

ABB BALDOR RELIANCE III

Customer information packet

M7005A

.5HP, 3450RPM, 3PH, 60HZ, 56, X3410M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56
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	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UL CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
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
Front Face Code	Standard

Part Detail

Revision	AG
Type	AC
Mech. spec.	34-5323
Base	
Status	PRD/A
Elec. spec.	34WG3302
Layout	34LY5323
Eff. date	05-01-2024
CD Diagram	CD0007
Poles	02
Leads	12#18
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.1 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 18 AWG
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 End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
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	SB

Nameplate

NP0016XPSL									
NO.		CC							
SER. #									
SPEC	34-5323-3302								
CAT.NO.	M7005A								
H.P.	.5		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	56					NEMA NOM. EFF	68		
		PF	63						
BLANK									

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	Starting Current		6 A	
NEMA Nom. Eff.		68	Power Factor		63	
Rating - Duty		40C	AMB-CONT			
			Line-line Res. @ 25°C		35.1 Ω	
			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

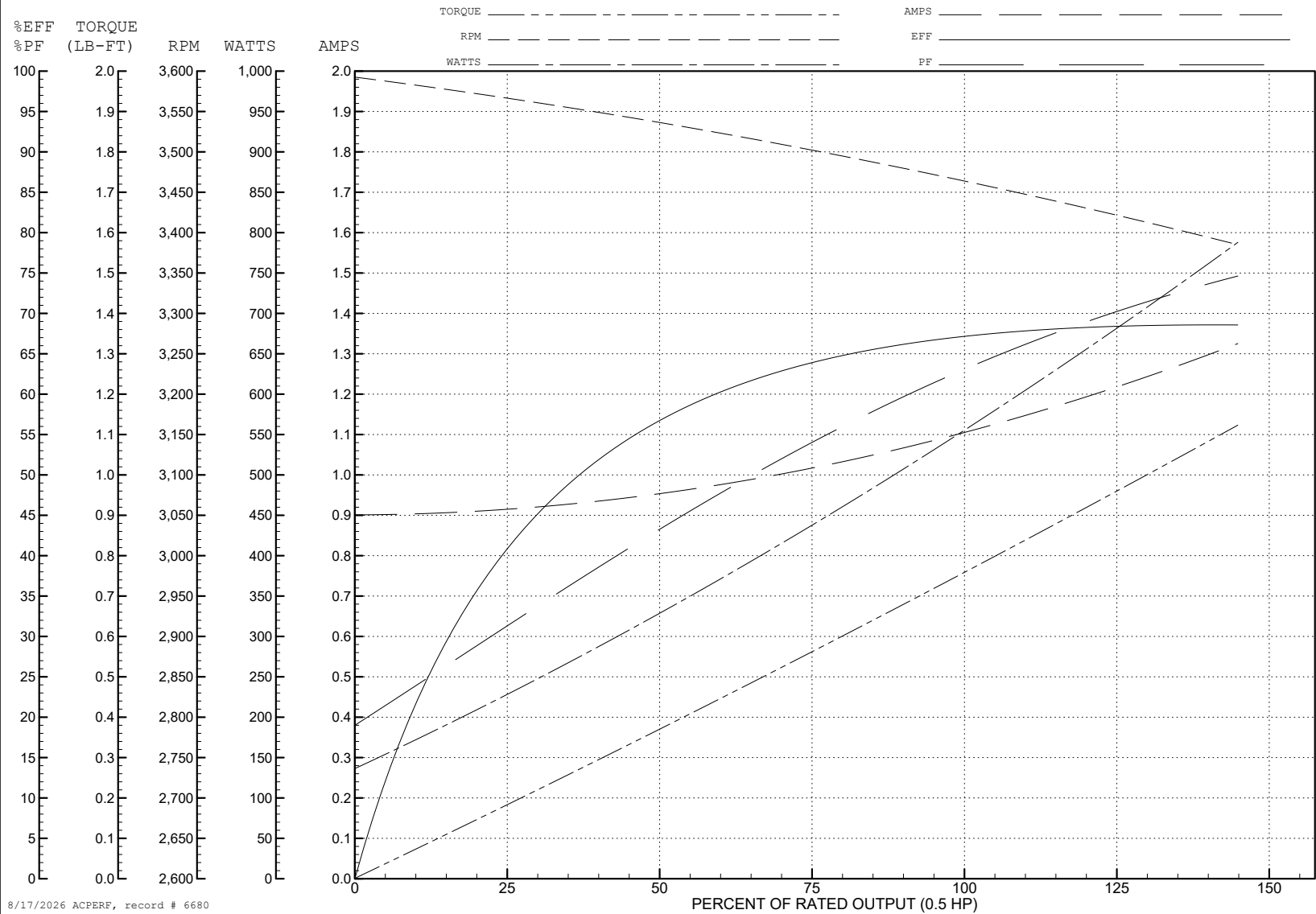
ABB Motors and Mechanical Inc.

