

**SZ161-4VAM** **Scroll compressor, SZ161T4VC**

Refrigerants: R404A; R407C; R134a; R513A, Segment usage: Air conditioning,
Compressor power supply [V]: 380-415/3/50 460/3/60, Packing format: Industrial
pack

PRODUCT DETAILS

Gross weight	93.66 Kilogram
Net weight	88.9 Kilogram
Volume	0.14 Cubic meter
EAN	5702428647151
Type	SZ161
Product group	Hermetic compressors
Product Name Description	Scroll compressor SZ
Brand technique	Scroll compressor
Capacity control	Fixed speed
CE evaluated	Yes
China RoHS compliance	Yes with exemptions
Colour	Blue
Compressor power supply [V]	380-415/3/50 460/3/60
Configuration code	Single
Connection type	Brazed
Contains batteries	No
Description	SZ161-4
Diameter [mm]	266 mm
Discharge connection height [mm]	556 mm
Discharge connection pipe size [in]	7/8 in
Discharge connection size [in]	7/8 in
Drawing number	8551106b
Economizer	No
EU RoHS compliance	Yes with exemptions
EU RoHS exemption clause	7(c)-I 6(a) 6(a)-I 6(c) 7(a) 8(b)
Factory HP [bar]	33 bar
Factory LP [bar]	25 bar
Family	SZ
Fitting standard	ODF
Frequency [Hz]	50/60
Gauge port HP	None
Gauge port LP	Schrader
Glass mounting	Threaded
Glass torque [Nm]	50 N-m

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Product Detail | Scroll compressor, SZ161T4VC

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	54 °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	34.3 bar
Max pressure (PS) - low side	25 bar
Maximum Operating Current [MOC]	31 A
MCC	32 A
Model number	SZ161T4VC
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	160SZ
Oil type	POE
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	R134a

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PRODUCT DETAILS

	R404A
	R407C
	R513A
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 [cm³]	216.6 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 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



7755017 [🔗](#)

Acoustic hood, Scroll

Acoustic hood for scroll compressor S148-S161 (except code 3)



8173230 [🔗](#)

Electrical component, T block

T block connector 52 x 57 mm

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Accessories

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

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

**8156132** [🔗](#)**Connector, Gasket**

Gasket, 1-3/4"

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

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

**8153003** [🔗](#)**Connector, Solder sleeve**

Solder sleeve, P10 (1-3/4" rotolock, 1-3/8" ODF)

**8156013** [🔗](#)**Connector, Gasket**

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

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

Discharge thermostat kit

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

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

Spare Parts

**120Z0039** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 400 V

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

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

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Product Detail | Scroll compressor, SZ161T4VC**Spare Parts****8168022** [🔗](#)**Connector, Valve**

Rotolock valve, V10 (1-3/4" rotolock, 1-3/8" ODF)

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

Belt type crankcase heater, 65 W, 400 V

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

Oil sight glass with gaskets (black and white)

**120Z0382** [🔗](#)**Crankcase heater, Surface sump heater**

Surface sump heater + bottom insulation, 48 W, 460 V

**8168030** [🔗](#)**Connector, Rotolock service valve**

Rotolock valve, V05 (1-1/4" rotolock, 7/8" ODF)

**120Z0380** [🔗](#)**Crankcase heater, Surface sump heater**

Surface sump heater + bottom insulation, 48 W, 230 V

**7773107** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 65 W, 230 V

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

Gasket for oil sight glass (white teflon)

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

Belt type crankcase heater, 65 W, 460 V

**120Z0381** [🔗](#)**Crankcase heater, Surface sump heater**

Surface sump heater + bottom insulation, 48 W, 400 V

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Spare Parts



120Z0361 [🔗](#)

Crankcase heater, Surface sump heater

Surface sump heater + bottom insulation, 48 W, 24 V



7754023 [🔗](#)

Lubricant, 160SZ

POE lubricant, 160SZ, 1-litre can

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