ABB BALDOR RELIANCE

Customer information packet

VXL050242A

.25HP, 1725RPM, 1PH, 60HZ, 56C, 3414L, 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	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.250 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
	208.0 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	2.000 A @ 208.0 V
	2.100 A @ 230.0 V
	4.200 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
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.	34WGY855
Layout	34LY5335
Eff. date	09-12-2024
CD Diagram	CD0565
Poles	04
Leads	7#18
Proprietary	False
Created date	04-16-2021

High Voltage Full Load Amps	2.0 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	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.22 IN
Power Factor	64
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	1725 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	34-0000-0404						
CAT.NO.	VXL050242A						
H.P.	.25		**T. CODE**	T3C			
VOLTS	115/208-230						
AMPS	4.2/2-2.1						
R.P.M.	1725						
HZ	60	**PH**	1		**CLASS**	B	
SER.F.	1.00		**DES**	N	**CODE**	L	
RATING	40C AMB-CONT						
FRAME	56C				**NEMA NOM. EFF**	62	
		PF	64				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 36349
Typical performance - not guaranteed values

Winding: 34WGY855-R006	**Type:** 3414L	**Enclosure:** XPFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.25	**Full Load Torque**	0.762 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			4.2/2-2.1	**Breakdown Torque**	2.38 LB-FT
R.P.M.			1725	**Pull-up Torque**	1.68 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	2.83 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	10.8 A
Service Factor (S.F.)			1	**No-load Current**	1.67 A
NEMA Nom. Eff.	62	**Power Factor**	64	**Line-line Res. @ 25ºC**	9.23 Ω A Ph 8.97 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	47	54	64	69	72
Efficiency	35.2	50	60.6	61.8	65.7	71.6
Speed	1780	1767	1753	1738	1722	1711
Line amperes	1.69	1.78	1.88	2.07	2.23	2.35

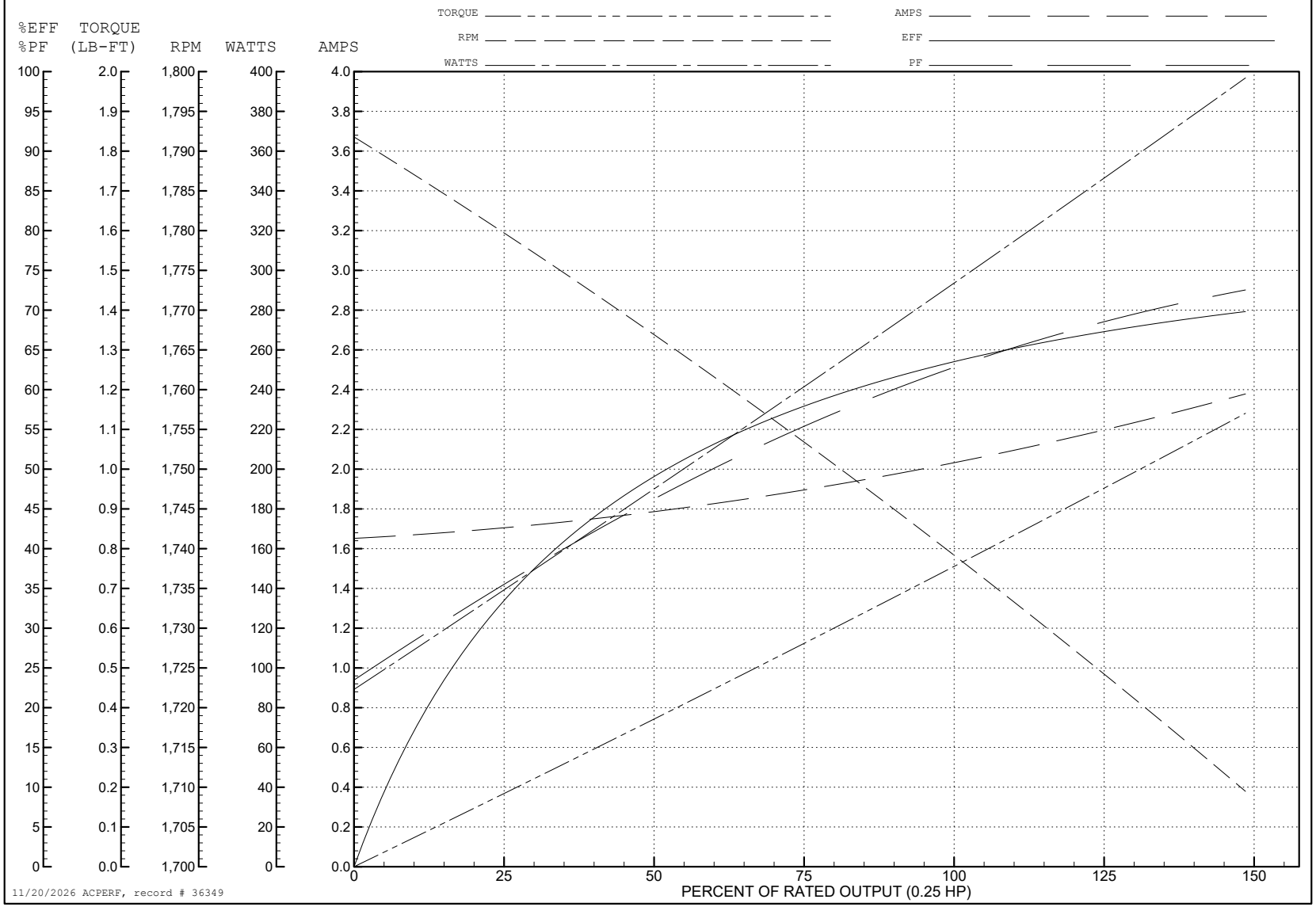
ABB Motors and Mechanical Inc.

