Customer information packet

CXM050542-57

.5HP, 1425RPM, 3PH, 50HZ, 56C, 3420M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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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. @ 25ºC**	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

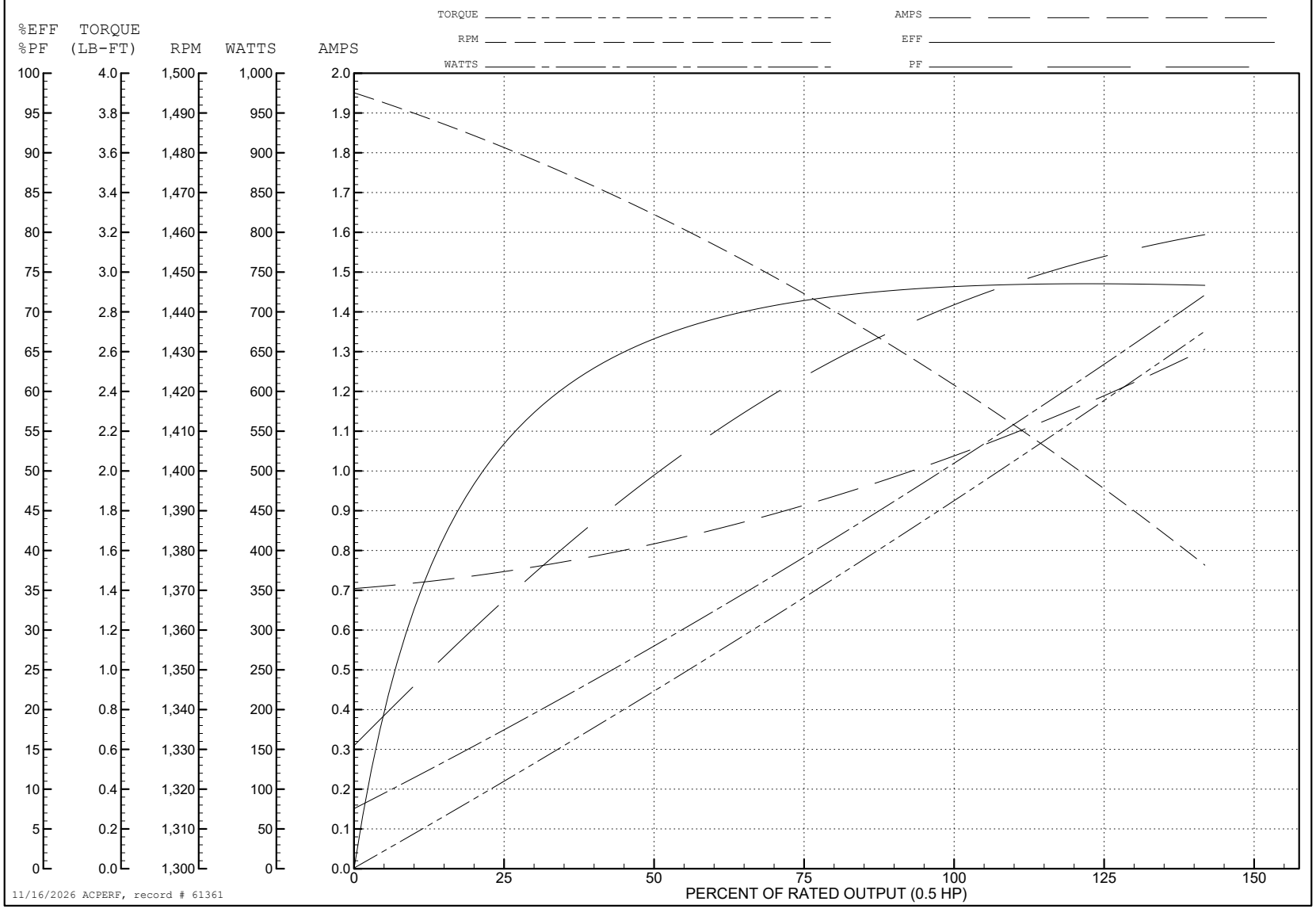
ABB Motors and Mechanical Inc.

WINDING # 34WGX268

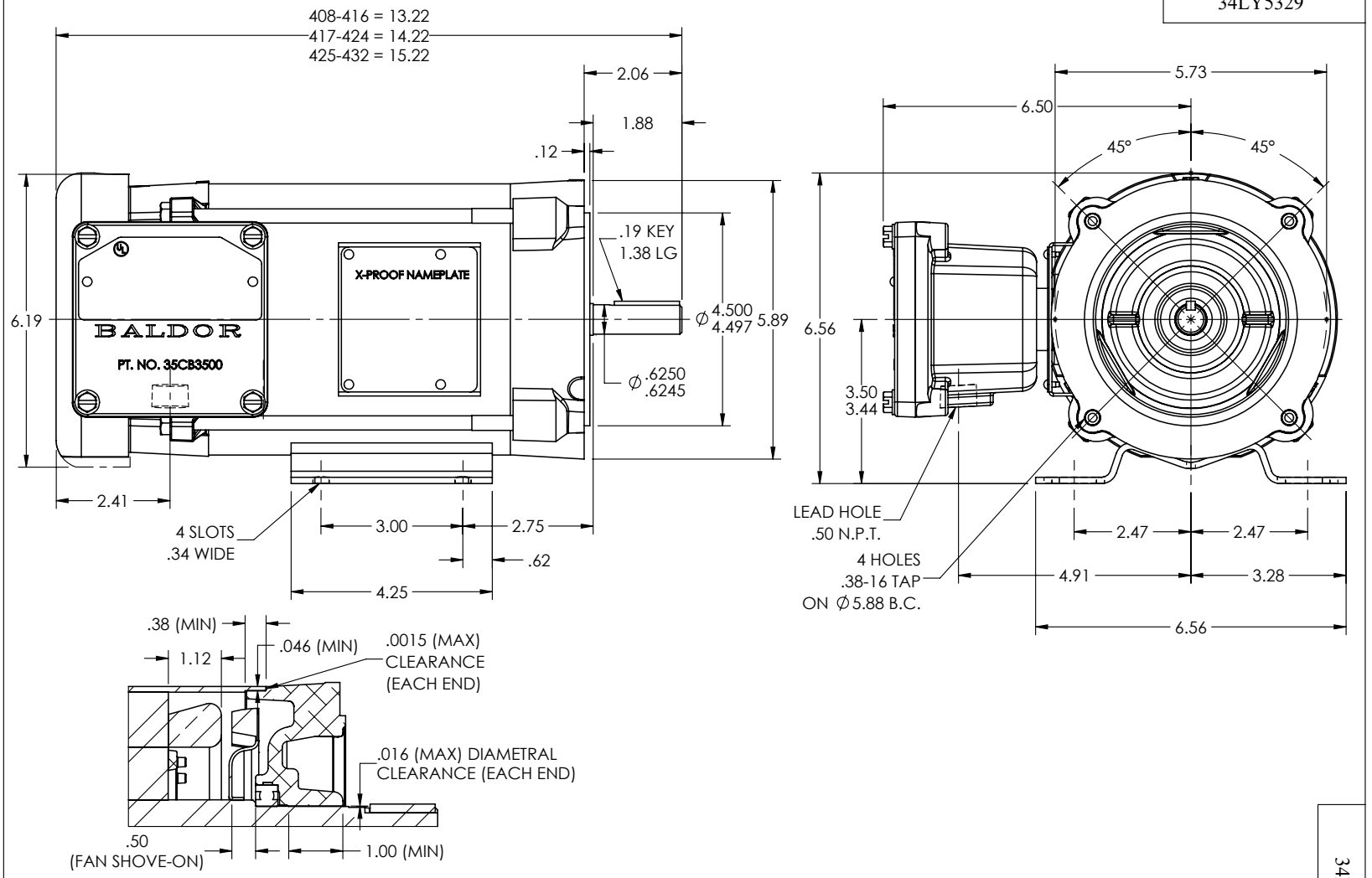
0.5 HP 3 PH 50 HZ 1425 RPM 400 V 3420M

Typical performance - not guaranteed values.

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



34LY5329



PULLEY END DETAIL

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

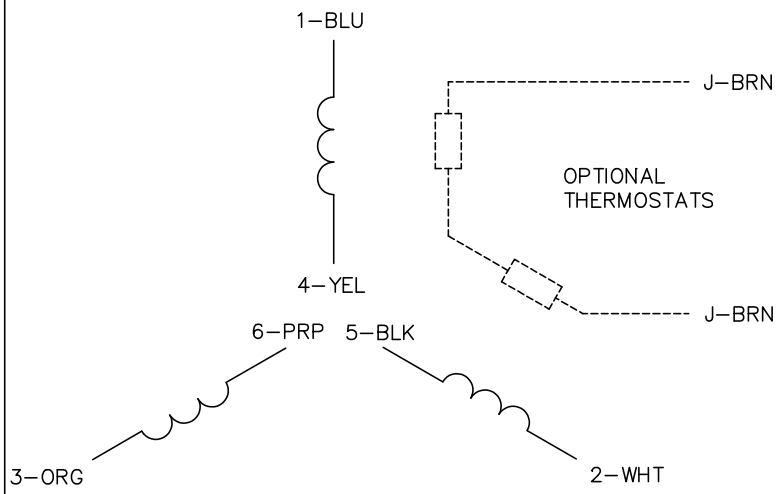
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REV: H	VERSION: 05	REVISED: 01:45:33 12/15/2022	TDR: 000001201165
34LY5329	MODEL NO. 34LY5329		REF: -
	BY: ENFRAJ0		

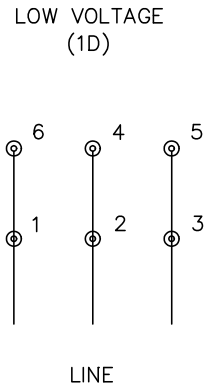
BALDOR - RELIANCE®

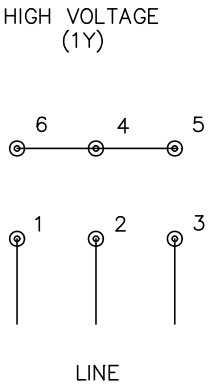
HORZ X34M 56C XPFC CL-I GP-D, CL-II GP-F&G, .50 NPT LEAD

34LY5329

CD0022







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			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: –
		MTL: –	3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022