ZR38K5E-TF5

HCFC, R-22, 60 Hz, 3 - Phase, 200/230 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

| Performa | nce | |
|----------------------------|------------|---------|
| Evaporator Temp. (°F) | 45 | 50 |
| Condensing Temp. (°F) | 130 | 100 |
| Return Gas Temp. (°F) | 65 | 70 |
| Liquid Temp. (°F) | 115 | 85 |
| Capacity (BTU/hr) | 38000 | 49400 |
| Power (W): | 3400 | 2300 |
| Current (Amps): | 10.35 | 8 |
| EER(BTU/Wh): | 11.2 | 21.4 |
| Mass Flow (lbs/hr): | 556 | 632 |
| Sound Data @ 45 / 130 | | |
| Sound Power (dBA): | 73 Avg | 78 Max |
| Vibration mils(peak-peak): | 2.0 Avg | 3.0 Max |
| Record Date: | 2015-10-13 | |

Mechanical

| Displacement (in^3/Rev): | 3.11 |
|--------------------------|-------|
| Displacement (ft^3/Hr): | |
| Overall Length (in): | 9.69 |
| Overall Width (in): | 9.69 |
| Overall Height (in): | 19.94 |
| Mounting Length (in): | 7.50 |
| Mounting Width (in): | 7.50 |

| Mounting Heig | ght (in): | 17.17 | | | |
|------------------|-------------------|--------------------|---------------------------------|-------------|--------------------|
| Suction Size (ir | n),Type: | 7 / 8 Stub | | | |
| Discharge Size | (in),Type: | 1 / 2 Stub | | | |
| Initial Oil Char | ge (oz): | 42 | | | |
| Oil Recharge (d | oz): | 34 | | | |
| Net Weight (lb | s): | 60.5 | | | |
| Internal Free V | olume (in^3): | 226 | | | |
| Horse Power: | | | | | |
| Overall compres | sor height on Co | opeland Brand Pro | oduct's s ciecifiiicai n | nounting gr | ommets. |
| LRA High* (Am | nps): | | | 93.0 | |
| LRA Low*(Amp | os): | | | | |
| LRA Half Wind | ing (Amps): | | | | |
| MCC (Amps): | | | | 19 | |
| Max Operating | g Current (Amp | 5): | | 14.0 | |
| RLA, MCC/1.4(| use for contact | or selection)(Am | ıps): | 13.6 | |
| RLA, MCC/1.56 | o(use for breake | er & wire size sel | ection)(Amps): | 12.2 | |
| RPM: | | | | 3500 | |
| Box IP : | | | | 21 | |
| UL File No: | | | | SA-2337 | |
| UL File Date: | | | | | |
| Low and High re | fer to the low ar | nd high nominal v | oltage ranges for | which the m | notor is approved. |
| | | | Capacitors | | |
| Туре | Part No | Low MFD | High MFD | Volts | User Description |
| No data availab | le in table | | | | |
| | | | Alternate Applic | ations | |
| Refrigerant | Vo | ltage | Phase | Frequenc | y Application |
| R-22 HCFC | 20 | 0/220 | 3 | 50 | Air Conditioning |
| R-407C HFC | 20 | 0/220 | 3 | 50 | Air Conditioning |
| R-407C HFC | 20 | 0/230 | 3 | 60 | Air Conditioning |
| | | | | | |

Service Parts

| Component | Quantity | Description | Comment |
|-------------|---|---|--|
| 918-0041-00 | 1 | HEATER-CRANKCASE | 240V 40W WRAP AROUND |
| 918-0041-01 | 1 | HEATER-CRANKCASE | 120V 40W WRAP AROUND |
| 527-0116-00 | 1 | SPACER-MOUNTING ASSM | |
| 529-0060-24 | 1 | POWER CABLE-MOLDED PLUG | |
| | 918-0041-00 918-0041-01 527-0116-00 | 918-0041-00 1 918-0041-01 1 527-0116-00 1 | 918-0041-00 1 HEATER-CRANKCASE 918-0041-01 1 HEATER-CRANKCASE 527-0116-00 1 SPACER-MOUNTING ASSM |

