ABB BALDOR RELIANCE

Customer information packet

RL1310A

1HP, 1725RPM, 1PH, 60HZ, 56H, 3520L, OPEN, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56H
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.000 A @ 115.0 V
	6.500 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	A
Type	AC
Mech. spec.	35F391
Base	
Status	PRD/A
Elec. spec.	35WGK600
Layout	35LYF391
Eff. date	03-18-2025
CD Diagram	CD0052
Poles	04
Leads	6#18,1#14 #1TH
Proprietary	False
Created date	01-14-2025

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.42 IN
Power Factor	73
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
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	ES
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	RL1310A								
SPEC.	35F391K600G1								
HP	1								
VOLTS	115/230								
AMP	13/6.5								
RPM	1725								
FRAME	56H		**HZ**	60		**PH**	1		
SER.F.	1.15	**CODE**	H	**DES**	N	**CL**	F		
NEMA-NOM-EFF	66	**PF**	73						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	OPEN	**SN**							

Parts List

Part number	Description	Quantity
SA433843	SA 35F391K600G1	1.000 ea
RA426131	RA 35F391K600G1	1.000 ea
EC1400A03SP	ELEC CAP, 400-480 MFD, 125V, 1.81D X 3.	1.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
LD5000A01	LEAD ASSY, ML1400DF14 7" RING TRM EA END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 ea
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 ea
35EP3202A01	STD OPEN FR EP - RESILIENT MTD	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3203A01	STD PU EP, OPEN RESIL MTG	1.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	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
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
SP5066A01	35 TERM PANEL SWITCH W/E-BLK, 8-RED	1.000 ea

HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
35BA4002A01	RESILIENT BASE, STAMPED	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0052	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 111272
Typical performance - not guaranteed values

Winding: 35WGK600-R001	**Type:** 3520L	**Enclosure:** OPSB

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.049 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			13/6.5	**Breakdown Torque**	7.38 LB-FT
R.P.M.			1725	**Pull-up Torque**	6.33 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	7.09 LB-FT
NEMA Design Code	N	**KVA Code**	H	**Starting Current**	60.4 A
Service Factor (S.F.)			1.15	**No-load Current**	9.82 A
NEMA Nom. Eff.	66	**Power Factor**	73	**Line-line Res. @ 25ºC**	0.78284 Ω A Ph 1.9 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	58°C

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	50	63	73	80	85	77
Efficiency	47.1	62	67.1	68.2	66.5	62.6	67.2
Speed	1780.6	1765.2	1748	1727.1	1696.7	1658.3	1709
Line amperes	9.9	10.4	11.5	13.1	15.3	18.5	14.4

