

ABB BALDOR RELIANCE III

Customer information packet

VESSWDM3615T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, TEFC, F1

Class - None

Division - Not Applicable

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										

Parts List

Part number	Description	Quantity
SA366079	SA 36-0000-0015	1.000 ea
RA355487	RA 36-0000-0015	1.000 ea
HW3200S01	EYEBOLT 3/8-16 X3/4 S.S. TDR #35988	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
36FH4011	WASHDOWN FAN COVER #304 STAINLESS W/NOTC	1.000 ea
10XN1032S06	HEX HD CAP SCREW, SS	3.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3101S29	THRUBOLT- 1/4-20X13.00 SS	4.000 ea
HA1049A02	DUBO LOK WASHER SIZE 1/4 (NYLON LOCK SEA	4.000 ea
36EP1907A01	FRONT TEFC 205 BRG NO GRSR S/P 9-2 (STAI	1.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
36EP1908A03	PUEP, FOR LOCKED 6206 BRG	1.000 ea
HW4606A03	JM CLIPPER/SEAL (LWE-1156-1875-AL44)	1.000 ea
10XN2520S28	1/4-20X 1 3/4 HEX HD SS X	4.000 ea
HA1049A02	DUBO LOK WASHER SIZE 1/4 (NYLON LOCK SEA	4.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
36CB1003A01	CONDUIT BOX	1.000 ea
36GS1025	36 MOLDED GASKET W/LIP, LEAD SEAL, FOR	1.000 ea
10XN1032S08	10-32X1/2 HEX HEAD S STL	2.000 ea
HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
36CB4517	LIPPED CB LID #304 STAINLESS - CLEANED	1.000 ea
37GS3010SP	1/16"WHITE LID GASKET	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea
HW2502E17	SS KEY 1/4 X 1.875	1.000 ea

HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
FE-0000007	ZRTG FE ASSEMBLY	1.000 ea
PE-0000012	ZRTG PE ASSEMBLY	1.000 ea

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. @ 25°C	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-FT ²

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

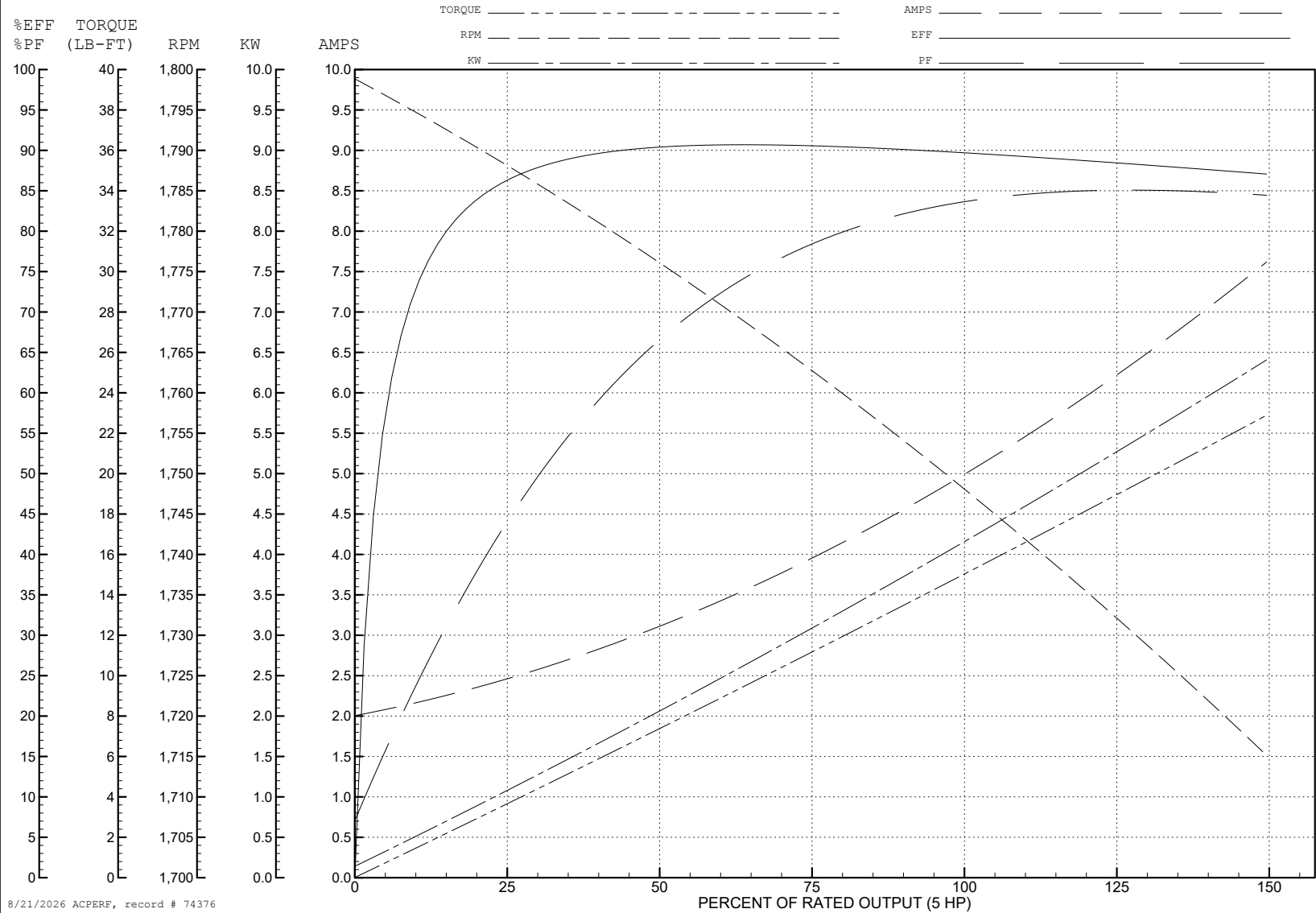
ABB Motors and Mechanical Inc.

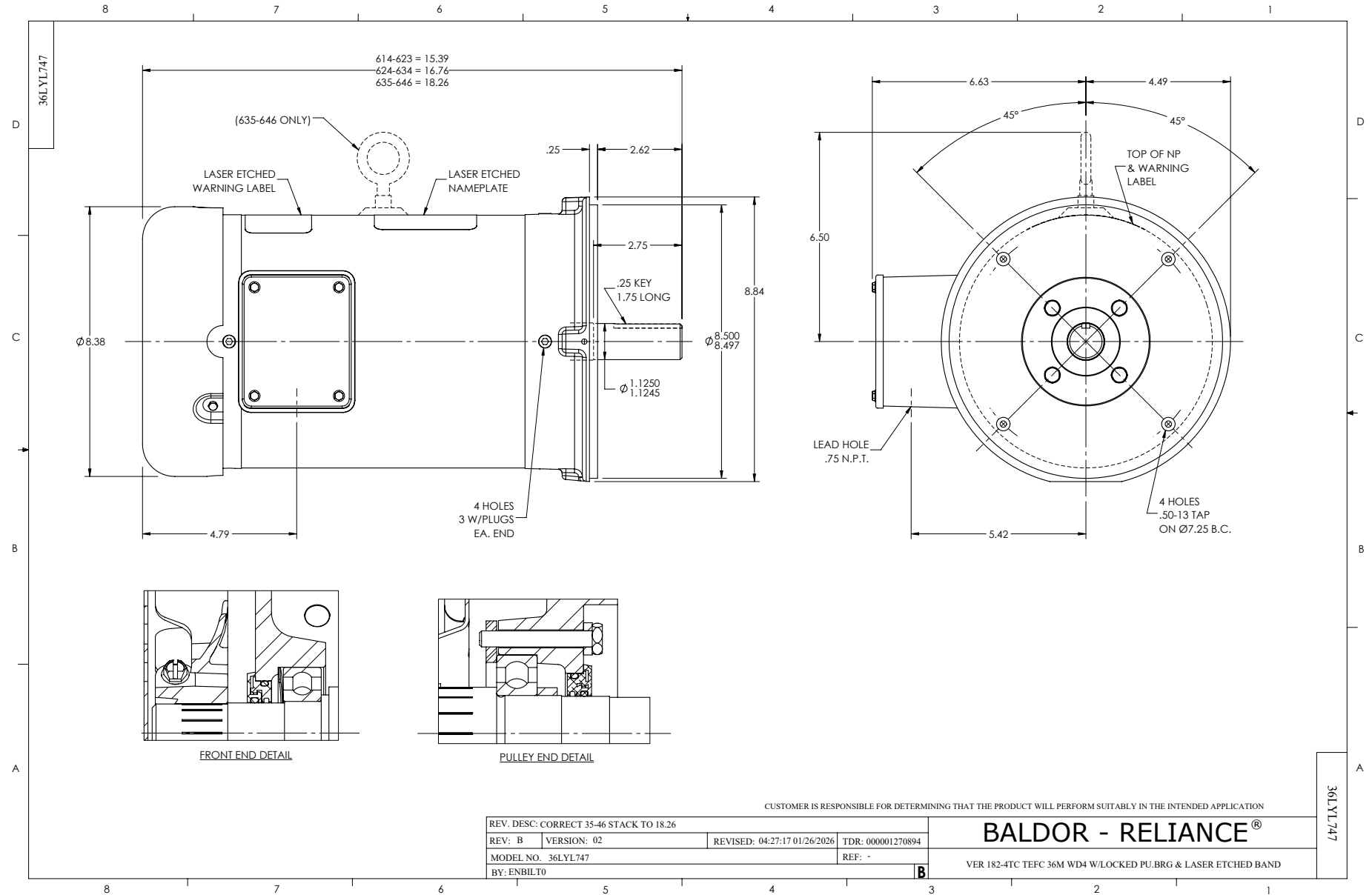
WINDING # 36WGR009

Typical performance - not guaranteed values.

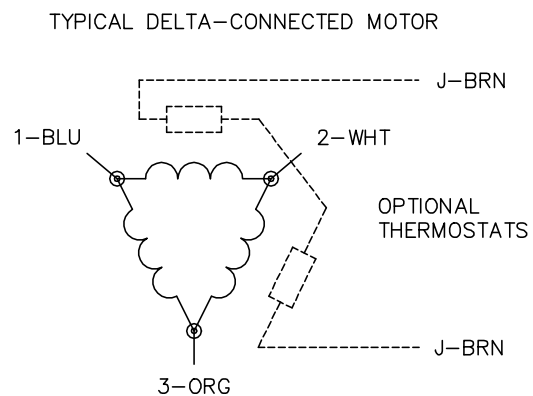
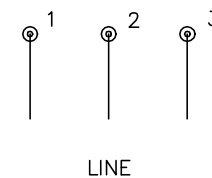
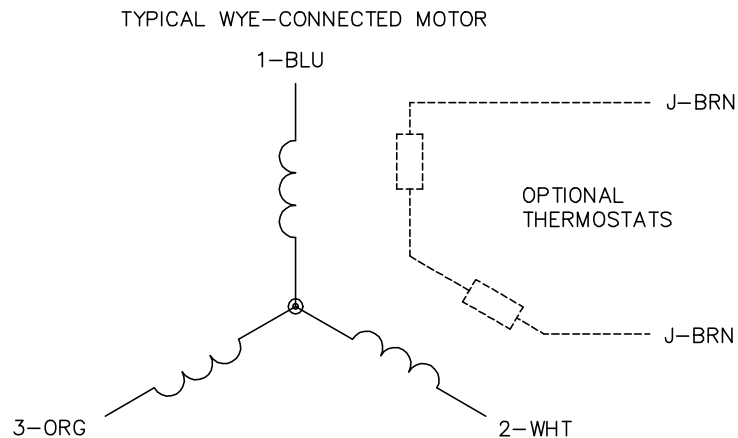
5 HP 3 PH 60 HZ 1750 RPM 575 V 3646M

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





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

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