

**SZ185-4RM** [↗](#)**Scroll compressor, SZ185S4RD**

Refrigerants: R404A; R407C; R134a; R513A, Segment usage: Air conditioning,
Compressor power supply [V]: 380-400/3/50 460/3/60, Packing format: Industrial
pack

PRODUCT DETAILS

Gross weight	104.2 Kilogram
Net weight	100 Kilogram
Volume	0.16 Cubic meter
EAN	5702428660204
Type	SZ185
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]	380-400/3/50 460/3/60
Configuration code	Single
Connection type	Rotolock
Contains batteries	No
Description	SZ185-4
Diameter [mm]	317 mm
Discharge connection height [mm]	643 mm
Discharge connection pipe size [in]	7/8 in
Discharge connection size [in]	1 3/4 in
Drawing number	8551119b
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 remark	(shipped with rotolock version only)
Fitting sleeve	ODF
Fitting standard	Rotolock
Frequency [Hz]	50/60
Gauge port HP	None
Gauge port LP	Schrader

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Product Detail | Scroll compressor, SZ185S4RD

PRODUCT DETAILS

Glass mounting	Threaded
Glass torque [Nm]	50 N-m
GP LP torque [Nm]	15 N-m
High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	2.5 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	31.2 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	175 A
Max pressure (PS) - high side	34.3 bar
Max pressure (PS) - low side	25 bar
Maximum Operating Current [MOC]	35 A
MMT	35 A
Model number	SZ185S4RD
Motor protection	Internal thermostat, ext. overload protector needed
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]	6.2 L
Oil drain	1/4" flare
Oil drain torque [Nm]	35 N-m
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	48 N-m
Oil reference	160SZ
Oil type	POE
Packaging height [mm]	877 mm
Packaging length [mm]	1140 mm
Packaging weight [Kg]	648 kg
Packaging width [mm]	950 mm
Packing format	Industrial pack
Packing quantity	6

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PRODUCT DETAILS

Phase	3
Power connections	Screw 4.8 mm
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	13.5 kg
Refrigerants	R134a R404A R407C R513A
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	58968d52- aa4c-4c0c-9aee-1ce6a31dfbd1
SCIP dossier product name	SM115/SM125/SM160/SM175/SM185/ SZ115/SZ125/SZ160/SZ175/SZ185/ SY185
Segment usage	Air conditioning
Shipped fittings	Suction and discharge solder sleeves, rotolock nuts and gaskets
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]	2 1/4 in
Swept volume [cm ³]	249.9 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 Ebox cover [Nm]	2 N-m
Torque power [Nm]	3 N-m
Total height [mm]	678 mm
UL evaluated	Yes
Viscosity [cP]	32 cP
Winding resistance for three- phase compressors with identical windings [Ohm]	0.77 Ohm

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

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Accessories



8156013 [🔗](#)
Connector, Gasket
 Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black and white



8153006 [🔗](#)
Connector, Solder sleeve
 Solder sleeve, P03 (2-1/4" rotolock, 1-5/8" ODF)



8153013 [🔗](#)
Connector, Solder sleeve
 Solder sleeve, P07 (1-3/4" rotolock, 7/8" ODF)



8156133 [🔗](#)
Connector, Gasket
 Gasket, 2-1/4"



7755007 [🔗](#)
Acoustic hood, Scroll
 Acoustic hood for scroll compressor S175-S185



8156132 [🔗](#)
Connector, Gasket
 Gasket, 1-3/4"



8173021 [🔗](#)
Electrical component, T block
 T block connector 60 x 75 mm



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



8156139 [🔗](#)
Electrical component, Terminal box
 Terminal box 186 x 198 mm, including cover



8153004 [🔗](#)
Connector, Solder sleeve
 Solder sleeve, P02 (1-3/4" rotolock, 1-1/8" ODF)

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Product Detail | Scroll compressor, SZ185S4RD
Accessories

8156147 [🔗](#)
Mounting, Compressor kit

Mounting kit for one-scroll compressor, including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 rotolock nuts, 2 solder sleeves, 2 gaskets


8156138 [🔗](#)
Mounting, Compressor kit

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


120Z0353 [🔗](#)
Acoustic hood, Scroll

Acoustic bottom insulation for scroll compressor


8153005 [🔗](#)
Connector, Solder sleeve

Solder sleeve, P08 (2-1/4" rotolock, 1-3/8" ODF)

Spare Parts

8156129 [🔗](#)
Connector, Gasket

Gasket for oil sight glass (white teflon)


120Z0378 [🔗](#)
Crankcase heater, Surface sump heater

Surface sump heater + bottom insulation, 56 W, 460 V


7773118 [🔗](#)
Crankcase heater, Belt heater

Belt type crankcase heater, 75 W, 400 V


8156019 [🔗](#)
Connector, Sight glass

Oil sight glass with gaskets (black and white)


8168026 [🔗](#)
Connector, Rotolock service valve

Rotolock valve, V03 (2-1/4" rotolock, 1-5/8" ODF)

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Product Detail | Scroll compressor, SZ185S4RD**Spare Parts****7703010** [🔗](#)**Connector, Valve set**

Valve set, V08 (2-1/4"~1-3/8"), V07 (1-3/4"~7/8")

**120Z0377** [🔗](#)**Crankcase heater, Surface sump heater**

Surface sump heater + bottom insulation, 56 W, 400 V

**120Z0464** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 75 W, 460 V

**120Z0360** [🔗](#)**Crankcase heater, Surface sump heater**

Surface sump heater + bottom insulation, 56 W, 24 V

**8168028** [🔗](#)**Connector, Rotolock service valve**

Rotolock valve, V02 (1-3/4" rotolock, 1-1/8" ODF)

**8168032** [🔗](#)**Connector, Rotolock service valve**

Rotolock valve, V07 (1-3/4" rotolock, 7/8" ODF)

**8168025** [🔗](#)**Connector, Rotolock service valve**

Rotolock valve, V08 (2-1/4" rotolock, 1-3/8" ODF)

**7773108** [🔗](#)**Crankcase heater, Belt heater**

Belt type crankcase heater, 75 W, 230 V

**7754023** [🔗](#)**Lubricant, 160SZ**

POE lubricant, 160SZ, 1-litre can

**120Z0376** [🔗](#)**Crankcase heater, Surface sump heater**

Surface sump heater + bottom insulation, 56 W, 230 V

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