ABB BALDOR RELIANCE

Customer information packet

L1320T

2HP, 3450RPM, 1PH, 60HZ, 3528LC, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	143T
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	2.000 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	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	11.500 A @ 230.0 V
	12.000 A @ 208.0 V
	23.000 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	71.0 %
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	11.5 a

Part Detail

Revision	K
Type	AC
Mech. spec.	35Y525
Base	
Status	PRD/A
Elec. spec.	35WG1639
Layout	35LYY525
Eff. date	05-08-2024
CD Diagram	CD0016A01
Poles	02
Leads	4#14 A PH,3#18 B PH
Proprietary	False
Created date	12-07-2009

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.13 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 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.	L1320T								
SPEC.	35Y525-1639G1								
HP	2								
VOLTS	115/230								
AMP	23/11.5								
RPM	3450								
FRAME	143T		**HZ**	60			**PH**	1	
SER.F.	1.15	**CODE**	H	**DES**	L	**CLASS**		B	
NEMA-NOM-EFF	71	**PF**	75						
RATING	40C AMB-CONT								
CC									
DE	6205		**ODE**	6203					
ENCL	OPEN	**SN**							

Parts List

Part number	Description	Quantity
SA188439	SA 35Y525-1639G1	1.000 ea
RA176173	RA 35Y525-1639G1	1.000 ea
OC3012F12SP	CYL OIL CAP 12MFD/370V	1.000 ea
EC1850A06SP	ELEC CAP 115V 2.0 X 4.3 X	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3209A00	MASTER ODE,203 BRG,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 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
35EP3210A00	MASTER DE,205 BRG,1.000SH,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	1.000 ea
SP1006A01	INSULATOR MODEL 35 SWITCH	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
34GS5003	FOAM SLEEVE, ID = 2 1/16" X 3 3/8"	2.000 ea
SP5181A03	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea

LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0016	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data
Record # 8155
Typical performance - not guaranteed values

Winding: 35WG1639-R001	**Type:** 3528LC	**Enclosure:** OPEN

Nameplate Data			**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		2	**Full Load Torque**	3 LB-FT
Volts		115/230	**Start Configuration**	direct on line
Full Load Amps		23/11.5	**Breakdown Torque**	10.5 LB-FT
R.P.M.		3450	**Pull-up Torque**	8.8 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	9.9 LB-FT
NEMA Design Code	L **KVA Code**	H	**Starting Current**	83 A
Service Factor (S.F.)		1.15	**No-load Current**	8.1 A
NEMA Nom. Eff.	71 **Power Factor**	75	**Line-line Res. @ 25ºC**	0.844 Ω A Ph 0.918 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	45°C
S.F. Amps			**Temp. Rise @ S.F. Load**	49°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	56	65	75	80	84	78
Efficiency	50	65	73	74	75	74	74.6
Speed	3574	3552	3533	3506	3482	3451	3492
Line amperes	8.6	9.6	10.5	12	13.6	15.7	12.96

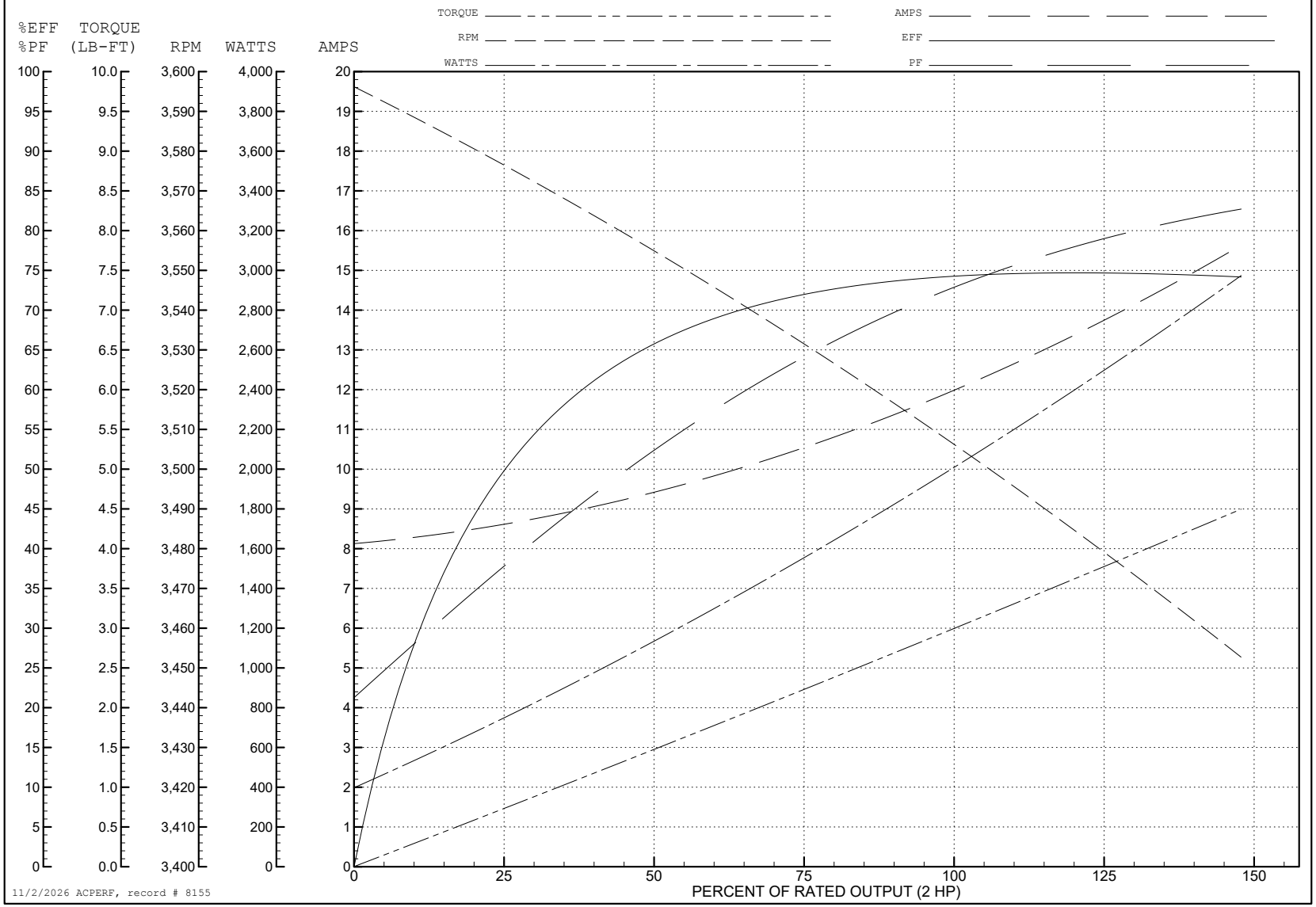
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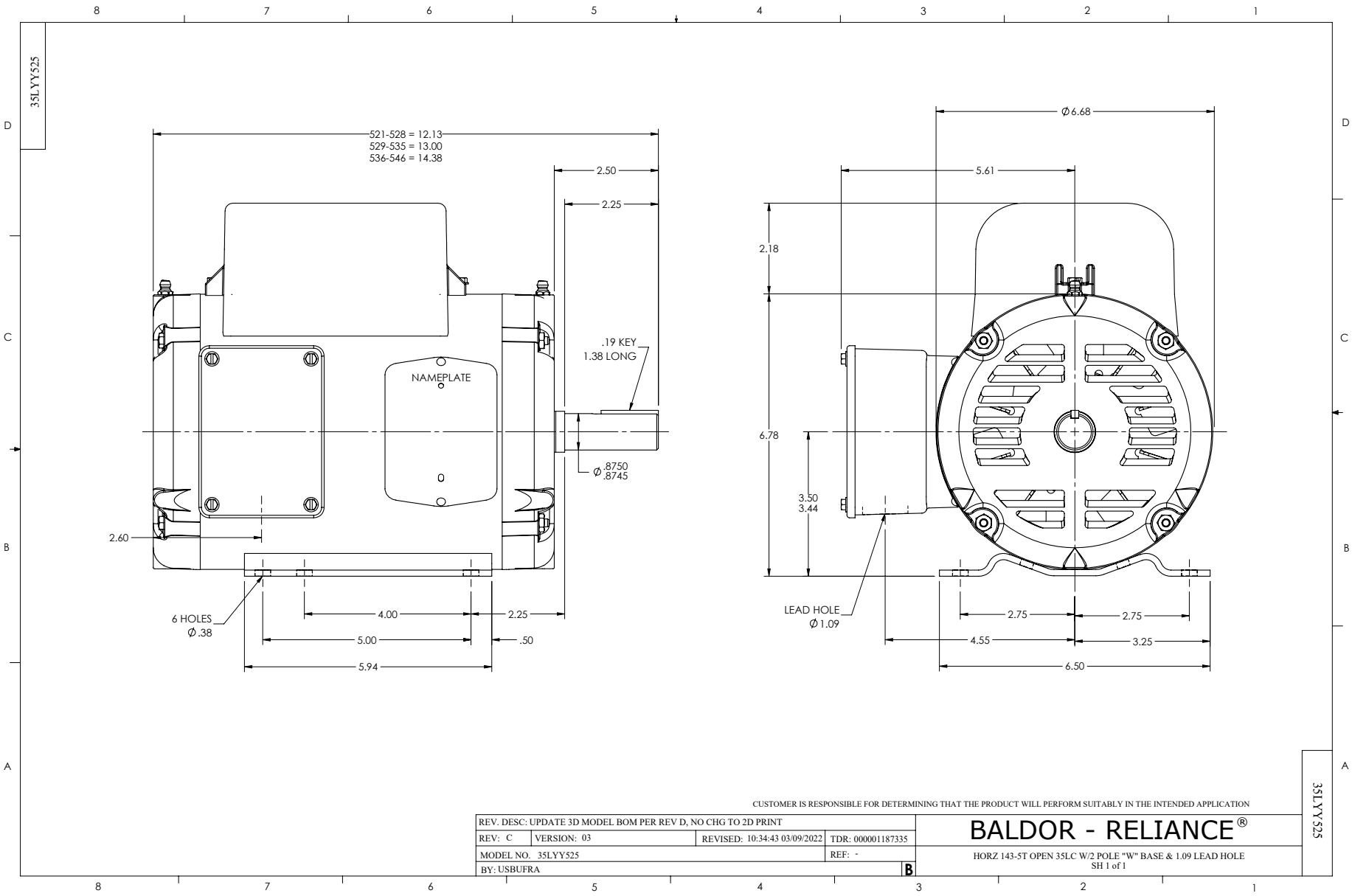
WINDING # 35WG1639

2 HP 1 PH 60 HZ 3450 RPM 230 V 3528LC

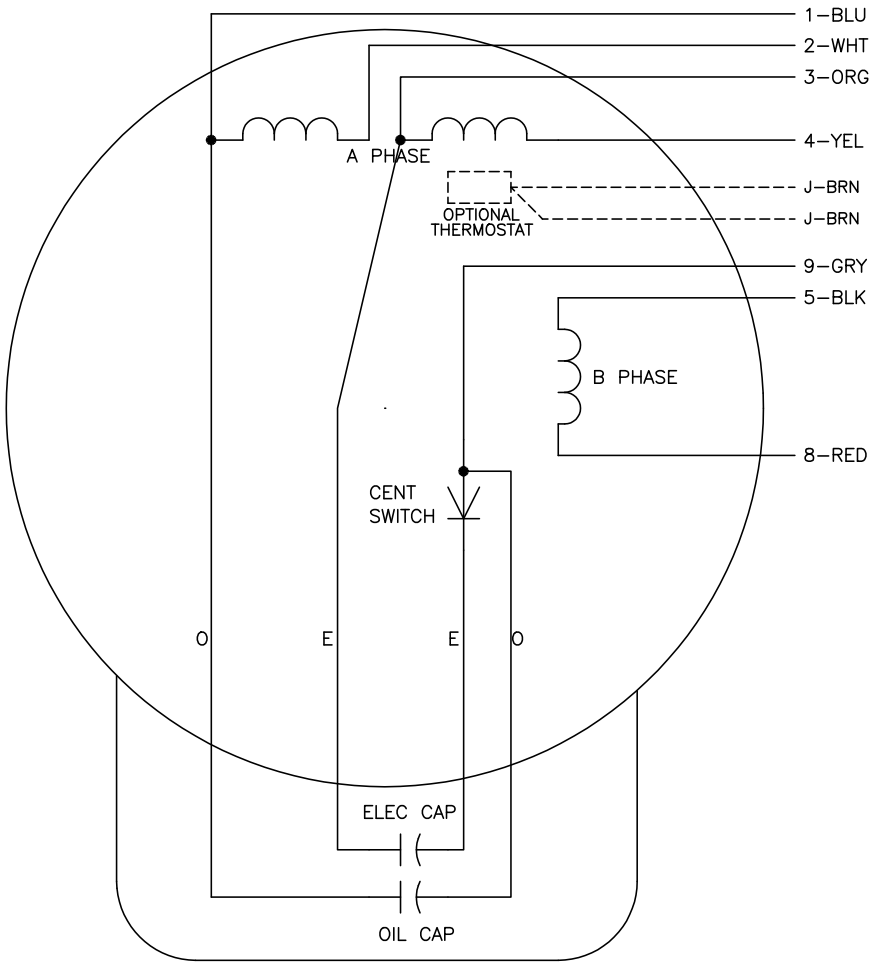
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=10.5 PU=8.8 LR=9.9 LRA=83




35LYY525
521-528 = 12.13
529-535 = 13.00
536-546 = 14.38
2.50
2.25
.19 KEY
1.38 LONG
NAMEPLATE
Ø .8750
.8745
2.60
6 HOLES
Ø .38
4.00
2.25
5.00
.50
5.94
Ø 6.68
5.61
2.18
6.78
3.50
3.44
LEAD HOLE
Ø 1.09
2.75
2.75
4.55
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV D, NO CHG TO 2D PRINT
REV: C
VERSION: 03
REVISED: 10:34:43 03/09/2022
TDR: 000001187335
MODEL NO. 35LYY525
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 143-5T OPEN 35LC W/2 POLE "W" BASE & 1.09 LEAD HOLE
SH 1 of 1
35LYY525

CD0016A01



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4,5	2,3	8,9
HIGH OPP	1	4,8	2,3	5,9
LOW STD	1,3	2,4,5	8,9	–
LOW OPP	1,3	2,4,8	5,9	–

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.

CD0016A01

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 04/09/99 1:19	TDR: 0178636
CD0016A01		FILE: AAA00007410	MDL: –
		MTL: –	TYPE LC, DV, REV, OIL CAP ACR. LINE, 7 LEADS