



Select8

COPELAND

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Project Report

Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	45.00
Abs. Condensing Pressure, bar	20.47
Dew Point, °C	45.00
Bubble Point, °C	44.70
Saturated vapour enthalpy, kJ/kg	381.00
Specific volume of saturated vapour, dm³/kg	8.50
Liquid Temperature, °C	44.70
Liquid enthalpy, kJ/kg	268.00
Low Side Properties:	
Evaporating Temperature, °C	-10.00
Evaporating Abs. Pressure, bar	4.34
Dew Point, °C	-10.00
Bubble Point, °C	-10.60
With vapour at, °C	20.00
Specific volume, dm³/kg	53.00
Enthalpy, kJ/kg	388.00
Operating Conditions:	
Evaporating Temperature, °C	-10.00
Condensing Temperature, °C	45.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	ZF54KQE-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZF54KQE-TFD Data at 50 Hz

Error	Evap. pressure out of range
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COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	48.3
Length/Width, mm	0/0
Net Weight, kg	66.2
Oil Quantity, l	3.37
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (0.3)
Sound Pressure @ 1m (LT), dBA	78
Sound Power (LT), dBA	89
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	3922
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

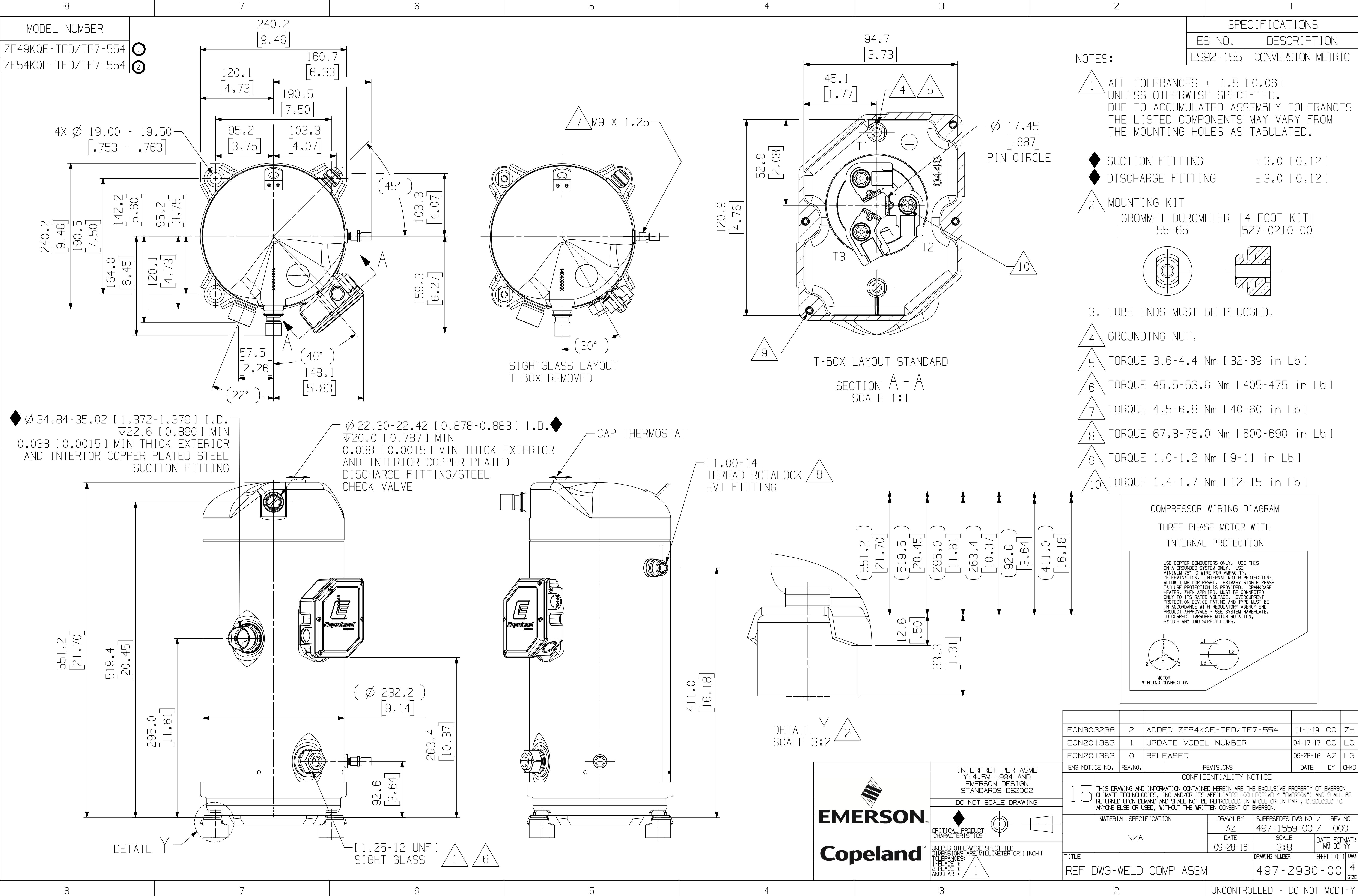
Maximum Operating Current, A	31
Locked Rotor Current, A	168
Winding Resistance, ohm	0.78/0.78/0.78 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Enclosure Class	IP 54
Mounting Grommets	Standard
Oil Charge	

ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Discharge Temperature Protection	Discharge line thermostat
Liquid Injection	DTC Valve
Mounting Grommets	Hard Mounts for Paralleling
Adapter Kit	Rotalock to Stub
Oil Control System	OMB
Rotalock valves	suction and discharge



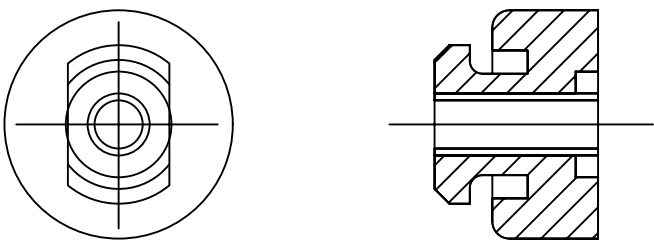
SPECIFICATIONS	
ES NO.	DESCRIPTION
ES92-155	CONVERSION-METRIC

NOTES:

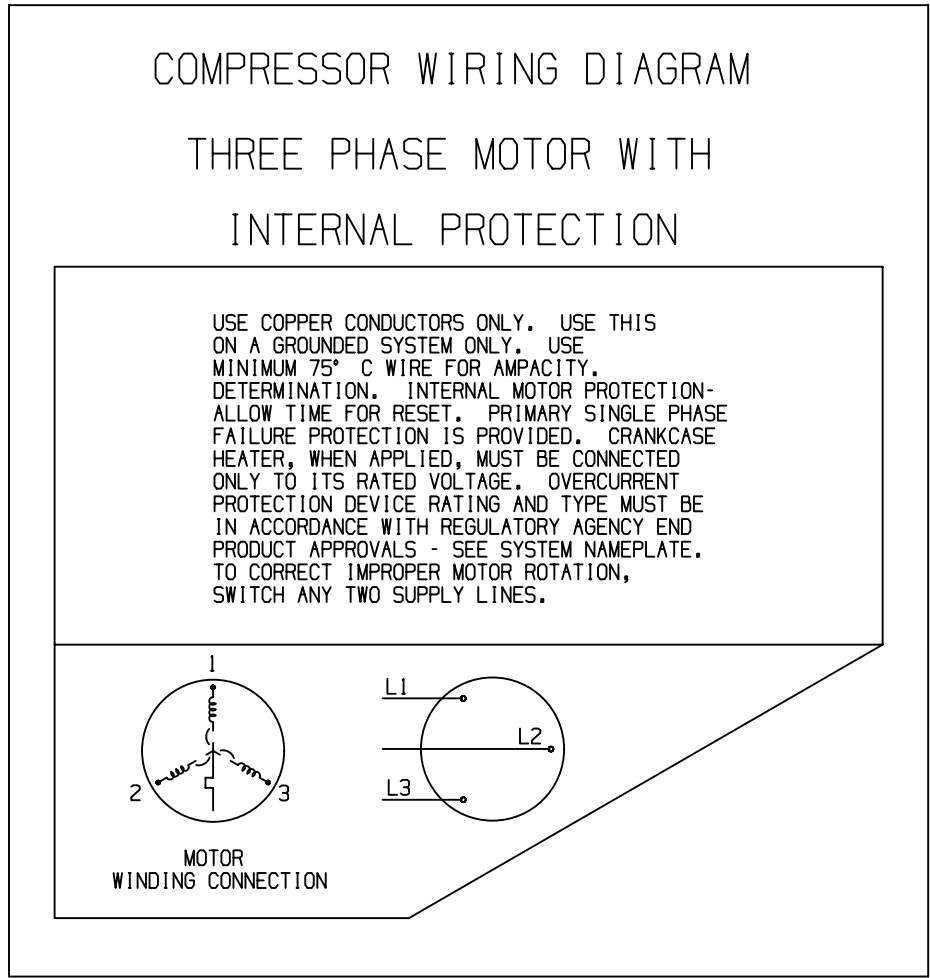
1 ALL TOLERANCES ± 1.5 [0.06] UNLESS OTHERWISE SPECIFIED. DUE TO ACCUMULATED ASSEMBLY TOLERANCES THE LISTED COMPONENTS MAY VARY FROM THE MOUNTING HOLES AS TABULATED.

- ◆ SUCTION FITTING ± 3.0 [0.12]
- ◆ DISCHARGE FITTING ± 3.0 [0.12]

MOUNTING KIT	
GROMMET DUROMETER	4 FOOT KIT
55-65	527-0210-00



3. TUBE ENDS MUST BE PLUGGED.
- 4 GROUNDING NUT.
- 5 TORQUE 3.6-4.4 Nm [32-39 in Lb]
- 6 TORQUE 45.5-53.6 Nm [405-475 in Lb]
- 7 TORQUE 4.5-6.8 Nm [40-60 in Lb]
- 8 TORQUE 67.8-78.0 Nm [600-690 in Lb]
- 9 TORQUE 1.0-1.2 Nm [9-11 in Lb]
- 10 TORQUE 1.4-1.7 Nm [12-15 in Lb]



ECN303238	2	ADDED ZF54KQE-TFD/TF7-554	11-1-19	CC	ZH
ECN201363	1	UPDATE MODEL NUMBER	04-17-17	CC	LG
ECN201363	0	RELEASED	09-28-16	AZ	LG
ENG NOTICE NO.	REV.NO.	REVISIONS		DATE	BY
CONFIDENTIALITY NOTICE					
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MATERIAL SPECIFICATION		DRAWN BY	SUPERSEDES DWG NO / REV NO		
N/A		AZ	497-1559-00 / 000		
		DATE	SCALE	DATE FORMAT:	
		09-28-16	3:8	MM-DD-YY	
TITLE			DRAWING NUMBER	SHEET 1 OF 1	DWG
REF DWG-WELD COMP ASSM			497-2930-00	4	SIZE

INTERPRET PER ASME Y14.5M-1994 AND EMERSON DESIGN STANDARDS DS2002

DO NOT SCALE DRAWING

CRITICAL PRODUCT CHARACTERISTICS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE MILLIMETER OR (INCH)

TOLERANCES:

1-PLACE: 1

2-PLACE: 1

ANGULAR: 1