ABB BALDOR RELIANCE

Customer information packet

L1409T

5HP, 3450RPM, 1PH, 60HZ, 184T, 3634L, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	184T
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	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	23.000 A @ 230.0 V 24.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AQ
Type	AC
Mech. spec.	36E002
Base	
Status	PRD/A
Elec. spec.	36WG0190
Layout	36LYE002
Eff. date	12-27-2024
CD Diagram	CD0017A01
Poles	02
Leads	2#10 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3634L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.00 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	L1409T								
SPEC.	36E02-190								
HP	5								
VOLTS	230								
AMP	23								
RPM	3450								
FRAME	184T		**HZ**	60			**PH**	1	
SER.F.	1.15	**CODE**	F	**DES**	L	**CLASS**		F	
NEMA-NOM-EFF	75	**PF**	88						
RATING	40C AMB-CONT								
CC									
DE	6206		**ODE**	6205					
ENCL	OPEN	**SN**							

Parts List

Part number	Description	Quantity
SA034422	SA 36E02-190	1.000 ea
RA030450	RA 36E02-190	1.000 ea
HA6362ZP	LIFTING LUG FOR 36 FRAME MOTORS.	2.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3204B00	MASTER ODE,205 BRG,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3205D00	MASTER DE,206 BRG,1.197SH,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	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	0.022 ga
HA3101A45	THRUBOLT- 1/4-20 X 11.126	4.000 ea
36CB5008A01	CAPACITOR BOX KIT, 36CB3800Z, EC1216C06,	1.000 ea
SP5172A01	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

AC Induction Motor Performance Data
Record # 20846
Typical performance - not guaranteed values

Winding: 36WG0190-R002	**Type:** 3634L	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	7.6 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			23	**Breakdown Torque**	18.7 LB-FT
R.P.M.			3450	**Pull-up Torque**	16 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	18 LB-FT
NEMA Design Code	L	**KVA Code**	F	**Starting Current**	125 A
Service Factor (S.F.)			1.15	**No-load Current**	9 A
NEMA Nom. Eff.	75	**Power Factor**	88	**Line-line Res. @ 25ºC**	0.338 Ω A Ph 1.16 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps				**Temp. Rise @ S.F. Load**	90°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	76	84	88	90	90	0
Efficiency	63	74.5	77.7	78	76.5	73.6	0
Speed	3559	3524	3485	3440	3387	3318	0
Line amperes	10.9	14.3	18.6	23.6	29.6	36.8	27.2

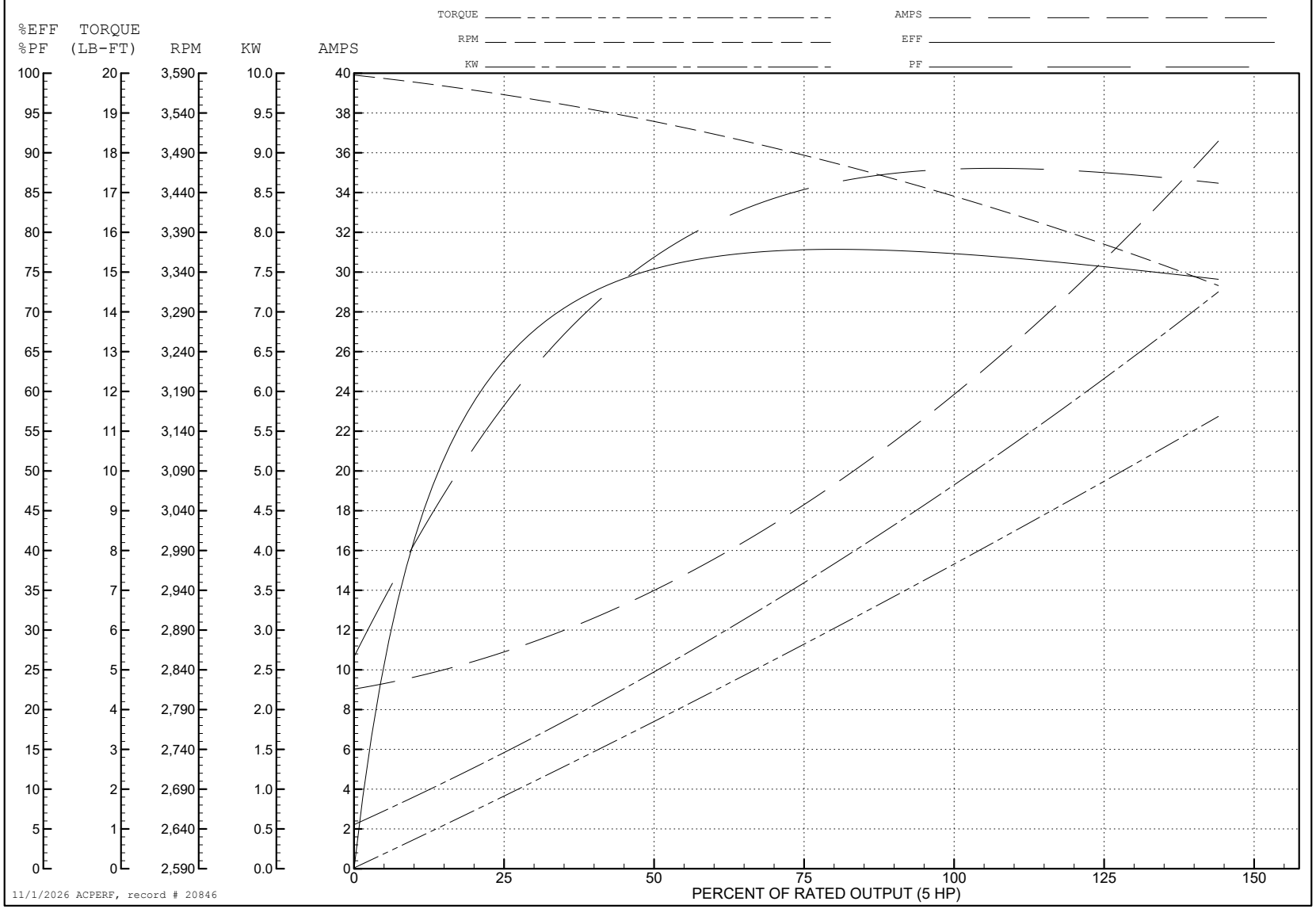
ABB Motors and Mechanical Inc.

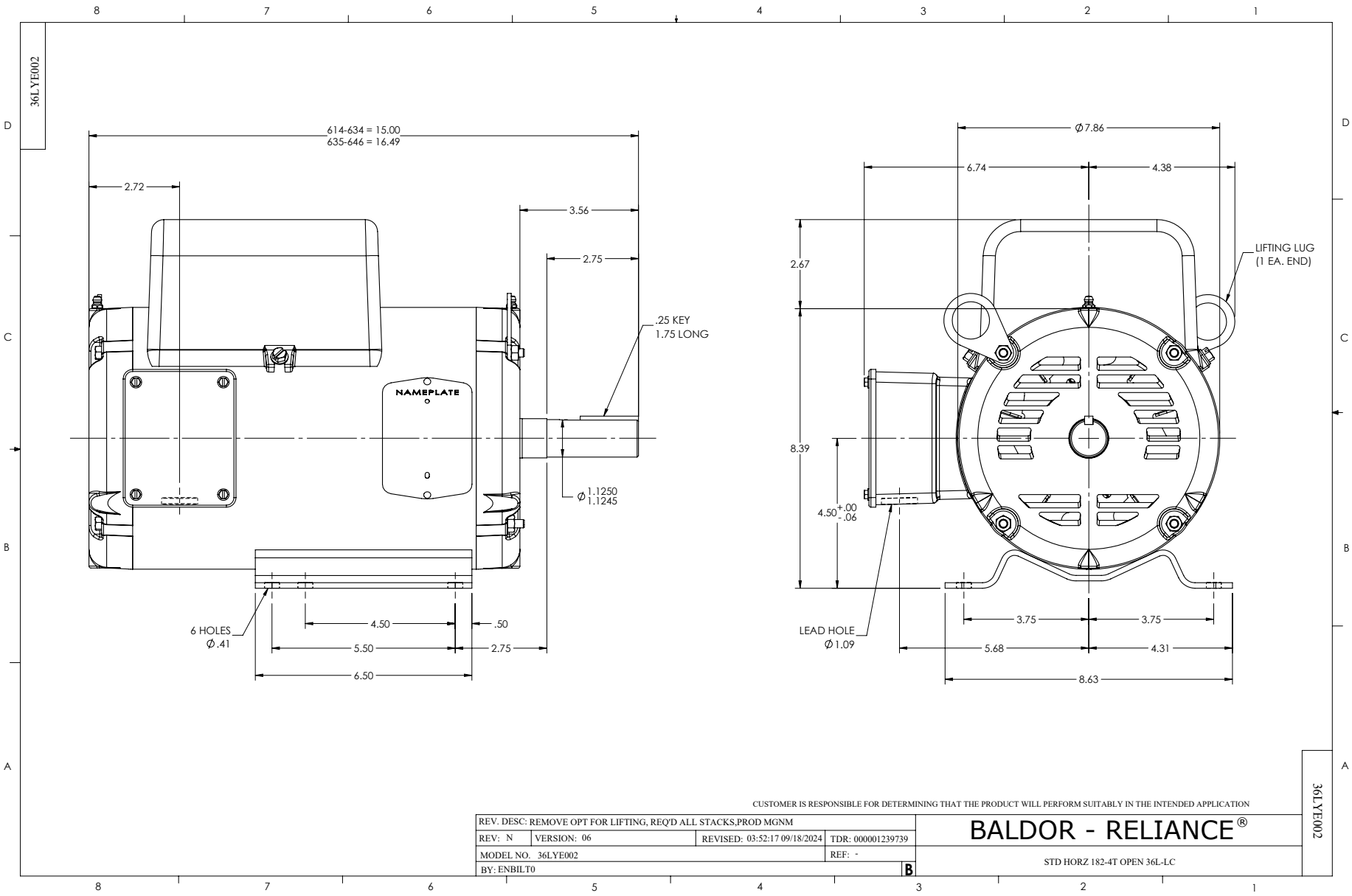
WINDING # 36WG0190

5 HP 1 PH 60 HZ 3450 RPM 230 V 3634L

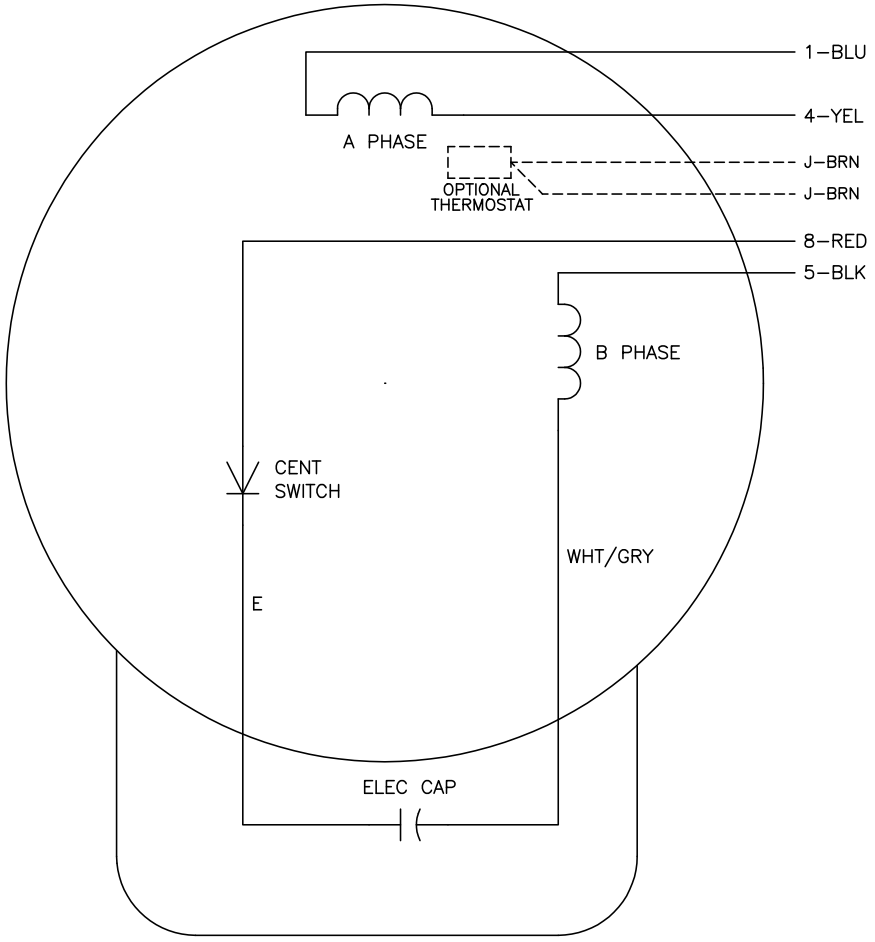
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=18.7 PU=16 LR=18 LRA=125




36LYE002
614-634 = 15.00
635-646 = 16.49
2.72
3.56
2.75
.25 KEY
1.75 LONG
NAMEPLATE
Ø 1.1250
1.1245
6 HOLES
Ø .41
4.50
.50
5.50
2.75
6.50
Ø 7.86
6.74
4.38
LIFTING LUG
(1 EA. END)
2.67
8.39
4.50 +.00 -.06
LEAD HOLE
Ø 1.09
3.75
3.75
5.68
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE OPT FOR LIFTING, REQ'D ALL STACKS,PROD MGNM
REV: N
VERSION: 06
REVISED: 03:52:17 09/18/2024
TDR: 000001239739
MODEL NO. 36LYE002
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
STD HORZ 182-4T OPEN 36L-LC
36LYE002

CD0017A01



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0017A01

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/08/99 1:18	TDR: 0178636
CD0017A01		FILE: AAA00007513	MDL: –
		MTL: –	TYPE L, SV, REV, 4 LEADS