WINDING # 34WGY855

0.25 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=2.38 PU=1.68 LR=2.83 LRA=10.8



11/20/2026 ACPERF, record # 36349

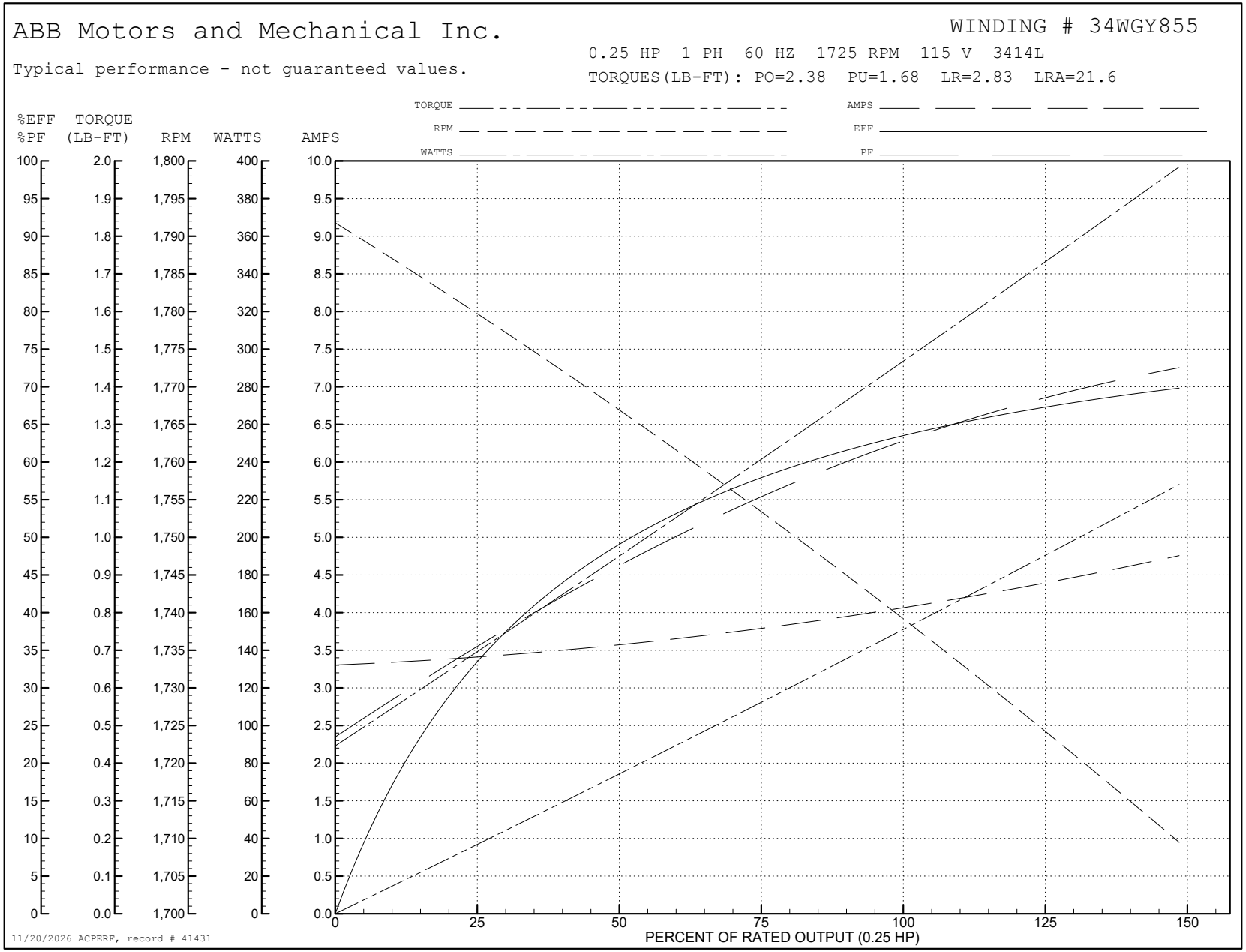
AC Induction Motor Performance Data
Record # 41431
Typical performance - not guaranteed values

