



Select 8

Copeland[™]
brand products



EMERSON[™]



Project Report

Project Details: sabacool.ir
 Contact: 09128869515-Sarma Tajhiz Saba
 Alborz Industrial City, Qazvin, Iran

Author Name:

| | |
|---|-----------------|
| Refrigerant | R407C Dew Point |
| High Side Properties: | |
| Condensing Temperature, °C | 50.00 |
| Condensing Abs. Pressure, bar | 19.85 |
| Dew Point, °C | 50.00 |
| Bubble Point, °C | 45.37 |
| Saturated vapour enthalpy, kJ/kg | 425.41 |
| Specific volume of saturated vapour, dm³/kg | 10.97 |
| Liquid Temperature, °C | 45.37 |
| Liquid enthalpy, kJ/kg | 269.01 |
| Low Side Properties: | |
| Evaporating Temperature, °C | 0.00 |
| Evaporating Abs. Pressure, bar | 4.61 |
| Dew Point, °C | 0.00 |
| Bubble Point, °C | 6.27- |
| With vapour at, °C | 20.00 |
| Specific volume, dm³/kg | 56.22 |
| Enthalpy, kJ/kg | 427.25 |
| Operating Conditions: | |
| Evaporating Temperature, °C | 0.00 |
| Condensing Temperature, °C | 50.00 |
| Suction Return Temperature, °C | 20.00 |
| Subcooling, K | 0.00 |
| Compressor Selected | D4SH-250X |

**PERFORMANCE AT SPECIFIED OPERATING POINT
D4SH-250X Data at 50Hz**

| | |
|----------------------|--------|
| Cooling Capacity, kW | 44.40 |
| Power, kW | 16.30 |
| COP | 2.72 |
| Current at 400 V, A | 29.73 |
| Mass Flow, g/s | 280.00 |
| Heat Rejection, kW | 59.90 |
| Isentropic Eff., % | 68.24 |

COMPRESSOR MECHANICAL AND PHYSICAL DATA

| | |
|---|--|
| Number of cylinders | 4 |
| Displacement @ 50 Hz, m ³ /h | 70.8 |
| Bore/Stroke, mm | 68.3/55.6 |
| Length/Width, mm | 670/490 |
| Height, mm | 495 |
| Net Weight, kg | 194 |
| Gross Weight, kg | 210 |
| Suction, inch | 2 1/8 |
| Discharge, inch | 1 1/8 |
| Oil Quantity, l | 3.3 |
| Frequency Range, Hz | 25 - 60 |
| 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 | 381 x 305 (18.0) |
| Sound Pressure @ 1m, dBA | 71 |
| Sound Power, dBA | 82 |
| High Side PS, bar(g) | 32.5 |
| Low Side PS, bar(g) | 22.5 |
| Refrigerant's GWP | 1774 |
| Refrigerant's classification | A1 |

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

| | |
|------------------------------|----------------|
| Maximum Operating Current, A | 41 |
| Locked Rotor Current, A | 199 |
| Default Enclosure Class | IP 54 (IEC 34) |

ACCESSORIES INCLUDED

Oil Pressure Switch
Mounting Springs

OPS2 Sensor
4

ACCESSORIES OPTIONAL

Additional Cooling
Capacity Control
Crankcase Heater
Discharge Temperature Protection
Enclosure Class
Oil Pressure Switch
Unloaded start
Deep Oil Sump
Adapter Kit
Check Valve
Oil Control System
Inverter

70 W Vertical Air Flow Fan
Capacity Steps 50%
100 W Internal
Head PTC sensor
IP 56
OPS2 Electronic Switch
Available
Mounted
For Parallel Operation
For unloaded start operation
ALCO Trax-Oil OM3
Emerson Industrial Automation,
Unidrive M200 06 400 470

D4SH

