

ABB BALDOR RELIANCE III

Customer information packet

CXM050522A

0.5HP, 3450RPM, 3PH, 60HZ, 56C, 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	CL I GP D; CL II 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	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
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WG3302
Layout	34LY5329
Eff. date	05-01-2024
CD Diagram	CD0007
Poles	02
Leads	12#18
Proprietary	False
Created date	08-03-2020

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	34-0000-0381								
CAT.NO.	CXM050522A								
H.P.	.5		T. CODE	T3C					
VOLTS	208-230/460 34WG3302								
AMPS	2.4-2.2/1.1								
R.P.M.	3450 34WG3302								
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								

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	Starting Current		6 A
Service Factor (S.F.)		1		No-load Current		0.9 A
NEMA Nom. Eff.		68	Power Factor	Line-line Res. @ 25°C		35.1 Ω
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

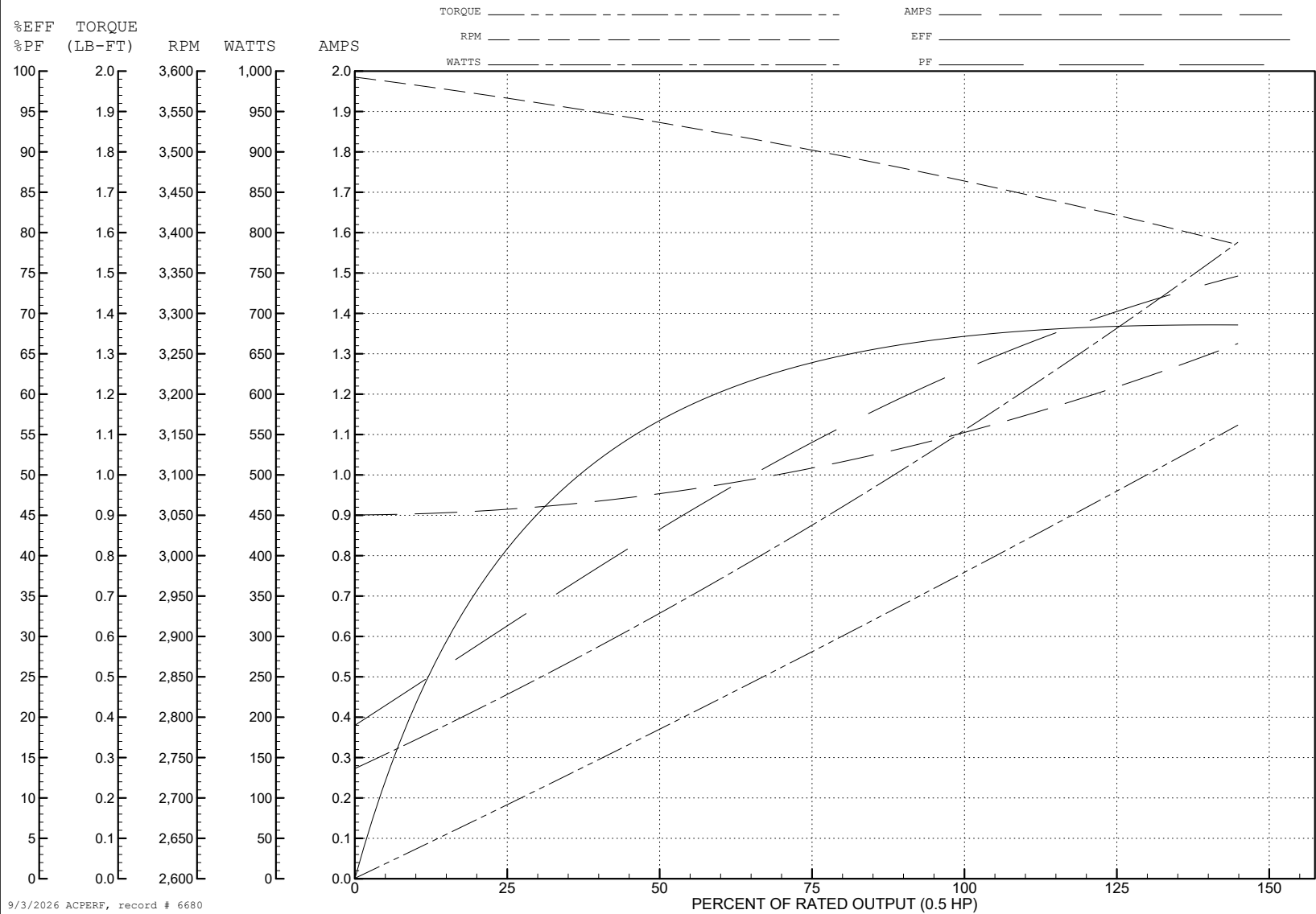
ABB Motors and Mechanical Inc.

