

ABB BALDOR RELIANCE III

Customer information packet

JL1313A

1.5HP, 3450RPM, 1PH, 60HZ, 56J, 3432LC, OPEN

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56J
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA UR
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	13.000 A @ 115.0 V 6.500 A @ 230.0 V
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	B

Part Detail

Revision	AE
Type	AC
Mech. spec.	34F531
Base	
Status	PRD/A
Elec. spec.	34WGX598
Layout	34LYF531
Eff. date	05-08-2026
CD Diagram	CD0769
Poles	02
Leads	4#16 A&J,1#18 B PH,1#14 #1TH
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads With QC
Motor Standards	NEMA
Motor Type	3432LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.89 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.30
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed	3450 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	SB

Nameplate

NP1257L											
CAT.NO.	JL1313A										
SPEC.	34F531X598										
HP	1.5										
VOLTS	115/230										
AMP	13/6.5										
RPM	3450										
FRAME	56J				HZ		60		PH		1
SER.F.	1.30		CODE	H	DES		-	CL	B		
NEMA-NOM-EFF	78.5		PF	95							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE		6203						
ENCL	OPEN	SN									
	SFA 17/8.5										

Parts List

Part number	Description	Quantity
SA043979	SA 34F531X598	1.000 ea
RA039436	RA 34F531X598	1.000 ea
OC3050C09	CYL OIL CAP 50MFD/240V	1.000 ea
EC1540A06SP	ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
34EP3202A02	FR ENDPLATE, MACH	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3401A01SP	PU ENDPLATE, MACH	1.000 ea
34AD2000	BAFFLE PLATE, STAMPED	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FH4500A02P	DRIPCOVER, MODEL 34	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
RM1010A01	35-968-1 VINYL CLS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5068A03	34LC TERM PANEL STAT SWITCH #E-6" AND #O	1.000 ea
HA3100A21	THRUBOLT 10-32 X 9.937	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0546	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	5.000 ea

AC Induction Motor Performance Data

Record # 7475

Typical performance - not guaranteed values

Winding: 34WGX598-R001			Type: 3432LC		Enclosure: OPEN	
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		13/6.5	Breakdown Torque		6.2 LB-FT	
R.P.M.		3450	Pull-up Torque		5 LB-FT	
Hz	60	Phase	Locked-rotor Torque		6.7 LB-FT	
NEMA Design Code		-	Starting Current		43.5 A	
Service Factor (S.F.)		1.3	No-load Current		1.65 A	
NEMA Nom. Eff.		78.5	Power Factor		95	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		17/8.5	Temp. Rise @ S.F. Load		53°C	

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	81	90	93	95	95	95	95
Efficiency	60.5	76.2	77.7	78.5	77.2	75.3	76.8
Speed	3566	3534	3498	3455	3403	3343	3391
Line amperes	2.45	3.65	5	6.5	8.25	10.25	8.65

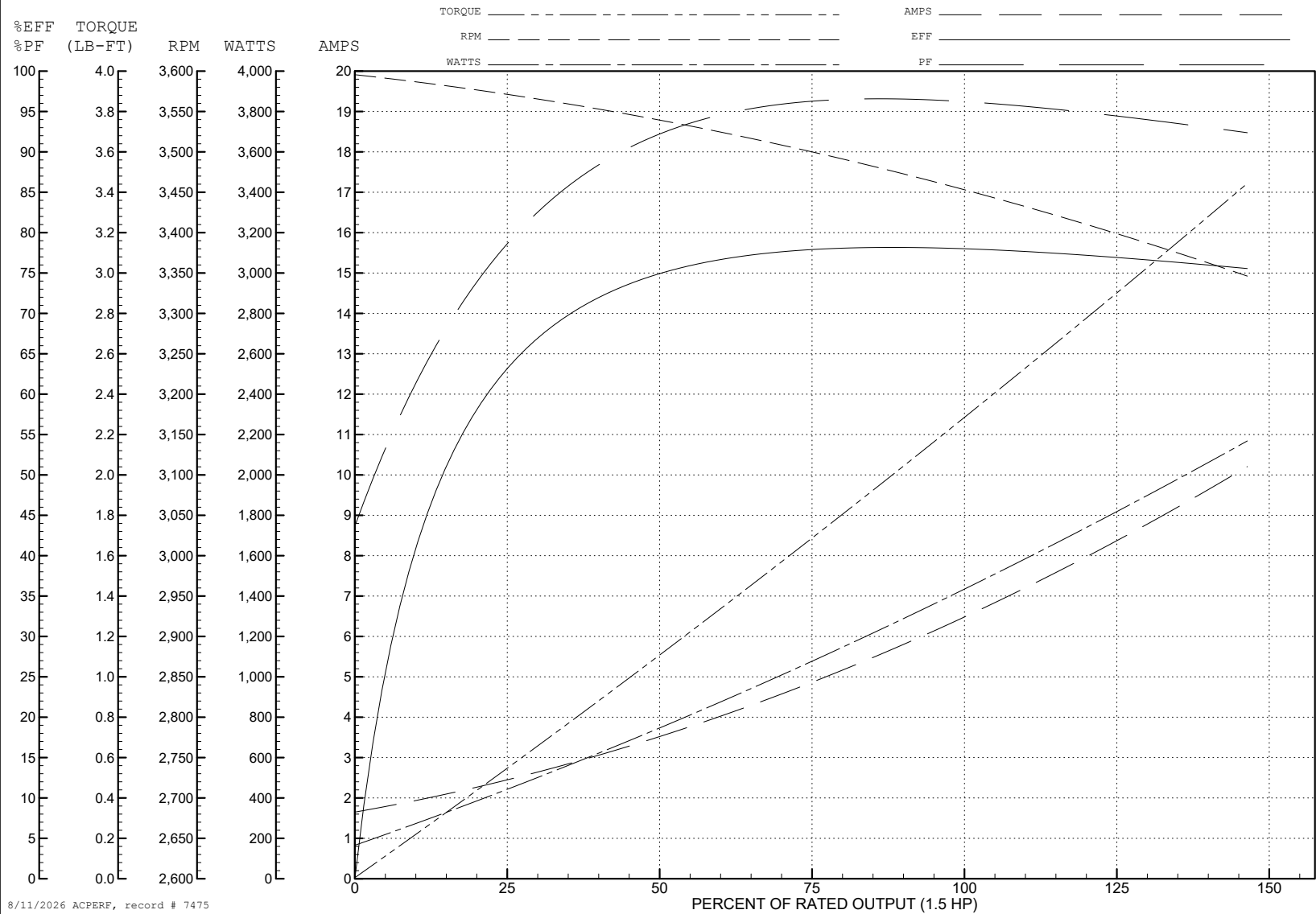
ABB Motors and Mechanical Inc.

