ABB BALDOR RELIANCE

Customer information packet

CTM4110T

40 AIR OVERHP, 1775RPM, 3PH, 60HZ, 324T, 1248
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	324T
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	40.000 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
	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	94.000 A @ 230.0 V
	47.000 A @ 460.0 V
	101.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	K
Type	AC
Mech. spec.	12H727
Base	
Status	PRD/A
Elec. spec.	12WGX276
Layout	12LYH727
Eff. date	10-16-2025
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	08-17-2015

High Voltage Full Load Amps	47.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1248M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.38 IN
Power Factor	85
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1258											
CAT.NO.	CTM4110T										
SPEC.	12H727X276H2										
HP	40 AIR OVER										
VOLTS	230/460										
AMP	94/47										
RPM	1775										
FRAME	324T	**HZ**	60		**PH**	3					
SER.F.	1.15	**CODE**	G	**DES**	B		**CL**	F			
NEMA-NOM-EFF	93	**PF**	85								
RATING	40C AMB-CONT										
CC											
DE	6312	**ODE**	6311								
ENCL	TEAO	**SN**									
	2050 FPM @ 520CFM										

Parts List

Part number	Description	Quantity
SA305663	SA 12H727X276H2	1.000 ea
RA292889	RA 12H727X276H2	1.000 ea
10CB1000A131P	SPL KOBX W/2.00 NPT LD & 2 .125 NPT DRAI	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
HA4044A00	PLUG,PIPE 1/8 NPT PLASTIC SQUARE HEAD	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
10XN2520K08	1/4-20 X .50 GRADE #5, STL, ZINC PLATE	1.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 ea
12EP1107B02P	FREP TEFC 324-6T; EPOXY PRI	1.000 ea
10XN5013K32	1/2-13 X 2.00" HEX HD GRD 5 (20051)	4.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 ea
HA7204	"L" SHAPE LIFTING LUG FOR 42 FRAME MOTOR	2.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
12EP1106A91P	PUEP,MACH W/EPOXY, LIP SEAL, LESS GRSRS	1.000 ea
HW4600B37	SEAL 2.250 X 3.000 X .375 SINGLE LIP	1.000 ea
HW4600G55	DOME SLINGER, 7.125 OD X 2.120/2.060 ID	1.000 ea
10XN5013K28	1/2-13 X 1.75 HEX HEAD MACH SCREW,GRAD	4.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
10CB1503P	CONDUIT BOX LIPPED, CAST W/EPOXY PRIMER	1.000 ea
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 ea
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HA1005A06	SLINGER, OD 3.62, ID 2.15	1.000 ea
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5001A14	DYNAPRO SEALANT, CP MTR VC#2508050 (603	0.030 ea
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 ea
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 ea

LB1182	WARNING LABEL FOR MOTORS WITH EYENUTS	2.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	3.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 lb
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	3.000 ea
MG1025G05	WILKOFAST, 789.227, MED. GRAY CHAR. MET.	0.080 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
NP1258	SS CP UL CC	1.000 ea
12PA1000	PACKAGING GROUP PRINT PK1024A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data
Record # 52135
Typical performance - not guaranteed values

Winding: 12WGX276-R006	**Type:** 1248M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			40 AIR OVER	**Full Load Torque**	119 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			94/47	**Breakdown Torque**	337 LB-FT
R.P.M.			1775	**Pull-up Torque**	139 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	171 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	300 A
Service Factor (S.F.)			1.15	**No-load Current**	17.3 A
NEMA Nom. Eff.	93	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.158 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	27
				Rotor inertia	6.39 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	73	82	85	87	86	86
Efficiency	88.1	92.4	93.2	93	92.4	91.5	92.6
Speed	1794	1788	1782	1775	1768	1759	1771
Line amperes	20.5	27.7	36.9	47.4	58.6	71.1	54.1

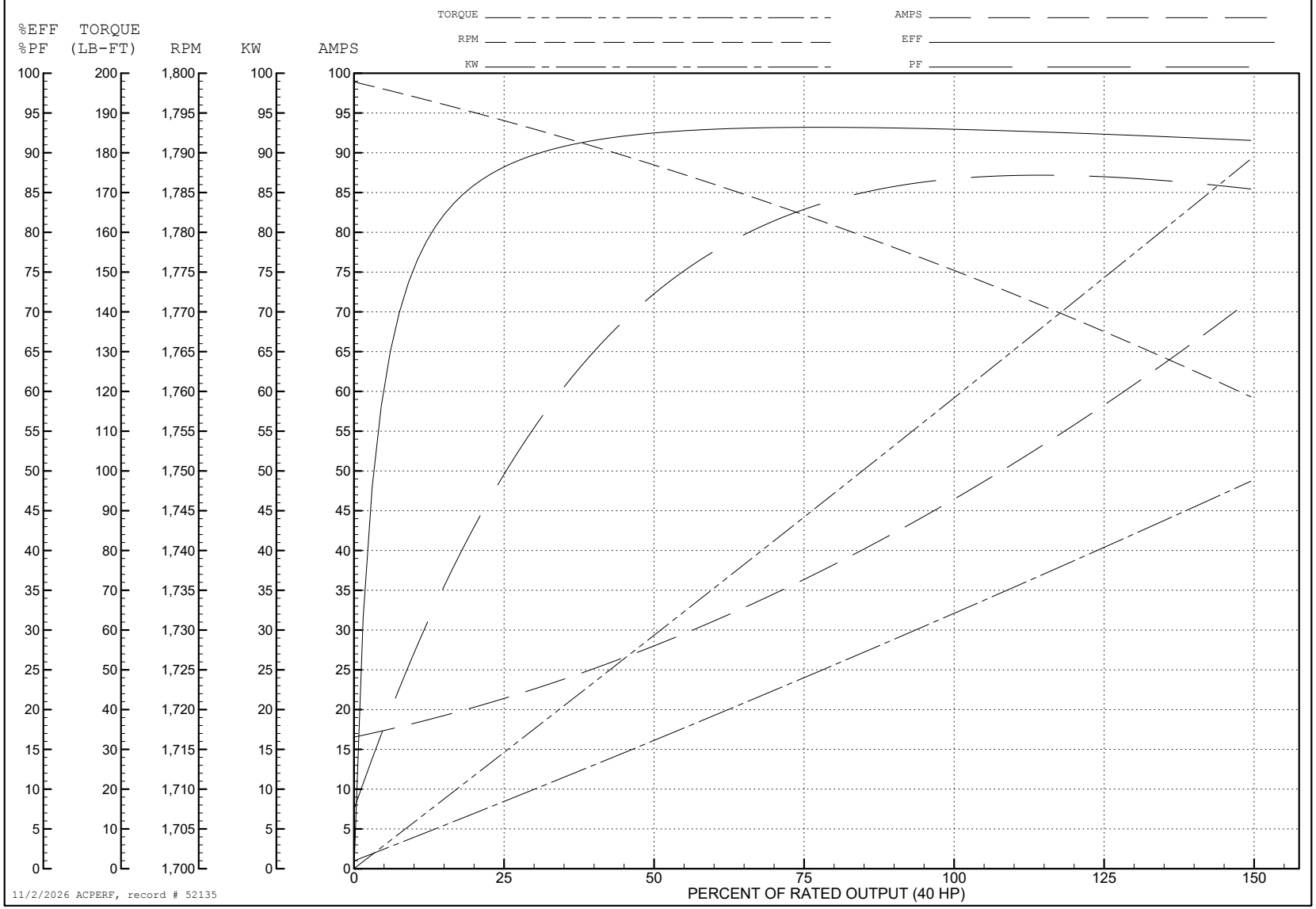
ABB Motors and Mechanical Inc.

