ABB BALDOR RELIANCE

Customer information packet

VESSWDM3615T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Stainless Steel
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	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.100 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	5.1 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP56

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGR009
Layout	36LYL747
Eff. date	09-29-2022
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	02-11-2019

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.32 IN
Power Factor	82
Product Family	Wash Down All Stainless Steel
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1953B05							
CAT.NO.	VESSWDM3615T-5						
SPEC.	36-0000-0015						
HP	5						
VOLTS	575						
AMP	5.1						
RPM	1750						
FRAME	184TC	**HZ**	60		**PH**	3	
SER.F.	1.15	**CODE**	J	**DES**	B	**CLASS**	F
NEMA-NOM-EFF	89.5	**PF**	82				
RATING	40C AMB-CONT						
CC	010A	**USABLE AT 208V**			N/A		
DE	6206	**ODE**	6205				
ENCL	TEFC	**SN**					
	4:1CT 20:1VT						

AC Induction Motor Performance Data
Record # 74376
Typical performance - not guaranteed values

Winding: 36WGR009-R001	**Type:** 3646M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15.1 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			5.1	**Breakdown Torque**	48 LB-FT
R.P.M.			1750	**Pull-up Torque**	25.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30.7 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	36.1 A
Service Factor (S.F.)			1.15	**No-load Current**	2.08 A
NEMA Nom. Eff.	89.5	**Power Factor**	82	**Line-line Res. @ 25ºC**	3.73 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	78°C
				Locked-rotor Power Factor	38.7
				Rotor inertia	0.428 LB-FT2

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	68	78	83	84	85	84
Efficiency	85.7	90.2	90.4	89.9	88.4	87	89
Speed	1788	1776	1763	1748	1732	1715	1738
Line amperes	2.37	3.05	3.97	5.04	6.32	7.55	5.81

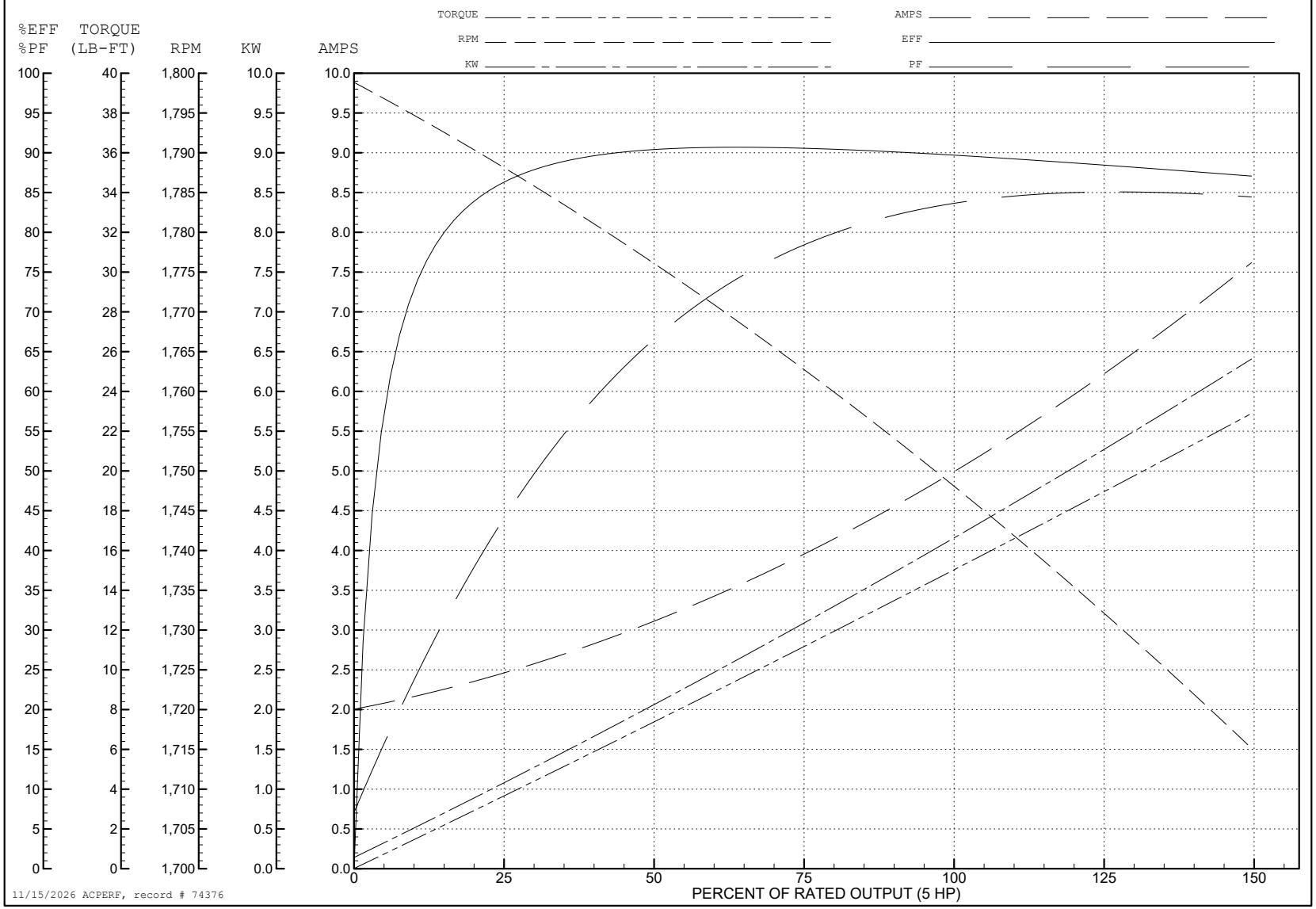
ABB Motors and Mechanical Inc.

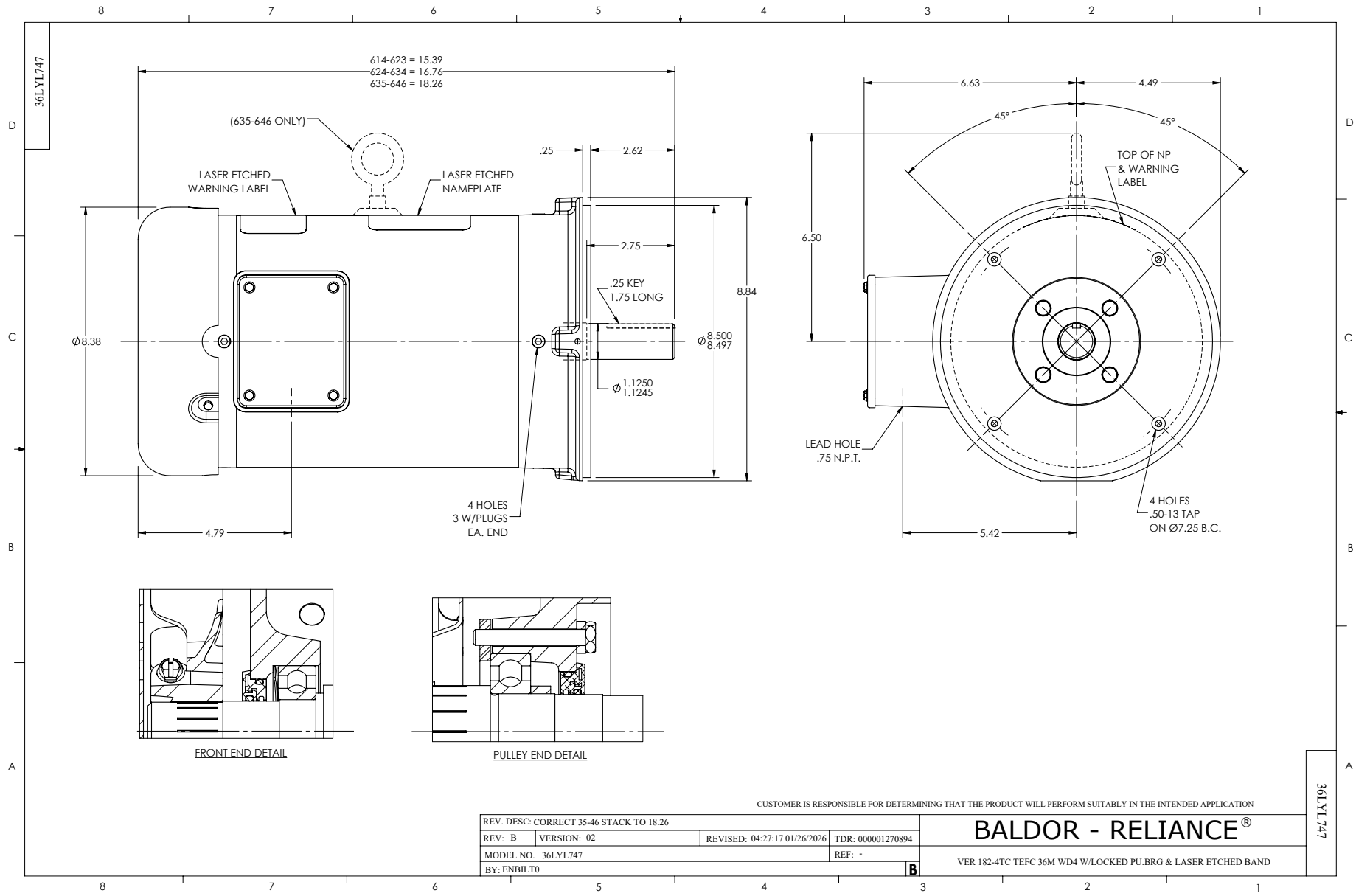
WINDING # 36WGR009

5 HP 3 PH 60 HZ 1750 RPM 575 V 3646M

Typical performance - not guaranteed values.

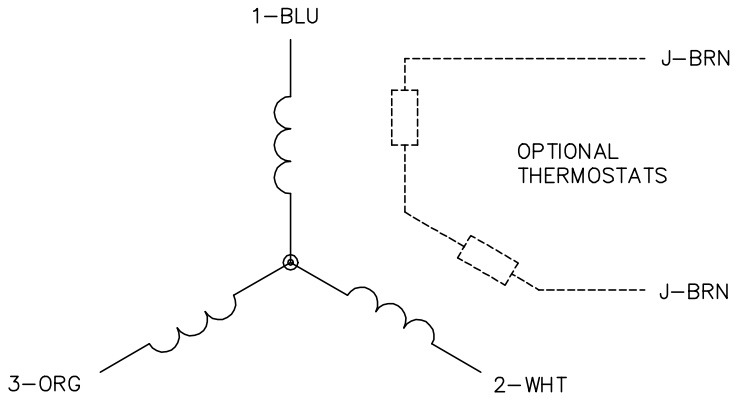
TORQUES(LB-FT): PO=48 PU=25.1 LR=30.7 LRA=36.1

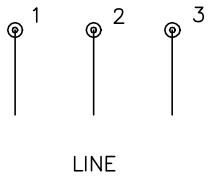



36LYL747
614-623 = 15.39
624-634 = 16.76
635-646 = 18.26
(635-646 ONLY)
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
.25
2.62
2.75
.25 KEY 1.75 LONG
8.84
Ø8.38
Ø8.500 8.497
Ø1.1250 1.1245
4.79
4 HOLES 3 W/PLUGS EA. END
6.63
4.49
45°
45°
TOP OF NP & WARNING LABEL
6.50
LEAD HOLE .75 N.P.T.
4 HOLES .50-13 TAP ON Ø7.25 B.C.
5.42
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT 35-46 STACK TO 18.26
REV: B
VERSION: 02
REVISED: 04:27:17 01/26/2026
TDR: 000001270894
MODEL NO. 36LYL747
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
VER 182-4TC TEFC 36M WD4 W/LOCKED PU.BRG & LASER ETCHED BAND
36LYL747

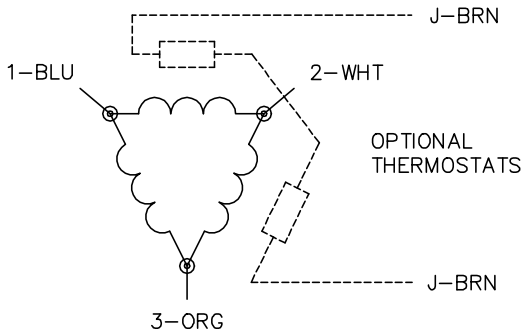
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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