WINDING # 34WGX598

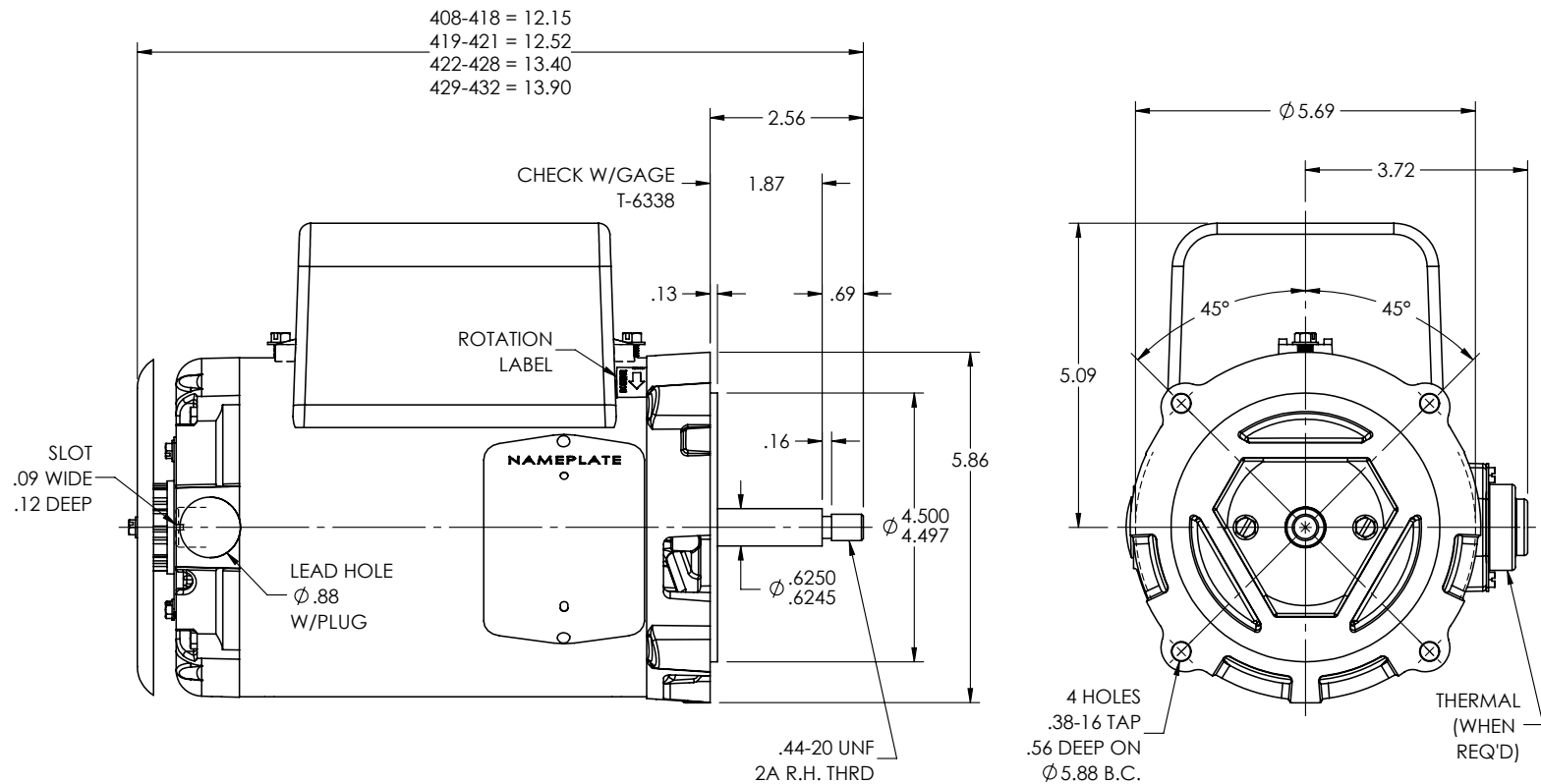
Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3432LC

