

ABB BALDOR RELIANCE III

Customer information packet

VXM050522A

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3410M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA UL
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	1.100 A @ 460.0 V 2.200 A @ 230.0 V 2.400 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WG3302
Layout	34LY5336
Eff. date	05-01-2024
CD Diagram	CD0007
Poles	02
Leads	12#18
Proprietary	False
Created date	03-04-2021

High Voltage Full Load Amps	1.1 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3410M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.22 IN
Power Factor	63
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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	Automatic Thermal Overload
Winding Thermal 1 Location	EP
Winding Thermal 2	None

Nameplate

NP0016XPSL					
NO.		CC			
SER. #					
SPEC	34-0000-0395				
CAT.NO.	VXM050522A				
H.P.	.5 34WG3302	T. CODE	T3C		
VOLTS	208-230/460				
AMPS	2.4-2.2/1.1				
R.P.M.	3450				
HZ	60	PH	3	CLASS	B
SER.F.	1.00	DES	B	CODE	L
RATING	40C AMB-CONT				
FRAME	56C	NEMA NOM. EFF	68		
	PF	63			
BLANK	NEMA MG-1 PART 5, IP54				

Parts List

Part number	Description	Quantity
SA391437	SA 34-0000-0395	1.000 ea
RA381931	RA 34-0000-0395	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0007	CONNECTION LABEL	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
NP0016XPSL	SS XP UL CSA CC CL-I GP-D CL-II GP-F&G	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP0018W	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 ea
TPMYJ72KX	THERMAL 3PH 0.75 AUT 120C	1.000 ea
51XT0632A06	6-32X3/8 TY F HEX HD SLT	2.000 ea
HA6001A01	THERMAL RETAINER (PLATED)	1.000 ea
NS2500A05	INSULATOR, AUTO THER PROT	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
HA3104A03	THRUBOLT 5/16-18 X 7.625 W QTE#457	4.000 ea
34EP3703A01	FR ENDPLATE, MACH XP	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3705A01SP	PU ENDPLATE, MACH	1.000 ea
35CB3001A01SP	EXPL CONDUIT BOX, MACH, 1/2" PIPE TAP LE	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW4002A02	1-11.5X2LG PIPE NIPPLE (F/S)	1.000 ea
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 ea
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 ea
SP5037A01	TERMINAL PLATE ASS'Y MODEL 34 - 3 PHASE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HA1025A13	WSHR,FELT,.38" THICK F-26 CLASS	1.000 ea
HW3021E06	1/8 DIA X 5/8 ROLLPIN (F/S)	1.000 ea

WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	12.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	12.000 ea
MG1025G29	WILKOFAST, 789.229, DARK CHARCOAL GRAY	0.014 ga
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MJ5000A09	EFI KIT #1578 (400 ML CARTRIDGE OF EFI	0.031 ea

AC Induction Motor Performance Data

Record # 6680

Typical performance - not guaranteed values

Winding: 34WG3302-R002			Type: 3410M		Enclosure: XPFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		0.75 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		2.4-2.2/1.1	Breakdown Torque		3.4 LB-FT	
R.P.M.		3450	Pull-up Torque		2.7 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		3 LB-FT
NEMA Design Code		B	KVA Code		L	
Service Factor (S.F.)		1	No-load Current		0.9 A	
NEMA Nom. Eff.		68	Power Factor		63	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		58°C	
			Locked-rotor Power Factor		78	
			Rotor inertia		0.0093 LB-FT2	

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	33	44	56	64	70	77
Efficiency	41.4	56.3	64	67.2	68.4	68.5
Speed	3563	3535	3501	3466	3432	3381
Line amperes	0.91	0.97	1.01	1.1	1.2	1.33

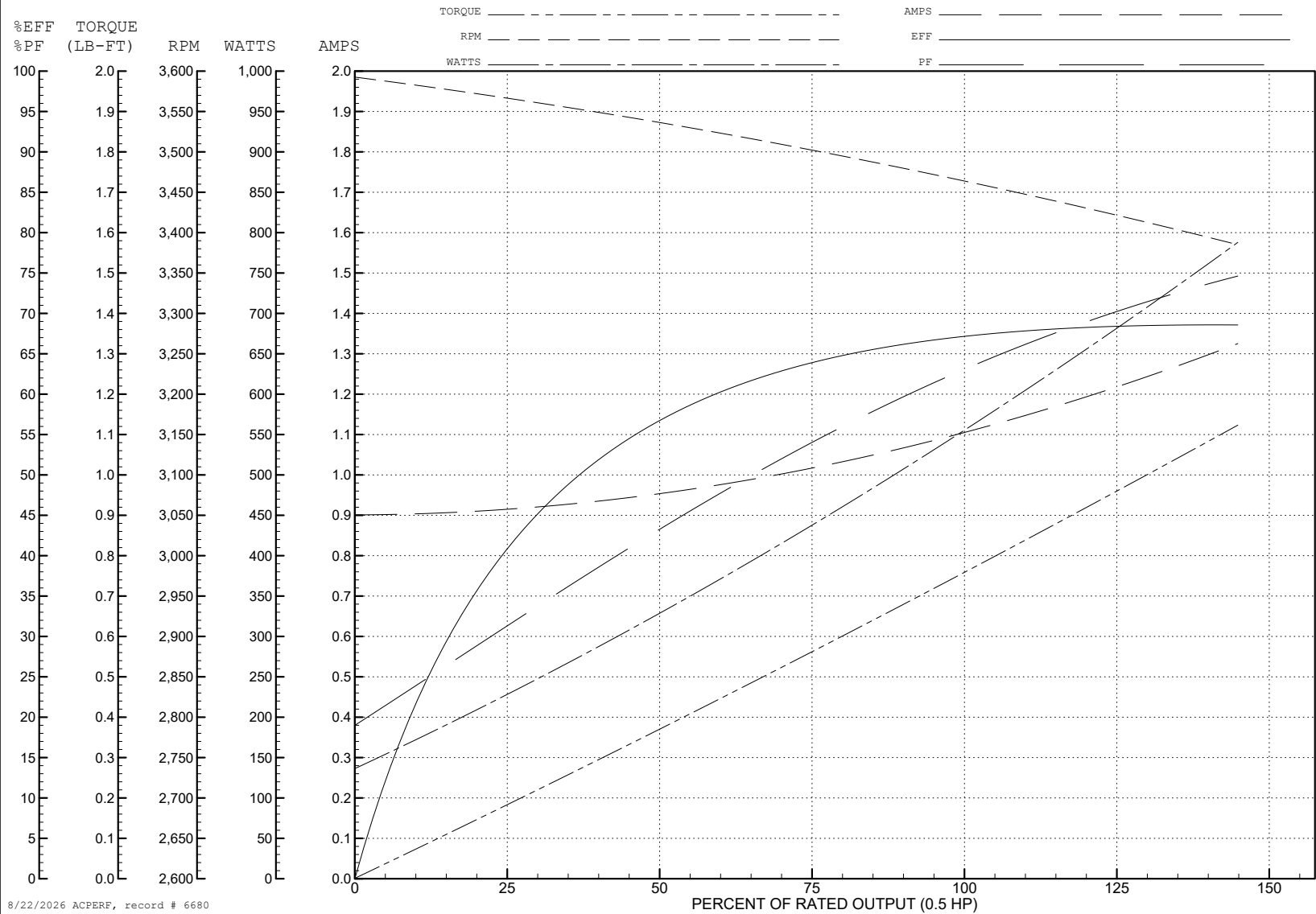
ABB Motors and Mechanical Inc.

