

BALDOR® • RELIANCE 

Product Information Packet

L3510-50

1HP,1425RPM,1PH,50HZ,56,3532L,TEFC,F1

Part Detail							
Revision:	AQ	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGY990	CD Diagram:	CD0001	Mfg Plant:	
Mech. Spec:	35C011	Layout:	35LYC011	Poles:	04	Created Date:	
Base:	RG	Eff. Date:	03-07-2018	Leads:	4#16 A PH,2#18 B PH		

Specs			
Catalog Number:	L3510-50	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	56	KVA Code:	J
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	1.000 HP @ 50 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1500 RPM @ 50 HZ	Motor Lead Quantity/Wire Size:	4 @ 16 AWG, A PH
Voltage @ Frequency:	220.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	110.0 V @ 50 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3532L
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	82
	WEEE	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
	CE	Pulley Face Code:	Standard
Auxillary Box:	No Auxillary Box	Pulley Shaft Indicator:	Standard
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	Rigid	RoHS Status:	ROHS COMPLIANT
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End

Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	12.400 A @ 110.0 V	Shaft Rotation:	Reversible
	6.200 A @ 220.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	L	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	NONE (OLD)
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1372L											
CAT.NO.	L3510-50										
SPEC.	35C11Y990										
HP	1										
VOLTS	110/220										
AMP	12.4/6.2										
RPM	1425										
FRAME	56					HZ	50		PH	1	
SER.F.	1.15					CODE	J	DES	L	CL	F
NEMA-NOM-EFF	68					PF	82				
RATING	40C AMB-CONT										
CC									USABLE AT 208V		
DE	6205					ODE	6203				
ENCL	TEFC					SN					
	IP54										

Parts List		
Part Number	Description	Quantity
SA022550	SA 35C11Y990	1.000 EA
RA018600	RA 35C11Y990	1.000 EA
EC1540A06SP	ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 EA
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3123A00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
SP5051A24	MODEL 35 TORQ STATIONARY SWITCH FOR "L"	1.000 EA
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 EA
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 EA
HA3100A22	THRUBOLT 10-32 X 10.125	4.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA
LC0001	CONN LABEL TYPE L, 6 LEAD, DUAL VOLTS, R	1.000 EA
NP1372L	ALUM UL CSA CE CC	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 61525 - Typical performance - not guaranteed values

