

BALDOR • RELIANCE

Customer information packet

VEM3558-5

2HP, 1764RPM, 3PH, 60HZ, 56C, 3528M, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	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
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.150 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
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	J
Type	AC
Mech. spec.	35A013
Base	
Status	PRD/A
Elec. spec.	35WGG113
Layout	35LYA013
Eff. date	04-29-2024
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
Proprietary	False
Created date	01-10-2022

Inverter Code	Not Inverter
KVA Code	L
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	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.23 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1764 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

NP3441L									
CAT.NO.	VEM3558-5								
SPEC.	35A013G113G1								
HP	2								
VOLTS	575								
AMP	2.15								
RPM	1765								
FRAME	56C		HZ	60		PH	3		
SER.F.	1.15	CODE	L	DES	B	CL	F		
NEMA-NOM-EFF	86.5	PF	80						
RATING	40C AMB-CONT								
CC	010A								
DE	6205		ODE	6203					
ENCL	TEFC	SN							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	SFA 2.56								

Parts list

Part number	Description	Quantity
SA402546	SA 35A013G113G1	1.000 ea
RA393823	RA 35A013G113G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *** NLA IN 5 GALLON	0.017 ga
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP3441L	ALUM SUPER-E VPWM INVERTER READY UL EEV	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A06	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	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 # 81982

Typical performance - not guaranteed values

Winding: 35WGG113-R001		Type: 3528M	Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)		2	Full Load Torque	5.95 LB-FT
Volts		575	Start Configuration	direct on line
Full Load Amps		2.15	Breakdown Torque	23.7 LB-FT
R.P.M.		1765	Pull-up Torque	14.43 LB-FT
Hz	60 Phase	3	Locked-rotor Torque	17.45 LB-FT
NEMA Design Code	B KVA Code	L	Starting Current	19.89 A
Service Factor (S.F.)		1.15	No-load Current	1.39 A
NEMA Nom. Eff.	86.5 Power Factor	80	Line-line Res. @ 25°C	15 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	58°C
S.F. Amps		2.56	Temp. Rise @ S.F. Load	70°C
			Locked-rotor Power Factor	57
			Rotor inertia	0.188 lb-ft ²

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	54	68	76	81	84	79
Efficiency	77	84.7	86.6	86.3	85.3	83.7	85.7
Speed	1791	1783	1775	1766	1757	1745	1761
Line amperes	1.45	1.64	1.93	2.29	2.74	3.19	2.56

