



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

	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 ³
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
120Z0405 ☑ 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
8156138 2 Mounting kit 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

120Z0382 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
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
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		
	120Z0380 Z 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	7703392 ⊠ Valve set 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	
	120Z0466 전 Belt type crankcase heater, 65 W, 460 V, CE mark, UL 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"	
	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	
	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)	
	120Z0039 전 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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