Winding: 34WGY855-R006	**Type:** 3414L	**Enclosure:** XPFC

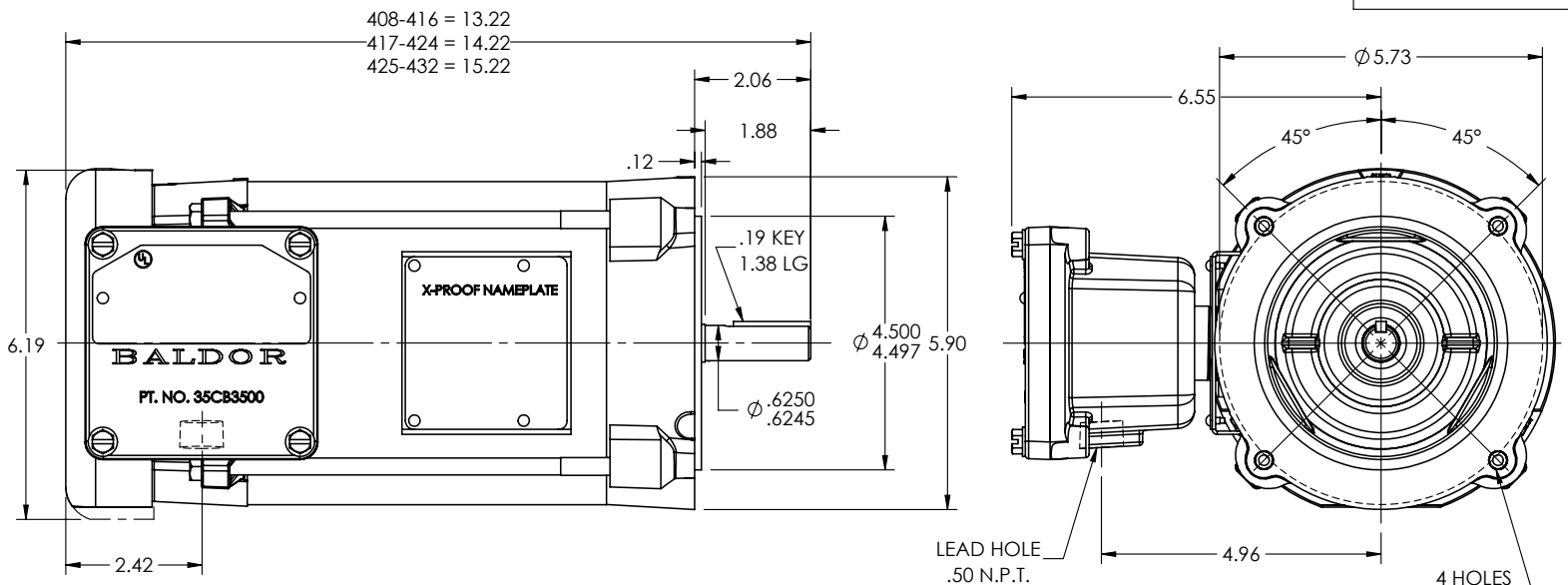
Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.25	**Full Load Torque**	0.762 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			4.2/2-2.1	**Breakdown Torque**	2.38 LB-FT
R.P.M.			1725	**Pull-up Torque**	1.68 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	2.83 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	21.6 A
Service Factor (S.F.)			1	**No-load Current**	3.34 A
NEMA Nom. Eff.	62	**Power Factor**	64	**Line-line Res. @ 25ºC**	2.22 Ω A Ph 8.87 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

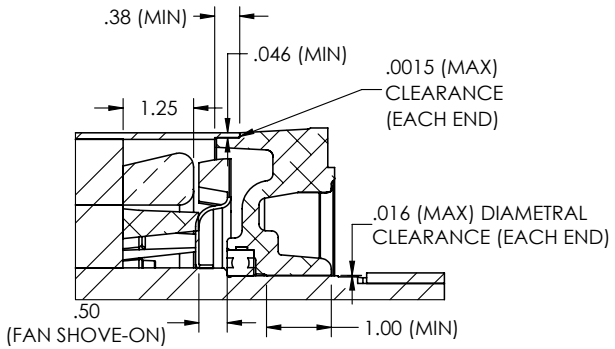
Load Characteristics 115 V, 60 Hz, 0.25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	47	55	64	69	72
Efficiency	35.2	50	60.6	61.9	65.6	71.2
Speed	1780	1767	1753	1738	1722	1711
Line amperes	3.38	3.56	3.76	4.14	4.46	4.7


ABB Motors and Mechanical Inc.
WINDING # 34WGY855
Typical performance - not guaranteed values.
0.25 HP 1 PH 60 HZ 1725 RPM 115 V 3414L
TORQUES(LB-FT): PO=2.38 PU=1.68 LR=2.83 LRA=21.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0
1,800 1,795 1,790 1,785 1,780 1,775 1,770 1,765 1,760 1,755 1,750 1,745 1,740 1,735 1,730 1,725 1,720 1,715 1,710 1,705 1,700
400 380 360 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.25 HP)
11/20/2026 ACPERF, record # 41431

34LY5335





PULLEY END DETAIL

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

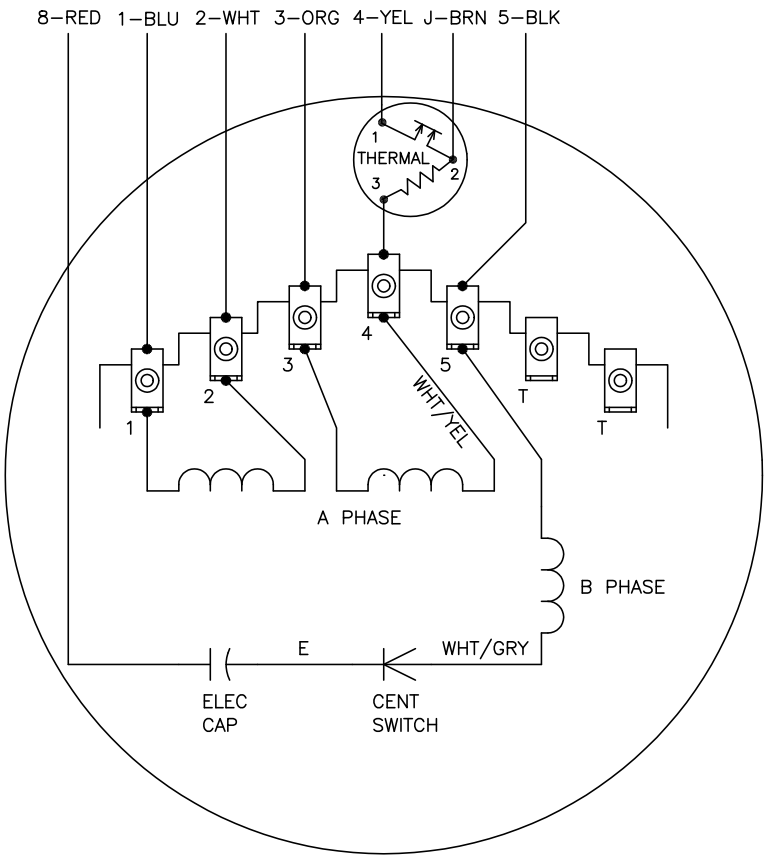
REV. DESC: LOAD TO SOLIDWORKS - REV L			
REV: M	VERSION: 09	REVISED: 03:40:28 03/17/2023	TDR: 000001201165
34LY5335	MODEL NO. 34LY5335		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

VERT X34L 56C XPFC CL-I GP-D, CL-II GP-F&G, .50 NPT LEAD

34LY5335

CD0565

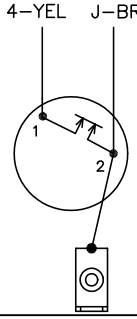


	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J.8
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CONNECTIONS FOR TWO–TERMINAL THERMAL



CD0565

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 04/08/99 3:25	TDR: 0178636
CD0565		FILE: AAA00014311	MDL: –
		MTL: –	

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LD, 34XP