ZP154KCE-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 Emerson Climate Technologies Representative for international availability.

Summary

Performance		
Evaporator Temp. (°F)	45	35
Condensing Temp. (°F)	130	120
Return Gas Temp. (°F)	65	55
Liquid Temp. (°F)	115	105
Capacity (BTU/hr)	155000	138000
Power (W):	14000	12400
Current (Amps):	21	19
EER(BTU/Wh):	11.1	11.1
Mass Flow (lbs/hr):	2290	1930
Sound Data @		
Sound Power (dBA):	80 Avg	85 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2017-03-23	

Mechanical	
Displacement (in^3/Rev):	8.72
Displacement (ft^3/Hr):	
Overall Length (in):	12.93
Overall Width (in):	11.73
Overall Height (in):	22.21
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	23.02
Suction Size (in),Type:	1 3 / 8 Stub
Discharge Size (in),Type:	7 / 8 Stub
Initial Oil Charge (oz):	114
Oil Recharge (oz):	110
Net Weight (lbs):	143.0
Internal Free Volume (in^3):	
Horse Power:	

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

Electrical

LRA High* (Amps):	150.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	36
Max Operating Current (Amps):	27.0
RLA, MCC/1.4(use for contactor selection)(Amps):	25.7
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	23.1
RPM:	3500
Box IP :	54
UL File No:	SA-2337
UL File Date:	1996-09-27

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

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
1	918-0047-00	1	HEATER-CRANKCASE	120V 90W WRAP AROUND
1	918-0047-01	1	HEATER-CRANKCASE	240V 90W WRAP AROUND
1	918-0047-02	1	HEATER-CRANKCASE	480V, 90W, WRAP AROUND
2	527-0210-00	1	MOUNTING SPACER ASSM	
9	998-0510-90	1	VLV KIT 7/8"SWT / 11/4-12UNC	DISCHARGE
11	998-0010-00	1	SIGHTGLASS KIT	
15	910-0715-00	1	VALVE-OIL ADJUSTMENT 1/4FL X M9	
99	971-0064-05	1	KIT-115/240V MODULE	120/240V MODULE
99	971-0065-04	1	KIT 24 V MODULE	24V MODULE
99	998-0510-46	1	SERV VALVE KIT 1 3/8 SWT	SUCTION

Accessories

Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-344031-E20ENN	EVM, 3Ø, 380-480v, Output 380-480v@31A, Pro, IP20, Standard, No Options, Frame 3
(1) Variable Frequency Drive	EVM-344031-N20MNN	EVM, 3Ø, 380-480v, Output 380-480v@31A, Basic, IP20, Standard, No Options, Frame 3
(1) Variable Frequency Drive	EVM-344031-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@31A, Basic, IP20, With add on EMI filter, No Options, Frame 3
(1) Variable Frequency Drive	EVM-344031-E20EFN	EVM, 3Ø, 380-480v, Output 380-480v@31A, Pro, IP20, With add on EMI filter, No Options, Frame 3
(1) Variable Frequency Drive	EVH-344031-R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@31A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344031-R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@31A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-344031-R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@31A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344031-R54BEN	EVH, 3Ø, 380-480v, Output 380-480v@31A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344031-R21BDB	EVH, 3Ø, 380-480v, Output 380-480v@31A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S

Electrical Components

Electrical Components

Part No: 571-0064-06

Usage Description: Modular Protector

Vendor Part Number

14800070

Vendor Name

WKK

Part No: 571-0065-05

Usage Description: Modular Protector

Vendor Part Number

14800170

Vendor Name

WKK

Stator

Part No: 046-0124-00

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.08

Run Wdg: 0.00

Nomenclature

ZP154KCE-TED

Family Series

Z: Scroll

Application Range

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

Capacity

154K: Capacity Multiplier-1000

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

ZP154KCE-TED

Date	Data Group	Field	Old Data	New Data
21-Aug-2014	Sound	Sound Ave		80
21-Aug-2014	Sound	Sound Max		85
21-Aug-2014	Sound	Sound Start		85
21-Aug-2014	Sound	Sound Start Max		93
21-Aug-2014	Sound	Sound Stop		82
21-Aug-2014	Sound	Sound Stop Max		90
21-Aug-2014	Sound	Vibration Ave		3
21-Aug-2014	Sound	Vibration Max		4.5
24-Jun-2016	2 Pt Perf	Amp Cond 2	16.5	19
24-Jun-2016	2 Pt Perf	Cap Cond 2	190000	138000