Accessories

| Accessories | | | |
|-----------------|-------------|---|--|
| Category | Part Number | Description | |
| (1) Variable | EVM-322017- | EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, Standard, No Options, | |
| Frequency Drive | E20ENN | Frame 2 | |
| (1) Variable | EVH-322017- | EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link | |
| Frequency Drive | R54BDB | Choke, With Bypass, Frame H3X | |
| (1) Variable | EVH-322017- | EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link | |
| Frequency Drive | R21BDB | Choke, With Bypass, Frame H2S | |
| (1) Variable | EVH-322017- | EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link | |
| Frequency Drive | R54BDN | Choke, No Options, Frame 2 | |
| (1) Variable | EVH-322017- | EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link | |
| Frequency Drive | R21BEN | Choke + EMI Filter, No Options, Frame 2 | |
| (1) Variable | EVH-322017- | EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link | |
| Frequency Drive | R21BDN | Choke, No Options, Frame 2 | |
| (1) Variable | EVH-322017- | EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link | |
| Frequency Drive | R54BEN | Choke + EMI Filter, No Options, Frame 2 | |
| (1) Variable | EVM-322017- | EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, With add on EMI filter, No | |
| Frequency Drive | E20EFN | Options, Frame 2 | |
| (1) Variable | EVM-322017- | EVM, 3Ø, 200-240v, Output 200-240v@17A, Basic, IP20, With add on EMI filter, | |
| Frequency Drive | N20MFN | No Options, Frame 2 | |
| (1) Variable | EVM-322017- | EVM, 3Ø, 200-240v, Output 200-240v@17A, Basic, IP20, Standard, No Options, | |
| Frequency Drive | N20MNN | Frame 2 | |

Electrical Components

| Part No: 071-0501-10 | |
|---------------------------------------|---------------------------|
| Usage Description: Internal Protector | |
| Vendor Part Number | |
| 34HM111 | |
| Vendor Name | |
| SENSATA | |
| Part No: 071-0501-18 | Stator |
| Usage Description: Internal Protector | Part No: 546-2090-05 |
| Vendor Part Number | Usage Description: Stator |
| 34HM119 | Resistance: +/-7% |
| Vendor Name | Start Wdg: 0.97 |
| SENSATA | Run Wdg: 0.00 |
| Stator | |
| Part No: 546-2115-01 | |
| Usage Description: Stator | |
| Resistance: +/-7% | |
| Start Wdg: 1.20 | |
| Run Wdg: 0.00 | |
| | |

Nomenclature

Miscellaneous

| Alternate Application | | | | |
|-----------------------|------|-------|-----------|-------------|
| Refrigerant | Freq | Phase | Voltage | Application |
| HCFC R-22 | 50 | 3 Ø | 200/220 V | R1 AC |
| <u>HFC R-407C</u> | 50 | 3 Ø | 200/220 V | R1 AC |
| HFC R-407C | 60 | 3 Ø | 200/230 V | R1 AC |
| | | Nomen | clature | |

ZR38K5E-TF5

| Date | Data Group | Field | Old Data | New Data |
|-------------|-------------|-----------------|----------|----------|
| 15-Apr-2014 | RatingRefNo | RatingRefNo | 14-93e | 08-1165e |
| 13-Oct-2015 | Rating | PubCode | | γ |
| 15-Apr-2014 | 2 Pt Perf | Amp Cond 1 | 9.8 | 10.35 |
| 15-Apr-2014 | 2 Pt Perf | Amp Cond 2 | 7.6 | 8 |
| 15-Apr-2014 | 2 Pt Perf | MassFlow Cond 1 | 555 | 556 |
| 15-Apr-2014 | 2 Pt Perf | MassFlow Cond 2 | 630 | 632 |