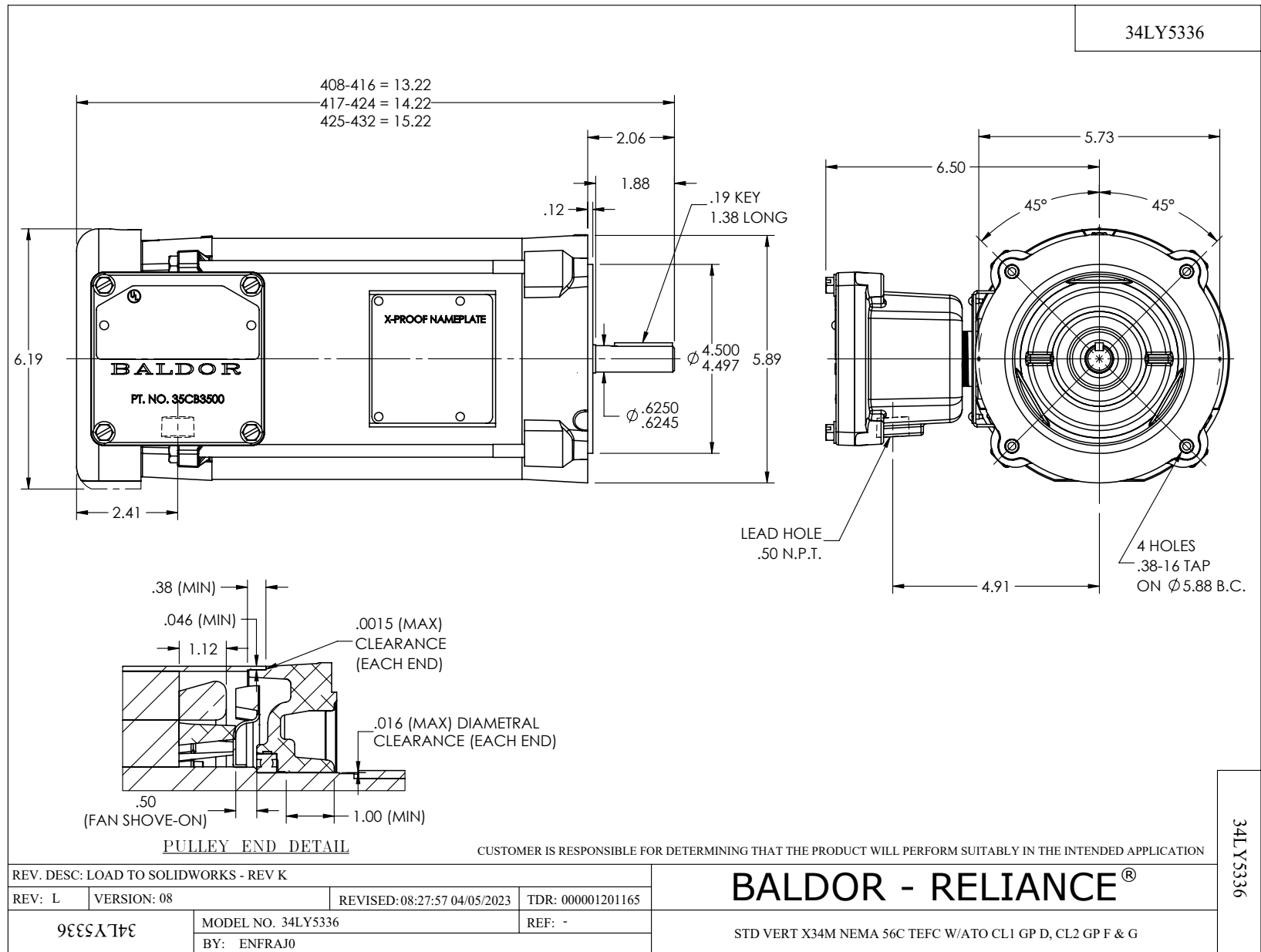
WINDING # 34WG3302

0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

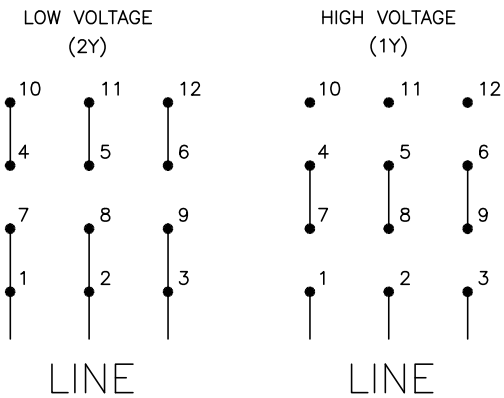
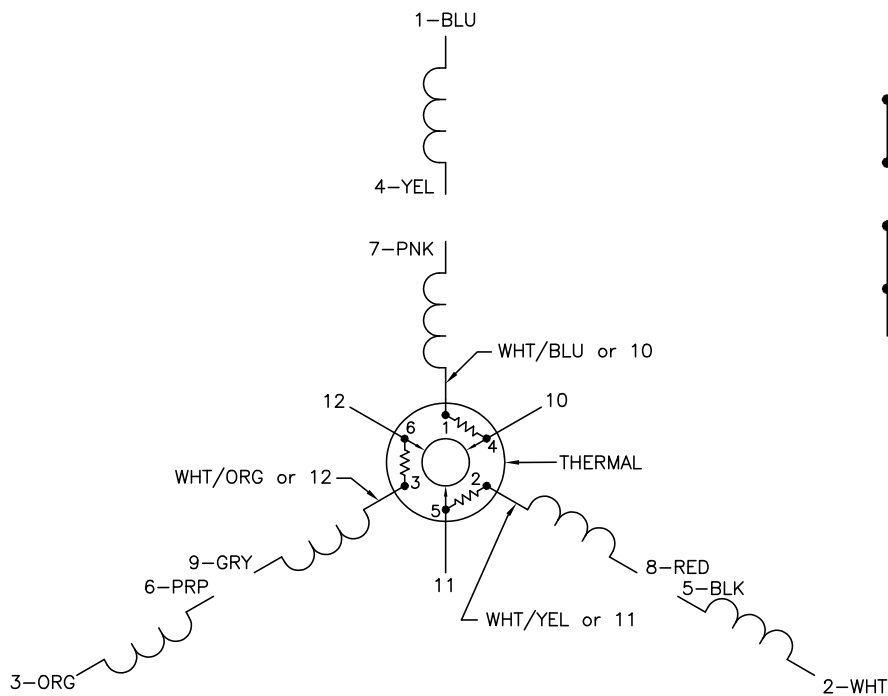
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=3.4 PU=2.7 LR=3 LRA=6





CD0007



- NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0007

REV. DESC: ADDED "CK" PLANT CODE			
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
L00000		FILE: AAA00008370	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS