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Project Report

Project Details: sabacool.ir
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Author Name:

Refrigerant	R134a
High Side Properties:	
Condensing Temperature, °C	50.00
Condensing Abs. Pressure, bar	13.17
Dew Point, °C	50.00
Bubble Point, °C	50.00
Saturated vapour enthalpy, kJ/kg	424.30
Specific volume of saturated vapour, dm ³ /kg	15.10
Liquid Temperature, °C	50.00
Liquid enthalpy, kJ/kg	272.48
Low Side Properties:	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	2.93
Dew Point, °C	0.00
Bubble Point, °C	0.00
With vapour at, °C	20.00
Specific volume, dm ³ /kg	76.17
Enthalpy, kJ/kg	416.59
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	50.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	D6SL-250X

Additional restrictions, please see application guidelines

**PERFORMANCE AT SPECIFIED OPERATING POINT
D6SL-250X Data at 50Hz**

Cooling Capacity, kW	46.10
Power, kW	17.90
COP	2.57
Current at 400 V, A	31.83
Mass Flow, g/s	320.00
Heat Rejection, kW	63.20
Isentropic Eff., %	61.83

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	106
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	740/540
Height, mm	490
Net Weight, kg	216
Gross Weight, kg	232
Rotalock Discharge, inch	1 3/8
Suction, inch	2 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)
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	56.5
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

Additional restrictions, please see application guidelines

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 66/33%
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 M400 07 400 770

Additional restrictions, please see application guidelines

D6SF, D6SA, D6SL,
D6SH2000, D6SH2000

