

ABB BALDOR RELIANCE III

Customer information packet

VESWDNM3558T-5

2HP, 1760RPM, 3PH, 60HZ, 145TC, 3540M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	145TC
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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	2.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a
Insulation Class	F

Part Detail

Revision	A
Type	AC
Mech. spec.	35SS620
Base	
Status	PRD/A
Elec. spec.	35WGG440
Layout	35LYSS620
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.38 IN
Power Factor	77
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1669L											
CAT.NO.	VESWDNM3558T-5										
SPEC.	35SS620G440G1										
HP	2										
VOLTS	575										
AMP	2.2										
RPM	1760										
FRAME	145TC		HZ	60				PH	3		
SER.F.	1.15		CODE	M	DES	B		CLASS	F		
NEMA-NOM-EFF	87.5		PF	77							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TENV		SN								
BLANK	SFA 2.45										

Parts List

Part number	Description	Quantity
SA410939	SA 35SS620G440G1	1.000 ea
RA402552	RA 35SS620G440G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB5001A21	CONDUIT BOX KIT, FOR SUPER II WASHDOWN	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122D00U	MASTER ODE,203 BRG,.125NPT DRNS(BALL BUR	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307E00U	MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	2.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	4.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3100S26	THRUBOLT 10X32 X 10.875	4.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 91765

Typical performance - not guaranteed values

Winding: 35WGG440-R001				Type: 3540M		Enclosure: TENV		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		2		Full Load Torque		5.96 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		2.2		Breakdown Torque		25.18 LB-FT		
R.P.M.		1760		Pull-up Torque		15.43 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		19.59 LB-FT		
NEMA Design Code		B	KVA Code	M	Starting Current		21.29 A	
Service Factor (S.F.)		1.15		No-load Current		1.21 A		
NEMA Nom. Eff.		87.5	Power Factor	77	Line-line Res. @ 25°C		11.8 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		78°C
S.F. Amps		2.45				Temp. Rise @ S.F. Load		93°C
						Locked-rotor Power Factor		51.7438
						Rotor inertia		0.289 lb-ft²

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	56	70	77	82	84	80
Efficiency	81	87.2	88.4	88	86.9	85.4	87.3
Speed	1788	1780	1771	1761	1749	1737	1754
Line amperes	1.3	1.51	1.83	2.2	2.63	3.11	2.46