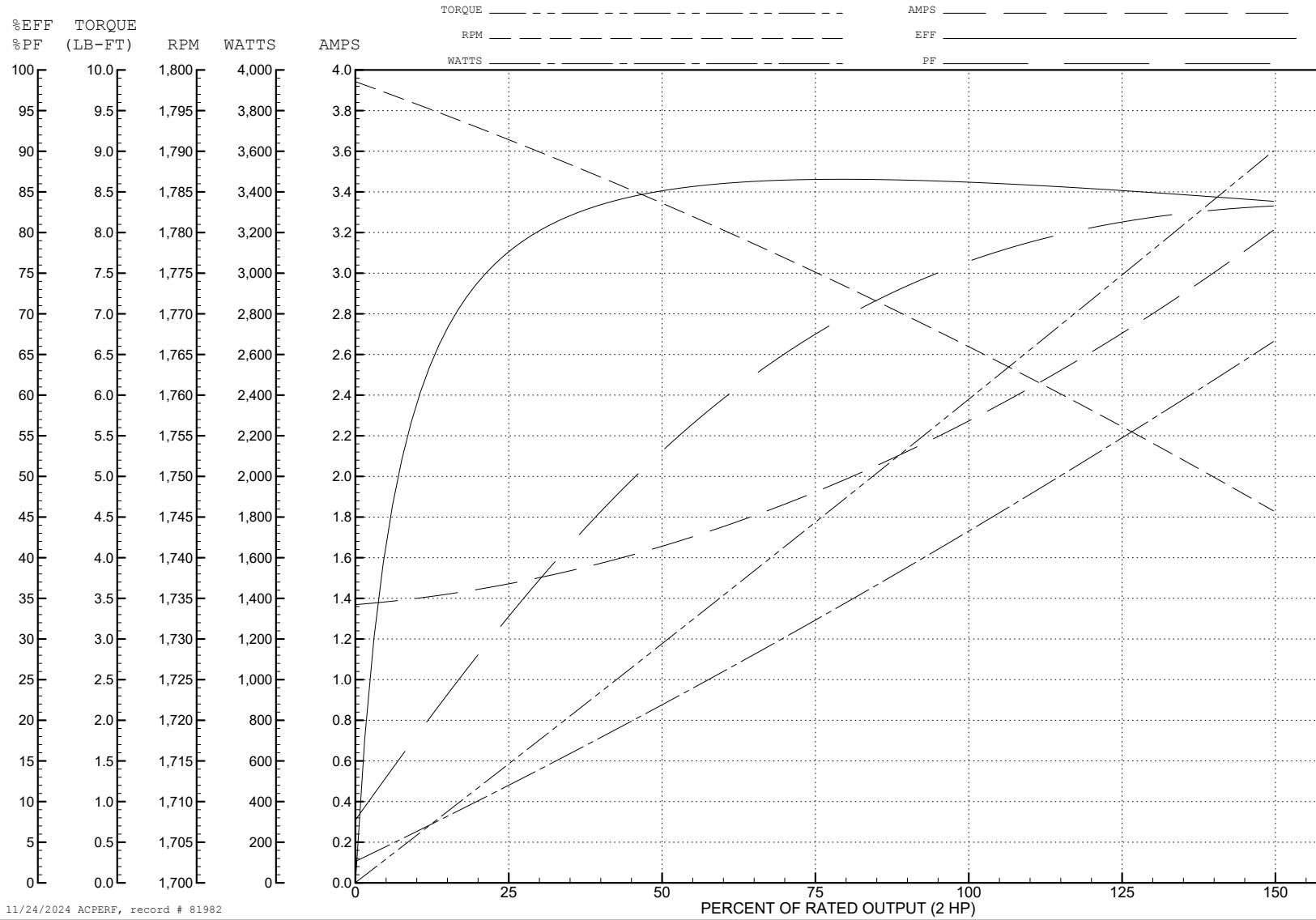
ABB Motors and Mechanical Inc.

