

ZP295KCE-TED

HFC, R-410A, 60 Hz, 3 - Phase, 460 V , [Also Available with Variable Frequency Drives](#)

Air Conditioning

Production Status: Available for sale to all U.S. customers. Please check with your local Copeland Representative for international availability.

Summary

Performance		
Evaporator Temp. (°F)	45.00	45
Condensing Temp. (°F)	130.00	100
Return Gas Temp. (°F)	65.00	65
Liquid Temp. (°F)	115.00	85
Capacity (BTU/hr)	294000	361000
Power (W):	26600	19400
Current (Amps):	38.4	29.7
EER(BTU/Wh):	11.1	18.6
Mass Flow (lbs/hr):	4330	4460
Sound Data @		
Sound Power (dBA):	90 Avg	95 Max
Vibration mils(peak-peak):	3.5 Avg	5.0 Max
Record Date:	2020-08-29	
Mechanical		
Displacement (in^3/Rev):	16.38	
Displacement (ft^3/Hr):		
Overall Length (in):	15.40	
Overall Width (in):	17.60	
Overall Height (in):	28.10	
Mounting Length (in):	10.50	
Mounting Width (in):	10.50	
Mounting Height (in):	28.90	

Suction Size (in),Type:	2 1 / 4 Rotalock
Discharge Size (in),Type:	1 3 / 4 Rotalock
Initial Oil Charge (oz):	230
Oil Recharge (oz):	220
Oil Type:	3MA
Net Weight (lbs):	353.0

Internal Free Volume (in^3):

*Overall compressor height on Copeland Brand Product's specified mounting grommets.

Electrical

LRA High* (Amps):	272
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	65.4
Max Operating Current (Amps):	48.50
RLA, MCC/1.4(use for contactor selection)(Amps):	46.7
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	41.9
RPM:	3500
Box IP :	56
UL File No:	SA2337-20001128
UL File Date:	2000-11-28
European Pressure Equipment Directive (PED):	
Fluid Group**:	FG 2
PS Low / High Side (BAR):	29.5 / 45.0
TS Min (°C):	-35 / -35
TS Max (°C):	50 / 150

Volume (L) :

*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

**Fluid Group 1 comprises dangerous fluids defined as: Explosive, extremely flammable, high flammable, very toxic, toxic, oxidizing.

Fluid Group 2 is for non-dangerous fluids defined as: non-explosive, non-toxic, non-flammable.

Capacitors

Type	Part No	Low MFD	High MFD	Volts	User Description
No data available in table					
Alternate Applications					
Refrigerant	Voltage	Phase	Frequency	Application	
R-410A HFC	380/420	3	50	Air Conditioning	

Service Parts

Service Parts					
Reference	Component	Quantity	Description	Comment	
99	005-1069-02	1	LCS T-BOX COVER		
99	062-0439-00	1	BOX-TERMINAL		
99	527-0175-02	1	SPACER-MOUNTING ASSM		
99	527-0178-00	1	SPACER-MOUNTING KIT	FOR TANDEM USE	
99	529-0102-00	1	HARNESS-LOW VOLT CONTROL		
99	910-0715-00	1	VALVE-OIL ADJUSTMENT 1/4FL X M9		
99	918-0056-08	1	HEATER KIT 480 VOLT	480V 150W WRAP AROUND	
99	918-0056-09	1	HEATER KIT 240 VOLT	240V 150W WRAP AROUND	
99	918-0056-10	1	HEATER KIT 120 VOLT	120V 150W WRAP AROUND	
99	918-0056-11	1	HEATER KIT 575 VOLT	575V 150W WRAP AROUND	