TORQUES (LB-FT): PO=6.2 PU=5 LR=6.7 LRA=43.5



34LYF531



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

REV. DESC: CLEAN UP DIMENSIONING

REV: B

VERSION: 02

REVISED: 11:26:27 10/02/2025

TDR: 000001264465

BALDOR - RELIANCE®

34LYF531

MODEL NO. 34LYF531

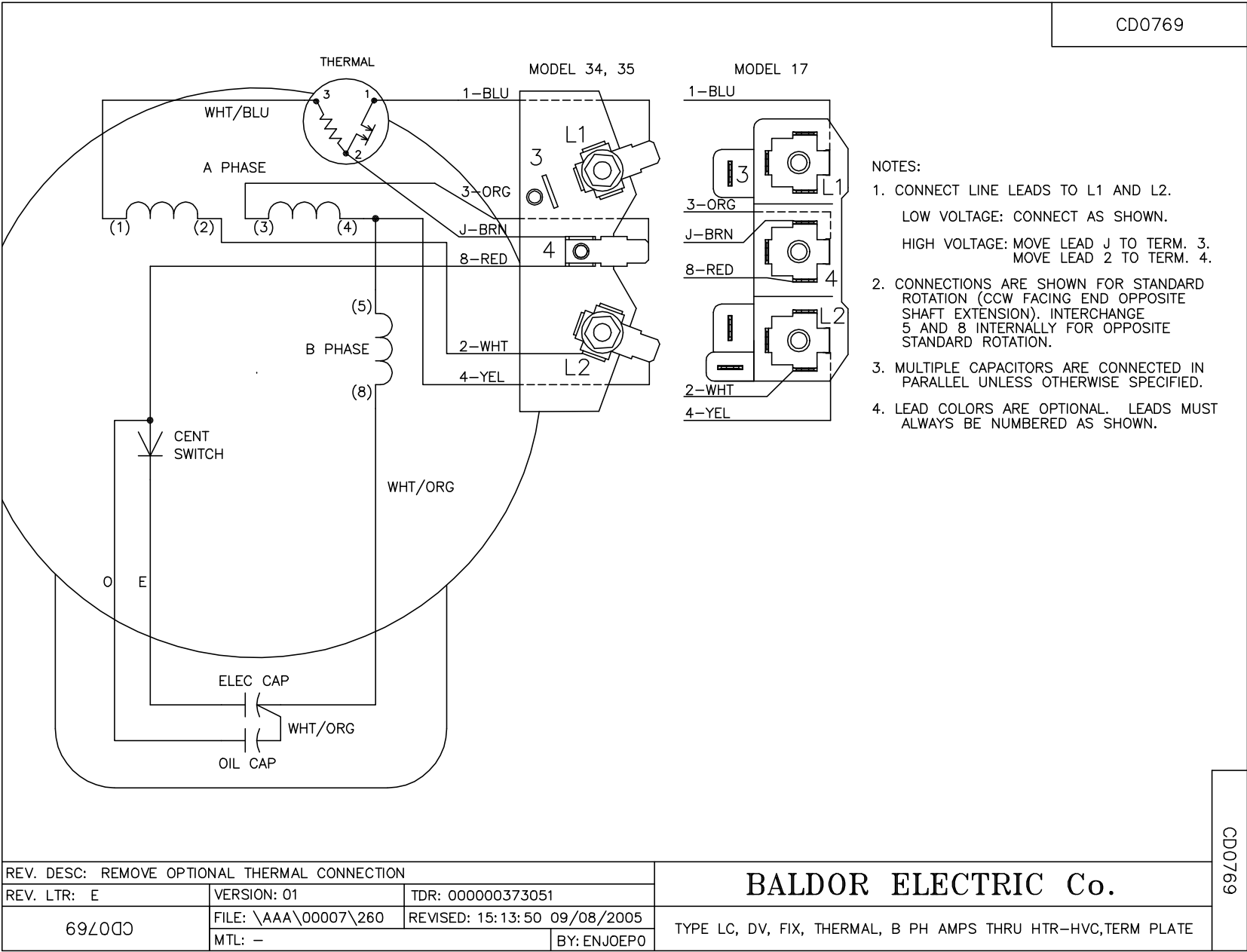
REF: -

BY: ENJEFD0

STD VERT 34LC NEMA 56J OPEN W/TERM PANEL & DRIP COVER

34LYF531

CD0769



CD0769