

**SZ148-4VAI****Scroll compressor, SZ148T4VC**

Refrigerants: R404A; R407C; R134a; R513A, Segment usage: Air conditioning,

Compressor power supply [V]: 380-415/3/50 460/3/60, Packing format: Single pack

PRODUCT DETAILS

Gross weight	105 Kilogram
Net weight	89.66 Kilogram
Volume	376.875 Liter
EAN	5702428582810
Type	SZ148
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
Contain batteries	No
Description	SZ148-4
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, SZ148T4VC

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]	29 A
MCC	32 A
Model number	SZ148T4VC
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]	671 mm
Packaging length [mm]	470 mm
Packaging weight [Kg]	671 kg
Packaging width [mm]	370 mm
Packing format	Single pack
Packing quantity	1
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 Detail | Scroll compressor, SZ148T4VC

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]	199 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



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

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

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Accessories

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

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

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

Gasket, 1-3/4"

**8173230** [🔗](#)**Electrical component, T block**

T block connector 52 x 57 mm

**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)

Spare Parts

**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)

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

Belt type crankcase heater, 65 W, 230 V

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

Belt type crankcase heater, 65 W, 400 V

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

Belt type crankcase heater, 65 W, 400 V

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Spare Parts



120Z0466 [🔗](#)

Crankcase heater, Belt heater

Belt type crankcase heater, 65 W, 460 V



8156019 [🔗](#)

Connector, Sight glass

Oil sight glass with gaskets (black and white)



7754023 [🔗](#)

Lubricant, 160SZ

POE lubricant, 160SZ, 1-litre can

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