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EMERSON



Project Report

Project Details: frigotehnie.ro
Contact: Kubitech
RO

Author Name:

Refrigerant	R410A Dew Point
High Side Properties:	
Condensing Temperature, °C	45.00
Abs. Condensing Pressure, bar	27.18
Dew Point, °C	45.00
Bubble Point, °C	44.90
Saturated vapour enthalpy, kJ/kg	424.00
Specific volume of saturated vapour, dm ³ /kg	8.40
Liquid Temperature, °C	44.90
Liquid enthalpy, kJ/kg	275.00
Low Side Properties:	
Evaporating Temperature, °C	-10.00
Evaporating Abs. Pressure, bar	5.72
Dew Point, °C	-10.00
Bubble Point, °C	-10.10
With vapour at, °C	0.00
Specific volume, dm ³ /kg	48.50
Enthalpy, kJ/kg	427.00
Operating Conditions:	
Evaporating Temperature, °C	-10.00
Condensing Temperature, °C	45.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	ZP182KCE-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZP182KCE-TFD Data at 50 Hz**

Cooling Capacity, kW	24.20
Power, kW	10.75
COP	2.25
Current at 400 V, A	22.37
Suction Mass Flow, g/s	158.50
Heating Capacity, kW	34.40
Isentropic Eff., %	68.71

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	29.1
Length/Width, mm	281/285
Height, mm	552
Net Weight, kg	66.2
Gross Weight, kg	77
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.25
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	66
Sound Power (HT), dBA	77
Sound Power with Sound Shell (HT), dBA	66
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	14.0
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	34
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection

ASTP Therm-O-Disc In Scroll

ACCESSORIES OPTIONAL

Mounting Grommets

Mounting Grommets

Hard Mounts for Paralleling

Rubber Grommet For Single

ZR160, 190 KCE
ZP154, 182 KCE
ZH 64, 75 KCE

