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brand products



EMERSON[™]



Project Report

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Author Name:

| | |
|--|--------|
| Refrigerant | R22 |
| High Side Properties: | |
| Condensing Temperature, °C | 50.00 |
| Condensing Abs. Pressure, bar | 19.42 |
| Dew Point, °C | 50.00 |
| Bubble Point, °C | 50.00 |
| Saturated vapour enthalpy, kJ/kg | 718.24 |
| Specific volume of saturated vapour, dm ³ /kg | 11.71 |
| Liquid Temperature, °C | 50.00 |
| Liquid enthalpy, kJ/kg | 563.07 |
| Low Side Properties: | |
| Evaporating Temperature, °C | 0.00 |
| Evaporating Abs. Pressure, bar | 4.97 |
| Dew Point, °C | 0.00 |
| Bubble Point, °C | 0.00 |
| With vapour at, °C | 20.00 |
| Specific volume, dm ³ /kg | 52.08 |
| Enthalpy, kJ/kg | 719.99 |
| Operating Conditions: | |
| Evaporating Temperature, °C | 0.00 |
| Condensing Temperature, °C | 50.00 |
| Suction Return Temperature, °C | 20.00 |
| Subcooling, K | 0.00 |
| Compressor Selected | LE-201 |

**PERFORMANCE AT SPECIFIED OPERATING POINT
LE-201 Data at 60Hz**

| | |
|----------------------|-------|
| Cooling Capacity, kW | 7.56 |
| Power, kW | 3.02 |
| COP | 2.50 |
| Current at 380 V, A | 5.80 |
| Mass Flow, g/s | 48.20 |
| Heat Rejection, kW | 9.39 |
| Isentropic Eff., % | 60.51 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|--|
| Number of cylinders | 2 |
| Displacement @ 60 Hz, m ³ /h | 11.9 |
| Bore/Stroke, mm | 44.5/36.5 |
| Length/Width, mm | 460/330 |
| Height, mm | 385 |
| Net Weight, kg | 78 |
| Gross Weight, kg | 84 |
| Suction, inch | 7/8 |
| Discharge, inch | 5/8 |
| Oil Quantity, l | 2 |
| Frequency Range, Hz | 25 - 60 |
| Oil type (original charge) | Suniso 3GS |
| Oil type (approved oils) | Suniso 3GS, TEXACO Capella WF 32, FUCHS Reniso KM |
| Base mounting (hole dia), mm | 295 x 279 (14.0) |
| High Side PS, bar(g) | 32.5 |
| Low Side PS, bar(g) | 22.5 |
| Refrigerant's GWP | 1810 |
| Refrigerant's classification | A1 |

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 60 Hz)

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 6.8 |
| Locked Rotor Current, A | 48.5 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

| | |
|------------------|---|
| Mounting Springs | 4 |
|------------------|---|

ACCESSORIES OPTIONAL

| | |
|--------------------|------------------------------|
| Additional Cooling | 1 or 2 ways water Coil |
| Additional Cooling | 70 W Vertical Air Flow Fan |
| Additional Cooling | 25 W Horizontal Air Flow Fan |
| Crankcase Heater | 70 W Internal |
| Adapter Kit | For Parallel Operation |
| Oil Control System | ALCO Trax-Oil OM3 |

DL without oil pump

