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Copeland[™]
brand products



EMERSON[™]



Project Report

Refrigerant	R407C Dew Point
High Side Properties:	
Condensing Temperature, °C	50.00
Abs. Condensing Pressure, bar	19.85
Dew Point, °C	50.00
Bubble Point, °C	45.40
Saturated vapour enthalpy, kJ/kg	425.00
Specific volume of saturated vapour, dm ³ /kg	11.00
Liquid Temperature, °C	45.40
Liquid enthalpy, kJ/kg	269.00
Low Side Properties:	
Evaporating Temperature, °C	5.00
Evaporating Abs. Pressure, bar	5.47
Dew Point, °C	5.00
Bubble Point, °C	-1.10
With vapour at, °C	15.00
Specific volume, dm ³ /kg	45.30
Enthalpy, kJ/kg	421.00
Operating Conditions:	
Evaporating Temperature, °C	5.00
Condensing Temperature, °C	50.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	ZH56K4E-TWD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZH56K4E-TWD Data at 50 Hz

Cooling Capacity, kW	18.85
Power, kW	6.18
COP	3.05
Current at 400 V, A	12.75
Suction Mass Flow, g/s	124.50
Heating Capacity, kW	24.70
Isentropic Eff., %	66.53

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	20.9
Length/Width, mm	357/321
Height, mm	497
Net Weight, kg	93
Gross Weight, kg	100
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	4
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	220 x 220 (8.5)
Sound Pressure @ 1m (HT), dBA	75
Sound Power (HT), dBA	86
Sound Power with Sound Shell (HT), dBA	74
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Internal Free Volume, l	17.0
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	17
Locked Rotor Current, A	99
Winding Resistance, ohm	1.41
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Sound Attenuation	Sound Shell (10dBA)
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