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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	8DL-370X

**PERFORMANCE AT SPECIFIED OPERATING POINT
8DL-370X Data at 50Hz**

Cooling Capacity, kW	69.50
Power, kW	24.10
COP	2.88
Current at 400 V, A	46.18
Mass Flow, g/s	483.00
Heat Rejection, kW	92.50
Isentropic Eff., %	69.24

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	151
Bore/Stroke, mm	68.3/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	323
Gross Weight, kg	344
Suction, inch	2 5/8
Discharge, inch	1 5/8
Oil Quantity, l	7.6
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	457 x 305 (18.0)
Sound Pressure @ 1m, dBA	75
Sound Power, dBA	86
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	74.3
Locked Rotor Current, A	349
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4
Deep Oil Sump	Mounted

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75%
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M400 07 401 000

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