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Copeland[™]
brand products



EMERSON[™]



Project Report

| | |
|--|-----------------|
| Refrigerant | R410A Dew Point |
| High Side Properties: | |
| Condensing Temperature, °C | 45.00 |
| Abs. Condensing Pressure, bar | 27.18 |
| Dew Point, °C | 45.00 |
| Bubble Point, °C | 44.90 |
| Saturated vapour enthalpy, kJ/kg | 424.00 |
| Specific volume of saturated vapour, dm ³ /kg | 8.40 |
| Liquid Temperature, °C | 44.90 |
| Liquid enthalpy, kJ/kg | 275.00 |
| Low Side Properties: | |
| Evaporating Temperature, °C | -10.00 |
| Evaporating Abs. Pressure, bar | 5.72 |
| Dew Point, °C | -10.00 |
| Bubble Point, °C | -10.10 |
| With vapour at, °C | 0.00 |
| Specific volume, dm ³ /kg | 48.50 |
| Enthalpy, kJ/kg | 427.00 |
| Operating Conditions: | |
| Evaporating Temperature, °C | -10.00 |
| Condensing Temperature, °C | 45.00 |
| Suction Superheat, K | 10.00 |
| Subcooling, K | 0.00 |
| Compressor Selected | ZP385KCE-TWD |

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZP385KCE-TWD Data at 50 Hz**

| | |
|------------------------|--------|
| Cooling Capacity, kW | 50.20 |
| Power, kW | 22.70 |
| COP | 2.21 |
| Current at 400 V, A | 39.96 |
| Suction Mass Flow, g/s | 329.00 |
| Heating Capacity, kW | 71.70 |
| Isentropic Eff., % | 67.57 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|--|-------------------------|
| Displacement @ 50 Hz, m ³ /h | 60.8 |
| Length/Width, mm | 447/427 |
| Height, mm | 724 |
| Net Weight, kg | 176 |
| Stub Suction, inch | 1 5/8 |
| Stub Discharge, inch | 1 3/8 |
| Oil Quantity, l | 6.3 |
| Oil type (original charge) | POE RL32-3MAF |
| Oil type (approved oils) | POE RL32-3MAF |
| Base mounting (hole dia), mm | 266.7 x 266.7 (22.6) |
| Sound Pressure @ 1m (HT), dBA | 74 |
| Sound Power (HT), dBA | 85 |
| Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed) | 7 / 54 / 18 °C at 50 Hz |
| PED Category | 2 |
| Max. Internal Free Volume, l | 31.6 |
| High Side PS gauge, bar | 45 |
| Low Side PS gauge, bar | 29.5 |
| Low Side TS Max., °C | 50 |
| Low Side TS Min., °C | -35 |
| Refrigerant's GWP | 2088 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 65.4 |
| Locked Rotor Current, A | 310 |
| Winding Resistance, ohm | 0.36 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|----------------------------------|--------------------------------|
| Enclosure Class | IP 54 |
| Discharge Temperature Protection | Internal Thermistor |
| Discharge Temperature Protection | PTC in Scroll Discharge Port |
| Oil Charge | |
| Mounting Grommets | Rubber Grommet For Single |
| Oil Service Valve | Schraeder Valve |
| Check Valve | Discharge Low Leak Check Valve |
| Mounting Grommets | Standard |

ACCESSORIES OPTIONAL

| | |
|--------------------|------------------------------|
| Mounting Grommets | Rubber Grommet For Parallel |
| Oil Control System | Operation |
| Crankcase Heater | ALCO Trax-Oil OM4 |
| Adapter Kit | 102 W External |
| | R1"3/4 - B1"3/8 For TPTL for |
| | Parallel Operation |

ZH125,150KCE
ZP295,385KCE
ZR310,380KCE

