ABB BALDOR RELIANCE

Customer information packet

CESSWDM3558T

2HP, 1760RPM, 3PH, 60HZ, 145TC, 3532M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 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	CURUSEEV
	NEMA PREMIUM
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	2.800 A @ 460.0 V
	5.600 A @ 230.0 V
	6.000 A @ 208.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a

Part Detail

Revision	A
Type	AC
Mech. spec.	35VV818
Base	
Status	PRD/A
Elec. spec.	35WGK632
Layout	35LYVV818
Eff. date	08-19-2025
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-28-2025

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.42 IN
Power Factor	77
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
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	1760 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

NP1953A01									
CAT.NO.	CESSWDM3558T								
SPEC.	35VV818K632G1								
HP	2								
VOLTS	230/460								
AMP	5.6/2.8								
RPM	1760								
FRAME	145TC		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**		H	
NEMA-NOM-EFF	86.5		**PF**	77					
RATING	40C AMB-CONT								
CC	010A								
DE	6205		**ODE**	6203					
ENCL	TEFC	**SN**							
	4:1CT 4:1VT								

Parts List

Part number	Description	Quantity
SA435345	SA 35VV818K632G1	1.000 ea
RA427659	RA 35VV818K632G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB5001A17	KOBX KIT, (ALL STAINLESS) W/ .75 NPT	1.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 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
35EP1913A02	FR EP MADE FROM 35EP1913A01	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW4606A01	JM CLIPPER/SEAL (WDE-0667-1064-BH49)	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1914A02	PU EP FOR LOCKED 6205 BRG	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
12XN1032S22	10-32 X 1 3/8 SLOT HEX, STAINLESS STEEL	2.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	2.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A39	IEC FH NO GREASER DEBURR/CLEAN - SS	1.000 ea
10XN1032S06	HEX HD CAP SCREW, SS	3.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
HA3100S19	THRUBOLT,10X32 - 9.812 SS	4.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000007	ZRTG FE ASSEMBLY	1.000 ea

PE-0000012	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 111071
Typical performance - not guaranteed values

Winding: 35WGK632-R001	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			2
Volts			230/460
Full Load Amps			5.6/2.8
R.P.M.			1760
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	86.5	**Power Factor**	77
Rating - Duty			40C AMB-CONT
S.F. Amps			6.3/3.15

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	6.01 LB-FT
Start Configuration	direct on line
Breakdown Torque	22.9 LB-FT
Pull-up Torque	12.9 LB-FT
Locked-rotor Torque	16.3 LB-FT
Starting Current	24.4 A
No-load Current	1.55 A
Line-line Res. @ 25ºC	8.6033 Ω
Temp. Rise @ Rated Load	66°C
Temp. Rise @ S.F. Load	81°C
Locked-rotor Power Factor	53.6
Rotor inertia	0.231 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	57	70	78	82	85	80
Efficiency	78.6	85.5	86.9	86.6	85.5	84	85.9
Speed	1789.9	1780.7	1770.8	1760.2	1748.4	1735.8	1753
Line amperes	1.67	1.94	2.33	2.81	3.35	3.94	3.13

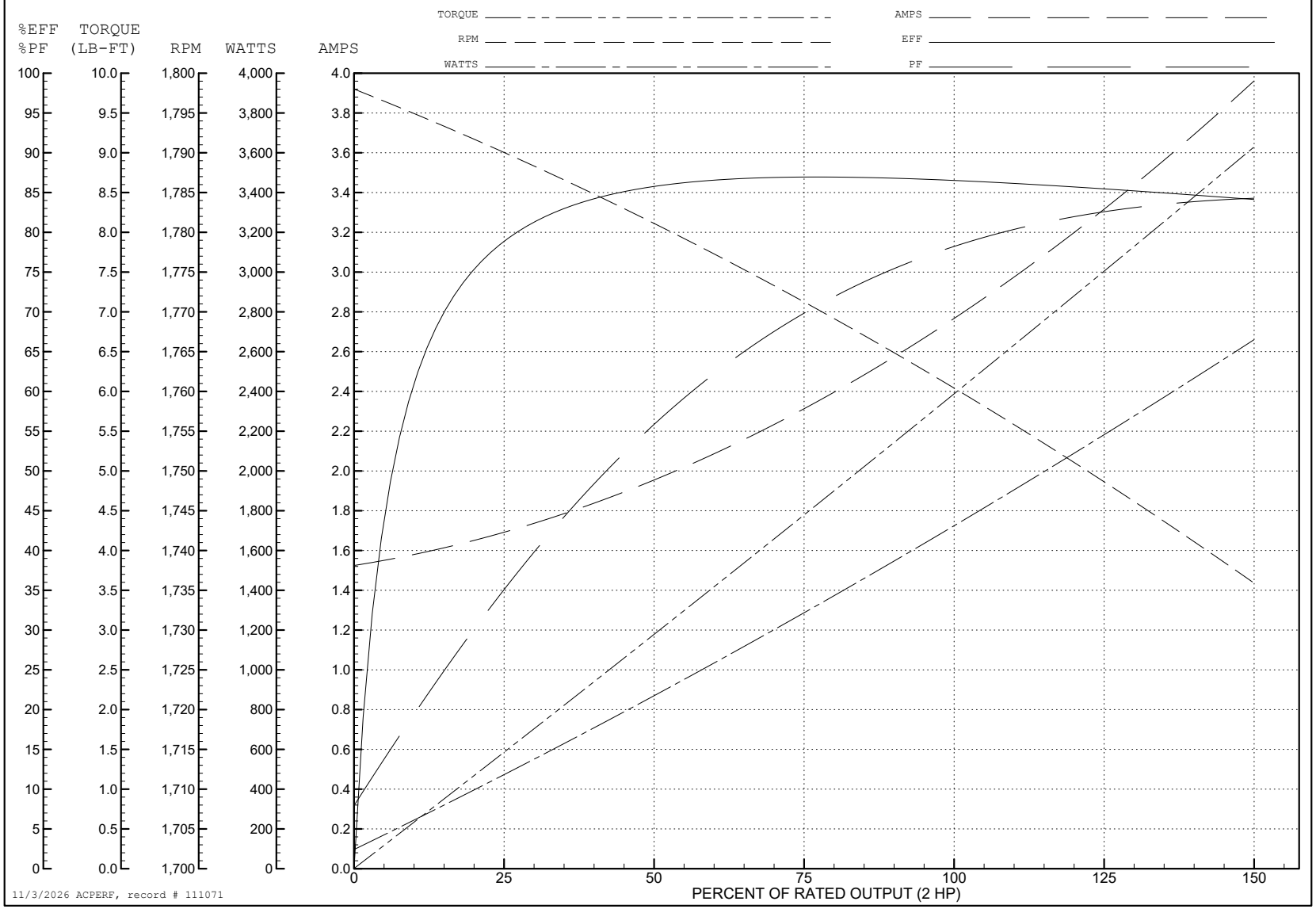
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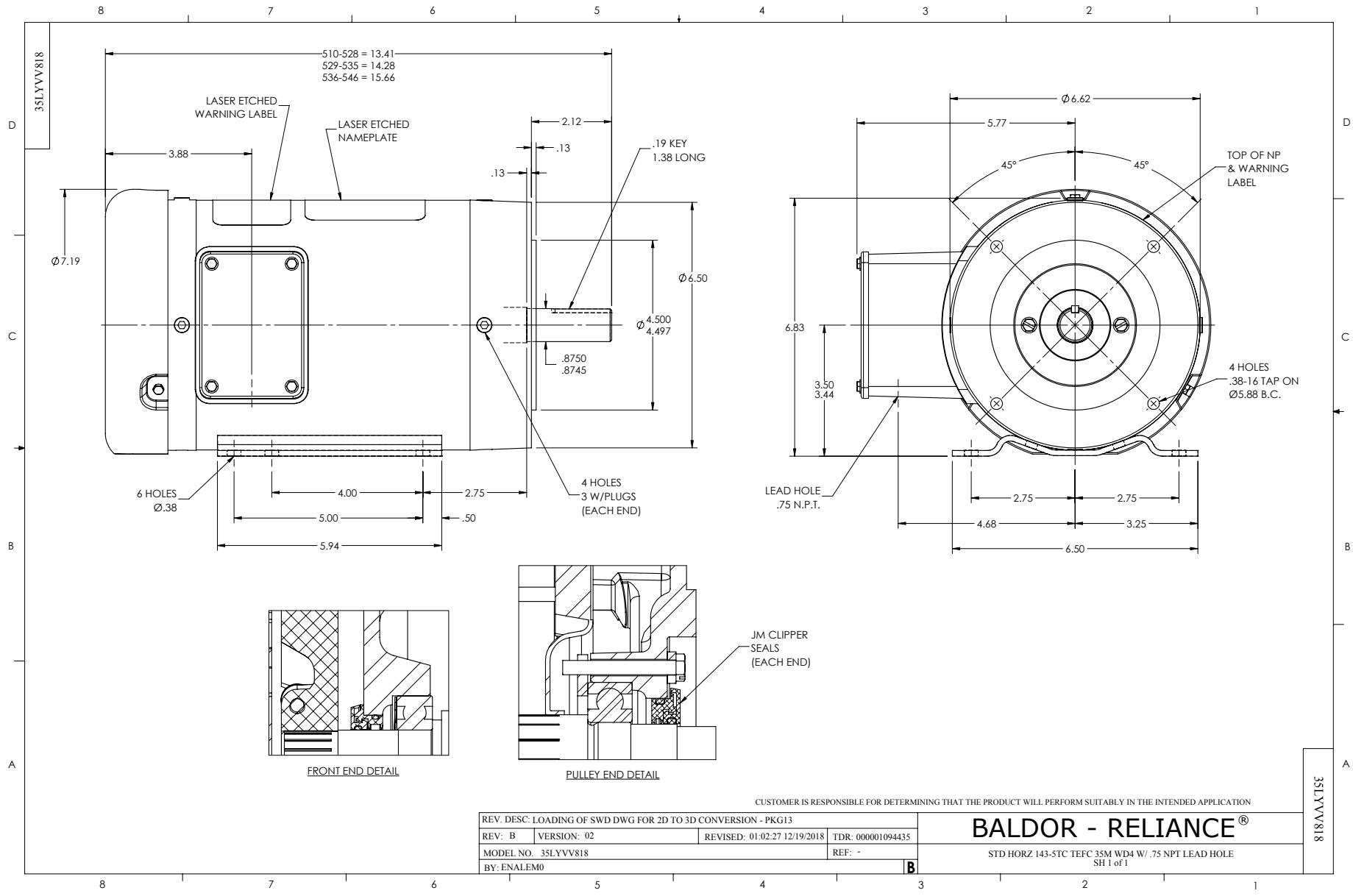
WINDING # 35WGK632

2 HP 3 PH 60 HZ 1760 RPM 460 V 3532M

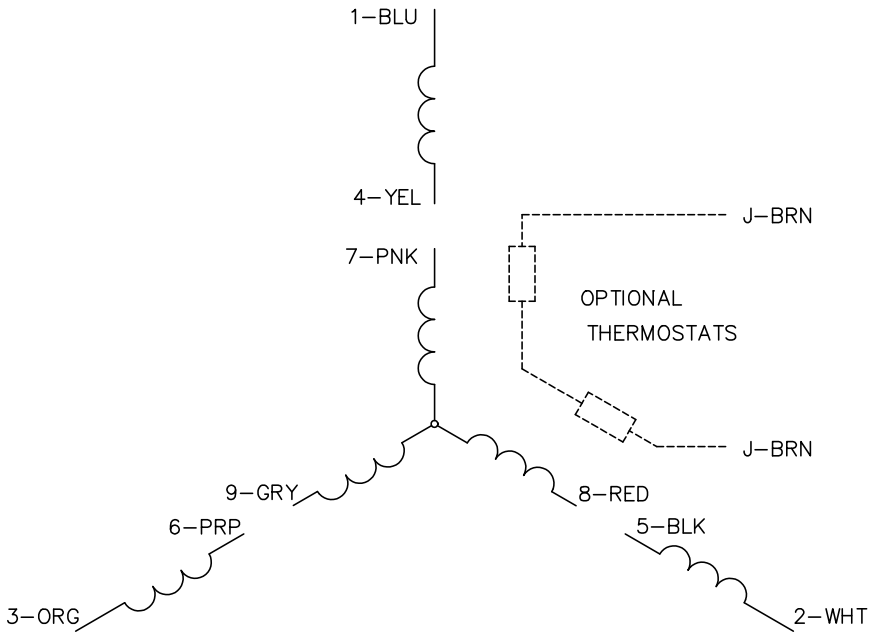
Typical performance - not guaranteed values.

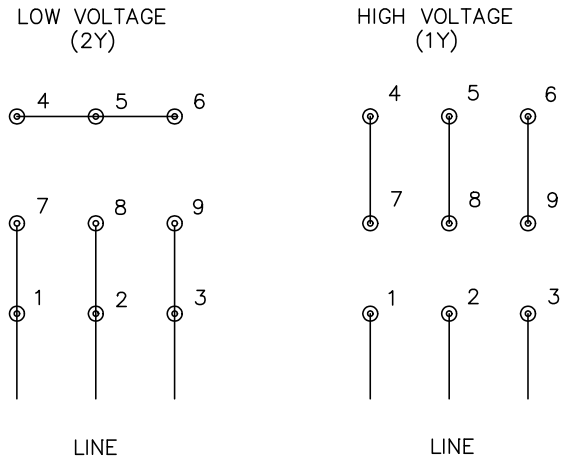
TORQUES(LB-FT): PO=22.9 PU=12.9 LR=16.3 LRA=24.4




35LYVV818
510-528 = 13.41
529-535 = 14.28
536-546 = 15.66
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
3.88
2.12
.13
.13
.19 KEY 1.38 LONG
Ø7.19
Ø6.50
Ø 4.500 4.497
.8750 .8745
6 HOLES Ø.38
4.00
2.75
5.00
.50
5.94
4 HOLES 3 W/PLUGS (EACH END)
Ø6.62
5.77
45°
45°
TOP OF NP & WARNING LABEL
6.83
3.50 3.44
4 HOLES .38-16 TAP ON Ø5.88 B.C.
LEAD HOLE .75 N.P.T.
2.75
2.75
4.68
3.25
6.50
FRONT END DETAIL
PULLEY END DETAIL
JM CLIPPER SEALS (EACH END)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG13
REV: B
VERSION: 02
REVISED: 01:02:27 12/19/2018
TDR: 000001094435
MODEL NO. 35LYVV818
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 143-5TC TEFC 35M WD4 W/ .75 NPT LEAD HOLE
SH 1 of 1
35LYVV818

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