ABB BALDOR RELIANCE

Customer information packet

EBM3554T-S

1.5HP, 1750RPM, 3PH, 60HZ, 145TY, 3526M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TY
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CE
	CURUSEEV
	NEMA PREMIUM
	UKCA
	WEEE
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	4.500 A @ 230.0 V
	2.250 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	A
Type	AC
Mech. spec.	35X162
Base	
Status	PRD/A
Elec. spec.	35WGG524
Layout	35LYX162
Eff. date	01-07-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-03-2024

Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	15.40 IN
Power Factor	73
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	0.875 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	None
Winding Thermal 2	None

Nameplate

NP2934L									
CAT.NO.	EBM3554T-S								
SPEC.	35X162G524G1								
HP	1.5								
VOLTS	230/460								
AMP	4.5/2.25								
R.P.M. (1/MIN)	1750								
FRAME	145TY	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	73						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	**ODE**	6205						
ENCL	TEFC	**SN**							
	IP22, BRK 10 FT-LB								

Parts List

Part number	Description	Quantity
SA431010	SA 35X162G524G1	1.000 ea
RA423230	RA 35X162G524G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB4007	KOBX,W/PRIMER (WAS REL# 79097-49-C)	1.000 ea
35GS3023	GASKET FOR KOBX 35CB4007, CLSD CELL NEOP	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
WD4101A13	STEEL CAPLUG,BP-1 1/8, PLUG D3561S	1.000 ea
11XT1032G04	10-32 X 1/4" GRD SCREW	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
35EP3123A00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
HW1001A10	WASHER, #10 SPLT LK, ZN X	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
BR2003D01	SPLINED HUB 7/8 W/O KEY, W/SET SCREWS	1.000 ea
35FN3003A02	EXFN, PLASTIC, 5.88 OD, .876 ID (REL)	1.000 ea
35FH4007A01	FAN COVER FOR SHORT SERIES BRAKE, PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
35CB4519	CB LID W/BLACK PRIMER	1.000 ea
35GS3019A01	LEXIDE GASKET, FOR KOBX LID 35CB4519	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
WD4006A01	WIRE JOINT,T&B RB-4 OR RB-44	1.000 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
LB1418	INTEGRAL BRK ADJ LABEL (REL# 41171617A)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1000N49	MUNSELL 8.5BG 3.57/2.0, GLOSS 30, B/G,	0.017 ga
LB1419	CONNECTION LABEL	1.000 ea
HA3100A71	THRUBOLT 10-32 X 9.500	4.000 ea

43BK0300B02	SSB-10-230/460 (205)L-HUB	1.000 ea
LB1424A02	BRAKE VOLT LABEL 230/460V SSB	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2934L	ALUM SUPER-E UL CE UKCA WEEE CC PREM	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 107443
Typical performance - not guaranteed values

Winding: 35WGG524-R006	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.51 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.5/2.25	**Breakdown Torque**	21 LB-FT
R.P.M.			1750	**Pull-up Torque**	14.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.5 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	20.1 A
Service Factor (S.F.)			1.15	**No-load Current**	1.41 A
NEMA Nom. Eff.	86.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	9.85 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps				**Temp. Rise @ S.F. Load**	49°C
				Locked-rotor Power Factor	62.7
				Rotor inertia	0.188 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	51	64	73	78	82	76
Efficiency	75.5	84.3	86.5	86.8	86.3	85.1	86.5
Speed	1788	1777	1765	1753	1740	1726	1745
Line amperes	1.48	1.65	1.92	2.23	2.61	3.03	2.46

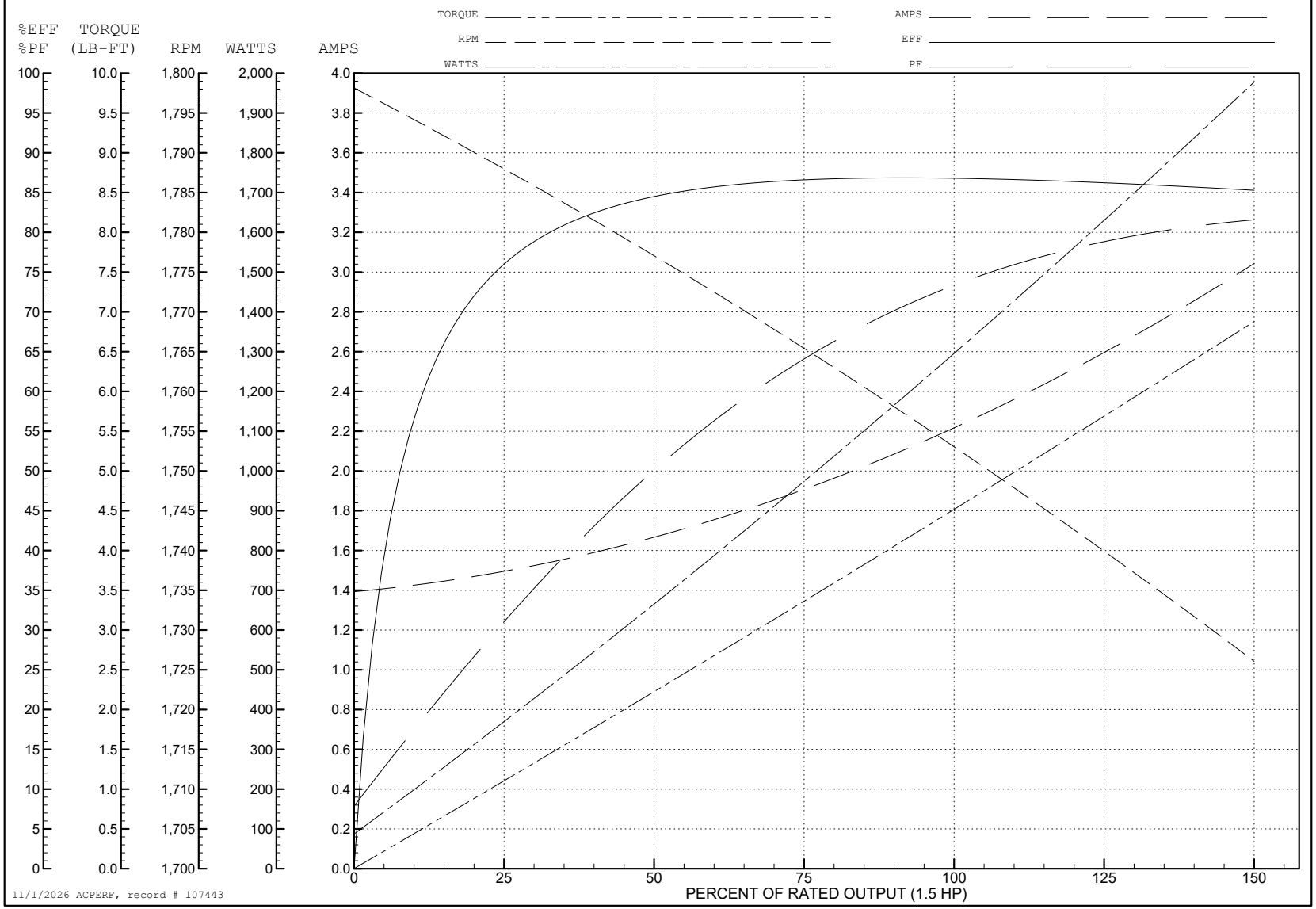
ABB Motors and Mechanical Inc.

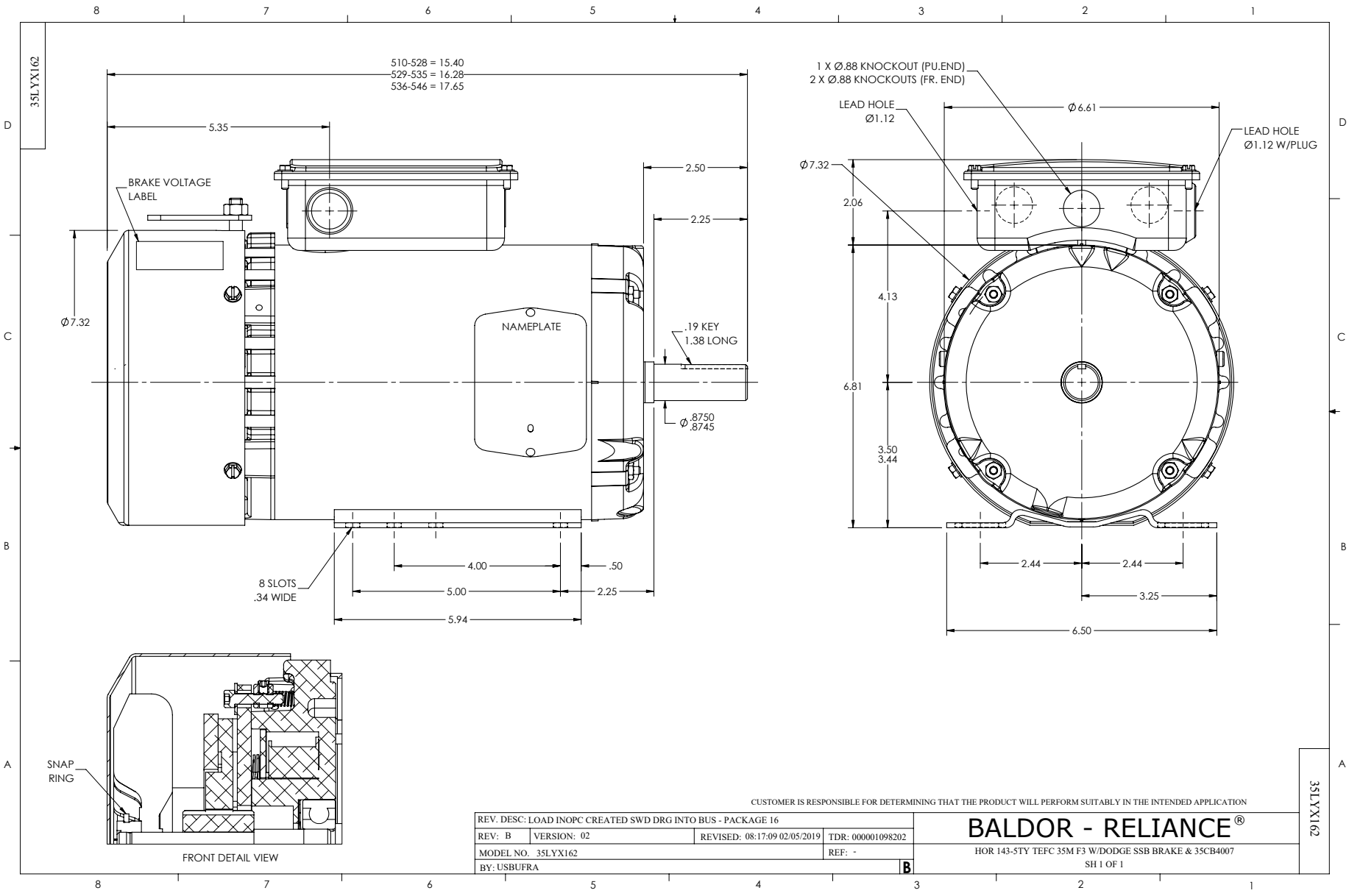
WINDING # 35WGG524

1.5 HP 3 PH 60 HZ 1750 RPM 460 V 3526M

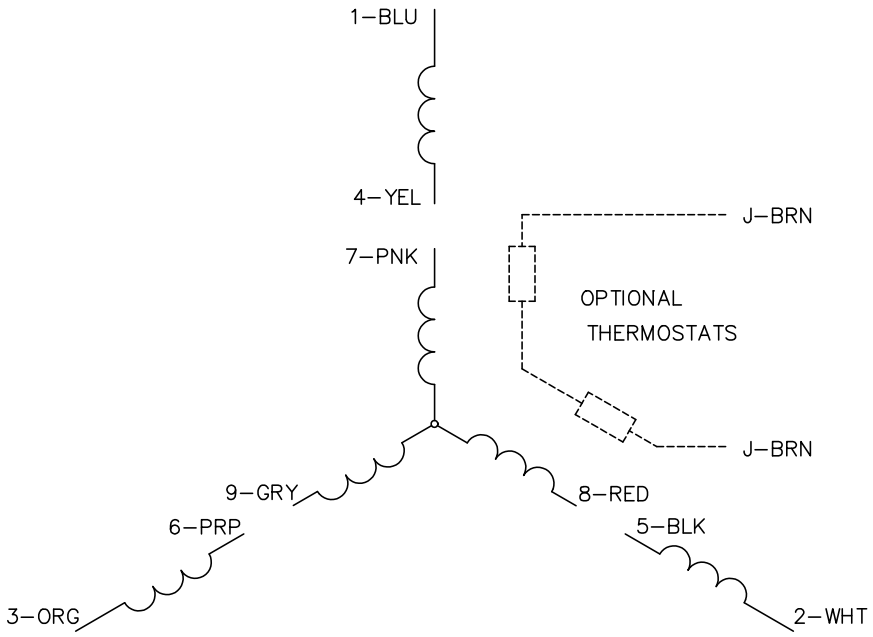
Typical performance - not guaranteed values.

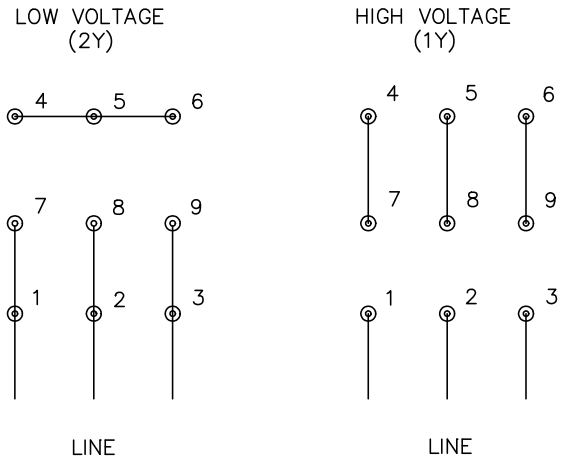
TORQUES(LB-FT): PO=21 PU=14.3 LR=17.5 LRA=20.1




35LYX162
510-528 = 15.40
529-535 = 16.28
536-546 = 17.65
5.35
2.50
2.25
BRAKE VOLTAGE LABEL
Ø7.32
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
8 SLOTS
.34 WIDE
4.00
.50
5.00
2.25
5.94
1 X Ø.88 KNOCKOUT (PU.END)
2 X Ø.88 KNOCKOUTS (FR. END)
LEAD HOLE Ø1.12
Ø6.61
LEAD HOLE Ø1.12 W/PLUG
Ø7.32
2.06
4.13
6.81
3.50
3.44
2.44
2.44
3.25
6.50
SNAP RING
FRONT DETAIL VIEW
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 16
REV: B
VERSION: 02
REVISED: 08:17:09 02/05/2019
TDR: 000001098202
MODEL NO. 35LYX162
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 143-5TY TEFC 35M F3 W/DODGE SSB BRAKE & 35CB4007
SH 1 OF 1
35LYX162

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS