ABB BALDOR RELIANCE

Customer information packet

ERL1319A277

1.5HP, 1750RPM, 1PH, 60HZ, 56H, 3540LC, OPEN, F
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, Cap Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	277.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	4.750 A @ 277.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.8 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H

Part Detail

Revision	E
Type	AC
Mech. spec.	35F554
Base	
Status	PRD/A
Elec. spec.	35WGG396
Layout	35LYF554
Eff. date	02-21-2025
CD Diagram	CD0002A02
Poles	04
Leads	2#16 A PH,3#18 B%J
Proprietary	False
Created date	11-01-2022

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	2 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads With QC
Motor Standards	NEMA
Motor Type	3540LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.67 IN
Power Factor	98
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	1750 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
Winding Thermal 2	None

Nameplate

NP3273L									
CAT.NO.	ERL1319A277								
SPEC.	35F554G396G1								
HP	1.5								
VOLTS	277								
AMP	4.75								
RPM	1750								
FRAME	56H		**HZ**	60			**PH**	1	
SER.F.	1.15	**CODE**	H	**DES**	L	**CL**	F		
F.L. AVG. EFF.	84	**PF**	98						
RATING	40C AMB-CONT								
CC									
DE	6203		**ODE**	6203					
ENCL	OPEN	**SN**							

Parts List

Part number	Description	Quantity
SA408700	SA 35F554G396G1	1.000 ea
RA400243	RA 35F554G396G1	1.000 ea
OC3018C13	CYL OIL CAP 17.5MFD/240V	1.000 ea
EC1189C06SP	ELEC CAP, 189-227 MFD, 250V, 2.06D X 4.	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
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	1.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	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	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
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea

WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
SP5077A15	MDL 35 TERM PANEL SWITCH, NO HARDWARE, W	1.000 ea
35BA4002J01	RESILIENT BASE, STAMPED	1.000 ea
HA3100A26	THRUBOLT 10-32 X 11.500	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0002	CONNECTION LABEL	1.000 ea
NP3273L	ALUM SUPER-E THERMALLY PROTECTED, LASER	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	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 # 89176
Typical performance - not guaranteed values

Winding: 35WGG396-R001	**Type:** 3540LC	**Enclosure:** OPEN

Nameplate Data				**277 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1.5	**Full Load Torque**	4.49 LB-FT
Volts			277	**Start Configuration**	direct on line
Full Load Amps			4.75	**Breakdown Torque**	12.9 LB-FT
R.P.M.			1750	**Pull-up Torque**	9.73 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	13.3 LB-FT
NEMA Design Code	L	**KVA Code**	H	**Starting Current**	33.5 A
Service Factor (S.F.)			1.15	**No-load Current**	0.5 A
NEMA Nom. Eff.	84	**Power Factor**	98	**Line-line Res. @ 25ºC**	2.47 Ω A Ph 3.33 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
				Locked-rotor Power Factor	99.5
				Rotor inertia	0.29 lb-ft²

Load Characteristics 277 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	99.443	99.651	99.591	99.414	99.257	99.125	99
Efficiency	69.866	82.103	86.083	87.166	87.092	86.83	87.1
Speed	1789	1780	1770	1759	1752	1747	1755
Line amperes	1.46	2.47	3.54	4.67	5.37	5.87	5.09

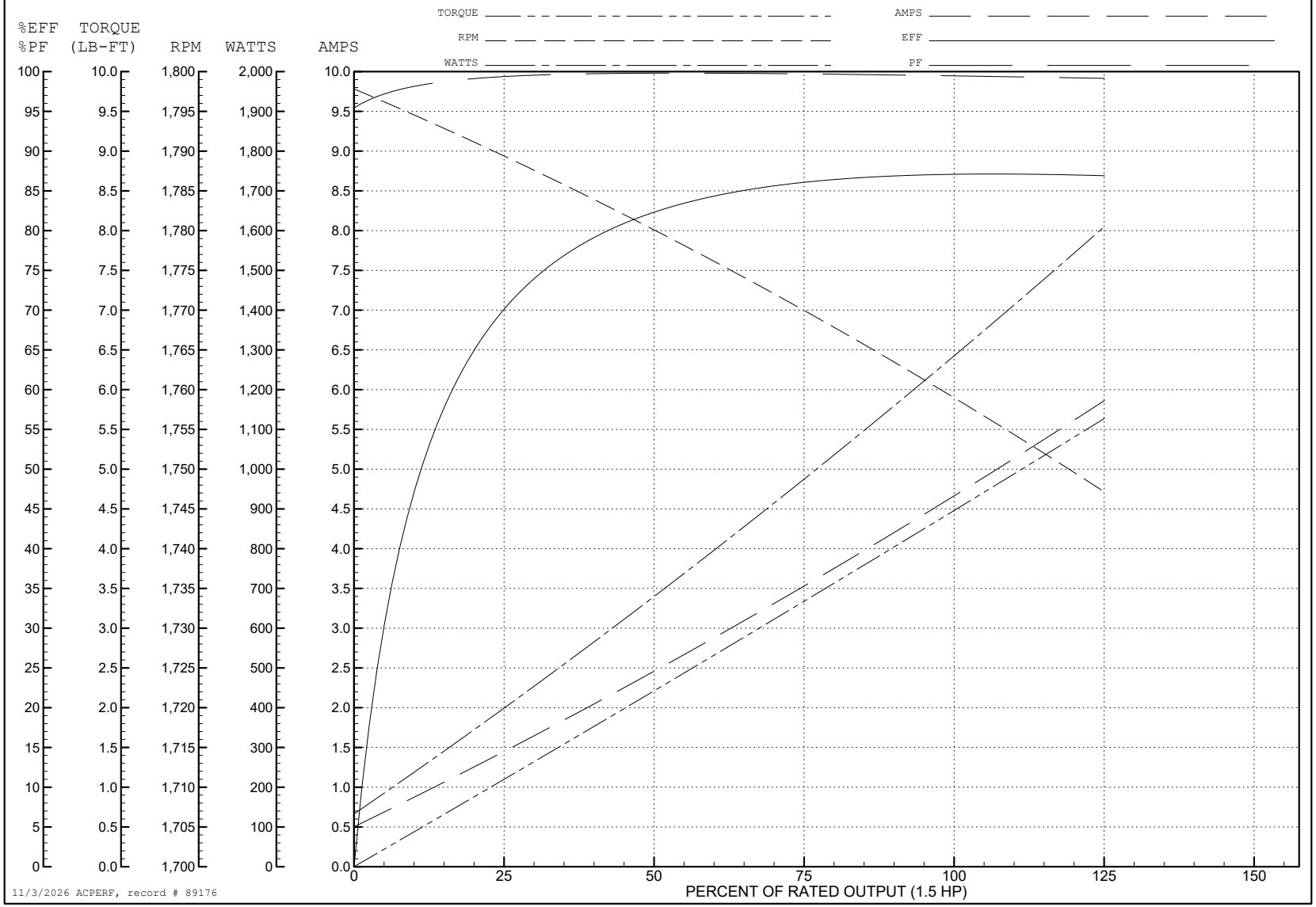
ABB Motors and Mechanical Inc.

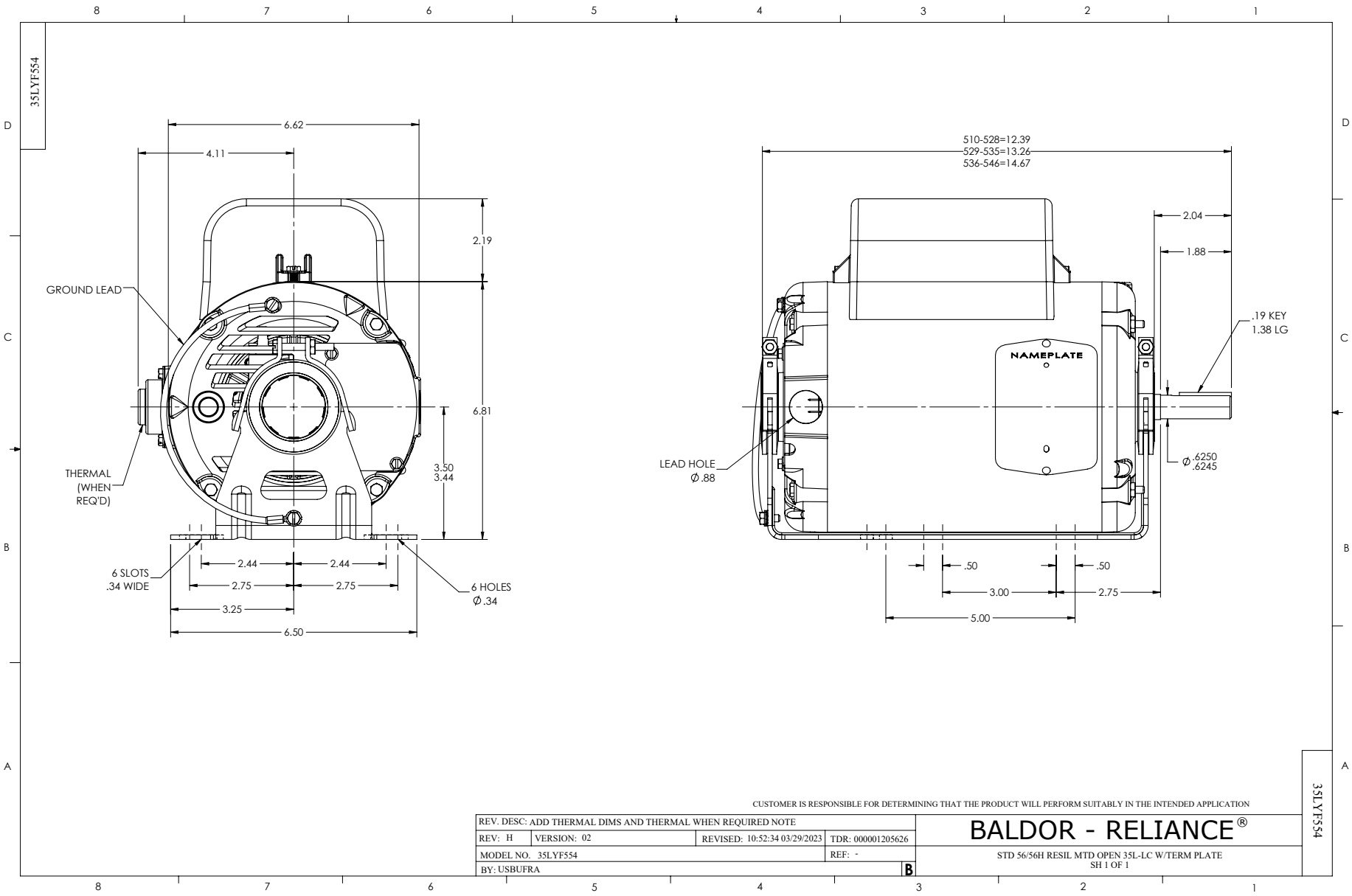
WINDING # 35WGG396

1.5 HP 1 PH 60 HZ 1750 RPM 277 V 3540LC

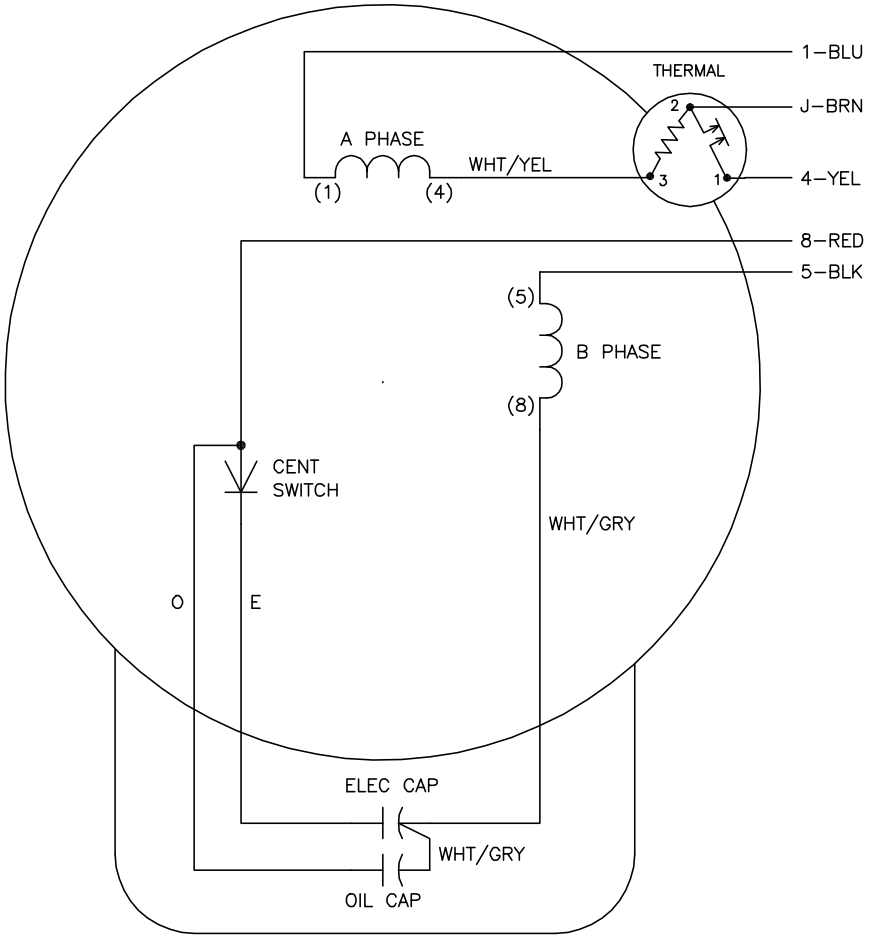
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=12.9 PU=9.73 LR=13.3 LRA=33.5




35LYF554
6.62
4.11
2.19
GROUND LEAD
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
510-528=12.39
529-535=13.26
536-546=14.67
2.04
1.88
.19 KEY
1.38 LG
NAMEPLATE
LEAD HOLE
Ø.88
Ø.6250
.6245
.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: H
VERSION: 02
REVISED: 10:52:34 03/29/2023
TDR: 000001205626
MODEL NO. 35LYF554
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD 56/56H RESIL MTD OPEN 35L-LC W/TERM PLATE
SH 1 OF 1
35LYF554

CD0002A02



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	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.

REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0002A04			BALDOR ELECTRIC Co.
REV. LTR: D	VERSION: 01	TDR: 000000360649	
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005	TYPE LC, SV, REV, THERMAL, 5 LEADS
	MTL: –	BY: ENJOEP0	

CD0002A02