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| Refrigerant | R449A Dew Point |
| High Side Properties: | |
| Condensing Temperature, °C | 45.00 |
| Abs. Condensing Pressure, bar | 18.86 |
| Dew Point, °C | 45.00 |
| Bubble Point, °C | 40.70 |
| Saturated vapour enthalpy, kJ/kg | 414.00 |
| Specific volume of saturated vapour, dm ³ /kg | 11.30 |
| Low Side Properties: | |
| Evaporating Temperature, °C | -10.00 |
| Evaporating Abs. Pressure, bar | 3.61 |
| Dew Point, °C | -10.00 |
| Bubble Point, °C | -15.40 |
| With vapour at, °C | 20.00 |
| Specific volume, dm ³ /kg | 72.50 |
| Enthalpy, kJ/kg | 421.00 |
| Operating Conditions: | |
| Evaporating Temperature, °C | -10.00 |
| Condensing Temperature, °C | 45.00 |
| Suction Return Temperature, °C | 20.00 |
| Subcooling, K | 0.00 |
| Compressor Selected | ZB19KCE-TFD |

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZB19KCE-TFD Data at 50 Hz**

| | |
|------------------------|-------|
| Cooling Capacity, kW | 3.83 |
| Power, kW | 1.84 |
| COP | 2.09 |
| Current at 400 V, A | 3.42 |
| Suction Mass Flow, g/s | 24.20 |
| Heating Capacity, kW | 5.58 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

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|--|--|
| Displacement @ 50 Hz, m ³ /h | 6.83 |
| Length/Width, mm | 242/242 |
| Height, mm | 389 |
| Net Weight, kg | 25.8 |
| Rotalock Suction, inch | 1 1/4 |
| Rotalock Discharge, inch | 1 |
| Oil Quantity, l | 1.12 |
| 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 (8.5) |
| Sound Pressure @ 1m (MT), dBA | 55 |
| Sound Power (MT), dBA | 66 |
| Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed) | -10 / 45 / 20 °C at 50 Hz |
| PED Category | 1 |
| Max. Internal Free Volume, l | 2.50 |
| High Side PS gauge, bar | 32 |
| Low Side PS gauge, bar | 21 |
| Low Side TS Max., °C | 50 |
| Low Side TS Min., °C | -35 |
| Refrigerant's GWP | 1397 |
| Refrigerant's classification | A1 |

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

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|------------------------------|----------------|
| Maximum Operating Current, A | 6.5 |
| Locked Rotor Current, A | 32 |
| Winding Resistance, ohm | 5.8 |
| Default Enclosure Class | IP 21 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|---------------------|
| Discharge Temperature Protection | Internal Thermodisk |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

Crankcase Heater
Oil Control System
Sound Attenuation
Rotalock valves

70 W External
ALCO Trax-Oil OM3
Sound Shell (10dBA)
suction and discharge

| MODEL NUMBER | A±3.0 | B | C | D±3.0 | F | G_ | H |
|--------------------------|-------|-------|-------|-------|-------|------|------|
| ZF06K4/K4E | 368.7 | 343.1 | 243.8 | 202.2 | 279.4 | 68.9 | 43.4 |
| ZF08K4/K4E ZF09K4/K4E | 391.3 | 365.7 | 263.7 | 222.1 | 302.0 | 74.6 | 49.1 |
| ZF11K4/K4E | 405.0 | 379.4 | 276.4 | 234.8 | 315.7 | 74.6 | 49.1 |
| ZS15K4/K4E | 368.7 | 343.1 | 243.8 | 202.2 | OMIT | 68.9 | 43.4 |
| ZS19K4/K4E ZS21K4/K4E | 391.3 | 365.7 | 263.7 | 222.1 | OMIT | 74.6 | 49.1 |
| ZS26K4/K4E | 405.0 | 379.4 | 276.4 | 234.8 | OMIT | 74.6 | 49.1 |
| ZB15KC/KCE ZB19KC/KCE | 368.7 | 343.1 | 243.8 | 202.2 | OMIT | 68.9 | 43.4 |
| ZB21KC/KCE | 391.3 | 365.7 | 263.7 | 222.1 | OMIT | 74.6 | 49.1 |
| ZB26KC/KCE | 405.0 | 379.4 | 276.4 | 234.8 | OMIT | 74.6 | 49.1 |
| ZB29KCE | 423.4 | 397.1 | 293.5 | 252.0 | OMIT | 74.6 | 49.1 |

