



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	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	50.00
Condensing Abs. Pressure, bar	22.98
Dew Point, °C	50.00
Bubble Point, °C	49.70
Saturated vapour enthalpy, kJ/kg	381.56
Specific volume of saturated vapour, dm ³ /kg	7.29
Liquid Temperature, °C	49.70
Liquid enthalpy, kJ/kg	276.83
Low Side Properties:	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	6.04
Dew Point, °C	0.00
Bubble Point, °C	0.54-
With vapour at, °C	20.00
Specific volume, dm ³ /kg	36.66
Enthalpy, kJ/kg	384.92
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	50.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	D3SS-100X

**PERFORMANCE AT SPECIFIED OPERATING POINT
D3SS-100X Data at 60Hz**

Error Evap. pressure out of range

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 60 Hz, m ³ /h	60.2
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	162
Gross Weight, kg	177
Suction, inch	1 3/8
Discharge, inch	1 1/8
Oil Quantity, l	3.7
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 (LT), dBA	69
Sound Pressure @ 1m (MT), dBA	68
Sound Power (LT), dBA	80
Sound Power (MT), dBA	79
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	31.2
Locked Rotor Current, A	155
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	70 W Internal
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M200 06 400 420

D3DA 75X / 750
D3DC 100X / 1000
D3DS 100X / 1000

