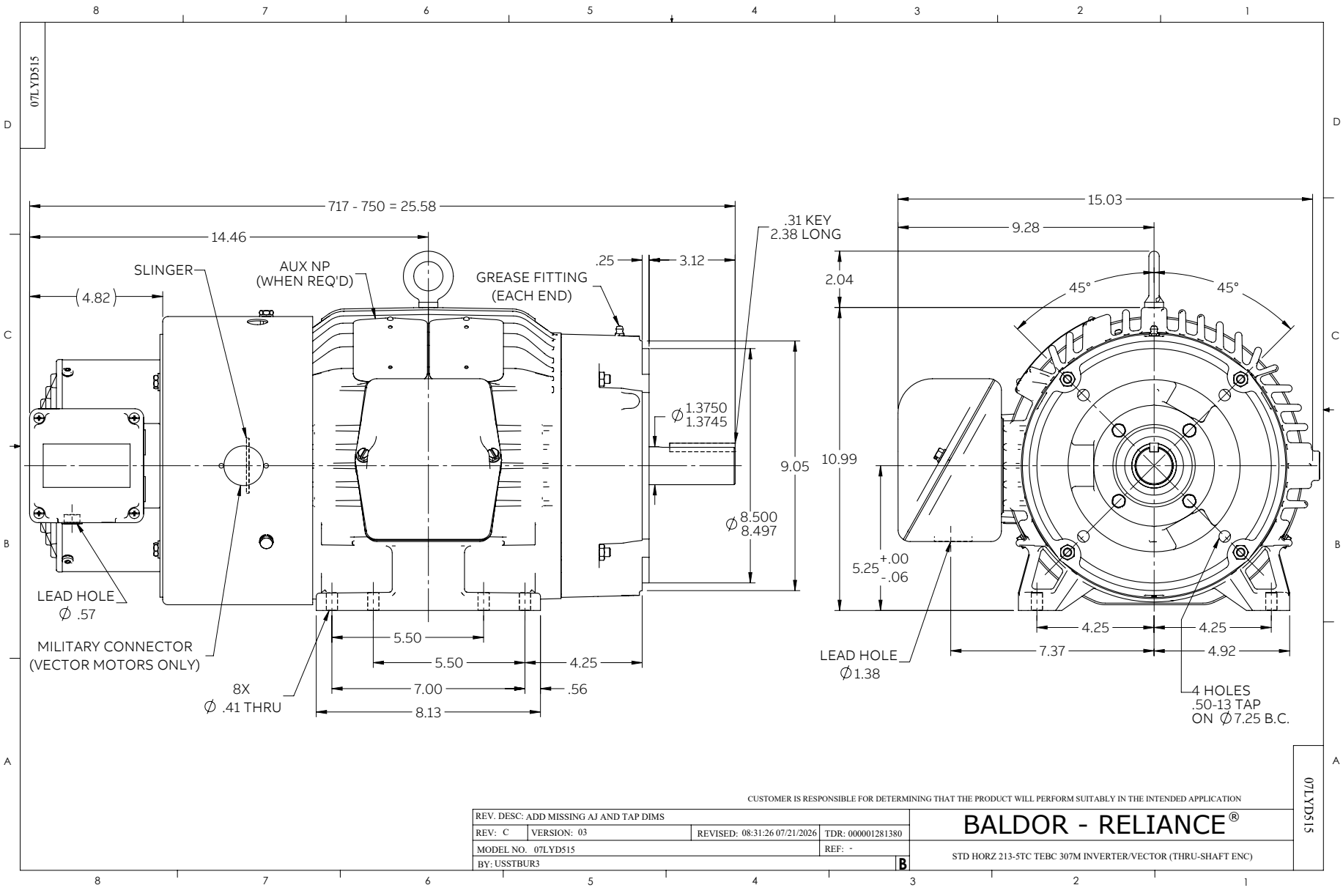
7.5 HP 3 PH 60 HZ 1770 RPM 575 V 0738M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=73 PU=33.7 LR=44.4 LRA=58.7

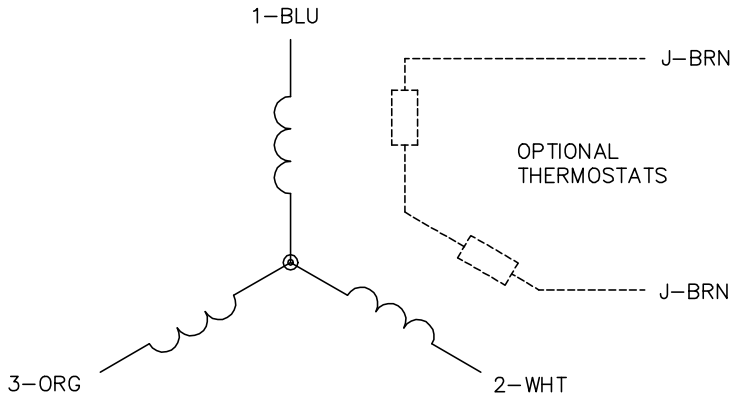


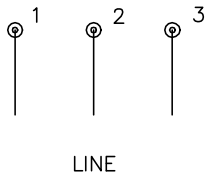
11/19/2026 ACPERF, record # 36497


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

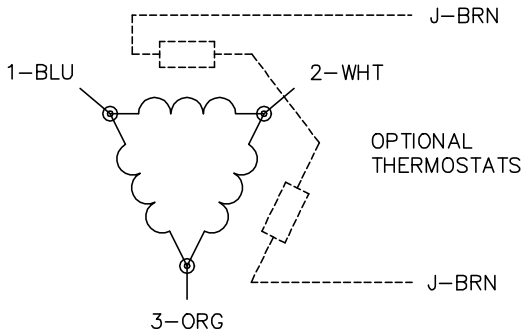
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1