ABB BALDOR RELIANCE

Customer information packet

EM2535T-CI

30HP, 1775RPM, 3PH, 60HZ, 286T, 1052M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	286T
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	76.000 A @ 208.0 V
	76.000 A @ 230.0 V
	38.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	K
Type	AC
Mech. spec.	10D01
Base	
Status	PRD/A
Elec. spec.	10WGZ654
Layout	10LYD001
Eff. date	06-27-2024
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	06-30-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
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	1052M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.94 IN
Power Factor	77
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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

NP3554LUA												
CAT.NO.	EM2535T-CI			**P/N**						**ENCL**	OPEN	
SPEC.	10D001Z654G1	**CC**	010A	**FRAME**	286T			**SER.NO.**				
HP	30		**CLASS**	F	**HZ**	60						
RPM	1775		**PH**	3	**DES**	A						
VOLTS	230/460			**CODE**	H		**ODE BRG**	6309	**DE BRG**	6310		
AMPS	76/38											
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	94.1			**GREASE**	POLYREX EM			
PF	77	**SER.F.**	1.15				**CT30-60(2:1) VT3-60(20:1)**					
USABLE AT	50HZ 30HP 190/380V 88/44A			SF 1.0								
HTR-VOLTS	**HTR-AMPS**			**MAX. SPACE HEATER TEMP.**								

Parts List

Part number	Description	Quantity
SA340927	SA 10D001Z654G1	1.000 ea
RA329300	RA 10D001Z654G1	1.000 ea
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	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
10EP1200A04	ENDPLATE, MACH	1.000 ea
10AD2000A02	AIR DEFLECTOR, STAT	1.000 ea
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	3.000 ea
10XN3816K76	3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
10XN3118K32	5/16-18 X 2.00" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10EP1200A03	ENDPLATE, MACH PU	1.000 ea
10XN3816K76	3/8-16 X 4.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10XN3118K32	5/16-18 X 2.00" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
10AD2000A02	AIR DEFLECTOR, STAT	1.000 ea
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	3.000 ea
10CB3500	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.125 ga
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea

HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP3554LUA	SS SUPER-E VPWM INV READY,CURUS-EEV,PREM	1.000 ea
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data
Record # 66162
Typical performance - not guaranteed values

Winding: 10WGZ654-R001	**Type:** 1052M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	88.57 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			78/39	**Breakdown Torque**	302 LB-FT
R.P.M.			1770	**Pull-up Torque**	128 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	166 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	254 A
Service Factor (S.F.)			1.15	**No-load Current**	19.1 A
NEMA Nom. Eff.	94.1	**Power Factor**	77	**Line-line Res. @ 25ºC**	0.22704 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps				**Temp. Rise @ S.F. Load**	39°C
				Locked-rotor Power Factor	32.4

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	60	72	78	82	83	80
Efficiency	89.4	93.3	94.2	94.2	93.9	93.3	94
Speed	1794	1789.1	1783.8	1778.2	1772.3	1765.7	1775
Line amperes	20.9	25.2	31.1	38	45.8	54.3	42.7