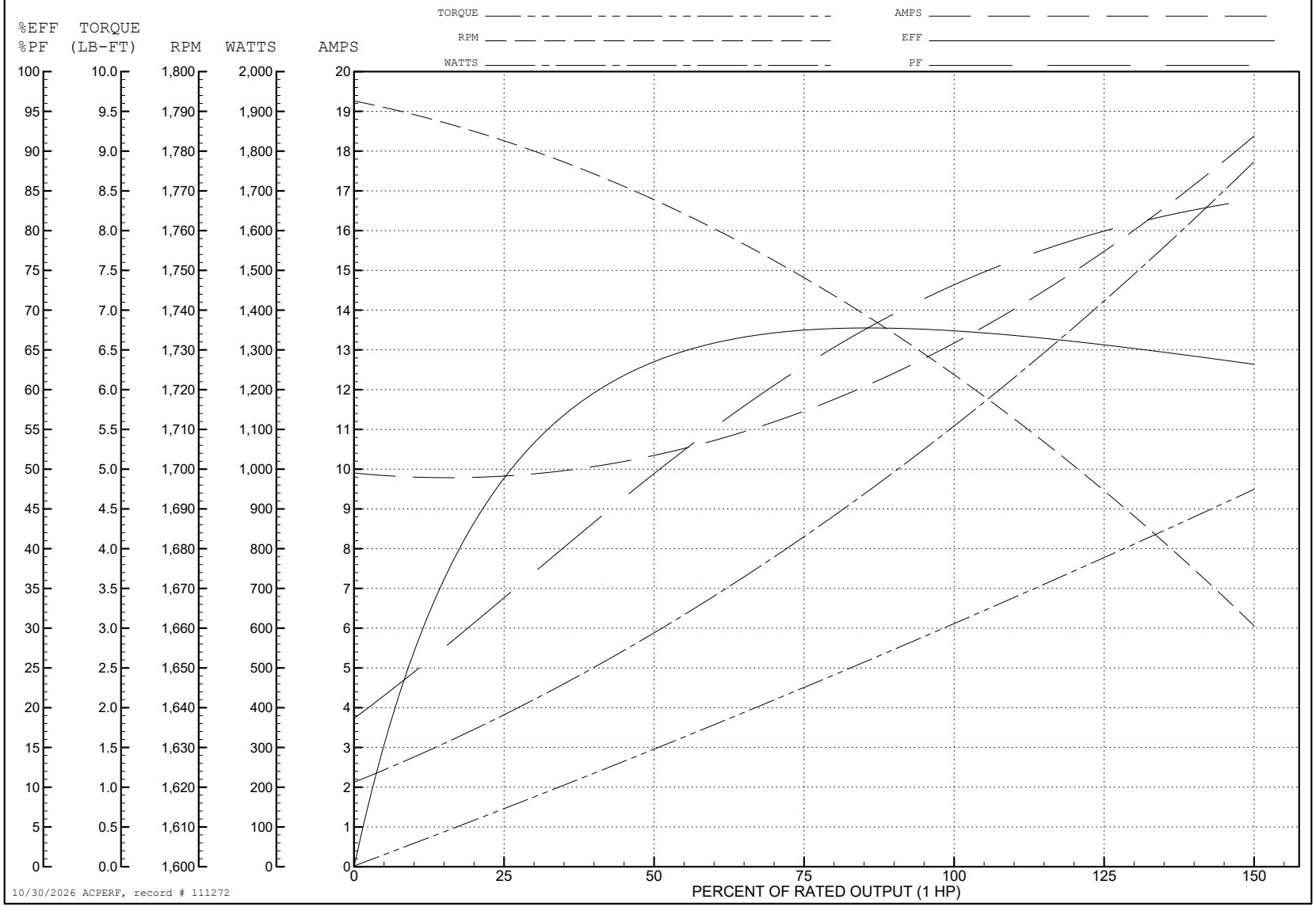
ABB Motors and Mechanical Inc.

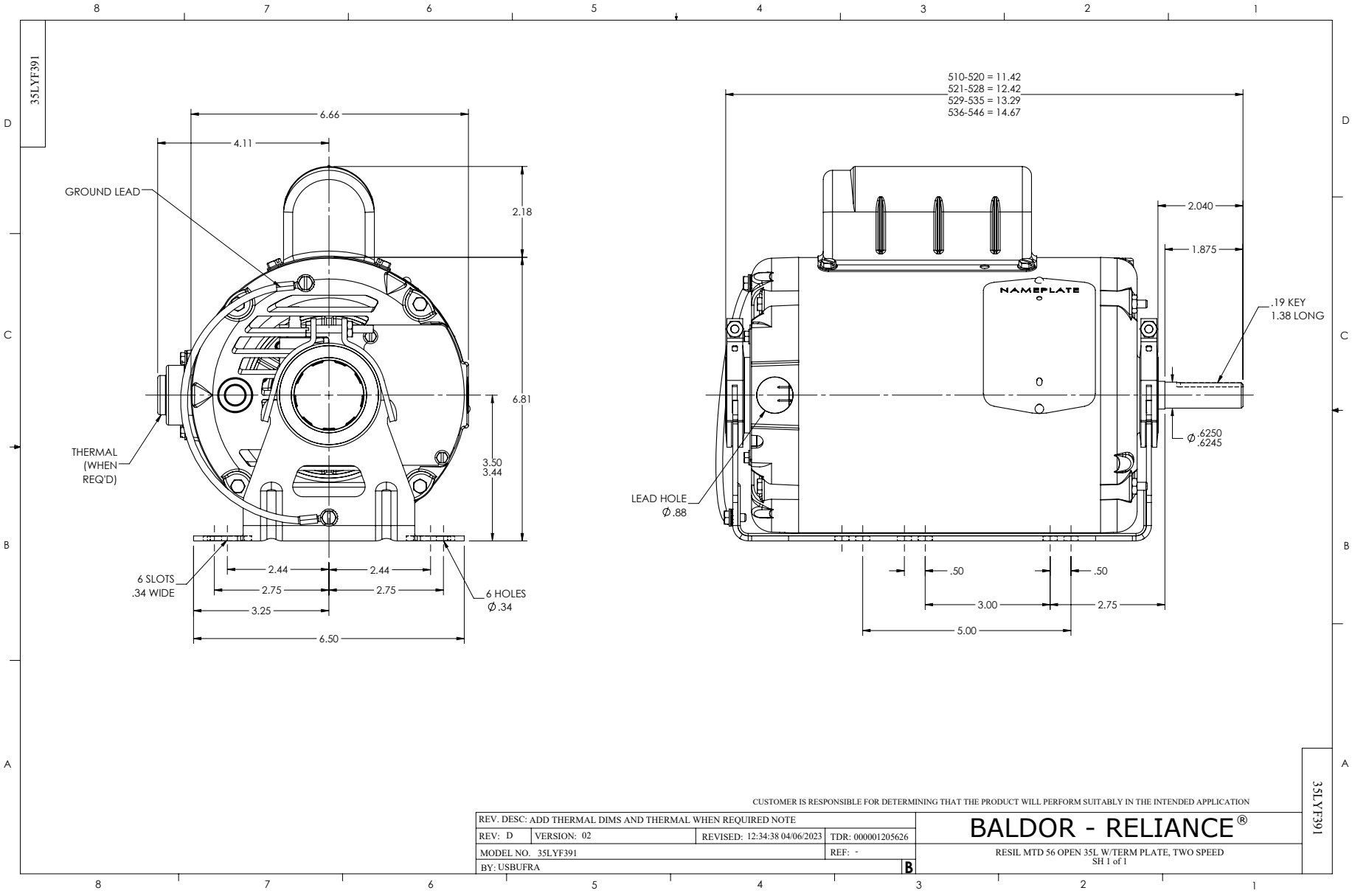
WINDING # 35WGK600

1 HP 1 PH 60 HZ 1725 RPM 115 V 3520L

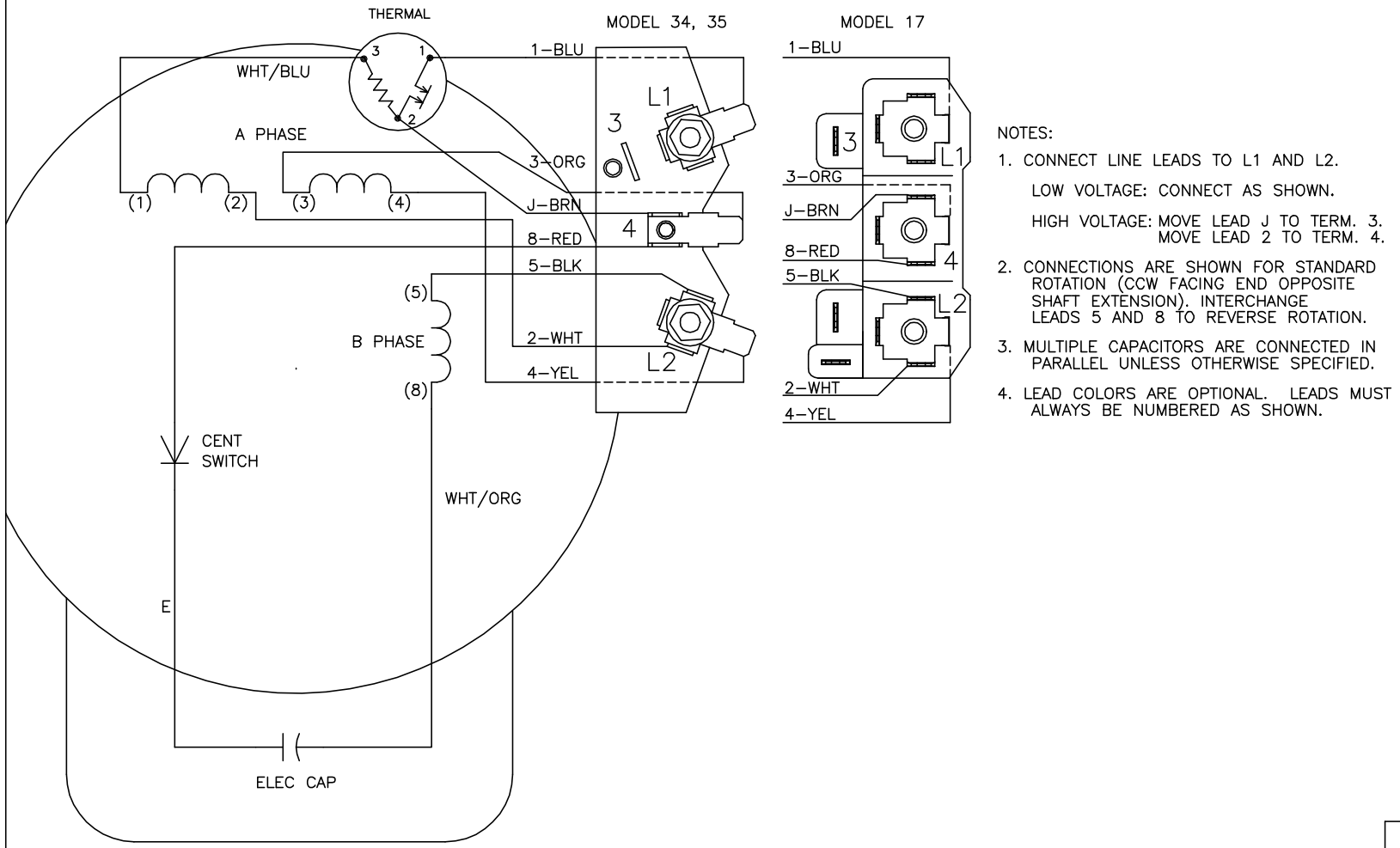
TORQUES(LB-FT): PO=7.38 PU=6.33 LR=7.09 LRA=60.4

Typical performance - not guaranteed values.




35LYF391
6.66
4.11
GROUND LEAD
2.18
6.81
3.50
3.44
THERMAL
(WHEN
REQ'D)
6 SLOTS
.34 WIDE
2.44
2.44
2.75
2.75
3.25
6.50
6 HOLES
Ø .34
510-520 = 11.42
521-528 = 12.42
529-535 = 13.29
536-546 = 14.67
2.040
1.875
.19 KEY
1.38 LONG
NAMEPLATE
Ø .6250
.6245
LEAD HOLE
Ø .88
.50
.50
3.00
2.75
5.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: D
VERSION: 02
REVISED: 12:34:38 04/06/2023
TDR: 000001205626
MODEL NO. 35LYF391
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
RESIL MTD 56 OPEN 35L W/TERM PLATE, TWO SPEED
SH 1 of 1
35LYF391

CD0052



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3. MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0052

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: H	VERSION: 01	TDR: 000000373039	
CD0052	FILE: \AAA\00007\100	REVISED: 10:20:46 08/11/2005	TYPE L, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	