ABB BALDOR RELIANCE

Customer information packet

RL1304A277

.5HP/1725RPM/1PH/OPEN/NEMA 56
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	277.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	3.600 A @ 277.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	Z
Type	AC
Mech. spec.	34L033
Base	
Status	PRD/A
Elec. spec.	34WGW310
Layout	34LYL033
Eff. date	10-28-2024
CD Diagram	CD0085
Poles	04
Leads	5#18
Proprietary	False
Created date	01-01-0001

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.59 IN
Power Factor	61
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
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	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	RL1304A277										
SPEC.	34L33W310										
HP	.5										
VOLTS	277										
AMP	3.6										
RPM	1725										
FRAME	56		**HZ**	60		**PH**	1				
SER.F.	1.25	**CODE**	K	**DES**	N	**CL**	B				
NEMA-NOM-EFF	62	**PF**	61								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	OPEN	**SN**									
	SFA 4										

Parts List

Part number	Description	Quantity
SA007924	SA 34L33W310	1.000 ea
RA004371	RA 34L33W310	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	2.000 ea
34EP3202A01	FR ENDPLATE, MACH	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
LD5000A52	LEAD ASSY W/INTERNAL STAR RING TERMINALS	1.000 ea
11XT1032A06	10-32 X 3/8 HX WSHR HD SLTD TYPE 23	2.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 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
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3203A01	PU ENDPLATE, MACH	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 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
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
34BA4003J01	RESILIENT BASE, MODEL 34 NEMA 56	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
EC1053D03	ELEC CAP, 53-64 MFD, 330V, 1.81D X 3.	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
33CB4800A02	CAPACITOR COVER, STAMPED	1.000 ea
SP5068A04	MODEL 34 TERMINAL PANEL SWITCH WITH LEAD	1.000 ea
HA3100A44	THRUBOLT 10-32 X 8.000	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0085	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A02	1.000 ea

AC Induction Motor Performance Data
Record # 6948
Typical performance - not guaranteed values

Winding: 34WGW310-R001	**Type:** 3418L	**Enclosure:** OPEN

Nameplate Data				**277 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			.5	**Full Load Torque**	1.5 LB-FT
Volts			277	**Start Configuration**	direct on line
Full Load Amps			3.6	**Breakdown Torque**	4.35 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.75 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	5.03 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	15.5 A
Service Factor (S.F.)			1.25	**No-load Current**	2.8 A
NEMA Nom. Eff.	62	**Power Factor**	61	**Line-line Res. @ 25ºC**	6.38 Ω A Ph 18.2 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
S.F. Amps			4	**Temp. Rise @ S.F. Load**	68°C

Load Characteristics 277 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	42	53	62	69	77	69
Efficiency	36	52	60	64	65	65	65
Speed	1780	1765	1750	1730	1711	1685	1711
Line amperes	2.9	3	3.2	3.5	3.8	4.3	3.8

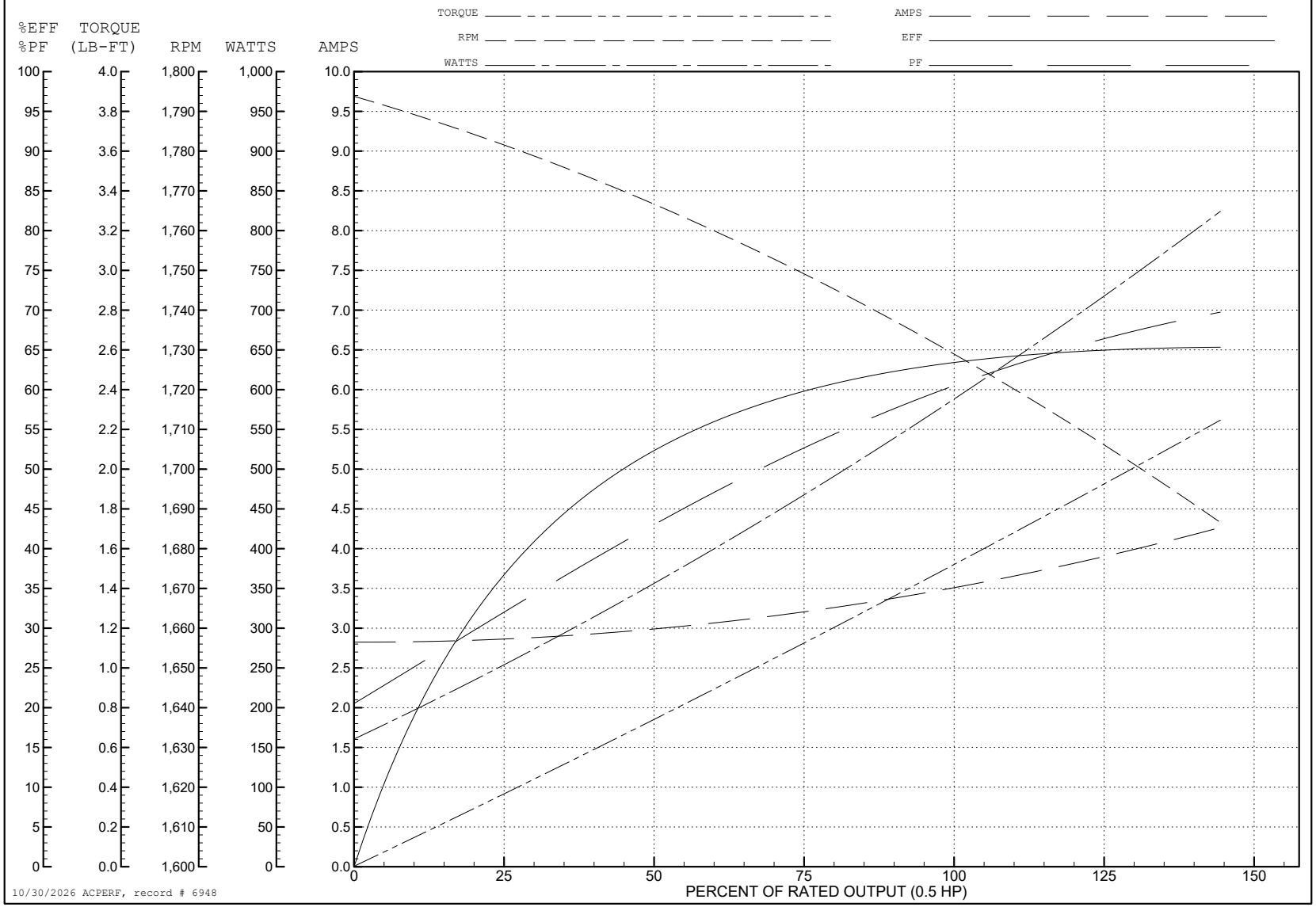
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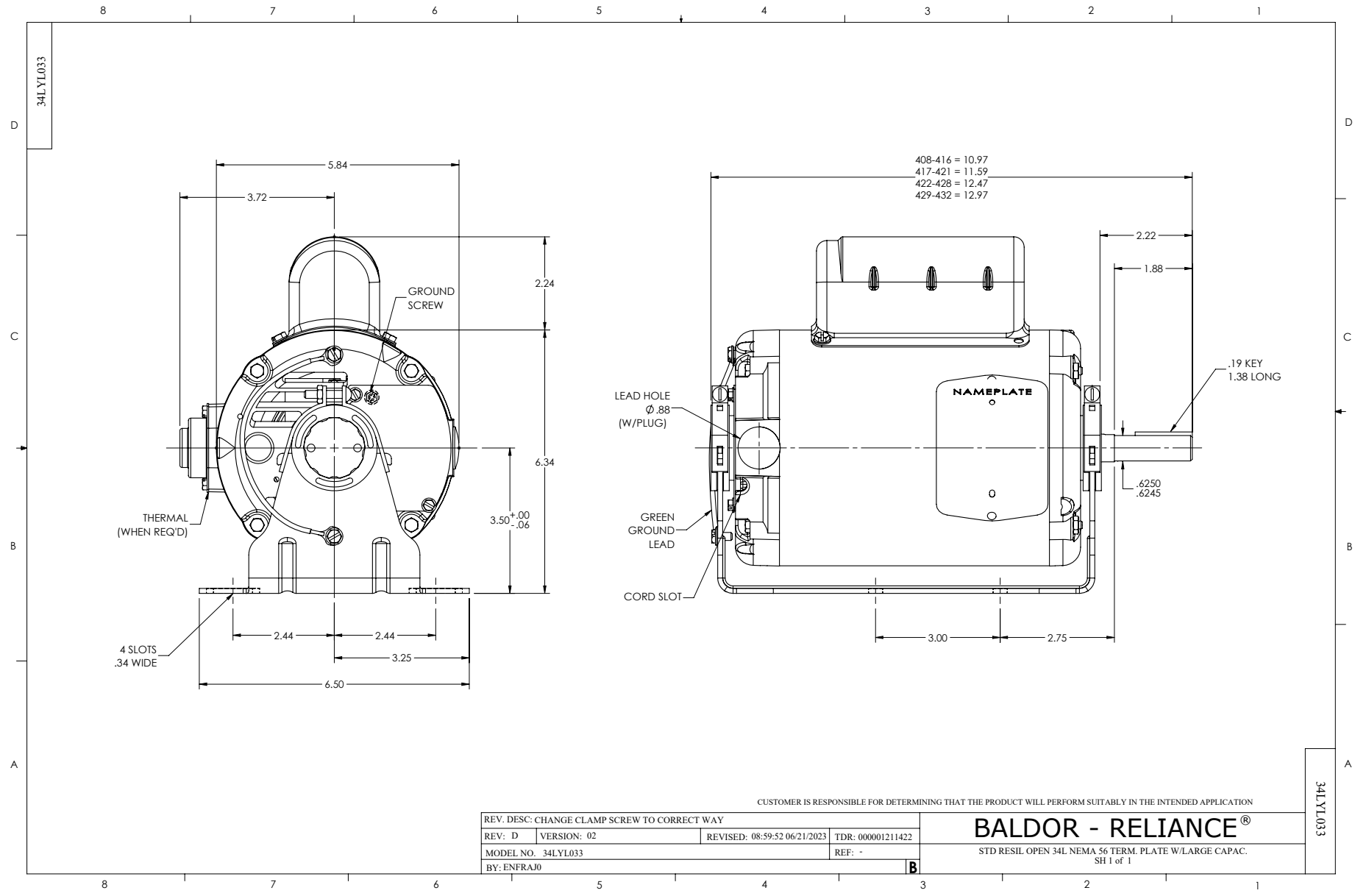
WINDING # 34WGW310

0.5 HP 1 PH 60 HZ 1725 RPM 277 V 3418L

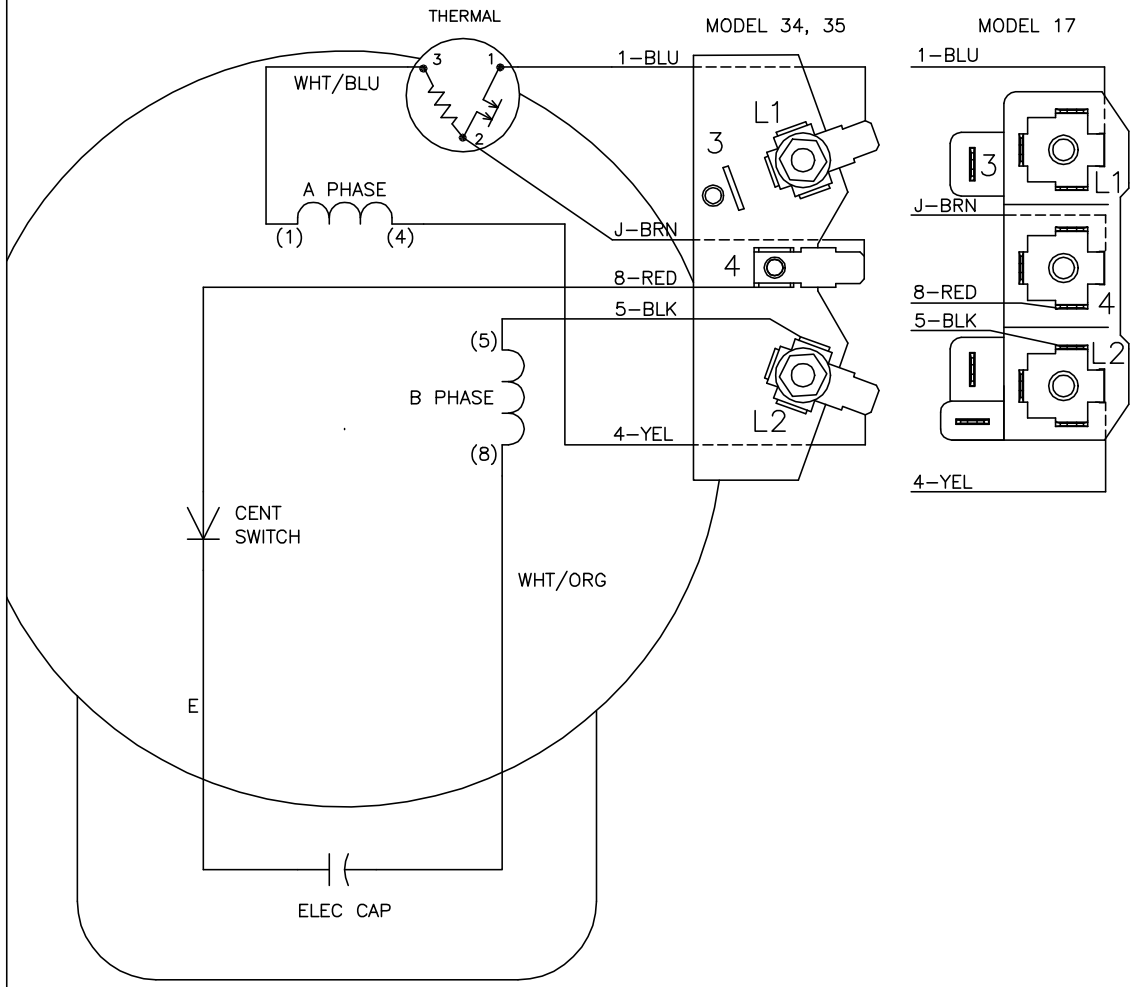
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.35 PU=3.75 LR=5.03 LRA=15.5




34LYL033
5.84
3.72
2.24
GROUND SCREW
6.34
3.50 +.00 -.06
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.44
2.44
3.25
6.50
408-416 = 10.97
417-421 = 11.59
422-428 = 12.47
429-432 = 12.97
2.22
1.88
.19 KEY
1.38 LONG
NAMEPLATE
LEAD HOLE Ø .88 (W/PLUG)
.6250
.6245
GREEN GROUND LEAD
CORD SLOT
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: D
VERSION: 02
REVISED: 08:59:52 06/21/2023
TDR: 000001211422
MODEL NO. 34LYL033
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD RESIL OPEN 34L NEMA 56 TERM. PLATE W/LARGE CAPAC.
SH 1 of 1
34LYL033

CD0085



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
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.

CD0085

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: J	VERSION: 01	TDR: 000000373039	
CD0085	FILE: \AAA\00007\109	REVISED: 13:27:48 08/11/2005	TYPE L, SV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	