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Product Information Packet

CL3513

1.5HP,3450RPM,1PH,60HZ,56C,3528L,TEFC,F1

Part Detail

Revision:	AF	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WG0199	**CD Diagram:**	CD0001	**Mfg Plant:**	
Mech. Spec:	35T946	**Layout:**	35LYT946	**Poles:**	02	**Created Date:**	06-22-2007
Base:	RG	**Eff. Date:**	03-23-2017	**Leads:**	4#16 A PH,2#18 B PH		

Specs

Catalog Number:	CL3513	**Insulation Class:**	F
Enclosure:	TEFC	**Inverter Code:**	Not Inverter
Frame:	56C	**KVA Code:**	H
Frame Material:	Steel	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	1.500 HP @ 60 HZ	**Locked Bearing Indicator:**	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	**Motor Lead Quantity/Wire Size:**	4 @ 16 AWG, A PH
Voltage @ Frequency:	230.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
	115.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3528L
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	CSA	**Power Factor:**	82
	UR	**Product Family:**	General Purpose
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Ball
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	C-Face
Base Indicator:	Rigid	**Pulley Shaft Indicator:**	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Rodent Screen:**	None
Blower:	None	**RoHS Status:**	ROHS COMPLIANT
Current @ Voltage:	15.000 A @ 115.0 V	**Shaft Extension Location:**	Pulley End

	7.500 A @ 230.0 V
	7.900 A @ 208.0 V
Design Code:	L
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None
Heater Indicator:	No Heater

Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
Starting Method:	Direct on line
Thermal Device - Bearing:	None
Thermal Device - Winding:	None
Vibration Sensor Indicator:	No Vibration Sensor
Winding Thermal 1:	None
Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.	CL3513								
SPEC.	35T946-0199								
HP	1.5								
VOLTS	115/230								
AMP	15/7.5								
RPM	3450								
FRAME	56C		**HZ**	60			**PH**	1	
SER.F.	1.15	**CODE**	H	**DES**	L		**CLASS**	F	
NEMA-NOM-EFF	70	**PF**	82						
RATING	40C AMB-CONT								
CC						**USABLE AT 208V**	7.9		
DE	6205			**ODE**	6203				
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data

Record # 20308 - Typical performance - not guaranteed values

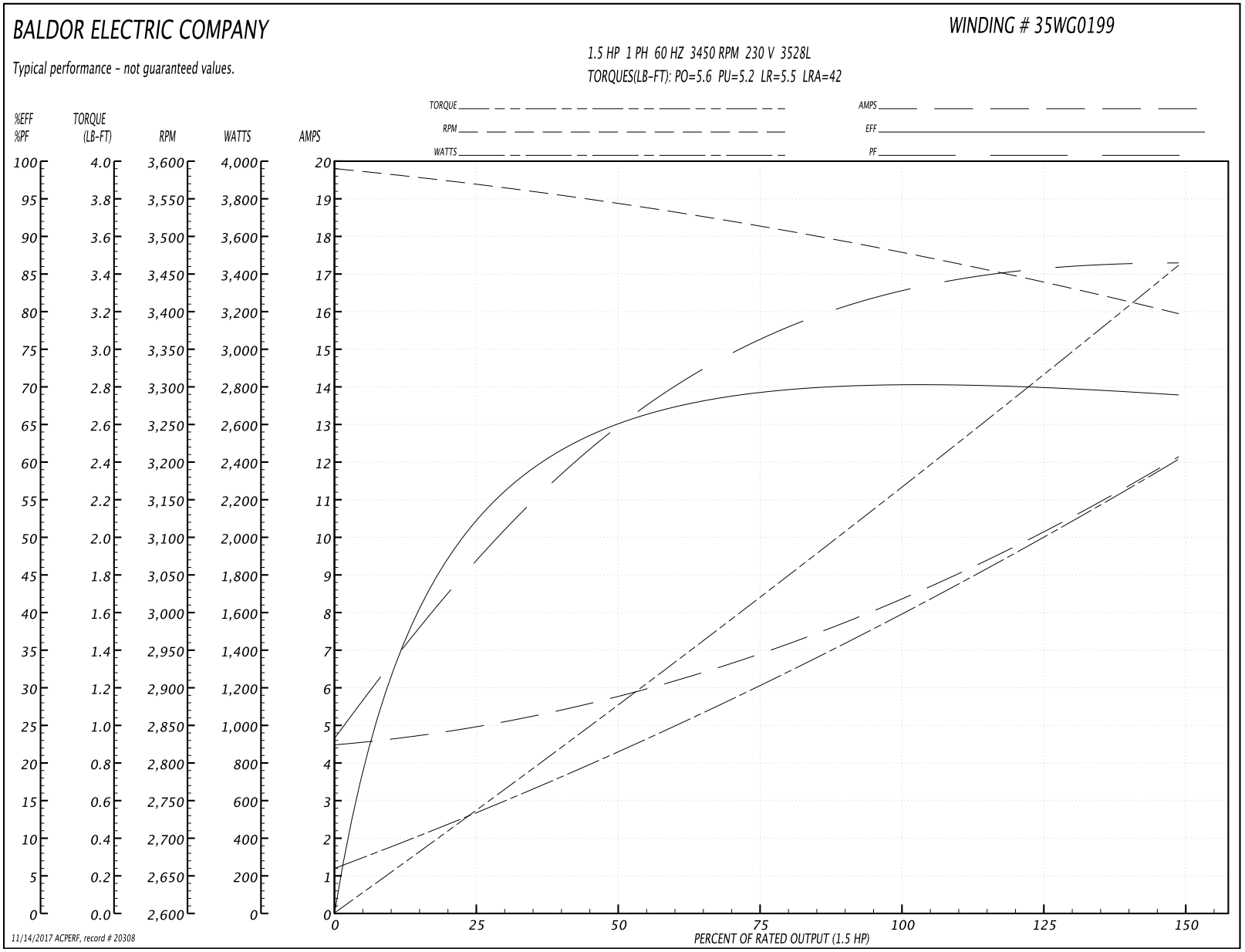
Winding: 35WG0199-R001	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.3 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	15/7.5			Breakdown Torque	5.6 LB-FT
R.P.M.	3450			Pull-up Torque	5.2 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	5.5 LB-FT
NEMA Design Code	L	KVA Code	H	Starting Current	42 A
Service Factor (S.F.)	1.15			No-load Current	4.5 A
NEMA Nom. Eff.	70	Power Factor	82	Line-line Res. @ 25ºC	1.26 Ω A Ph 1.23 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	70°C
S.F. Amps				Temp. Rise @ S.F. Load	84°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	64	73	80	84	86	82
Efficiency	51.9	65.3	68.4	71.2	70.6	68.4	70.8
Speed	3567	3541	3514	3475	3439	3397	3453
Line amperes	5	5.8	6.9	8.6	10.2	12.1	9.6

Performance Graph at 230V, 60Hz, 1.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 53663 - Typical performance - not guaranteed values

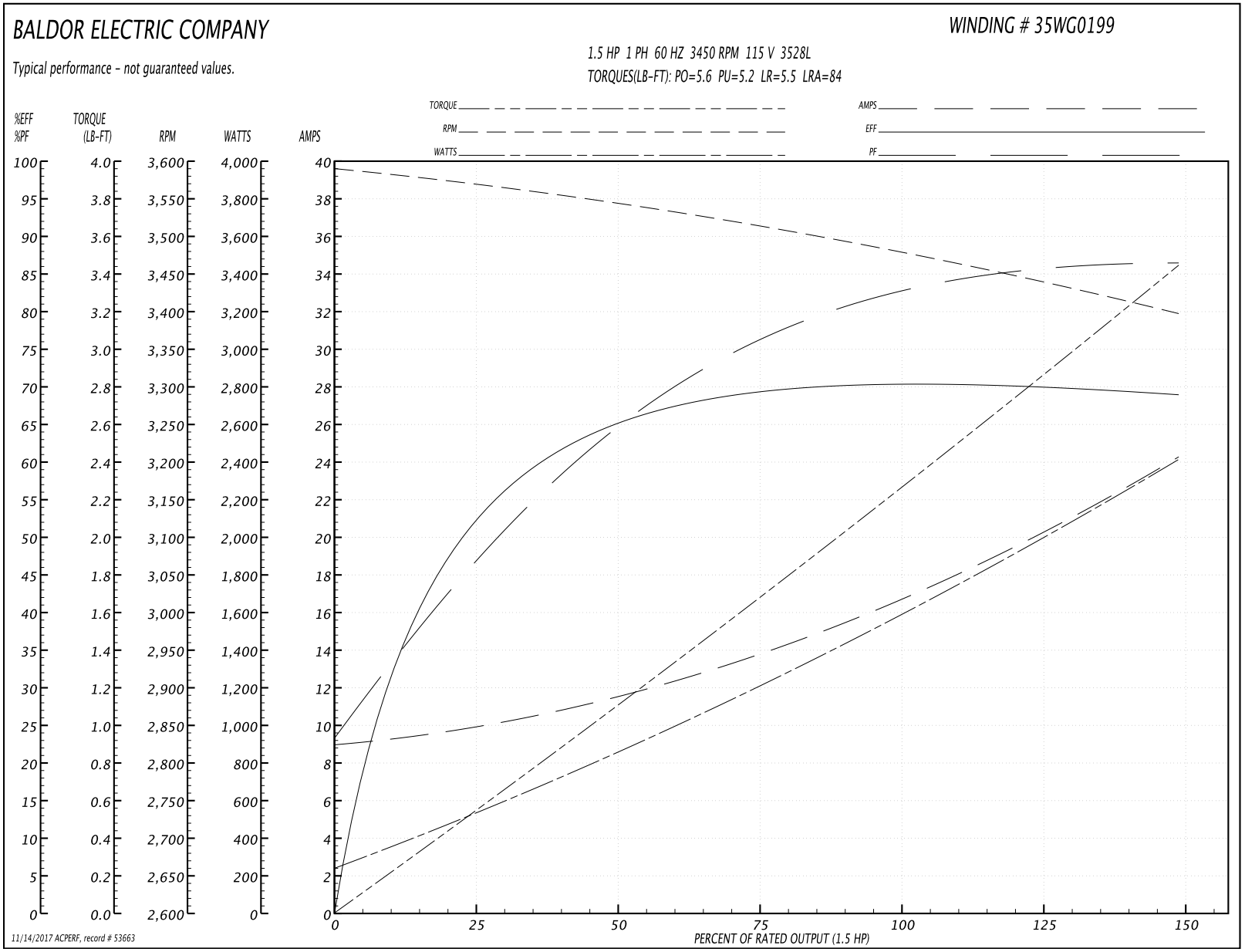
Winding: 35WG0199-R001	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data				115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.3 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	15/7.5			Breakdown Torque	5.6 LB-FT
R.P.M.	3450			Pull-up Torque	5.2 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	5.5 LB-FT
NEMA Design Code	L	KVA Code	H	Starting Current	84 A
Service Factor (S.F.)	1.15			No-load Current	9 A
NEMA Nom. Eff.	70	Power Factor	82	Line-line Res. @ 25ºC	0.333 Ω A Ph 1.24 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	70°C
S.F. Amps				Temp. Rise @ S.F. Load	81°C
				Locked-rotor Power Factor	86.9
				Rotor inertia	0.0774 LB-FT2

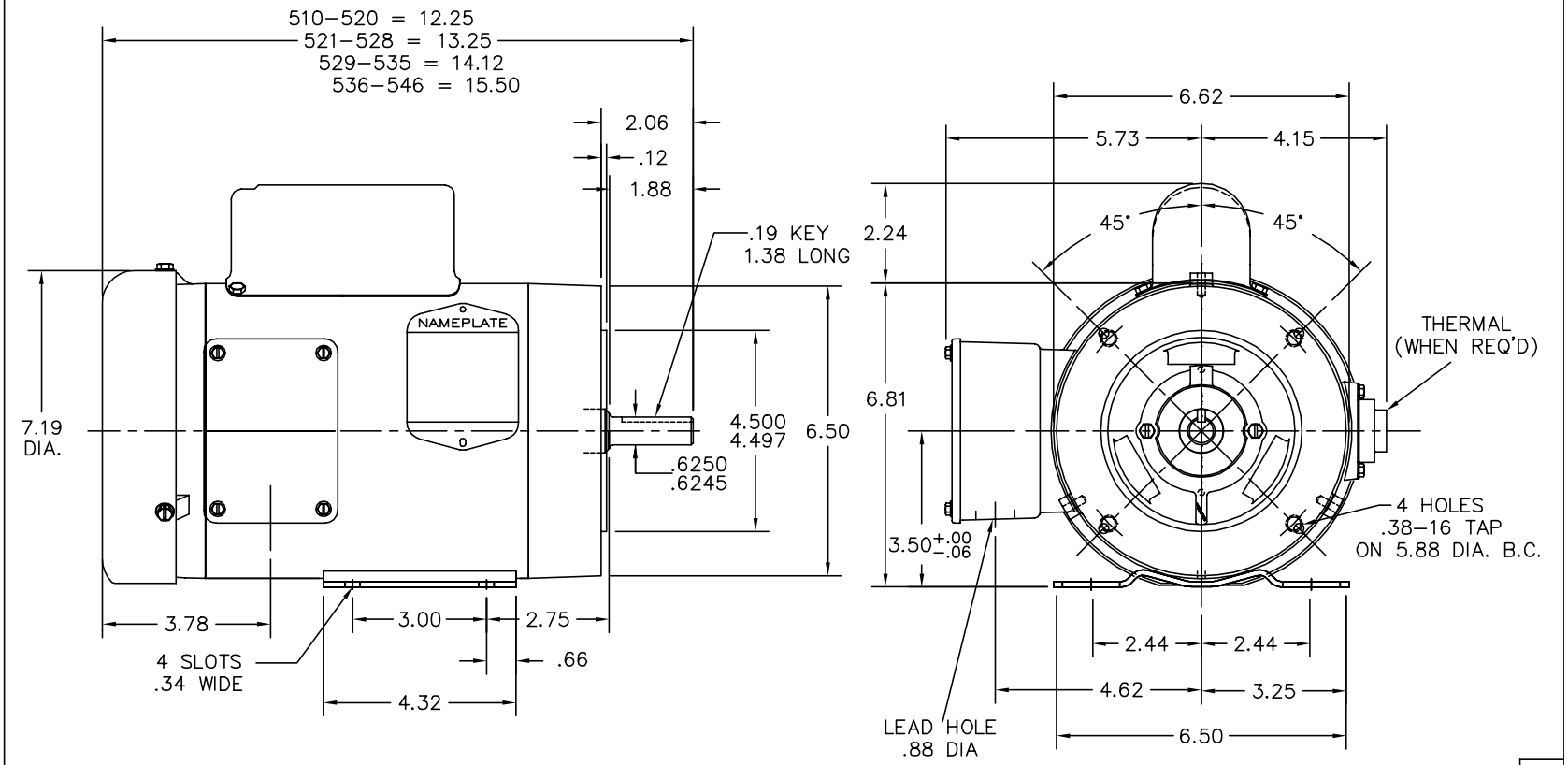
Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	66	79	81	85	87	83
Efficiency	52	65.3	68.6	71.2	70.8	68.4	71
Speed	3567	3541	3514	3475	3439	3397	3453
Line amperes	10	11.6	13.8	17.2	20.4	24.2	19.1