Accessories

Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-322061-R21BEN	Copeland EVH VFD , 20 HP, 230 VAC, 3Ø, 61A, With DC link Choke & Add on EMI filter, Removeable LCD Display, IP21, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322061-R21BDB	Copeland EVH VFD , 20 HP, 230 VAC, 3Ø, 61A, With DC link Choke (Standard EVH), Removeable LCD Display, IP21, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322061-R54BDB	Copeland EVH VFD , 20 HP, 230 VAC, 3Ø, 61A, With DC link Choke (Standard EVH), Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322061-R54BDN	Copeland EVH VFD , 20 HP, 230 VAC, 3Ø, 61A, With DC link Choke (Standard EVH), Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322061-R54BEN	Copeland EVH VFD , 20.0 HP, 230 VAC, 3Ø, 61A, With DC link Choke & Add on EMI filter, Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-322061-R21BDN	Copeland EVH VFD , 20.0 HP, 230 VAC, 3Ø, 61A, With DC link Choke (Standard EVH), Removeable LCD Display, IP21, BACnet/Modbus
(1) Variable Frequency Drive	EVH-344061-R54BEN	Copeland EVH VFD , 40 HP, 400 VAC, 3Ø, 61A, With DC link Choke & Add on EMI filter, Removeable LCD Display, IP54, BACnet/Modbus
(1) Variable Frequency Drive	EVH-344061-R21BDN	Copeland EVH VFD , 40 HP, 400 VAC, 3Ø, 61A, With DC link Choke (Standard EVH), Removeable LCD Display, IP21, BACnet/Modbus
(1) Variable Frequency Drive	EVH-344061-R21BEN	Copeland EVH VFD , 40.0 HP, 400 VAC, 3Ø, 61A, With DC link Choke & Add on EMI filter, Removeable LCD Display, IP21, BACnet/Modbus
(1) Variable Frequency Drive	EVH-344061-R21BDB	Copeland EVH VFD , 40.0 HP, 400 VAC, 3Ø, 61A, With DC link Choke (Standard EVH), Removeable LCD Display, IP21, BACnet/Modbus

Electrical Components

Electrical Components
Part No: 571-0064-06
Usage Description: Modular Protector
Part No: 571-0065-05
Usage Description: Modular Protector

Nomenclature

ZP295KCE-TED

Family Series

Z: Scroll

Application Range

P: A/C - R-410A/B

Capacity

295K: Capacity Multiplier-1000

Model Variation

C: Model Variation

Oil Type

E: Polyol Ester

Motor Type

T: 3 Phase

Motor Protection

E: External Enhanced Protection

Voltage

D: 60Hz (460-3) 50Hz (380/420-3)

Miscellaneous

Alternate Application				
Refrigerant	Freq	Phase	Voltage	Application
HFC R-410A	50	3 Ø	380/420 V	R1 AC
Nomenclature				
ZP295KCE-TED				

Bill-of-Materials

ZP295KCE-TED - BILL OF MATERIALS	
<u>250 - Common U.S. OEM Bill Of Materials</u>	
Suction Connection	Stub
Suction Size	1 5/8"
Discharge Connection	Stub
Discharge Size	1 3/8"
Electrical Connection	Terminal Block
Mounting Assembly	Available

Sight Glass	
Crankcase Heater	
Schrader Valve	
Tandem Ready	
Module Voltage	
Reference Drawing	497-1713-00_002.pdf

251 - Common U.S. OEM Bill Of Materials

Suction Connection	Stub
Suction Size	1 5/8"
Discharge Connection	Stub
Discharge Size	1 3/8"
Electrical Connection	Terminal Block
Mounting Assembly	Not Available
Sight Glass	
Crankcase Heater	
Schrader Valve	
Tandem Ready	
Module Voltage	
Reference Drawing	497-1713-00_002.pdf

265 - Common U.S. OEM Bill Of Materials

Suction Connection	Rotalock
Suction Size	2 1/4"
Discharge Connection	Rotalock
Discharge Size	1 3/4"
Electrical Connection	Terminal Block
Mounting Assembly	Available
Sight Glass	
Crankcase Heater	
Schrader Valve	
Tandem Ready	

Module Voltage

Reference Drawing	497-1713-01_002.pdf
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266 - Common U.S. OEM Bill Of Materials

Suction Connection	Rotalock
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Suction Size	2 1/4"
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Discharge Connection	Rotalock
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Discharge Size	1 3/4"
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Electrical Connection	Terminal Block
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Mounting Assembly	Not Available
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Sight Glass

Crankcase Heater

Schrader Valve

Tandem Ready

Module Voltage

Reference Drawing	497-1713-01_002.pdf
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951 - Common U.S. Service Bill Of Materials

Suction Connection	Stub
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Suction Size	1 5/8"
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Discharge Connection	Stub
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Discharge Size	1 3/8"
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Electrical Connection	Terminal Block
-----------------------	----------------

Mounting Assembly	Not Available
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Sight Glass

Crankcase Heater

Schrader Valve

Tandem Ready

Module Voltage

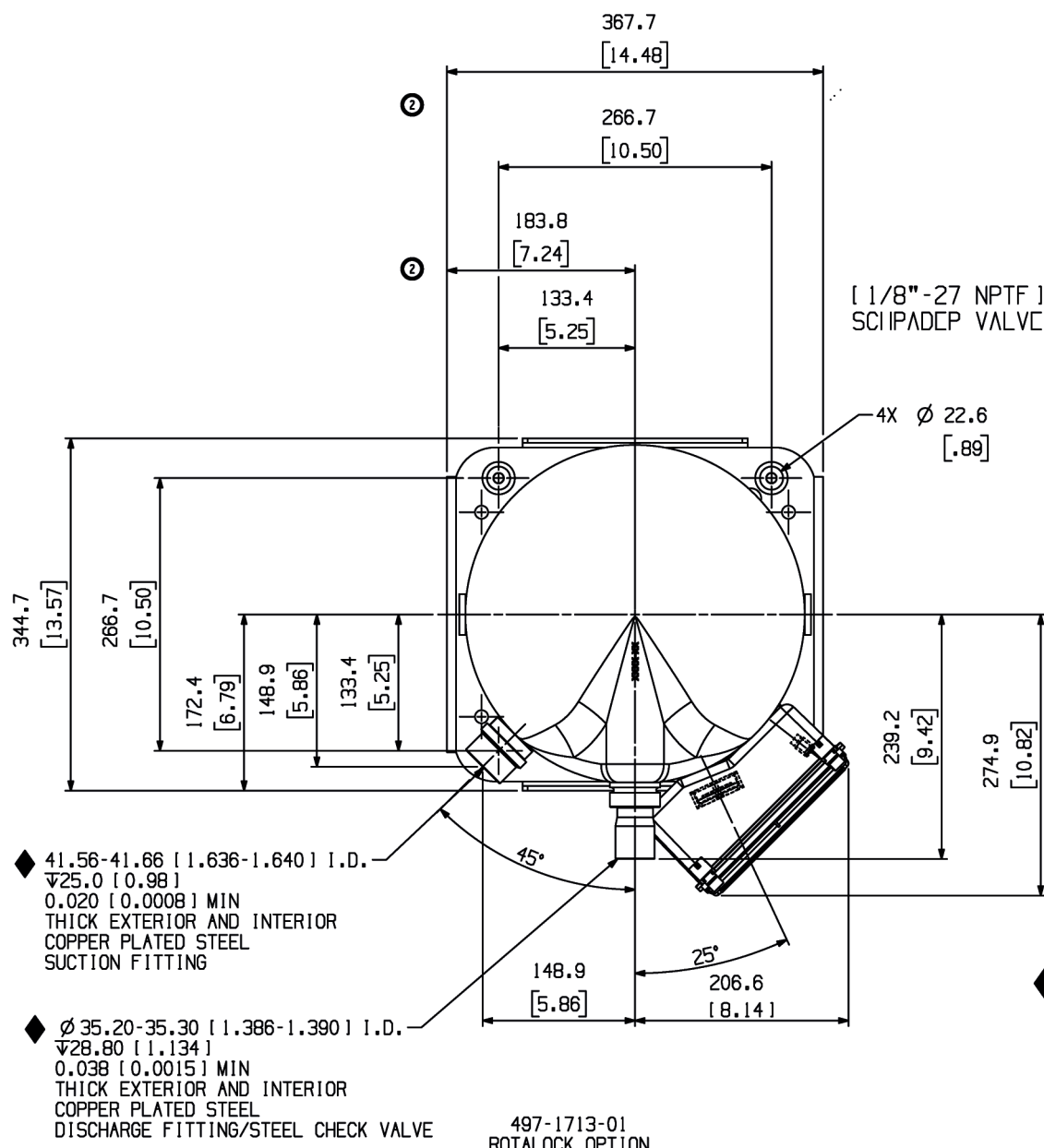
Reference Drawing	497-1713-00_002.pdf
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965 - Common U.S. Service Bill Of Materials

Suction Connection	Rotalock
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Suction Size	2 1/4"
Discharge Connection	Rotalock
Discharge Size	1 3/4"
Electrical Connection	Terminal Block
Mounting Assembly	Available
Sight Glass	
Crankcase Heater	
Schrader Valve	
Tandem Ready	
Module Voltage	
Reference Drawing	497-1713-01_002.pdf

497-1713-00
BRAZED OPTION



NOTES:

