

YA104K1E-TF5

HFO, R-454B, 50 Hz, 3 - Phase, 200/220 V

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)	50.00	50
Condensing Temp. (°F)	120.00	95
Return Gas Temp. (°F)	70.00	70
Liquid Temp. (°F)	105.00	80
Capacity (BTU/hr)	106500	122500
Power (W):	6800	4820
Current (Amps):	25.4	20.4
EER(BTU/Wh):	15.7	25.45
Mass Flow (lbs/hr):	1155	1180
Sound Data @ 50 / 115		
Sound Power (dBA):	73 Avg	78 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2024-09-13	
Mechanical		
Displacement (in^3/Rev):	6.23	
Displacement (ft^3/Hr):		
Overall Length (in):	11.31	
Overall Width (in):	10.33	
Overall Height (in):	22.00	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	
Mounting Height (in):	22.75	

Suction Size (in),Type:	1 1 / 8 Stub
Discharge Size (in),Type:	7 / 8 Stub
Initial Oil Charge (oz):	85
Oil Recharge (oz):	81
Oil Type:	3MA
Net Weight (lbs):	113.5

Internal Free Volume (in^3):

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

Electrical

LRA High* (Amps):	265.0
LRA Low*(Amps):	240.0
LRA Half Winding (Amps):	
MCC (Amps):	42.7
Max Operating Current (Amps):	34.6
RLA, MCC/1.4(use for contactor selection)(Amps):	30.5
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	27.4
RPM:	2900
Box IP :	21
UL File No:	
UL File Date:	
European Pressure Equipment Directive (PED):	
Fluid Group**:	FG 1
PS Low / High Side (BAR):	27.5 / 46.0
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-454B HFO	200/230	3	60	Air Conditioning	

Nomenclature

YA104K1E-TF5

Family Series

Y: Scroll A2L/A3

Application Range/Envelope

A: AC (High Pressure) R454B/R452B

Nominal Capacity at Rating Condition

104K: Capacity Multiplier-1,000

Model Variation

1: Model Variation

Oil Type

E: POE Oil – 3MAF

Motor Type

T: 3 Phase

Motor Protection

F: Internal Inherent Protection

Voltage

5: 60Hz (200/230-3) 50Hz (200/220-3)