

**SM185-4CAI****Scroll compressor, SM185S4CD**

Refrigerants: R22, Segment usage: Air conditioning, Compressor power supply [V]: 380-400/3/50 460/3/60, Packing format: Single pack

PRODUCT DETAILS

Gross weight	111 Kilogram
Net weight	100 Kilogram
Volume	393.75 Liter
EAN	5702428980425
Type	SM185
Product group	Hermetic compressors
Product Name Description	Scroll compressor SM
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	Brazed
Contain batteries	No
Description	SM185-4
Diameter [mm]	317 mm
Discharge connection height [mm]	643 mm
Discharge connection pipe size [in]	1 1/8 in
Discharge connection size [in]	1 1/8 in
Drawing number	8551056c
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	SM
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, SM185S4CD

PRODUCT DETAILS

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	63 °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	30.2 bar
Max pressure (PS) - low side	25 bar
Maximum Operating Current [MOC]	35 A
MMT	35 A
Model number	SM185S4CD
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	160P
Oil type	Mineral
Packaging height [mm]	698 mm
Packaging length [mm]	470 mm
Packaging weight [Kg]	106 kg
Packaging width [mm]	400 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw 4.8 mm

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Product Detail | Scroll compressor, SM185S4CD

PRODUCT DETAILS

REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	13.5 kg
Refrigerants	R22
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 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 5/8 in
Suction connection size [in]	1 5/8 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 [🔗](#)

Accessories



7750009 [🔗](#)

Electrical component, Discharge thermostat kit

Discharge thermostat kit



8156133 [🔗](#)

Connector, Gasket

Gasket, 2-1/4"

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Accessories

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

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

**7765028** [🔗](#)**Connector, Solder sleeve adapter set**

Solder sleeve adaptor set, (2-1/4" rotolock, 1-5/8" ODF), (1-3/4" rotolock, 1-1/8" ODF)

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

Gasket, 1-3/4"

**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)

**120Z0353** [🔗](#)**Acoustic hood, Scroll**

Acoustic bottom insulation for scroll compressor

**8173021** [🔗](#)**Electrical component, T block**

T block connector 60 x 75 mm

**8153006** [🔗](#)**Connector, Solder sleeve**

Solder sleeve, P03 (2-1/4" rotolock, 1-5/8" ODF)

Spare Parts

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

Gasket for oil sight glass (white teflon)

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Spare Parts



120Z0432 [🔗](#)

Connector, Rotolock adapter

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



8156019 [🔗](#)

Connector, Sight glass

Oil sight glass with gaskets (black and white)



7773108 [🔗](#)

Crankcase heater, Belt heater

Belt type crankcase heater, 75 W, 230 V



120Z0364 [🔗](#)

Connector, Rotolock adapter

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



120Z0376 [🔗](#)

Crankcase heater, Surface sump heater

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

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