

ABB BALDOR RELIANCE III

Customer information packet

CXM050542-57

.5HP, 1425RPM, 3PH, 50HZ, 56C, 3420M, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	50.00 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 @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 400.0 V @ 50 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	1.000 A @ 400.0 V 1.700 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WGX268
Layout	34LY5329
Eff. date	02-22-2024
CD Diagram	CD0022
Poles	04
Leads	6#18
Proprietary	False
Created date	03-30-2021

Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.22 IN
Power Factor	67
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1425 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSL									
NO.		CC							
SER.									
SPEC.	34-0000-0409								
CAT.NO.	CXM050542-57								
HP	.5	T. CODE	T3C						
VOLTS	230/400								
AMPS	1.7/1								
RPM	1425								
HZ	50	PH	3	CL	F				
SER.F.	1.15	DES	B	CODE	K				
RATING	40C AMB-CONT								
FRAME	56C	NEMA-NOM-EFF							73
	PF	67							
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 61361

Typical performance - not guaranteed values

Winding: 34WGX268-R003			Type: 3420M		Enclosure: TEFC		
Nameplate Data			400 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		.5	Full Load Torque		1.8 LB-FT		
Volts		230/400	Start Configuration		direct on line		
Full Load Amps		1.7/1	Breakdown Torque		6.97 LB-FT		
R.P.M.		1425	Pull-up Torque		5.9 LB-FT		
Hz	50	Phase	3	Locked-rotor Torque		6.96 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		6.31 A
Service Factor (S.F.)		1.25	No-load Current		0.704 A		
NEMA Nom. Eff.		73	Power Factor	67	Line-line Res. @ 25°C		27.1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps		2/1.2	Temp. Rise @ S.F. Load		55°C		
			Locked-rotor Power Factor		64		
			Rotor inertia		0.0476 LB-FT2		

Load Characteristics 400 V, 50 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	50	62	69	77	80	77
Efficiency	52.4	66.3	71.8	73.3	73.9	73.1	73.9
Speed	1479	1465	1448	1418	1406	1374	1406
Line amperes	0.749	0.819	0.901	1.04	1.15	1.31	1.15

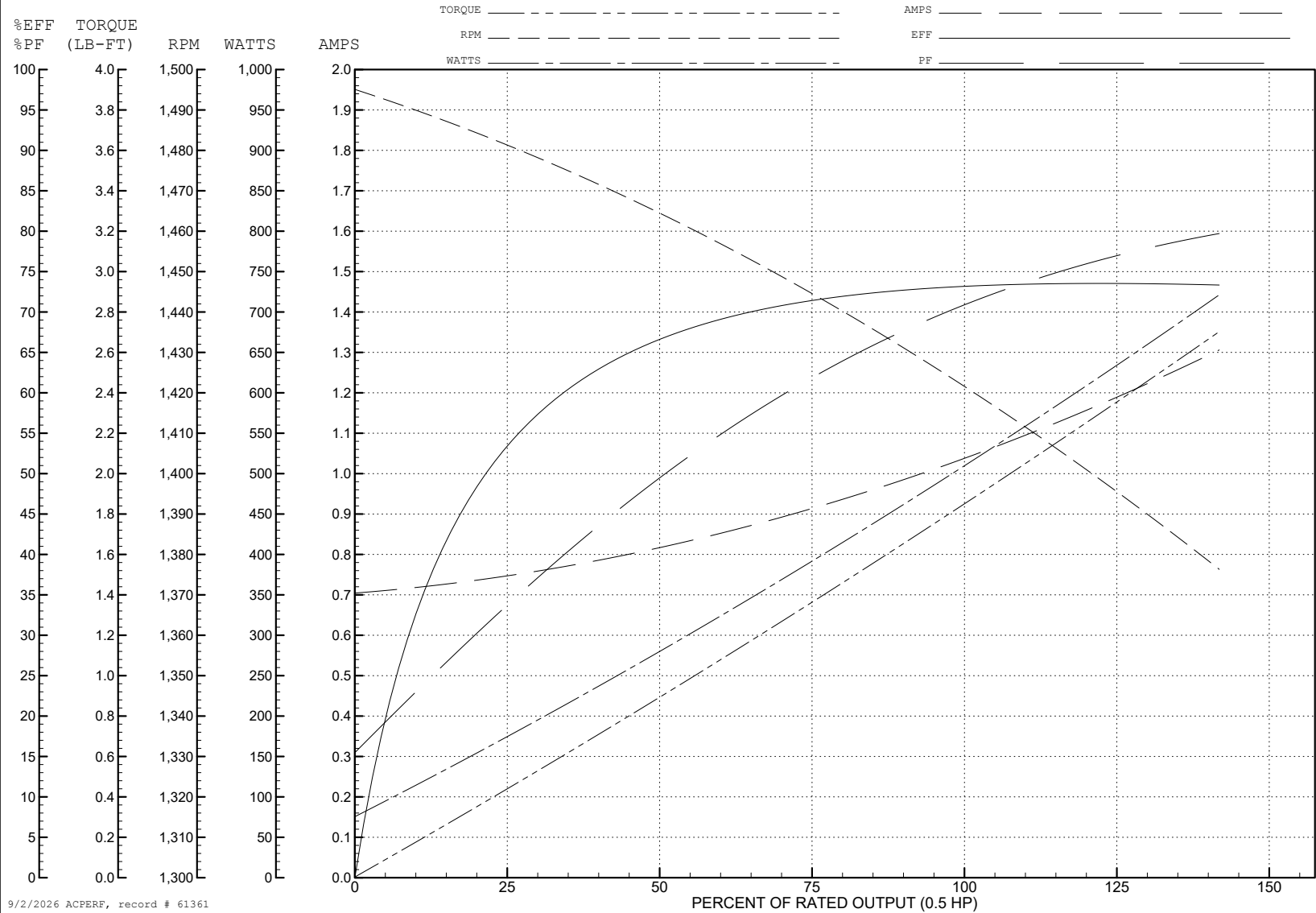
ABB Motors and Mechanical Inc.

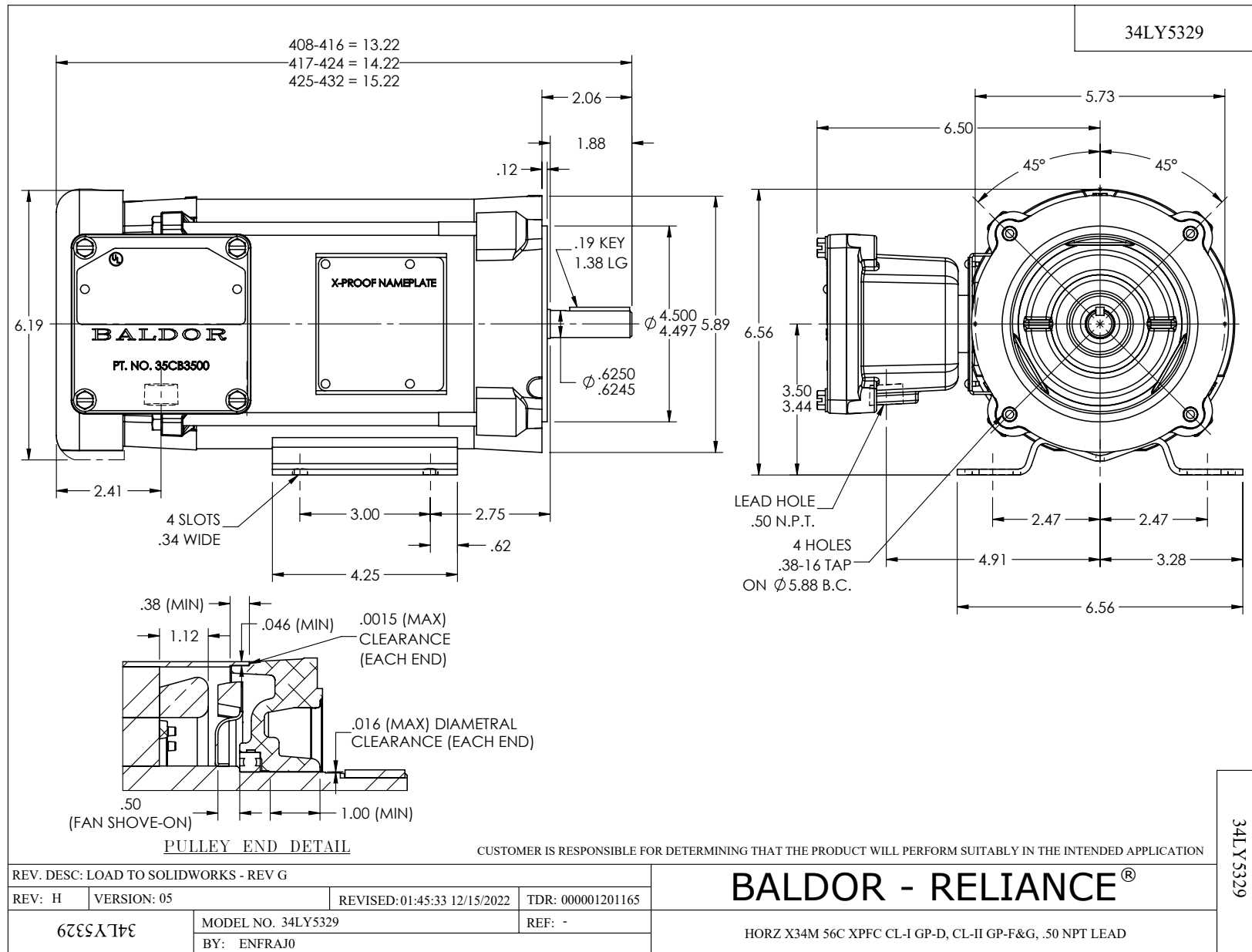
WINDING # 34WGX268

Typical performance - not guaranteed values.

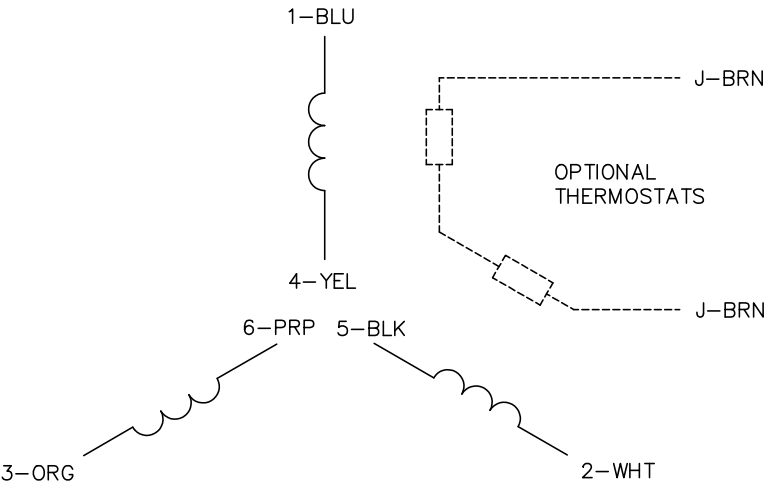
0.5 HP 3 PH 50 HZ 1425 RPM 400 V 3420M

TORQUES (LB-FT) : PO=6.97 PU=5.9 LR=6.96 LRA=6.31

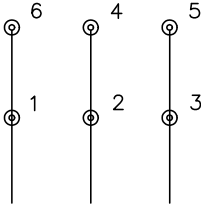




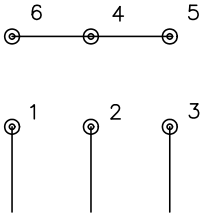
CD0022



LOW VOLTAGE
(1D)



HIGH VOLTAGE
(1Y)



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: F

BY: JLP

REVISED: 01/21/99 3:54

TDR: 0171435

CD0022

FILE: AAA00005144

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022