ABB BALDOR RELIANCE

Customer information packet

FDEM4108T

30HP, 3520RPM, 3PH, 60HZ, 286TS, 0950M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	286TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	68.000 A @ 230.0 V
	74.000 A @ 208.0 V
	34.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	M
Type	AC
Mech. spec.	09L813
Base	
Status	PRD/A
Elec. spec.	09WGT474
Layout	09LYL813
Eff. date	12-16-2025
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	11-09-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	34.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0950M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.71 IN
Power Factor	89
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	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 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

NP3126L									
CAT.NO.	FDEM4108T								
SPEC.	09L813T474G1								
HP	30								
VOLTS	230/460								
AMP	68/34								
RPM	3520								
FRAME	286TS	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	89						
RATING	40C AMB-CONT								
CC	010A								
DE	6311	**ODE**	6208						
ENCL	TEFC	**SN**							

Parts List

Part number	Description	Quantity
SA347594	SA 09L813T474G1	1.000 ea
RA336151	RA 09L813T474G1	1.000 ea
09FN3001D01SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 ea
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
09EP1100A198	ENDPLATE, MACH	1.000 ea
HA3400A33	STUD- 3/8-16 X 4.96 HEX	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
09EP1116A33	PU ENDPLATE, MACH FOR LIP SEAL,"O" DRAIN	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW4600A53	SEAL 2.00 X 3.00 X 0.313 SINGLE LIP	1.000 ea
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
09FH4000SP	309 FH - BLACK PRIMER	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10CB3500	CONDUIT BOX LID, CAST	1.000 ea
10GS1000	GASKET, CONDUIT BOX LID	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 ea
HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb

HA4066A01	PUSH IN T-DRAIN FITTING (BLACK)	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP3126L	ALUM FARM DUTY SUPER-E UL CSA-EEV PREM	1.000 ea
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LD7020E09	LEAD SET, 10AWG, 9 LEAD, 20" LONG LEADS	1.000 ea

AC Induction Motor Performance Data
Record # 67631
Typical performance - not guaranteed values

Winding: 09WGT474-R001	**Type:** 0950M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	44.65 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			68/34	**Breakdown Torque**	173 LB-FT
R.P.M.			3520	**Pull-up Torque**	87.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	104 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	283 A
Service Factor (S.F.)			1.15	**No-load Current**	10.9 A
NEMA Nom. Eff.	91.7	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.2527 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	79°C
S.F. Amps				**Temp. Rise @ S.F. Load**	97°C
				Locked-rotor Power Factor	28

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	78	86	89	90	91	90
Efficiency	87.7	91.8	92.4	92.1	91.3	90.2	91.6
Speed	3580.7	3562.2	3542.3	3521	3497.7	3471	3507
Line amperes	13.7	19.4	26.4	34.2	42.4	51.3	39.1

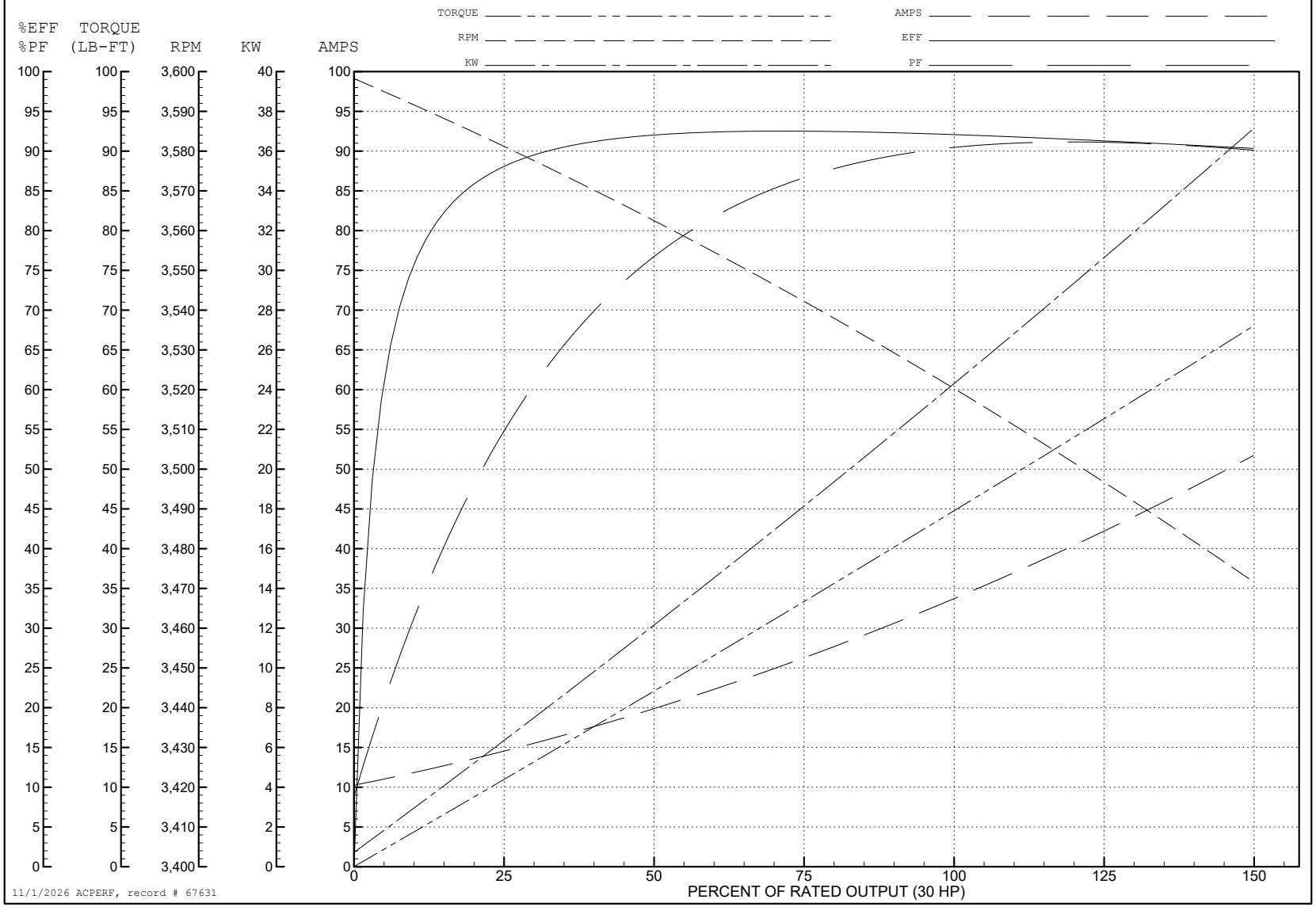
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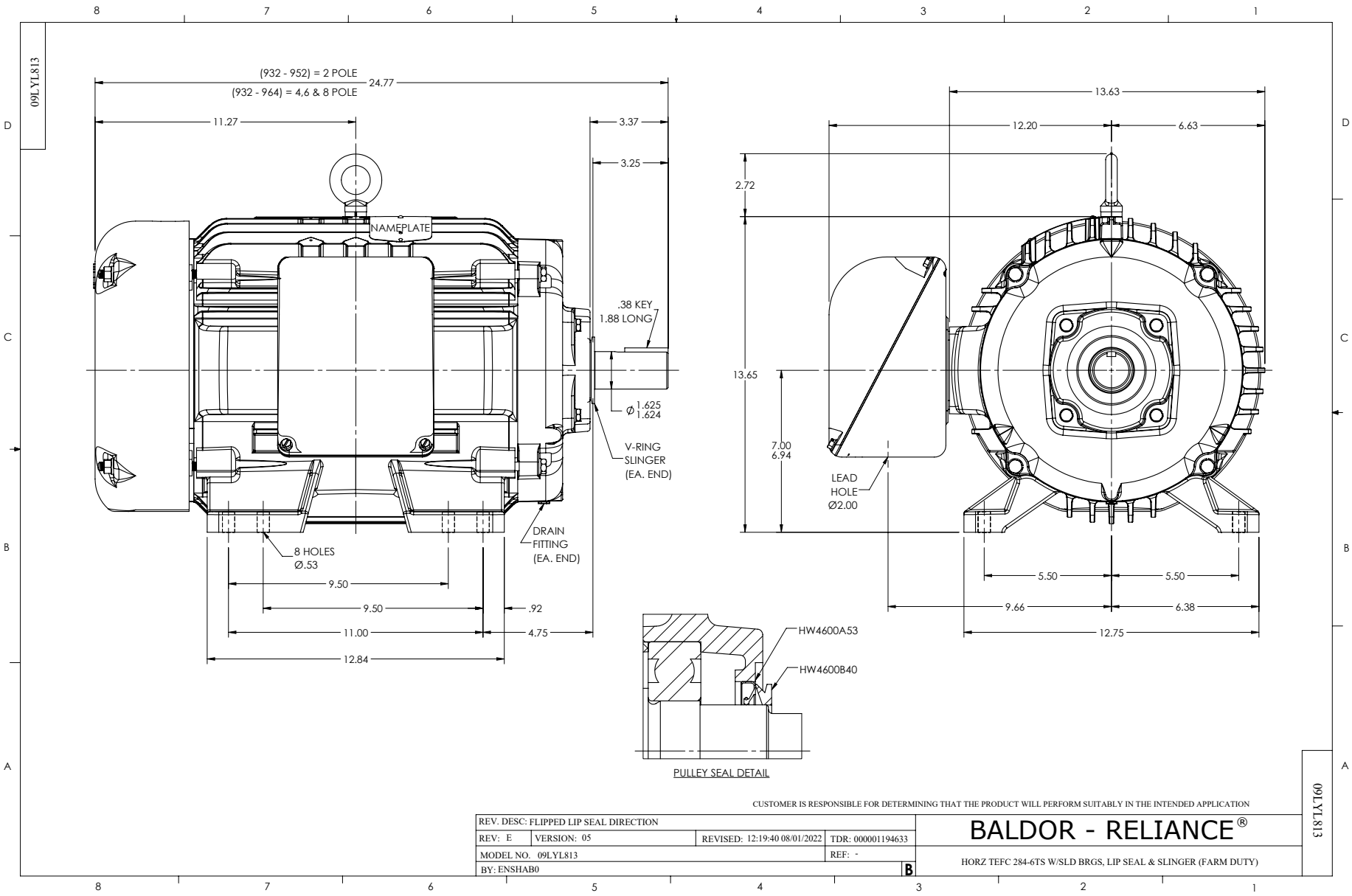
WINDING # 09WGT474

30 HP 3 PH 60 HZ 3520 RPM 460 V 0950M

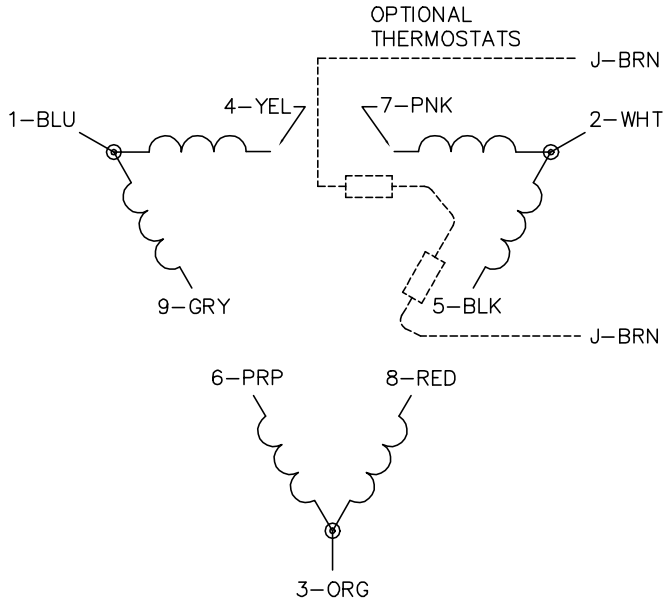
Typical performance - not guaranteed values.

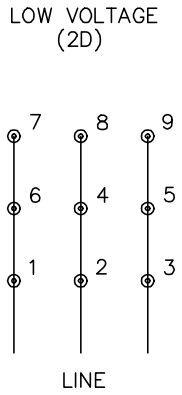
TORQUES(LB-FT): PO=173 PU=87.6 LR=104 LRA=283

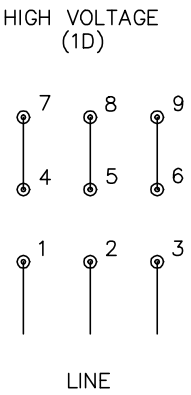



09LYL813
(932 - 952) = 2 POLE
(932 - 964) = 4,6 & 8 POLE
24.77
11.27
3.37
3.25
NAMEPLATE
.38 KEY
1.88 LONG
Ø 1.625
1.624
V-RING
SLINGER
(EA. END)
DRAIN
FITTING
(EA. END)
8 HOLES
Ø.53
9.50
9.50
.92
11.00
4.75
12.84
13.63
12.20
6.63
2.72
13.65
7.00
6.94
LEAD
HOLE
Ø2.00
5.50
5.50
9.66
6.38
12.75
HW4600A53
HW4600B40
PULLEY SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FLIPPED LIP SEAL DIRECTION
REV: E
VERSION: 05
REVISED: 12:19:40 08/01/2022
TDR: 000001194633
MODEL NO. 09LYL813
REF: -
BY: ENSHAB0
B
BALDOR - RELIANCE®
HORZ TEFC 284-6TS W/SLD BRGS, LIP SEAL & SLINGER (FARM DUTY)
09LYL813

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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