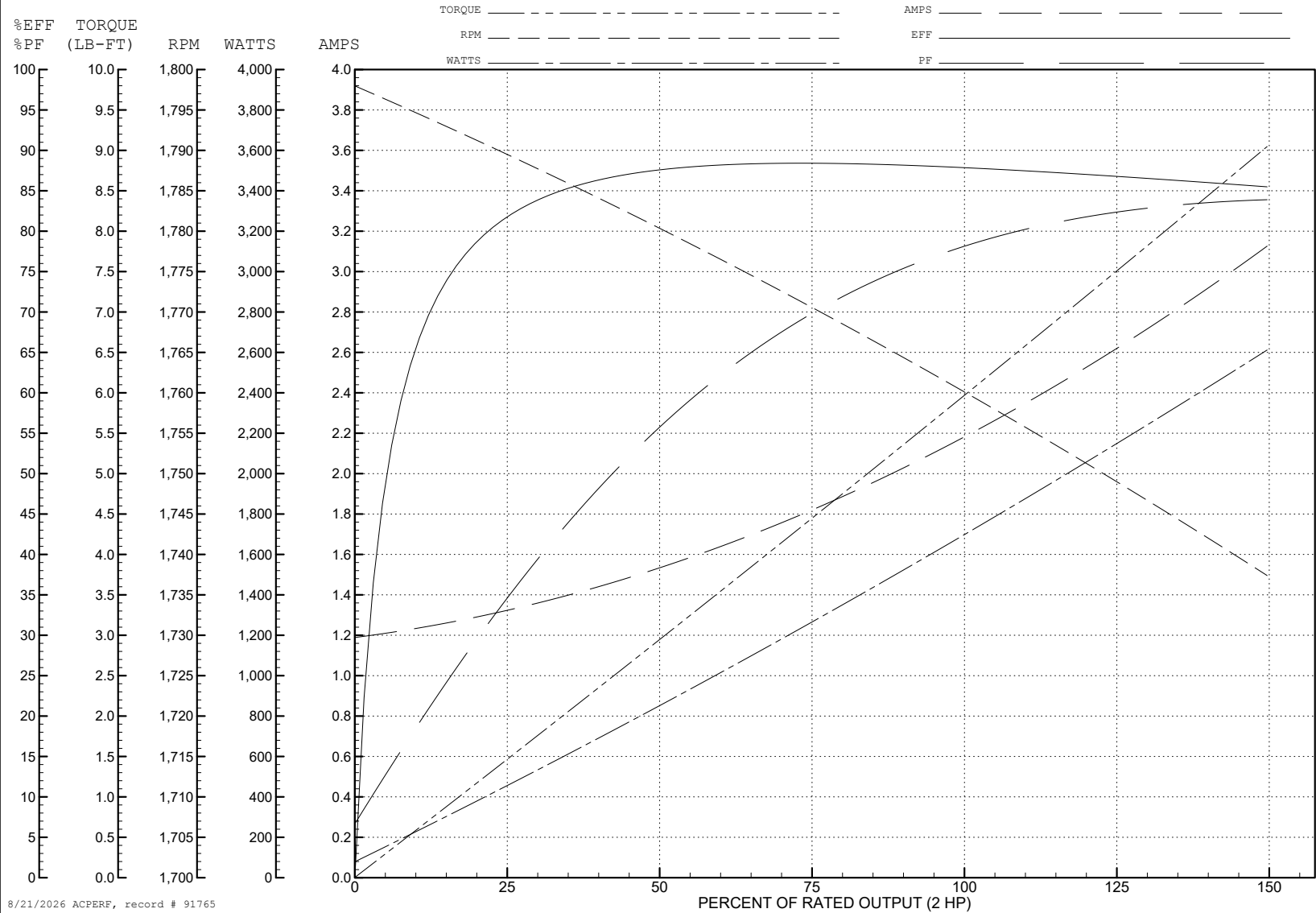
ABB Motors and Mechanical Inc.