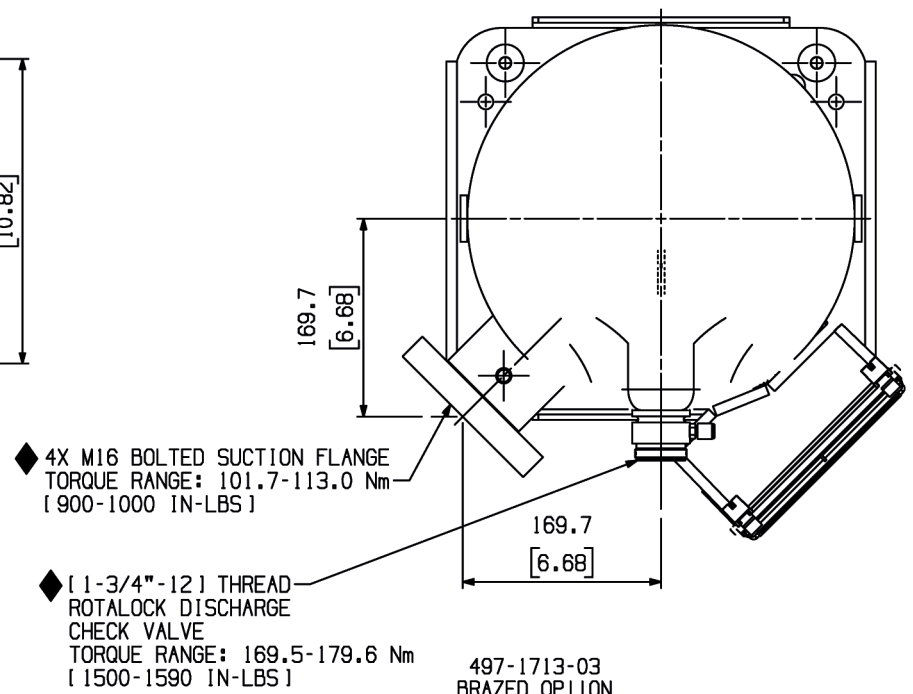
- 1 ALL TOLERANCES ± 1.50 [0.060] UNLESS OTHERWISE SPECIFIED.

DUE TO ACCUMULATED ASSEMBLY TOLERANCES THE LISTED COMPONENTS MAY VARY FROM THE MOUNTING HOLES AS SHOWN BELOW:

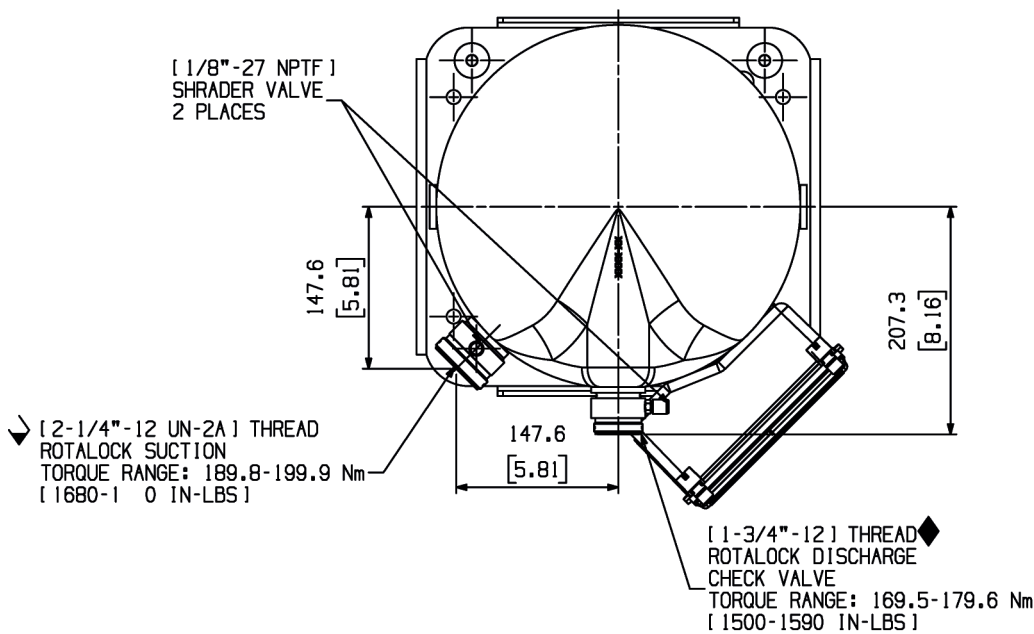
- 2 ALL FITTINGS : ± 3.0 [0.12] MOUNTING KIT.

3. TUBE ENDS MUST BE PLUGGED.

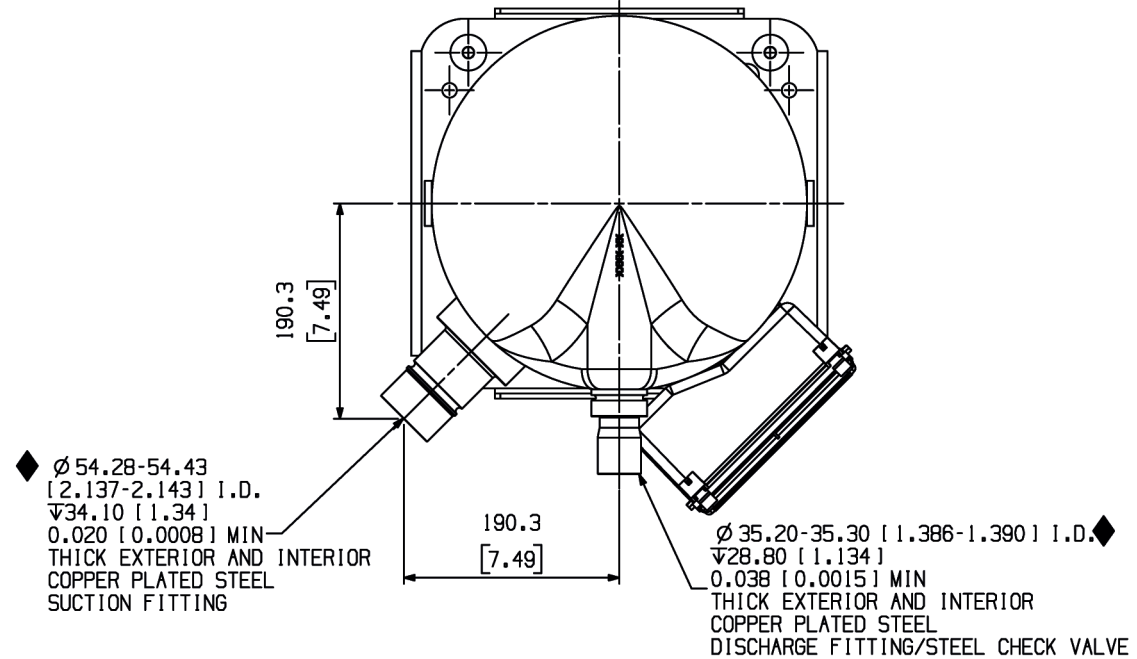
497-1713-02
ROTALOCK / FLANGE OPTION



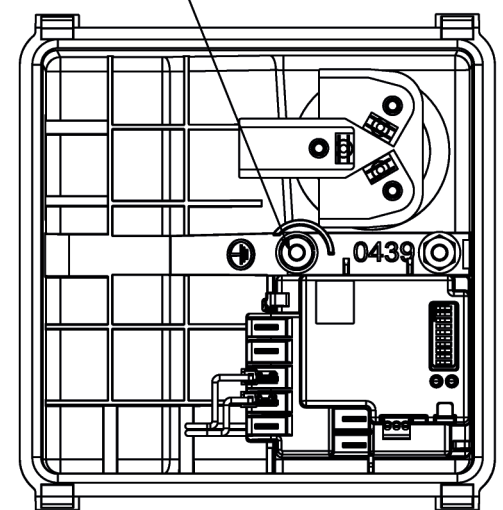
497-1713-01
ROTALOCK OPTION



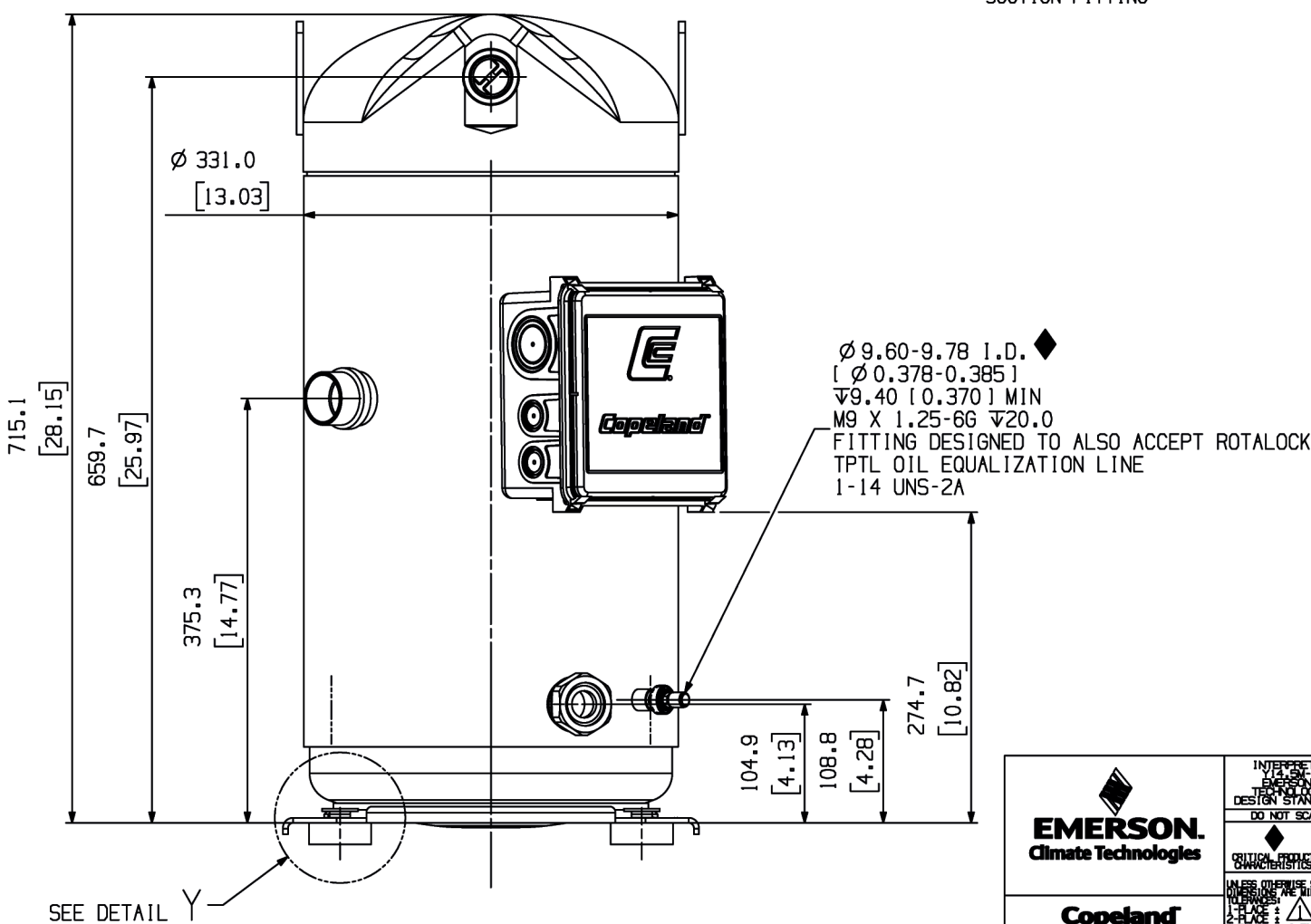
497-1713-03
BRAZED OPTION



GROUND LOCATION



TERMINAL BOX LAYOUT STANDARD
SCALE 3:4



SEE DETAIL Y



INTERPRET PER ASME Y14.5-1994 AND EMERSON CLIMATE TECHNOLOGIES INC. DESIGN STANDARDS DS2002 DO NOT SCALE DRAWING

ECN102698	2	ADDED ZH125/150 MODELS	01-07-16	EL	JL	KJR
ECN101139	1	UPDATED MODEL NUMBER IN TABLE	03-13-15	SAS	PEM	PEM
ECN009071	0	RELEASED	10-09-14	FLS	LLB	KJP
ENR NOTICE NO.	REV.NO.	REVISIONS	DATE	BY	CHKD	APP
CONFIDENTIALITY NOTICE						
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MATERIAL SPECIFICATION		DRWN BY FLS	SUPERSEDES DWG. NO. / REV. NO. 497-0997-00/004			
N/A		DATE 10-09-14	SCALE 3:4	DATE FORMAT: MM-DD-YY		
TITLE		DRAWING NUMBER		SHEET 1 OF 1		
REF DWG-WELD COMP ASSM		497-1713-00		5		