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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	KSL-15X

PERFORMANCE AT SPECIFIED OPERATING POINT
KSL-15X Data at 60Hz

Cooling Capacity, kW	4.45
Power, kW	2.06
COP	2.16
Current at 380 V, A	3.42
Mass Flow, g/s	30.90
Heat Rejection, kW	5.52
Isentropic Eff., %	51.84

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 60 Hz, m ³ /h	11
Bore/Stroke, mm	47.6/29.4
Length/Width, mm	365/235
Height, mm	280
Net Weight, kg	40
Gross Weight, kg	42
Suction, inch	5/8
Discharge, inch	1/2
Oil Quantity, l	0.65
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	208 x 162 (11.0)
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~ / 60 Hz)

Maximum Operating Current, A	4
Locked Rotor Current, A	25.6
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
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ACCESSORIES OPTIONAL

Additional Cooling
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Additional Cooling
Crankcase Heater
Adapter Kit
Oil Control System
Inverter

1 or 2 ways water Coil
25 W Horizontal Air Flow Fan
7 W Vertical Air Flow Fan
27 W Internal
For Parallel Operation
ALCO Trax-Oil OM3
Emerson Industrial Automation,
Unidrive M200 03 400 056

DK with oil pump