WINDING # 35WGG113

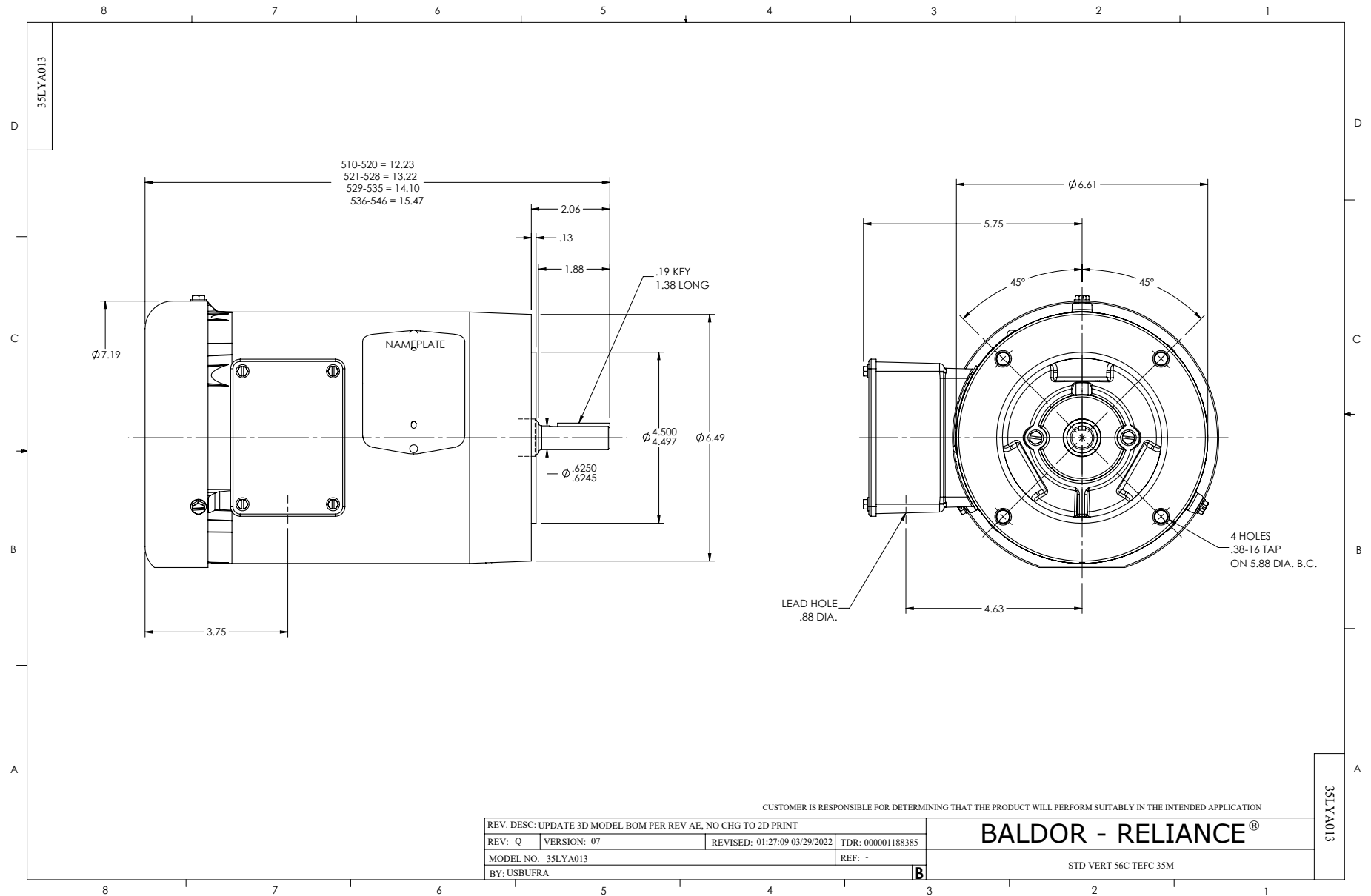
Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1765 RPM 575 V 3528M

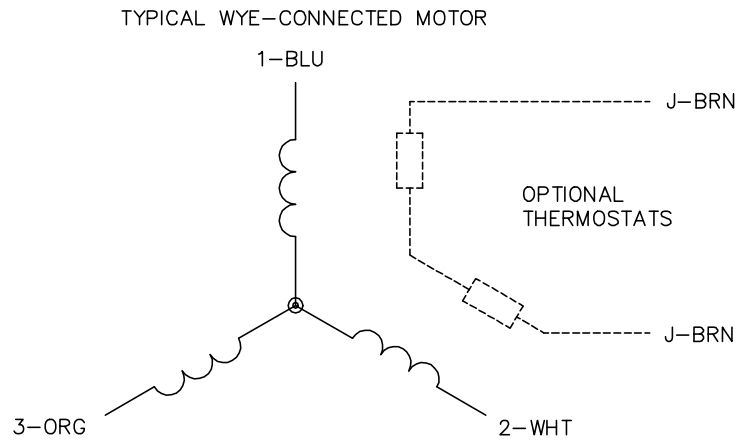
TORQUES (LB-FT): PO=23.7 PU=14.43 LR=17.45 LRA=19.89



11/24/2024 ACPERF, record # 81982



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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