



# SM120-4VI 🛛

# Scroll compressor, SM120S4VC

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

## **PRODUCT DETAILS**

Gross weight	79.34 kg
Net weight	73 kg
EAN	5702428839402
Approval standard	CE
	UL
Brand technique	Scroll compressor
Capacity control	Fixed speed
Colour	Blue
Compressor power supply [V/Ph/	400/3/50 460/3/60
Hz]	
Configuration code	Single
Connection type	Brazed
Description	SM120-4
Diameter [mm]	254 mm
Discharge connection height [mm]	515 mm
Discharge connection pipe size [in]	7/8 in
Discharge connection size [in]	7/8 in
Drawing number	8552037b
Economizer	No
Factory HP [bar]	33 bar
Factory LP [bar]	25 bar
Fitting standard	ODF
Frequency [Hz]	50/60
Gauge port HP	None
Gauge port LP	Schrader
Generation code	C
Glass mounting	Threaded
Glass torque [Nm]	50 Nm
GP LP torque [Nm]	15 Nm
High side max pressure (Ps)	30.2 bar
High Side TS Max	150 °C
High Side TS Min	-35 ℃
High Side Volume	1.1 L
High value of nominal voltage at	400 V
50Hz [V]	
High value of nominal voltage at	460 V
60Hz [V]	
High value of voltage range at 50Hz	440 V
[V]	

PRODUCT DETAILS
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	5061/
High value of voltage range at 60Hz	506 V
IP protection class	IP54 (with cable gland)
Low side max pressure (Ps)	25 bar
Low Side TS Max	63 ℃
Low Side TS Min	-35 ℃
Low Side Volume	13.6 L
Low value of nominal voltage at	380 V
50Hz [V]	
Low value of nominal voltage at	460 V
60Hz [V]	
Low value of voltage range at 50Hz	342 V
[V]	
Low value of voltage range at 60Hz	414 V
[V]	
LRA	130 A
Maximum Operating Current [MOC]	24 A
МСС	29 A
Model number	SM120S4VC
Motor protection	Internal overload protector
Mounting torque [Nm]	21 Nm
Nominal cooling capacity 60 kBTU/	125.26 kBtu/h
h	
Nominal cooling capacity at 50Hz	27.3 kW
Nominal cooling capacity at 60Hz	36.7 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]	78 kg
Packaging width [mm]	370 mm
Packing format	Single pack
	1
Packing quantity Phase	3
Power connections	Screw 4.8 mm
Refrigerant	R22
Refrigerant charge [kg] [Max]	10 kg
Relief valve	None
RLA	20.7 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]	178 mm
Suction connection pipe size [in]	1 3/8 in



## PRODUCT DETAILS

Suction connection size [in]	1 3/8 in
Swept volume [cm3]	166.6 cm <sup>3</sup>
Technology	Scroll
Test dif [bar] [Max]	24 bar
Test HP [bar] [Max]	32 bar
Test LP [bar] [Max]	25 bar
Torque earth [Nm]	2 Nm
Torque power [Nm]	3 Nm
Total height [mm]	558 mm
Туре	SM
Type designation	Compressor
Viscosity [cP]	32 cP
Winding resistance for three-	1.05 Ohm
phase compressors with identical	
windings [Ohm]	

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store 🕑

#### Accessories

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
8173230 ☑ T block connector 52 x 57 mm T block connector 52 x 57 mm
<b>120Z0405</b> ☑ Adaptor Solder sleeve adaptor set (1-3/4" rotolock, 1-3/8" ODF), (1-1/4" rotolock, 7/8" 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
<b>8156138 2</b> <b>Mounting kit</b> Mounting kit for one-scroll compressor, including 4 grommets, 4 sleeves, 4 bolts, 4 washers

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## Product Detail | Scroll compressor, SM120S4VC

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#### Accessories

7750009 🖻 Discharge thermostat kit Discharge thermostat kit
7755010 Acoustic hood for scroll compressor S110-S120 Acoustic hood for scroll compressor S110-S120

**Spare Parts** 

<b>120Z0382</b> C Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL
7705007 🖻 MCI Electronic soft start kit, MCI 25 C
<b>120Z0381</b> Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL
7754001 🖻 Mineral oil, 160P, 2-litre can Mineral oil, 160P, 2-litre can
8156019 🖻 Oil sight glass with gaskets (black and white) Oil sight glass with gaskets (black and white)
8168022 Rotolock valve, V10 (1-3/4" rotolock, 1-3/8" ODF), Service kit VALVE SETS V10 1 3/4"-1 3/8"

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Spare Parts		
	<b>120Z0380 Z</b> Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL	
The second se	<b>7703392 ⊠</b> <b>Valve set</b> Packing format: Multi pack, Packing quantity: 6	
	7773117 IZ Belt type crankcase heater, 65 W, 400 V, CE mark, UL Belt type crankcase heater, 65 W, 400 V, CE mark, UL	
	<b>120Z0466 전</b> <b>Belt type crankcase heater, 65 W, 460 V, CE mark, UL</b> Belt type crankcase heater, 65 W, 460 V, CE mark, UL	
and the second sec	8168030 IZ Rotolock valve, V05 (1-1/4" rotolock, 7/8" ODF), Service kit VALVE SETS V05 1 1/4"-7/8"	
	<b>120Z0361</b> Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL	
	7773107 🖻 Belt type crankcase heater, 65 W, 230 V, CE mark, UL Belt type crankcase heater, 65 W, 230 V, CE mark, UL	
	8156129 🗹 Gasket for oil sight glass (white teflon) Gasket for oil sight glass (white teflon)	
	<b>120Z0039 전</b> <b>Belt type crankcase heater, 65 W, 400 V, CE mark, UL</b> Belt type crankcase heater, 65 W, 400 V, CE mark, UL	

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