

**SM161-4VAM****Scroll compressor, SM161T4VC**

Refrigerants: R22, Segment usage: Air conditioning, Compressor power supply [V]: 380-415/3/50 460/3/60, Packing format: Industrial pack

**PRODUCT DETAILS**

<b>Gross weight</b>	97.25 Kilogram
<b>Net weight</b>	88.73 Kilogram
<b>Volume</b>	0.13 Cubic meter
<b>EAN</b>	5702428660983
<b>Type</b>	SM161
<b>Product group</b>	Hermetic compressors
<b>Product Name Description</b>	Scroll compressor SM
<b>Brand technique</b>	Scroll compressor
<b>Capacity control</b>	Fixed speed
<b>CE evaluated</b>	Yes
<b>China RoHS compliance</b>	Yes with exemptions
<b>Colour</b>	Blue
<b>Compressor power supply [V]</b>	380-415/3/50 460/3/60
<b>Configuration code</b>	Single
<b>Connection type</b>	Brazed
<b>Contain batteries</b>	No
<b>Description</b>	SM161-4
<b>Diameter [mm]</b>	266 mm
<b>Discharge connection height [mm]</b>	556 mm
<b>Discharge connection pipe size [in]</b>	7/8 in
<b>Discharge connection size [in]</b>	7/8 in
<b>Drawing number</b>	8551106b
<b>Economizer</b>	No
<b>EU RoHS compliance</b>	Yes with exemptions
<b>EU RoHS exemption clause</b>	7(c)-I 6(a) 6(a)-I 6(c) 7(a) 8(b)
<b>Factory HP [bar]</b>	33 bar
<b>Factory LP [bar]</b>	25 bar
<b>Family</b>	SM
<b>Fitting standard</b>	ODF
<b>Frequency [Hz]</b>	50/60
<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 N-m

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## Product Detail | Scroll compressor, SM161T4VC

## PRODUCT DETAILS

GP LP torque [Nm]	15 N-m
High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	1.6 L
High value of nominal voltage at 50Hz [V]	400 V
High value of nominal voltage at 60Hz [V]	460 V
High value of voltage range at 50Hz [V]	440 V
High value of voltage range at 60Hz [V]	506 V
IDV	No
In scope of WEEE	No
IP protection class	IP54 (with cable gland)
Low Side TS Max	63 °C
Low Side TS Min	-35 °C
Low Side Volume	14.7 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	145 A
Max pressure (PS) - high side	30.2 bar
Max pressure (PS) - low side	25 bar
Maximum Operating Current [MOC]	31 A
MCC	32 A
Model number	SM161T4VC
Motor protection	Internal overload protector
Mounting torque [Nm]	21 N-m
Network power supply [V/Ph/Hz]	380-415/3/50 460/3/60
Number of starts per hour [Max]	12
Oil charge [L]	3.6 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	48 N-m
Oil reference	160P
Oil type	Mineral
Packaging height [mm]	790 mm
Packaging length [mm]	1140 mm
Packaging weight [Kg]	546 kg
Packaging width [mm]	950 mm
Packing format	Industrial pack
Packing quantity	6
Phase	3
Power connections	Screw 4.8 mm
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	12.5 kg
Refrigerants	R22

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## Product Detail | Scroll compressor, SM161T4VC

## PRODUCT DETAILS

RLA	22.9 A
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	2e9b0776-281a-4205-bf1f-dbee526b31d
SCIP dossier product name	SM084/SM090/SM100/SM110/SM120/ SM148/SM161/SZ084/SZ090/SZ100/ SZ110/SZ120/SZ148/SZ161
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]	180 mm
Suction connection material	-
Suction connection pipe size [in]	1 3/8 in
Suction connection size [in]	1 3/8 in
Swept volume [cm <sup>3</sup> ]	216.6 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 N-m
Torque power [Nm]	3 N-m
Total height [mm]	591 mm
UL evaluated	Yes
Viscosity [cP]	32 cP
Winding resistance for three-phase compressors with identical windings [Ohm]	0.94 Ohm

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store [🔗](#)

## Accessories



**8156132** [🔗](#)

**Connector, Gasket**

Gasket, 1-3/4"



**8173230** [🔗](#)

**Electrical component, T block**

T block connector 52 x 57 mm

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**Accessories**


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**7750009** [🔗](#)**Electrical component, Discharge thermostat kit**

Discharge thermostat kit

**8156135** [🔗](#)**Electrical component, Terminal box**

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

**8156138** [🔗](#)**Mounting, Compressor kit**

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

**7765006** [🔗](#)**Connector, Solder sleeve adaptor set**

Solder sleeve adaptor set (1-3/4" rotolock, 1-3/8" ODF), (1-1/4" rotolock, 7/8" ODF)

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**Spare Parts**


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**7703392** [🔗](#)**Connector, Valve set**

Valve set, V10 (1-3/4"~1-3/8"), V05 (1-1/4"~7/8")

**8156129** [🔗](#)**Connector, Gasket**

Gasket for oil sight glass (white teflon)

**8156019** [🔗](#)**Connector, Sight glass**

Oil sight glass with gaskets (black and white)

**120Z0466** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 460 V

**7773117** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V

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Spare Parts



**120Z0039** [🔗](#)

**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V



**7773107** [🔗](#)

**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 230 V

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