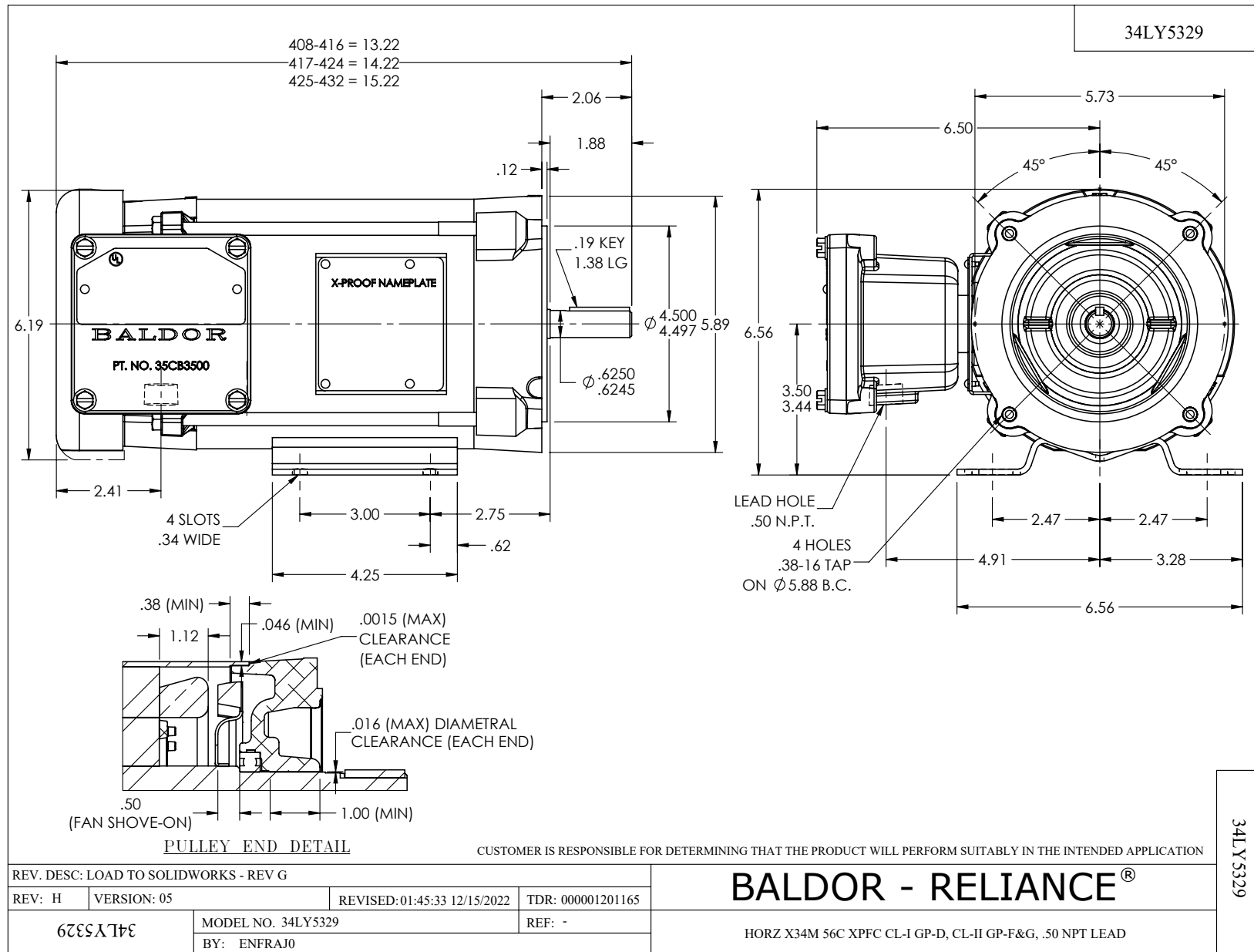
WINDING # 34WG3302

Typical performance - not guaranteed values.

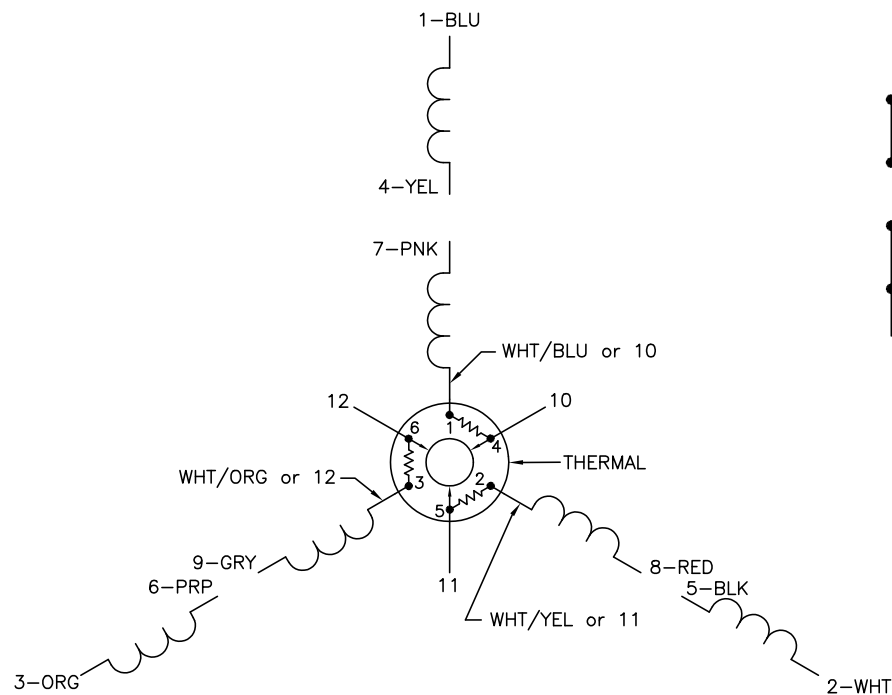
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

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

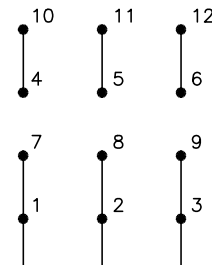




CD0007

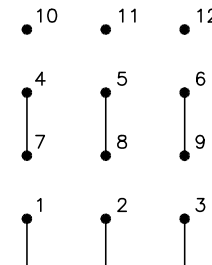


LOW VOLTAGE
(2Y)



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.

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

CD0007