ABB BALDOR RELIANCE

Customer information packet

EWDM4116T

25HP, 880RPM, 3PH, 60HZ, 326T, 1272M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	326T
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CSA EEV
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	38.000 A @ 460.0 V
	76.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	12P064
Base	
Status	PRD/A
Elec. spec.	12WGZ325
Layout	12LYP064
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	08
Leads	9#10
Proprietary	False
Created date	04-18-2023

High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	30.28 IN
Power Factor	67
Product Family	Washdown Features
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	880 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

NP1669L									
CAT.NO.	EWDM4116T								
SPEC.	12P064Z325								
HP	25								
VOLTS	230/460								
AMP	76/38								
RPM	880								
FRAME	326T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	G	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	90.2	**PF**	67						
RATING	40C AMB-CONT								
CC	010A								
DE	6312	**ODE**	6311						
ENCL	TEFC	**SN**							
BLANK	10:1 CT/VT								

Parts List

Part number	Description	Quantity
SA413520	SA 12P064Z325	1.000 ea
RA405233	RA 12P064Z325	1.000 ea
10FN3001A02	310 FAN, PLASTIC 2.000 DIA. BORE	1.000 ea
10CB1000A203P	KOBX W/2.00 NPT & .31 GND MTG, EPOXY PRI	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	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
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 ea
12EP1107A12WP	FREP TENV 324-6T NO GREASERS W/WHITE EPO	1.000 ea
HA3400S08	STUD 1/2-13X7.75 HEX SS WELKER	4.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 ea
12EP1106A12P	PU ENDPLATE, MACH W/EPOXY PRIMER (NO GRE	1.000 ea
10XN3118S40	5/16-18X2 1/2 HEX HD SS	4.000 ea
10XN5013S28	1/2-13X1 3/4 HEX SS CAP	4.000 ea
12FH1002WP	FAN COVER, W/WHITE EPOXY, PRIMED CASTING	1.000 ea
XY5013S12	1/2-13 HEX R.H. NUT ST.S	4.000 ea
HW1001S50	WASHER, 1/2 SPLT LK, STAINLESS STEEL	4.000 ea
10CB1500P	CONDUIT BOX LID, CAST W/EPOXY PRIMER	1.000 ea
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 ea
10XN2520S12	BOLT 1/4 - 20X 3/4 HEX HEAD SS (F/S)	4.000 ea
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	4.000 ea
HW4600B34	SINGLE LIP SEAL 2.250 X 2.997 X .438,DBL	1.000 ea
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 ea
HW2502H33	#303 SS,SQ KEY 1/2 X 3.875	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 lb
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 ea

HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.125 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LC0005E01	SPL CONN.DIA./WARN.LABEL(LC0005/LB1119)	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
12PA1000	PACKAGING GROUP PRINT PK1024A08	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data
Record # 95264
Typical performance - not guaranteed values

Winding: 12WGZ325-R001	**Type:** 1272M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			25	**Full Load Torque**	149 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			76/38	**Breakdown Torque**	352 LB-FT
R.P.M.			880	**Pull-up Torque**	183 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	210 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	180 A
Service Factor (S.F.)			1.15	**No-load Current**	22.59 A
NEMA Nom. Eff.	90.2	**Power Factor**	67	**Line-line Res. @ 25ºC**	0.263 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
S.F. Amps				**Temp. Rise @ S.F. Load**	72°C
				Locked-rotor Power Factor	32.8
				Rotor inertia	9.59 lb-ft²

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	48	60	67	71	72	69
Efficiency	86	90.6	91.3	91	90	88.4	90.4
Speed	895	890	885	879	873	865	875
Line amperes	23.64	26.97	31.98	38.33	45.98	55.16	42.9

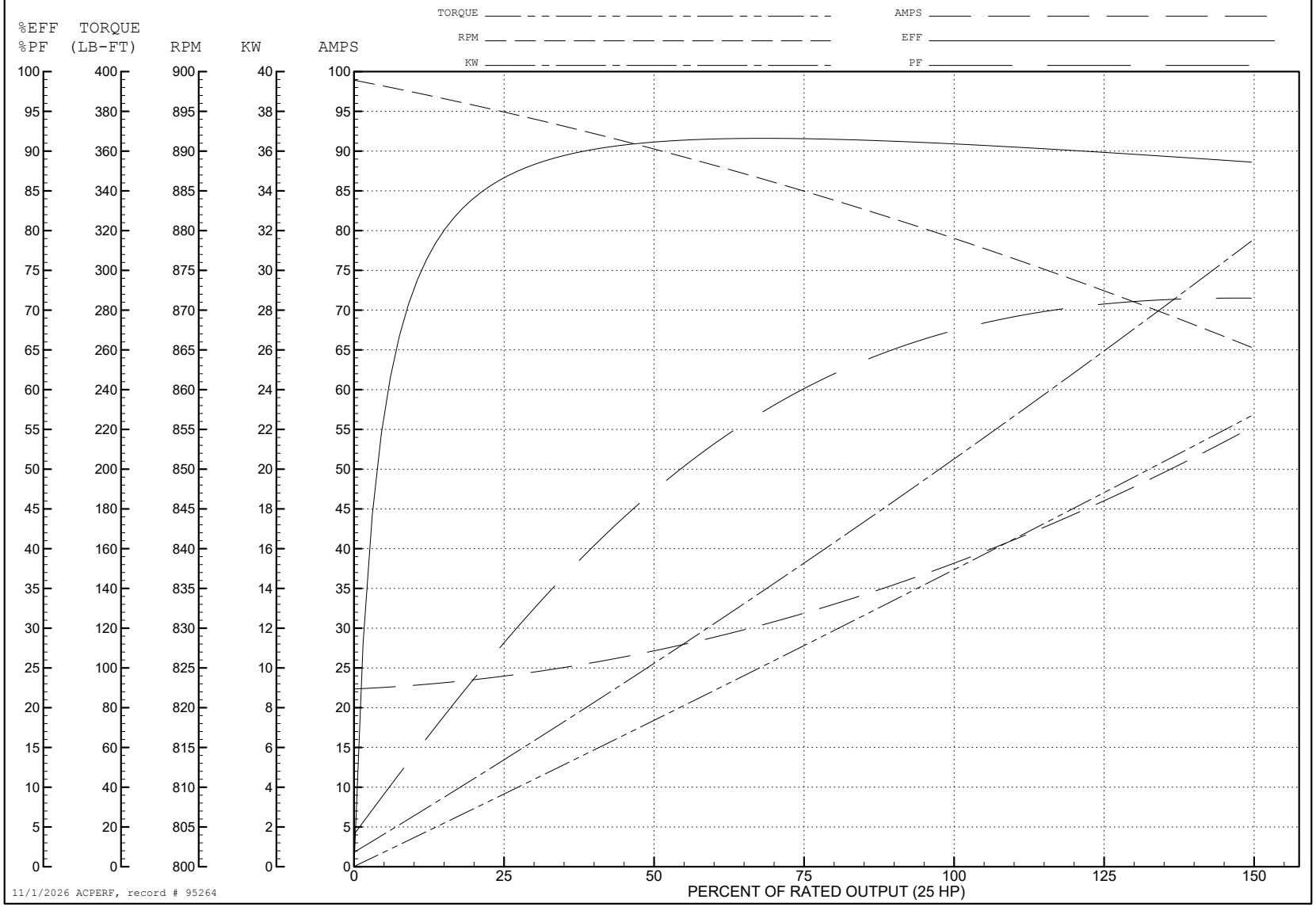
ABB Motors and Mechanical Inc.

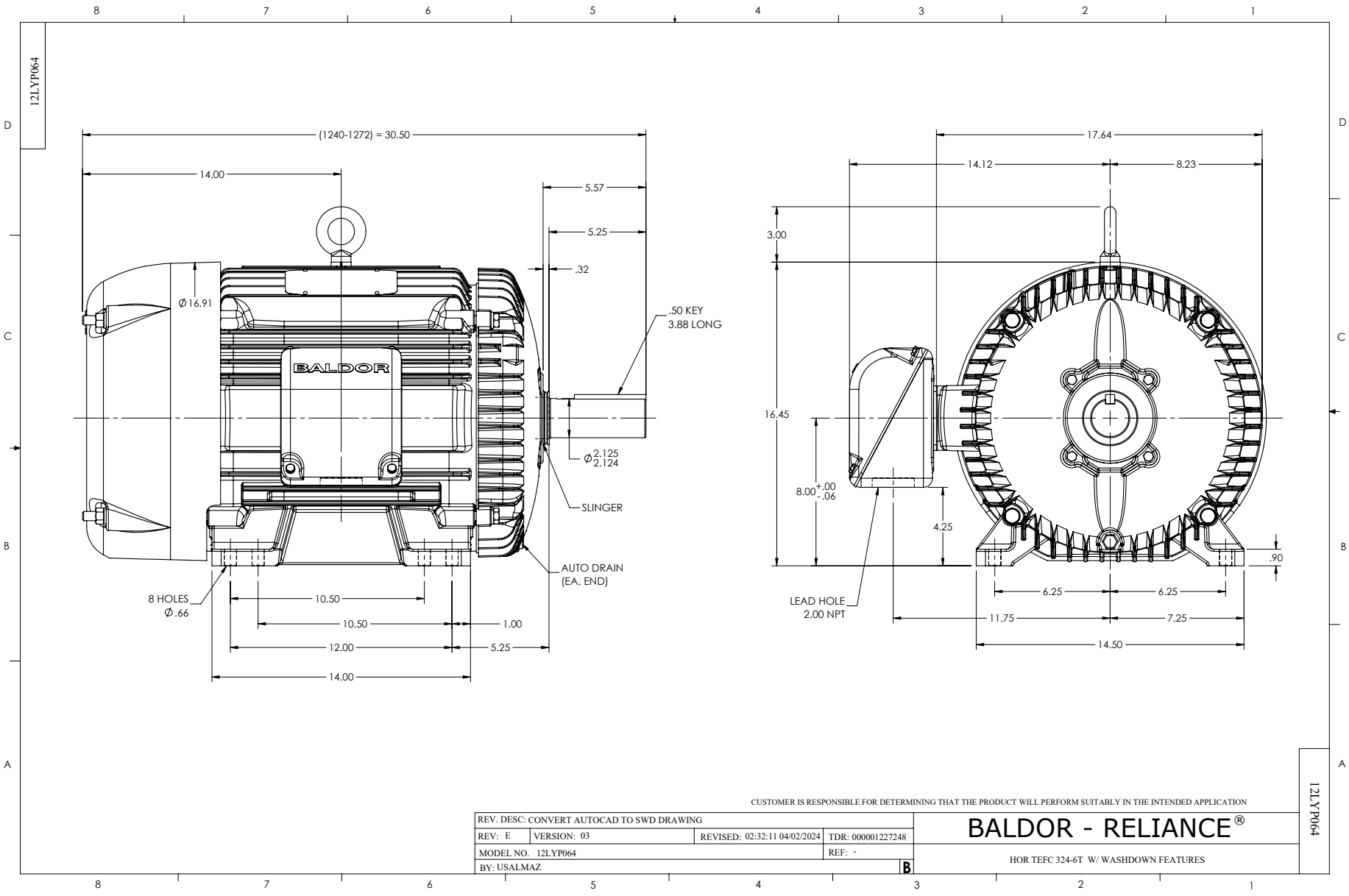
WINDING # 12WGZ325

25 HP 3 PH 60 HZ 880 RPM 460 V 1272M

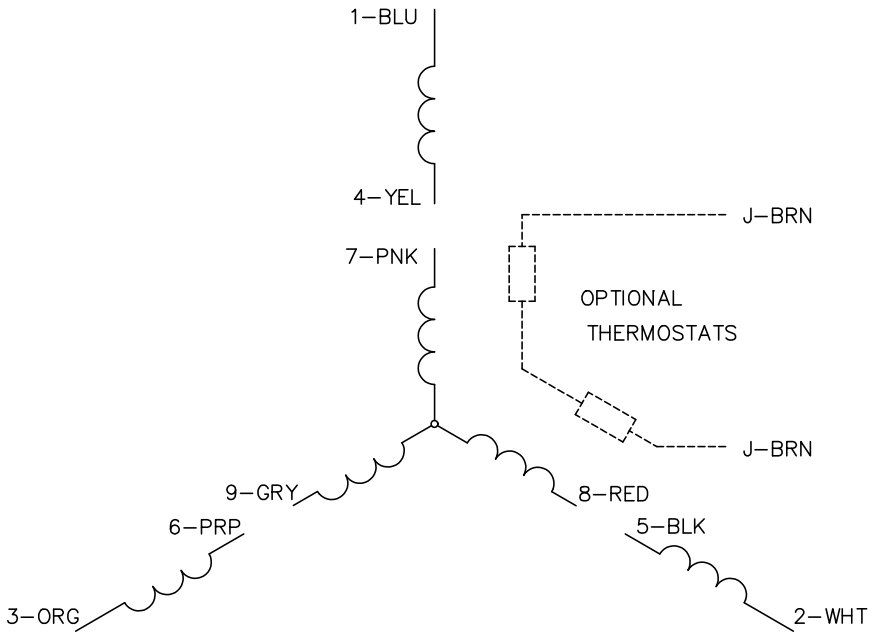
Typical performance - not guaranteed values.

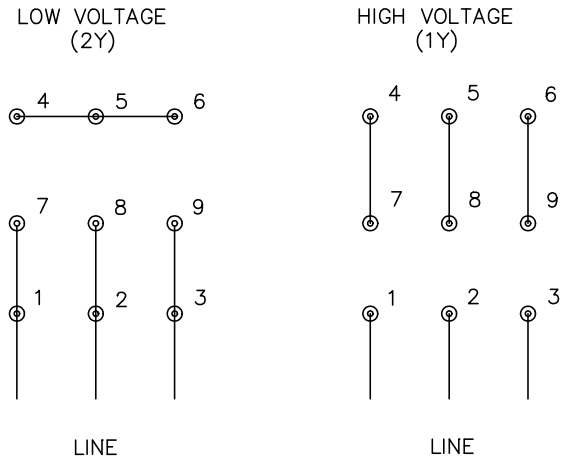
TORQUES(LB-FT): PO=352 PU=183 LR=210 LRA=180




12LYP064
(1240-1272) = 30.50
14.00
5.57
5.25
.32
Ø16.91
.50 KEY
3.88 LONG
BALDOR
Ø2.125
2.124
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
17.64
14.12
8.23
3.00
16.45
8.00 +.00 -.06
4.25
.90
LEAD HOLE
2.00 NPT
6.25
6.25
11.75
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: E
VERSION: 03
REVISED: 02:32:11 04/02/2024
TDR: 000001227248
MODEL NO. 12LYP064
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR TEFC 324-6T W/ WASHDOWN FEATURES
12LYP064

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