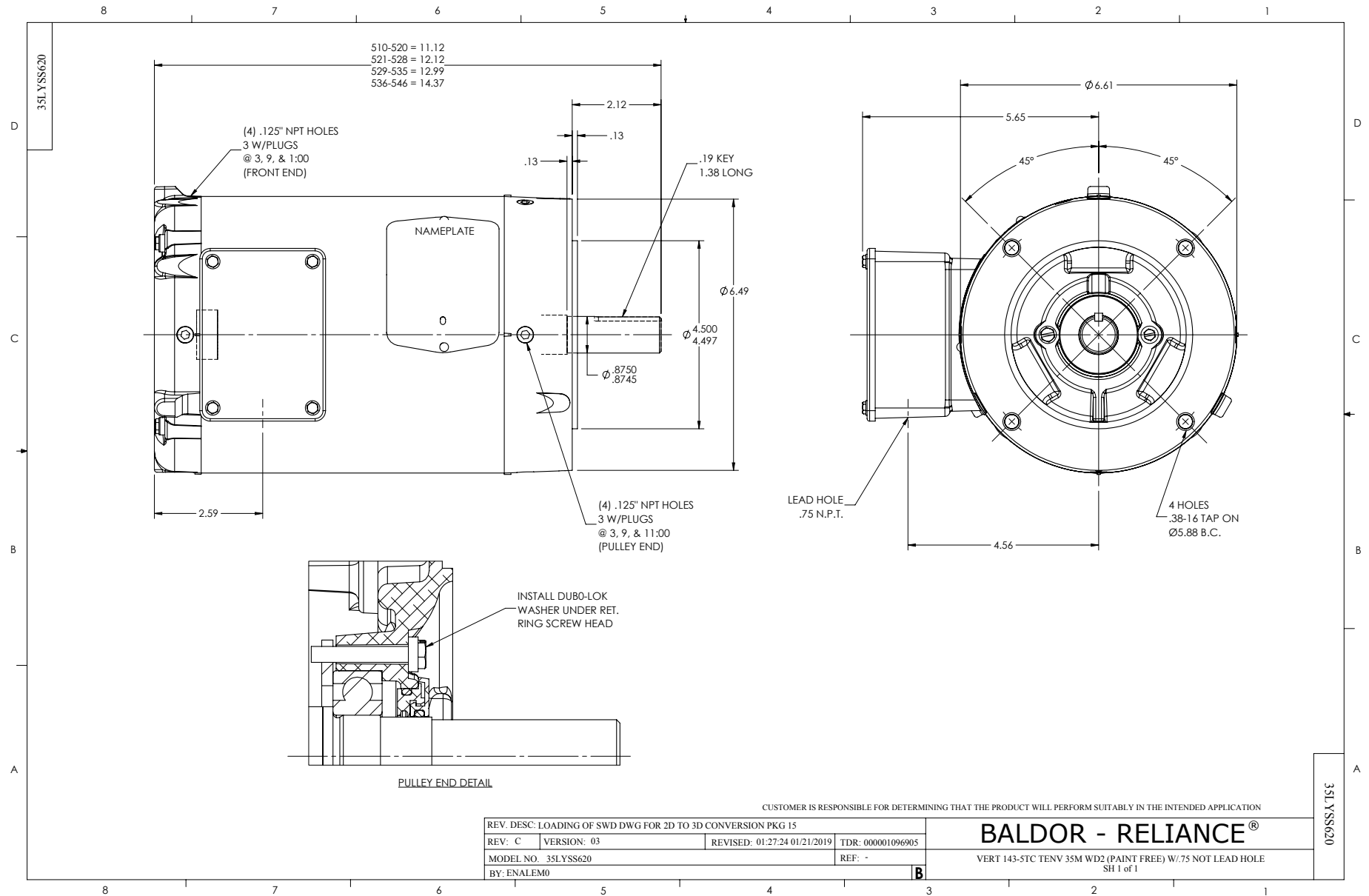
WINDING # 35WGG440

Typical performance - not guaranteed values.

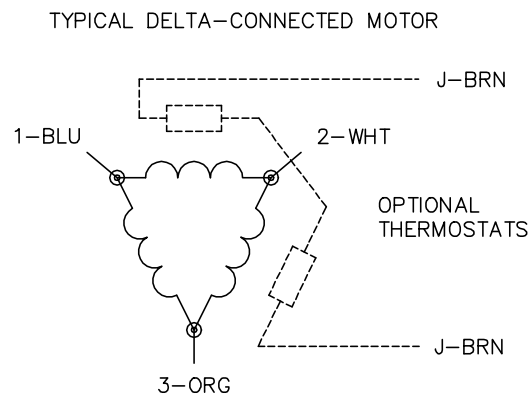
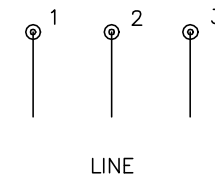
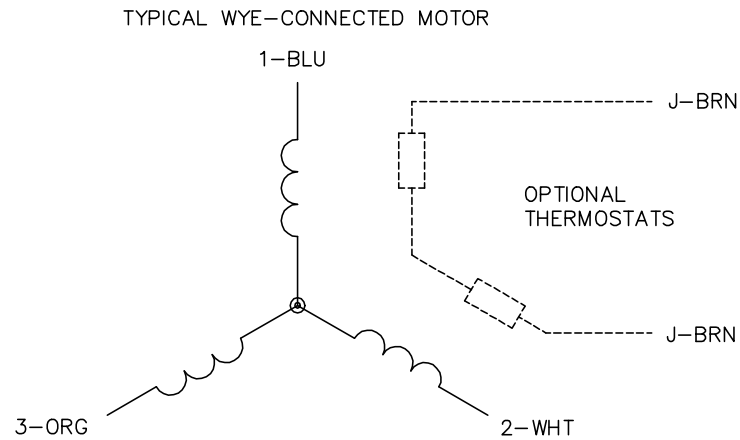
2 HP 3 PH 60 HZ 1760 RPM 575 V 3540M

TORQUES (LB-FT) : PO=25.18 PU=15.43 LR=19.59 LRA=21.29





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

SH 1 of 1