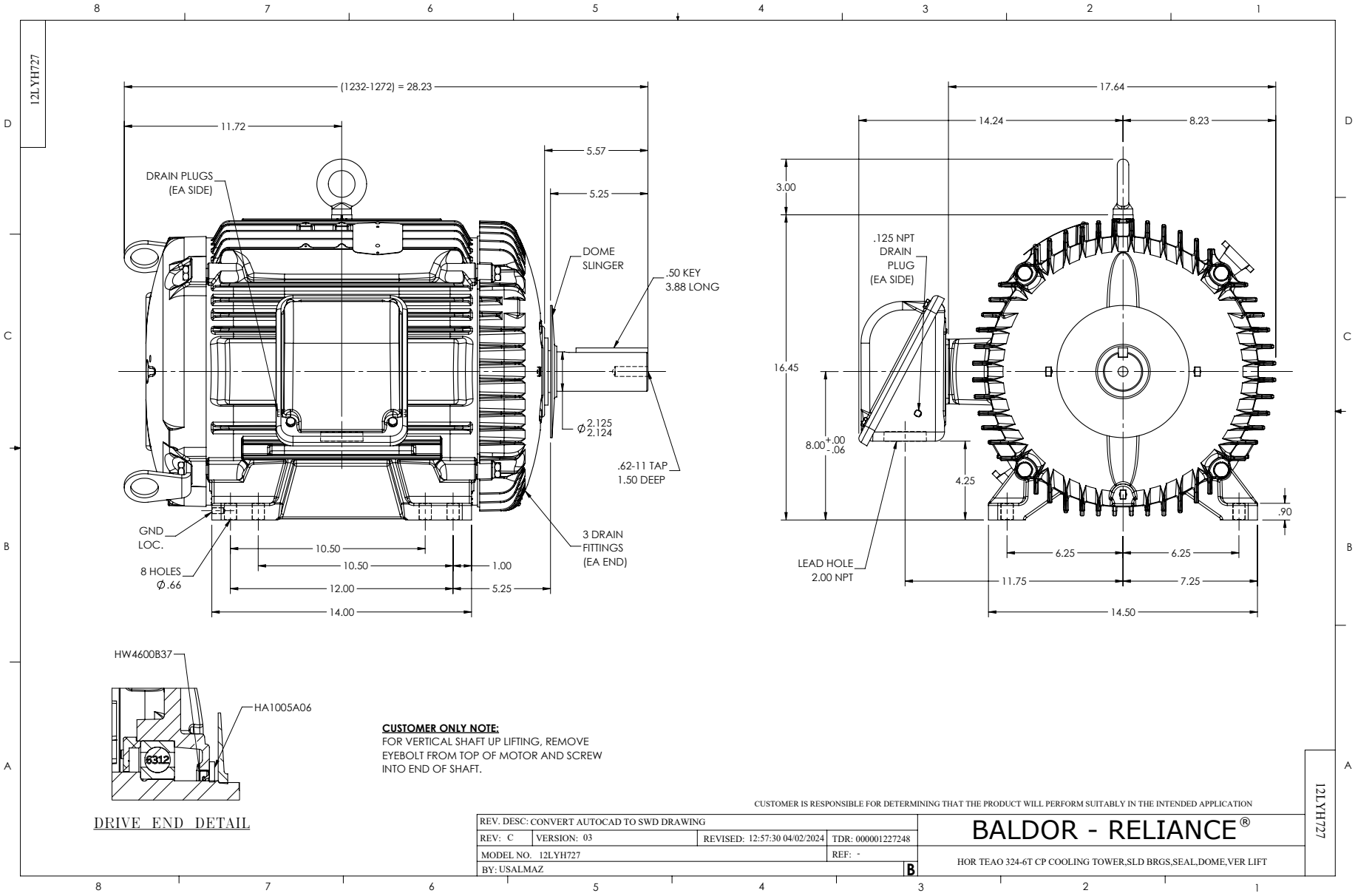
WINDING # 12WGX276

40 HP 3 PH 60 HZ 1775 RPM 460 V 1248M

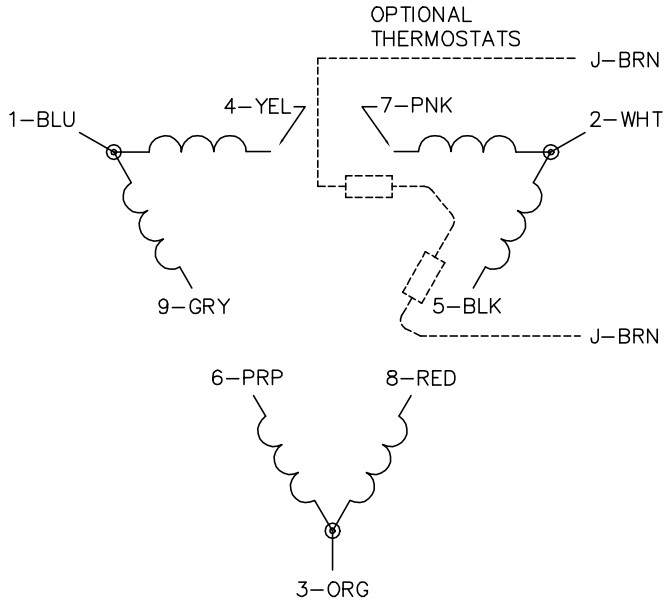
Typical performance - not guaranteed values.

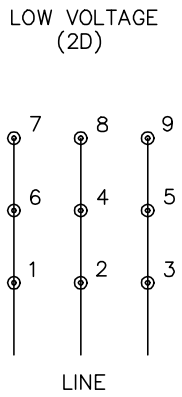
TORQUES(LB-FT): PO=337 PU=139 LR=171 LRA=300

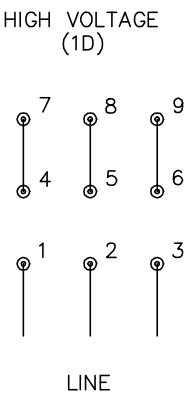



12LYH727
(1232-1272) = 28.23
11.72
5.57
5.25
DRAIN PLUGS (EA SIDE)
DOME SLINGER
.50 KEY 3.88 LONG
Ø2.125 2.124
.62-11 TAP 1.50 DEEP
GND LOC.
8 HOLES Ø.66
10.50
10.50
1.00
12.00
5.25
14.00
3 DRAIN FITTINGS (EA END)
17.64
14.24
8.23
3.00
.125 NPT DRAIN PLUG (EA SIDE)
16.45
8.00 +.00 -.06
4.25
.90
LEAD HOLE 2.00 NPT
6.25
6.25
11.75
7.25
14.50
HW4600B37
HA1005A06
6312
DRIVE END DETAIL
CUSTOMER ONLY NOTE:
FOR VERTICAL SHAFT UP LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: C
VERSION: 03
REVISED: 12:57:30 04/02/2024
TDR: 000001227748
MODEL NO. 12LYH727
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR TEAO 324-6T CP COOLING TOWER,SLD BRGS,SEAL,DOME,VER LIFT
12LYH727

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

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FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
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BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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