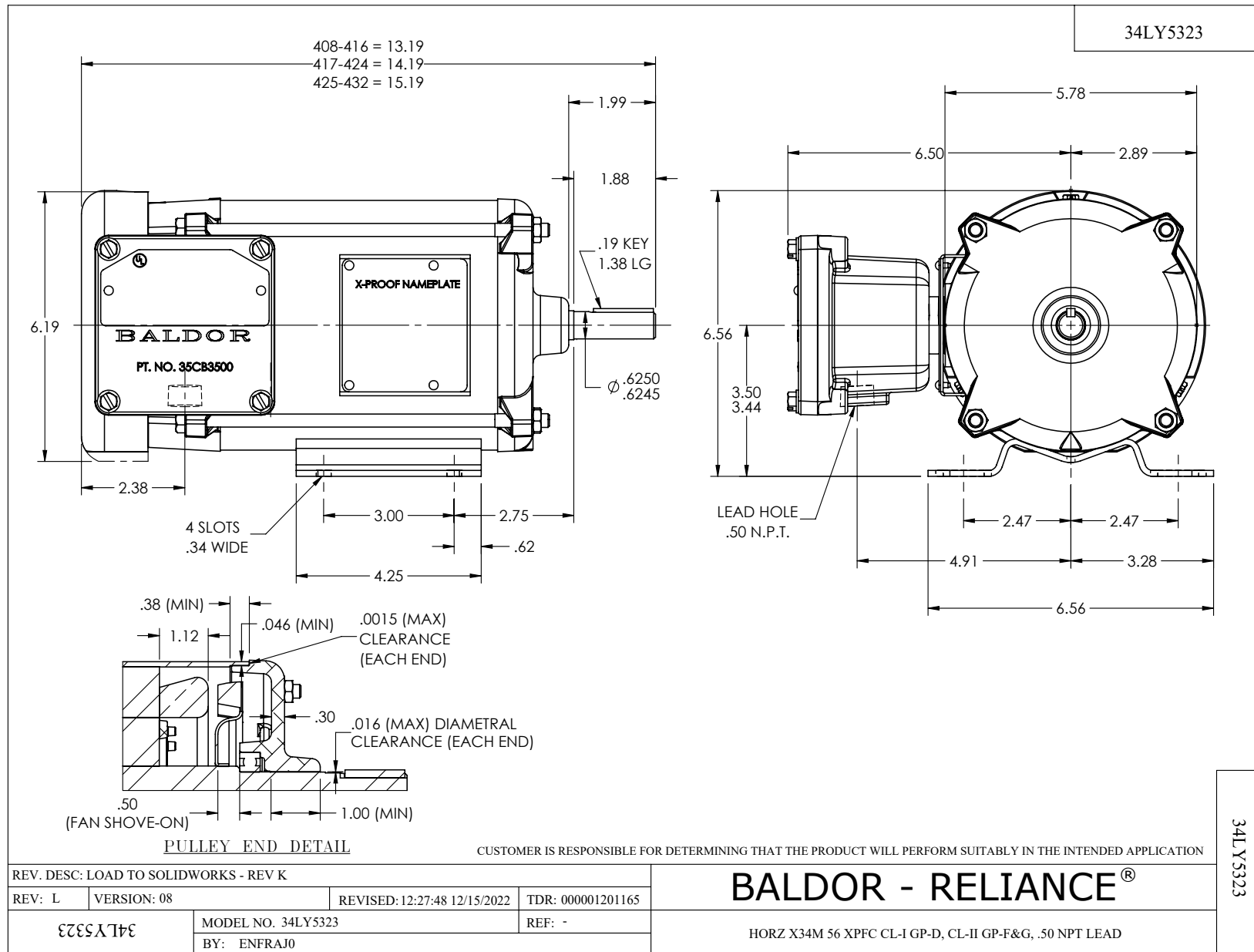
WINDING # 34WG3302

Typical performance - not guaranteed values.

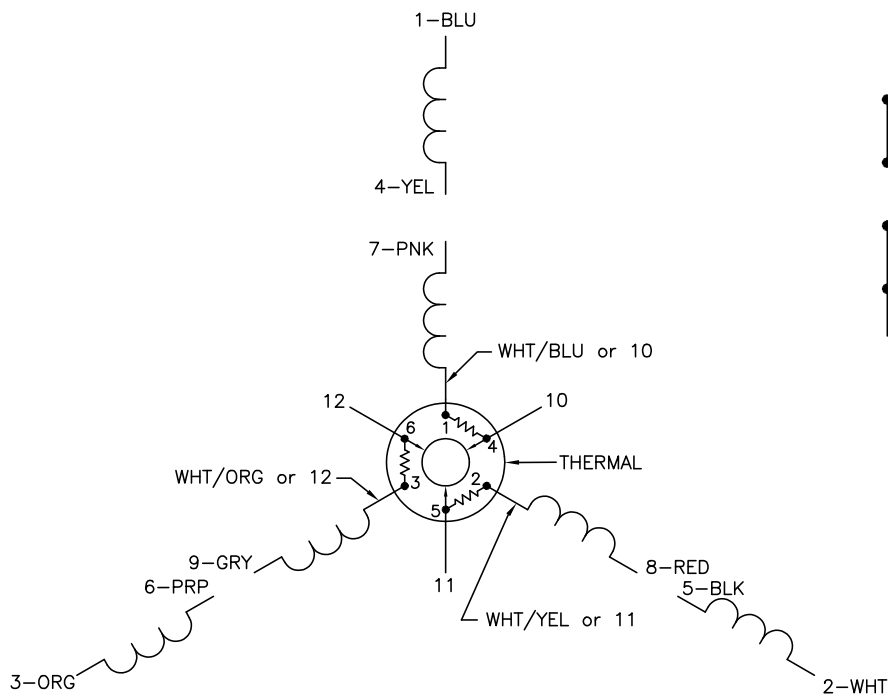
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

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

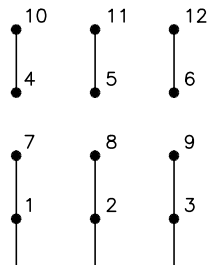




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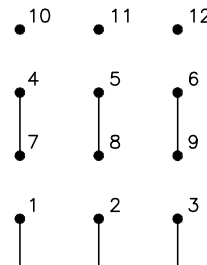


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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
200000		FILE: AAA00008370	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS