ABB BALDOR RELIANCE

Customer information packet

EWDM4115T

50HP, 1770RPM, 3PH, 60HZ, 326T, TEFC, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/1/2026 8:45:51 PM

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	50.000 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	CSA EEV
	NEMA PREMIUM
	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	57.000 A @ 460.0 V
	114.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	57.0 a

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY627
Layout	12LYP064
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	08-21-2019

Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.28 IN
Power Factor	87
Product Family	Washdown Features
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 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.	EWDM4115T								
SPEC.	12-0000-0985								
HP	50								
VOLTS	230/460 20:1 CT/VT								
AMP	114/57								
RPM	1770								
FRAME	326T	**HZ**	60			**PH**	3		
SER.F.	1.00	**CODE**	G	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	94.5	**PF**	87						
RATING	40C AMB-CONT								
CC	010A								
DE	6312	**ODE**	6311						
ENCL	TEFC	**SN**							
BLANK	1.15SF ON SINEWAVE								

Parts List

Part number	Description	Quantity
SA373336	SA 12-0000-0985	1.000 ea
RA363128	RA 12-0000-0985	1.000 ea
LC0005E01	SPL CONN.DIA./WARN.LABEL(LC0005/LB1119)	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
12FH1002WP	FAN COVER, W/WHITE EPOXY, PRIMED CASTING	1.000 ea
HW1001S50	WASHER, 1/2 SPLT LK, STAINLESS STEEL	4.000 ea
XY5013S12	1/2-13 HEX R.H. NUT ST.S	4.000 ea
09FN3001B03SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 lb
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
12EP1107A12WP	FREP TENV 324-6T NO GREASERS W/WHITE EPO	1.000 ea
HA3400S13	303 S.S. STUD, 1/2-13 X 7" WELKER	4.000 ea
HW1001S50	WASHER, 1/2 SPLT LK, STAINLESS STEEL	4.000 ea
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
12EP1106A12P	PU ENDPLATE, MACH W/EPOXY PRIMER (NO GRE	1.000 ea
10XN5013S28	1/2-13X1 3/4 HEX SS CAP	4.000 ea
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 ea
HW4600B34	SINGLE LIP SEAL 2.250 X 2.997 X .438,DBL	1.000 ea
10XN3118S40	5/16-18X2 1/2 HEX HD SS	4.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
10CB1000A377P	KOBX W/2.00 NPT, .38-16 TAP GND	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B19	TERMINAL BURNDY L250HP	1.000 ea
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 ea

HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 ea
10CB1500P	CONDUIT BOX LID, CAST W/EPOXY PRIMER	1.000 ea
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 ea
10XN2520S16	1/4-20 X 1 HEX HEAD SS	4.000 ea
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	4.000 ea
MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.125 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.033 ea
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 ea
12PA1000	PACKAGING GROUP PRINT PK1024A08	1.000 ea
HW2502H33	#303 SS,SQ KEY 1/2 X 3.875	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
51XB1214S20	12-14X1.25 HXWSSLD SERTYB, SS	1.000 ea

AC Induction Motor Performance Data
Record # 56626
Typical performance - not guaranteed values

Winding: 12WGY627-R003	**Type:** 1272M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	148 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			114/57	**Breakdown Torque**	446 LB-FT
R.P.M.			1770	**Pull-up Torque**	183 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	254 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	344 A
Service Factor (S.F.)			1	**No-load Current**	18.3 A
NEMA Nom. Eff.	94.5	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.119 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
				Locked-rotor Power Factor	24.4
				Rotor inertia	9.59 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	58	78	85	87	87	87
Efficiency	92.1	94.7	94.9	94.5	93.9	92.9
Speed	1791	1785	1779	1772	1765	1756
Line amperes	22.3	31.9	43.5	56.9	71.3	87.1

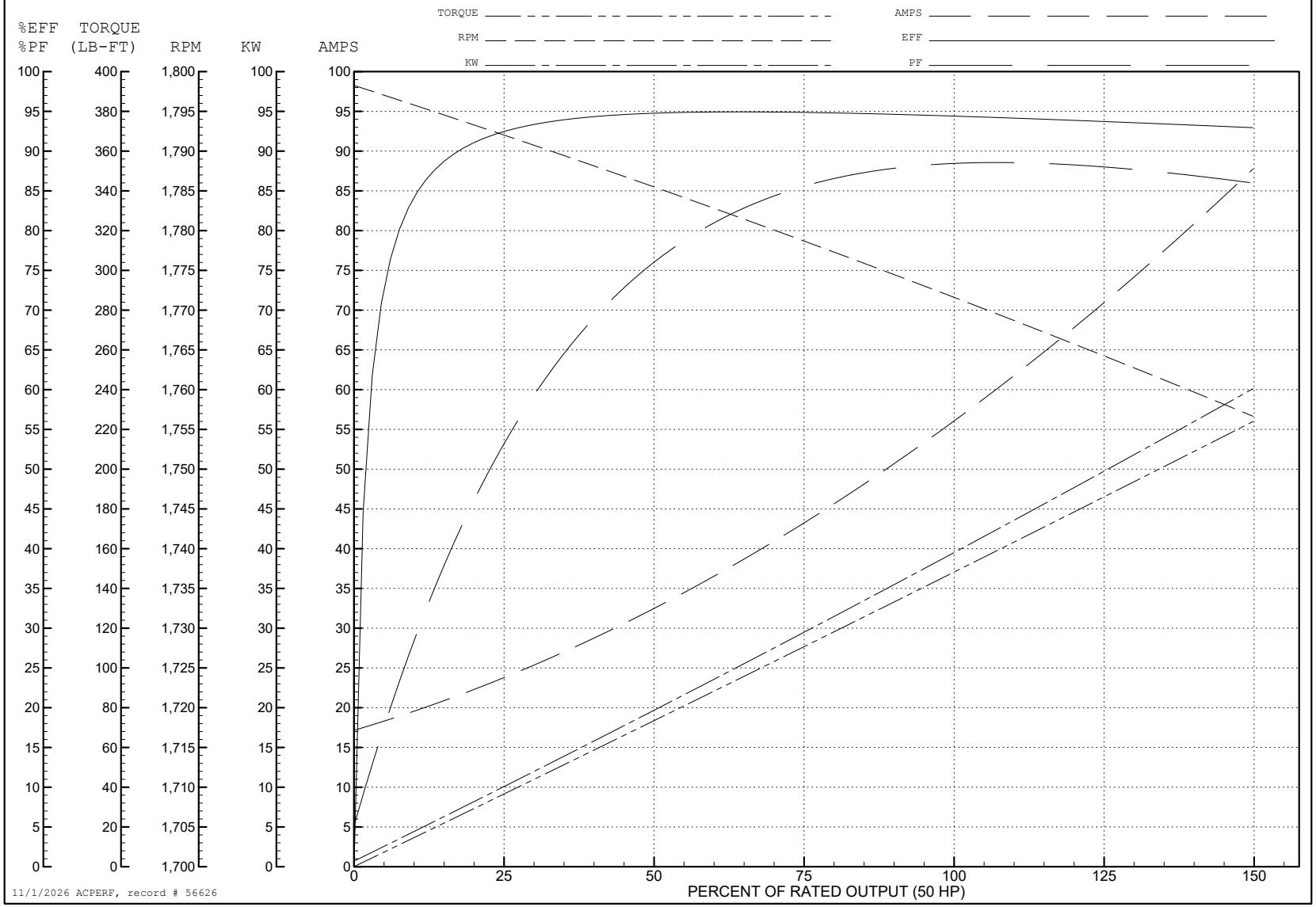
ABB Motors and Mechanical Inc.

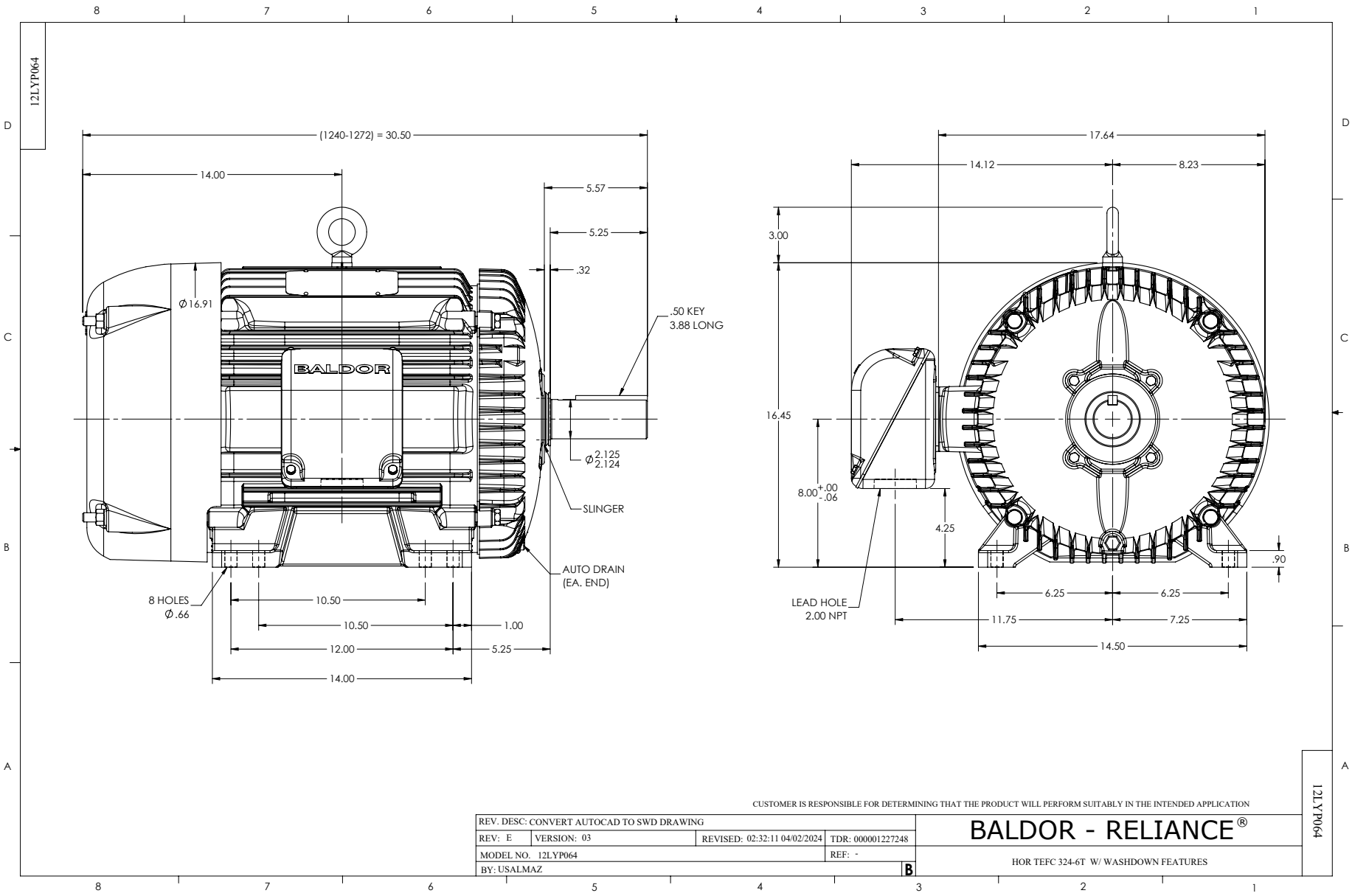
WINDING # 12WGY627

50 HP 3 PH 60 HZ 1770 RPM 460 V 1272M

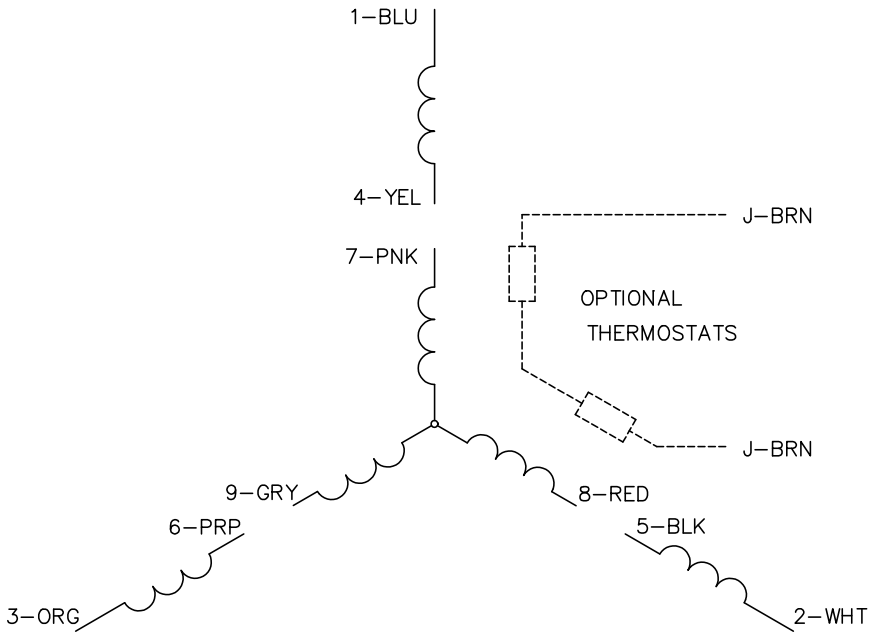
Typical performance - not guaranteed values.

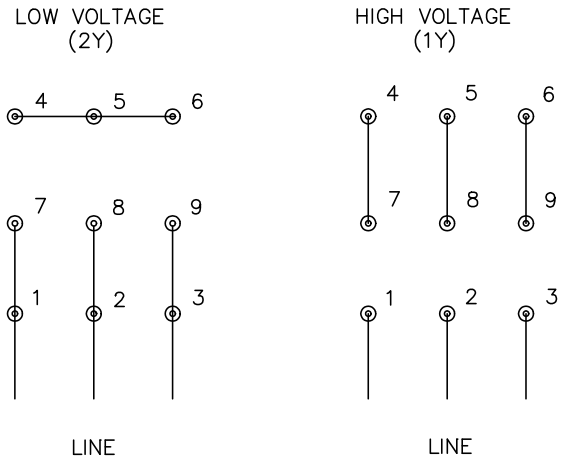
TORQUES(LB-FT): PO=446 PU=183 LR=254 LRA=344




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: 000001227748
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