

**SM100-4VI****Scroll compressor, SM100S4VC**

Refrigerant: R22, Segment usage: Air conditioning, Compressor power supply  
[V/Ph/Hz]: 400/3/50 460/3/60

**PRODUCT DETAILS**

<b>Gross weight</b>	70.84 kg
<b>Net weight</b>	65 kg
<b>EAN</b>	5702428839464
<b>Approval standard</b>	CE UL
<b>Brand technique</b>	Scroll compressor
<b>Capacity control</b>	Fixed speed
<b>Colour</b>	Blue
<b>Compressor power supply [V/Ph/Hz]</b>	400/3/50 460/3/60
<b>Configuration code</b>	Single
<b>Connection type</b>	Brazed
<b>Description</b>	SM100-4
<b>Diameter [mm]</b>	254 mm
<b>Discharge connection height [mm]</b>	465 mm
<b>Discharge connection pipe size [in]</b>	3/4 in
<b>Discharge connection size [in]</b>	3/4 in
<b>Drawing number</b>	8552036b
<b>Economizer</b>	No
<b>Factory HP [bar]</b>	33 bar
<b>Factory LP [bar]</b>	25 bar
<b>Fitting standard</b>	ODF
<b>Frequency [Hz]</b>	50/60
<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<b>Generation code</b>	C
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 Nm
<b>GP LP torque [Nm]</b>	15 Nm
<b>High side max pressure (Ps)</b>	30.2 bar
<b>High Side TS Max</b>	150 °C
<b>High Side TS Min</b>	-35 °C
<b>High Side Volume</b>	1.1 L
<b>High value of nominal voltage at 50Hz [V]</b>	400 V
<b>High value of nominal voltage at 60Hz [V]</b>	460 V
<b>High value of voltage range at 50Hz [V]</b>	440 V

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## Product Detail | Scroll compressor, SM100S4VC

## PRODUCT DETAILS

High value of voltage range at 60Hz [V]	506 V
IP protection class	IP54 (with cable gland)
Low side max pressure (Ps)	25 bar
Low Side TS Max	63 °C
Low Side TS Min	-35 °C
Low Side Volume	13 L
Low value of nominal voltage at 50Hz [V]	380 V
Low value of nominal voltage at 60Hz [V]	460 V
Low value of voltage range at 50Hz [V]	342 V
Low value of voltage range at 60Hz [V]	414 V
LRA	98 A
Maximum Operating Current [MOC]	18 A
MCC	19 A
Model number	SM100S4VC
Motor protection	Internal overload protector
Mounting torque [Nm]	21 Nm
Nominal cooling capacity 60 kBTU/h	128.33 kBTU/h
Nominal cooling capacity at 50Hz	20.9 kW
Nominal cooling capacity at 60Hz	37.6 kW
Number of starts per hour [Max]	12
Oil charge [L]	3.25 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	48 Nm
Oil reference	160P
Oil type	Mineral
Packaging height [mm]	596 mm
Packaging length [mm]	470 mm
Packaging weight [Kg]	69 kg
Packaging width [mm]	370 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw 4.8 mm
Refrigerant	R22
Refrigerant charge [kg] [Max]	8.5 kg
Relief valve	None
RLA	13.6 A
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
Segment usage	Air conditioning
Shipped instructions	Installation instructions
Shipped mounting	Mounting kit with grommets, bolts, nuts, sleeves and washers
Shipped oil	Initial oil charge
Suction connection height [mm]	142 mm
Suction connection pipe size [in]	1 1/8 in

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**Product Detail | Scroll compressor, SM100S4VC**
**PRODUCT DETAILS**

<b>Suction connection size [in]</b>	1 1/8 in
<b>Swept volume [cm<sup>3</sup>]</b>	127.2 cm <sup>3</sup>
<b>Technology</b>	Scroll
<b>Test dif [bar] [Max]</b>	24 bar
<b>Test HP [bar] [Max]</b>	32 bar
<b>Test LP [bar] [Max]</b>	25 bar
<b>Torque earth [Nm]</b>	2 Nm
<b>Torque power [Nm]</b>	3 Nm
<b>Total height [mm]</b>	508 mm
<b>Type</b>	SM
<b>Type designation</b>	Compressor
<b>Viscosity [cP]</b>	32 cP
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	1.48 Ohm

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**Accessories**

**7750009** [🔗](#)
**Discharge thermostat kit**

Discharge thermostat kit


**8153004** [🔗](#)
**Adaptor**

Solder sleeve, P02 (1-3/4" rotolock, 1-1/8" ODF)


**8156131** [🔗](#)
**Gasket, 1-1/4"**

Gasket, 1-1/4"


**7765005** [🔗](#)
**Adaptor**

Solder sleeve adaptor set (1-3/4" rotolock, 1-1/8" ODF), (1-1/4" rotolock, 3/4" ODF)


**8173230** [🔗](#)
**T block connector 52 x 57 mm**

T block connector 52 x 57 mm


**8156138** [🔗](#)
**Mounting kit**

Mounting kit for one-scroll compressor, including 4 grommets, 4 sleeves, 4 bolts, 4 washers

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Accessories



**8153008** [🔗](#)

**Adaptor**

Solder sleeve, P04 (1-1/4" rotolock, 3/4" ODF)



**8156132** [🔗](#)

**Gasket, 1-3/4"**

Gasket, 1-3/4"



**8156135** [🔗](#)

**Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp**

Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp



**8156013** [🔗](#)

**Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black and white**

Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black and white



**7755011** [🔗](#)

**Acoustic hood for scroll compressor S084-S090-S100**

Acoustic hood for scroll compressor S084-S090-S100

Spare Parts



**120Z0466** [🔗](#)

**Belt type crankcase heater, 65 W, 460 V, CE mark, UL**

Belt type crankcase heater, 65 W, 460 V, CE mark, UL



**7773117** [🔗](#)

**Belt type crankcase heater, 65 W, 400 V, CE mark, UL**

Belt type crankcase heater, 65 W, 400 V, CE mark, UL



**8168028** [🔗](#)

**Rotolock valve, V02 (1-3/4" rotolock, 1-1/8" ODF), Service kit**

VALVE SETS V02 1 3/4"-1 1/8"



**120Z0039** [🔗](#)

**Belt type crankcase heater, 65 W, 400 V, CE mark, UL**

Belt type crankcase heater, 65 W, 400 V, CE mark, UL

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Spare Parts



**7773107** [🔗](#)

**Belt type crankcase heater, 65 W, 230 V, CE mark, UL**

Belt type crankcase heater, 65 W, 230 V, CE mark, UL



**120Z0381** [🔗](#)

**Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL**

Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL



**120Z0361** [🔗](#)

**Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL**

Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL



**7705006** [🔗](#)

**MCI**

Electronic soft start kit, MCI 15 C



**7703009** [🔗](#)

**Valve set**

Packing format: Multi pack, Packing quantity: 6



**8168029** [🔗](#)

**Rotolock valve, V04 (1-1/4" rotolock, 3/4" ODF), Service kit**

VALVE SETS V04 1 1/4"-3/4"



**120Z0382** [🔗](#)

**Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL**

Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL



**8156019** [🔗](#)

**Oil sight glass with gaskets (black and white)**

Oil sight glass with gaskets (black and white)



**120Z0380** [🔗](#)

**Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL**

Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL



**7754001** [🔗](#)

**Mineral oil, 160P, 2-litre can**

Mineral oil, 160P, 2-litre can

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Spare Parts

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**8156129** [🔗](#)

**Gasket for oil sight glass (white teflon)**

Gasket for oil sight glass (white teflon)

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