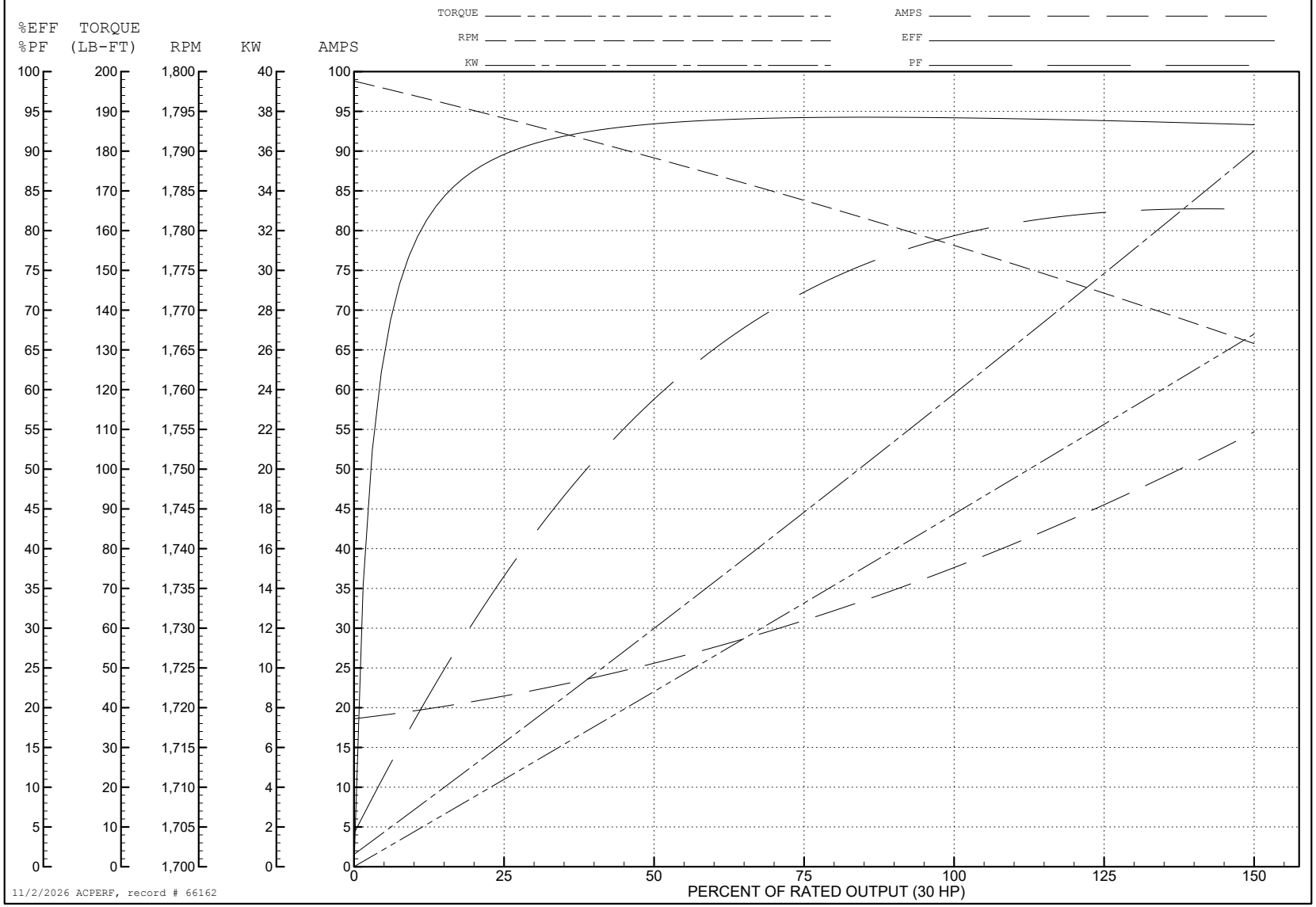
ABB Motors and Mechanical Inc.

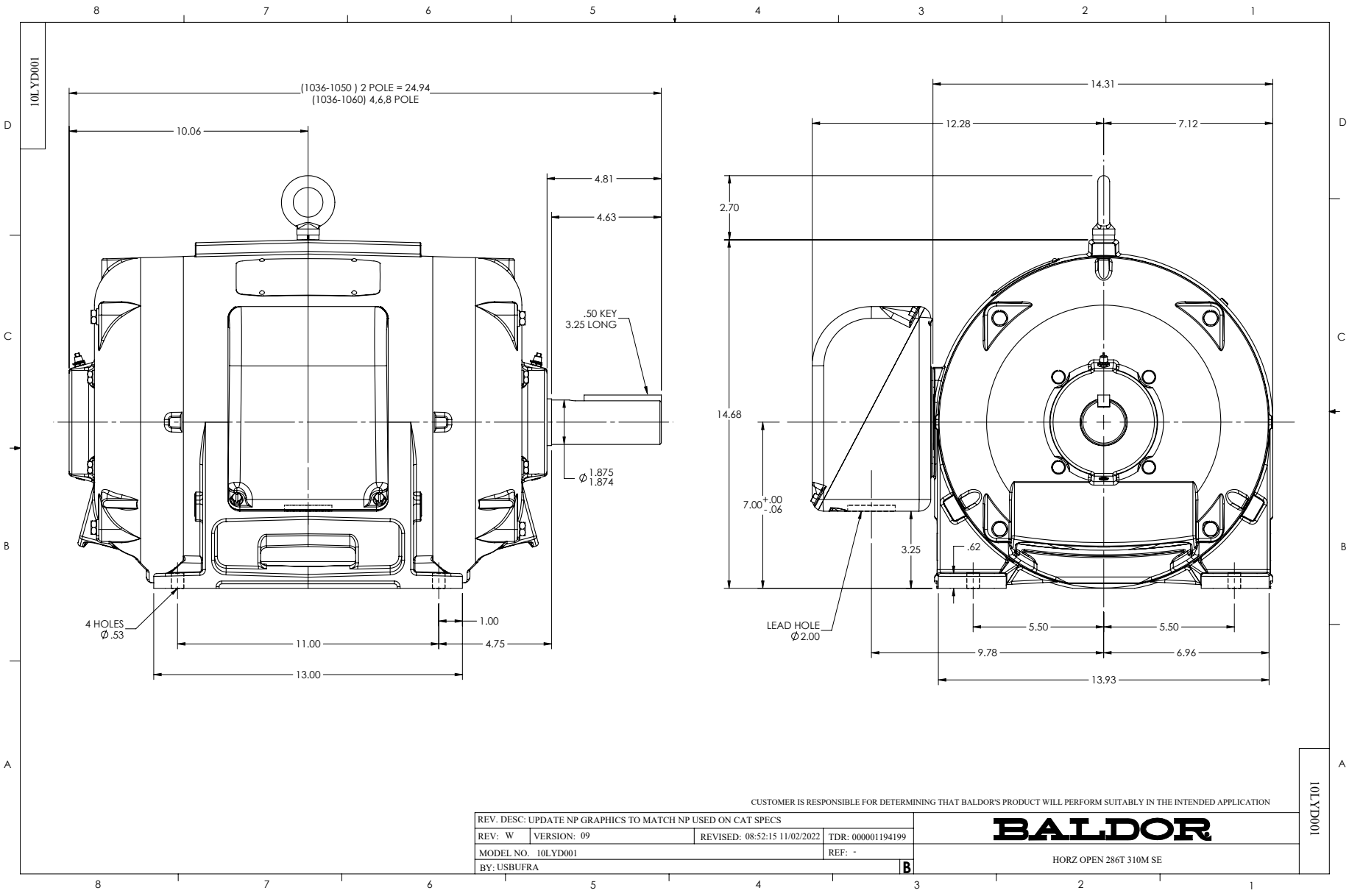
WINDING # 10WGZ654

30 HP 3 PH 60 HZ 1770 RPM 460 V 1052M

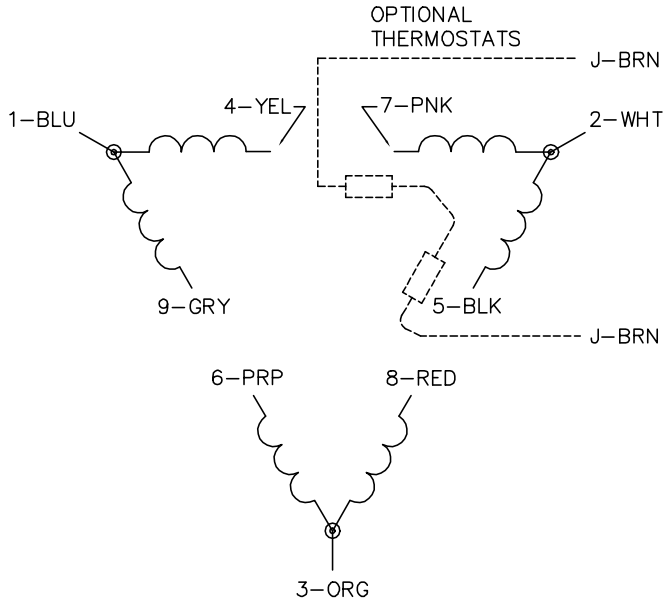
Typical performance - not guaranteed values.

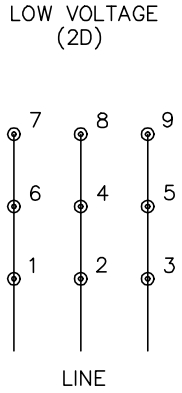
TORQUES(LB-FT): PO=302 PU=128 LR=166 LRA=254

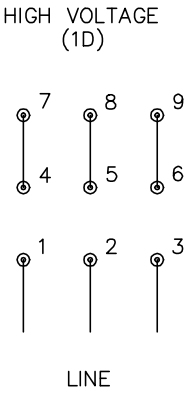



10LYD001
(1036-1050) 2 POLE = 24.94
(1036-1060) 4,6,8 POLE
10.06
4.81
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
4 HOLES
Ø .53
1.00
11.00
4.75
13.00
14.31
12.28
7.12
2.70
14.68
7.00 +.00 -.06
3.25
.62
LEAD HOLE
Ø 2.00
5.50
5.50
9.78
6.96
13.93
CUSTOMER IS responsible FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: W
VERSION: 09
REVISED: 08:52:15 11/02/2022
TDR: 000001194199
MODEL NO. 10LYD001
REF: -
BY: USBUFRA
B
BALDOR
HORZ OPEN 286T 310M SE
10LYD001

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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