Performance Graph at 115V, 60Hz, 1.5HP Typical performance - Not guaranteed values



35LYT946



35LYT946

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

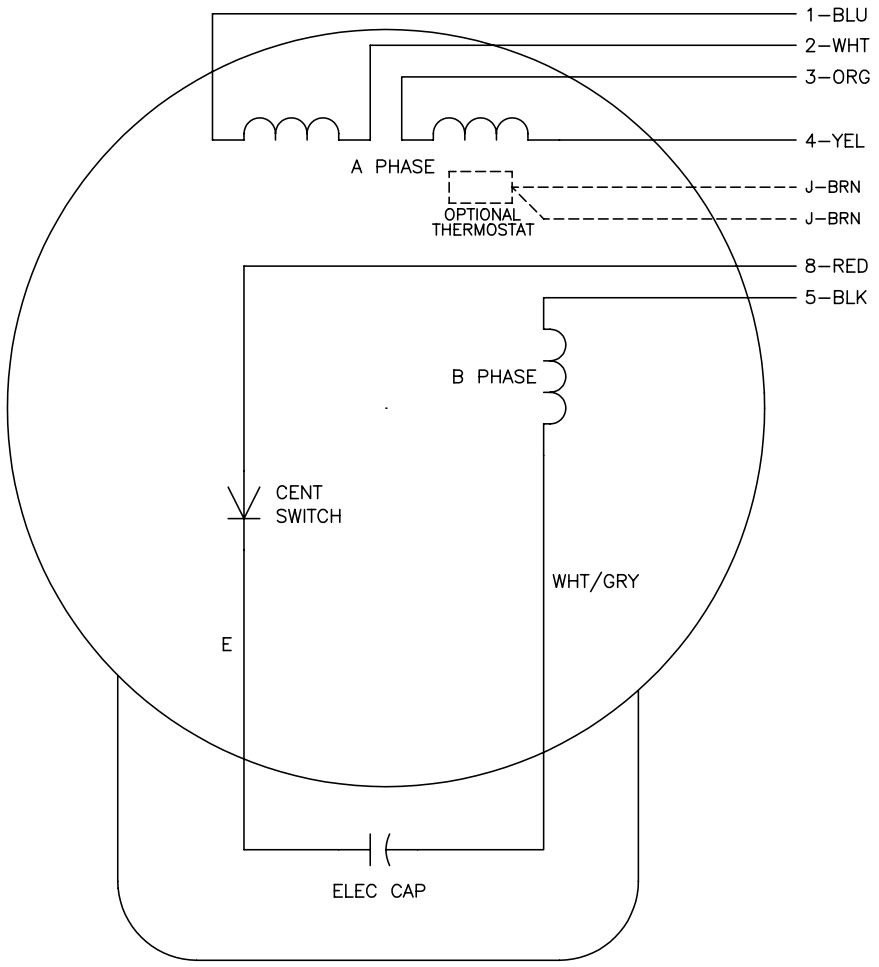
REV. DESC: UPDATE PARTS TO MATCH BOM		
REV. LTR: A	VERSION: 01	TDR: 000001046357
FILE: \AAA\00111\242	REVISED: 02:20:51 10/10/2017	BY: ENERINO
MTL: –		

BALDOR

HORZ 56C TEFC 35L, 2 POLE "W" BASE (35BA4010)

SH 1 of 1

CD0001



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

NOTES:

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

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	

BALDOR ELECTRIC Co.

TYPE L, DV, REV, 6 LEADS

CD0001