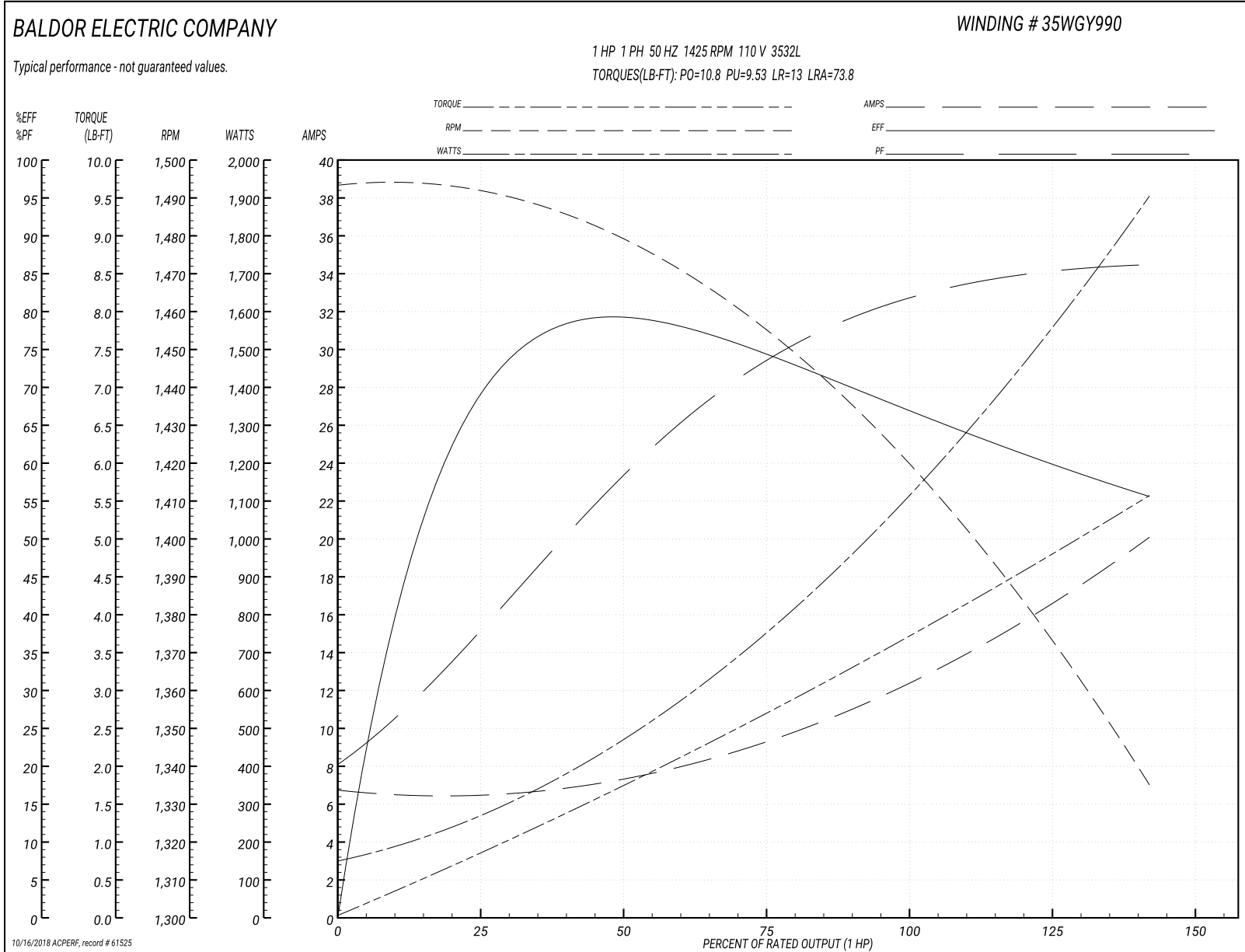
Winding: 35WGY990-R004	Type: 3532L	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				110 V, 50 Hz: Low Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3.69 LB-FT
Volts	110/220			Start Configuration	direct on line
Full Load Amps	12.4/6.2			Breakdown Torque	10.8 LB-FT
R.P.M.	1425			Pull-up Torque	9.53 LB-FT
Hz	50	Phase	1	Locked-rotor Torque	13 LB-FT
NEMA Design Code	L	KVA Code	J	Starting Current	73.8 A
Service Factor (S.F.)	1.15			No-load Current	6.38 A
NEMA Nom. Eff.	68	Power Factor	82	Line-line Res. @ 25°C	0.699 Ω A Ph 1.65 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	62°C
S.F. Amps				Temp. Rise @ S.F. Load	75°C
				Locked-rotor Power Factor	92.9
				Rotor inertia	0.19 LB-FT ²

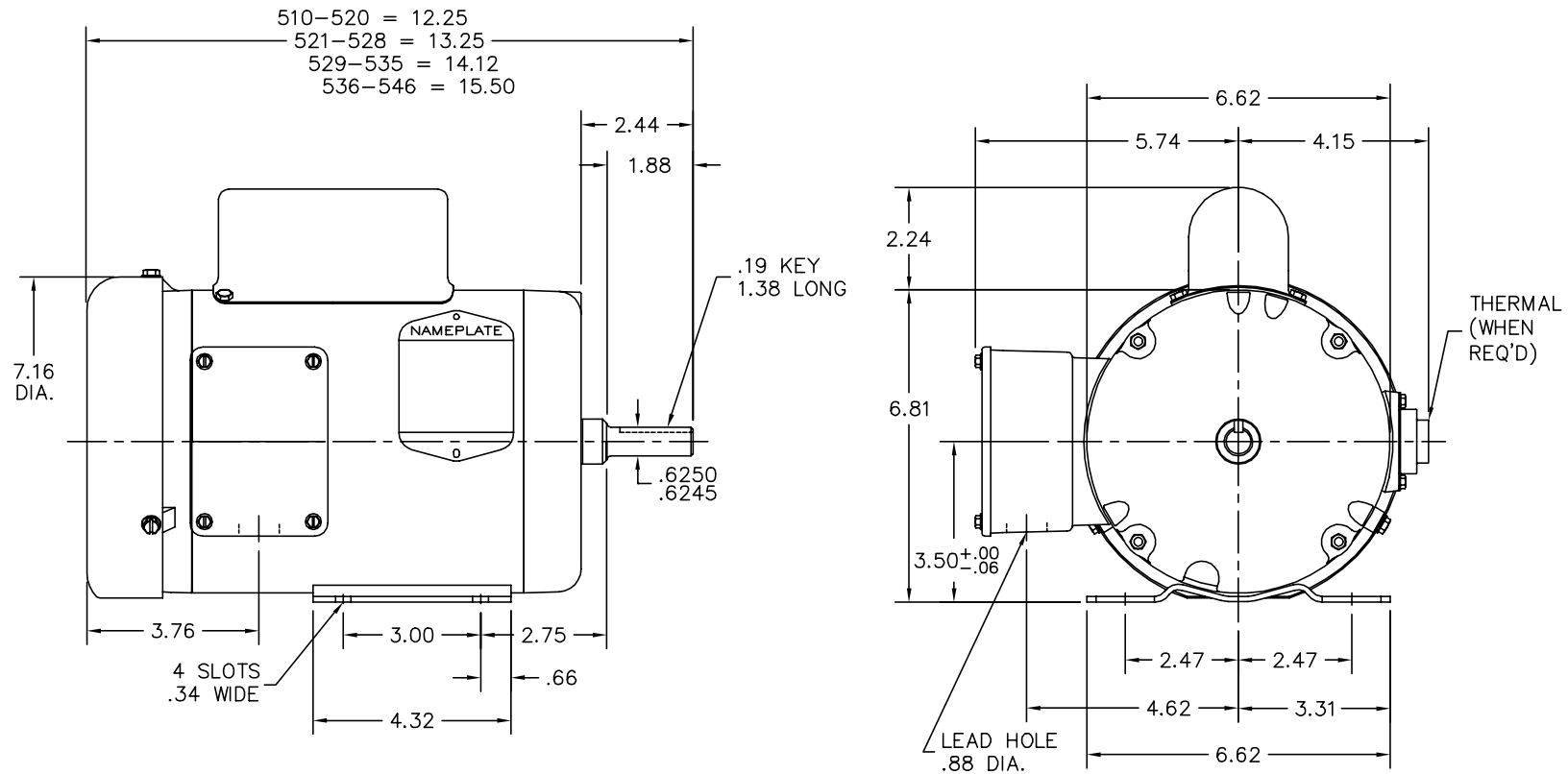
Load Characteristics 110 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	62	74	81	85	86	83
Efficiency	61.2	71.2	72.7	70.4	63.2	53.1	66.1
Speed	1488	1471	1452	1427	1384	1322	1401
Line amperes	6.72	7.84	9.58	11.94	15.88	21	14.3

Performance Graph at 110V, 50Hz, 1.0HP Typical performance - Not guaranteed values



35LYC011



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: N	VERSION: 05	TDR: 000001060775
FILE: \AAA\00002\444	REVISED: 01:41:27 02/16/2018	BY: ENERINO
MTL: -	☉ □	

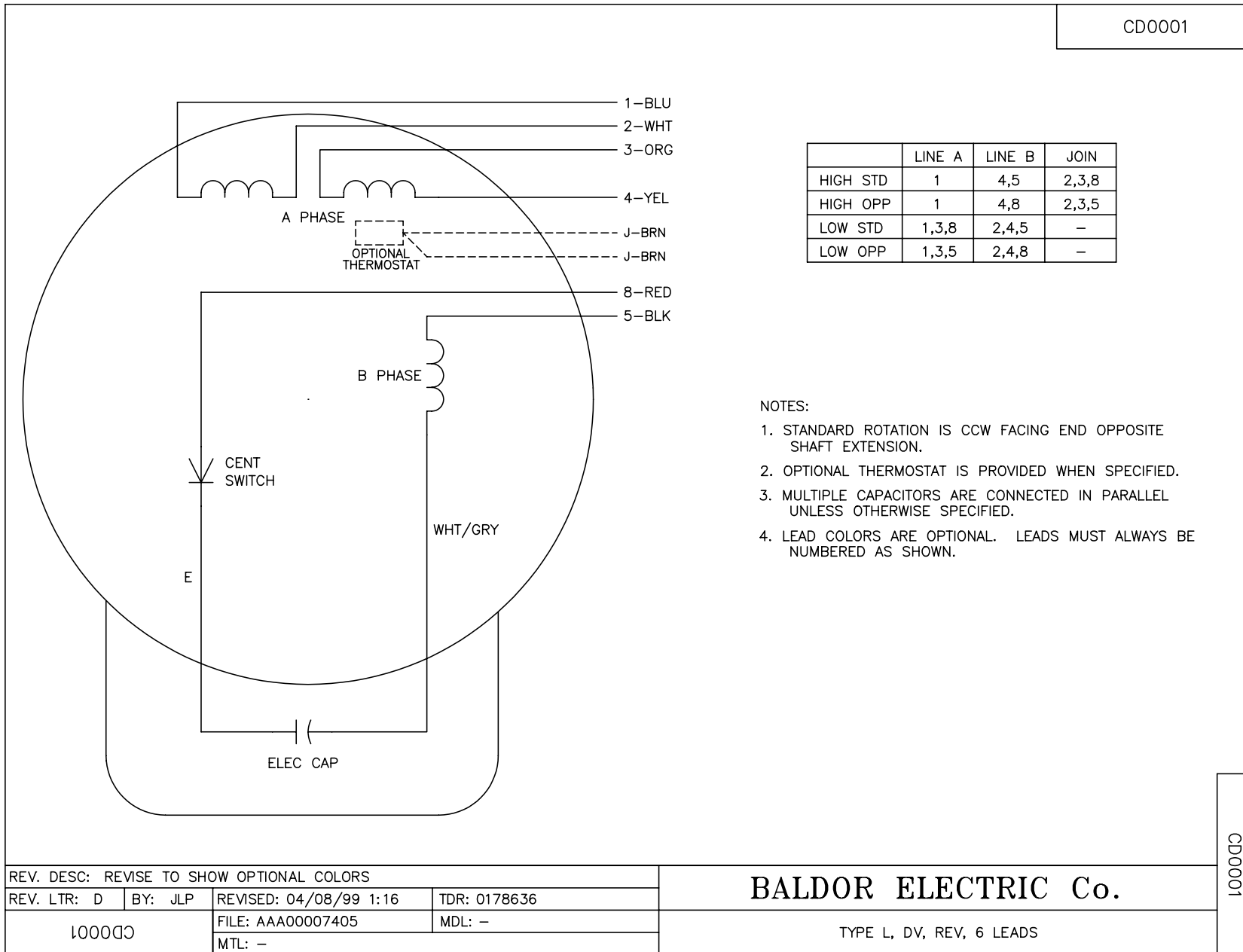
BALDOR

STD HORZ 56 TEFC 35L

SH 1 of 1

35LYC011

CD0001



REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
100000		FILE: AAA00007405	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

TYPE L, DV, REV, 6 LEADS

CD0001