

**SY380A4CBM****Scroll compressor, SY380A4CBE**

Refrigerants: R407C; R134a; R513A; R22, Segment usage: Air conditioning,
Compressor power supply [V]: 380-415/3/50 460/3/60, Packing format: Industrial
pack

PRODUCT DETAILS

Gross weight	170.12 Kilogram
Net weight	164.9 Kilogram
Volume	0.1 Cubic meter
EAN	5702428660556
Type	SY380
Product group	Hermetic compressors
Product Name Description	Scroll compressor SY
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	SY380-4
Diameter [mm]	344 mm
Discharge connection height [mm]	654 mm
Discharge connection pipe size [in]	1 3/8 in
Discharge connection size [in]	1 3/8 in
Drawing number	8556093b
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	SY
Fitting standard	ODF
Frequency [Hz]	50/60
Gauge port HP	None
Gauge port LP	Schrader
Glass mounting	Threaded
Glass torque [Nm]	50 N-m

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Product Detail | Scroll compressor, SY380A4CBE

PRODUCT DETAILS

GP LP torque [Nm]	15 N-m
High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	5.1 L
High value of nominal voltage at 50Hz [V]	415 V
High value of nominal voltage at 60Hz [V]	460 V
High value of voltage range at 50Hz [V]	457 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	52 °C
Low Side TS Min	-35 °C
Low Side Volume	35.3 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]	340 V
Low value of voltage range at 60Hz [V]	414 V
LRA	300 A
Max pressure (PS) - high side	31.8 bar
Max pressure (PS) - low side	20 bar
MCC	79 A
Model number	SY380A4CBE
Motor protection	Electronic protection module, 110/240 V
Mounting torque [Nm]	40 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]	8.4 L
Oil drain	1/4" flare
Oil drain torque [Nm]	35 N-m
Oil equalization	1/2" flare
Oil equalization torque [Nm]	66 N-m
Oil reference	320SZ
Packaging height [mm]	939 mm
Packaging length [mm]	1140 mm
Packaging weight [Kg]	647 kg
Packaging width [mm]	950 mm
Packing format	Industrial pack
Packing quantity	4
Phase	3
Power connections	Stud M5
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
Refrigerant charge [kg] [Max]	20 kg

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

PRODUCT DETAILS

Refrigerants	R134a R22 R407C R513A
Reverse rotation protection	Electronic module
RLA	56.4 A
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	a92ec178-0979-4d30-af46-57b56ac94204
SCIP dossier product name	SY240-300/SZ240-300
Segment usage	Air conditioning
Shipped instructions	Installation instructions
Shipped module	Electronic protection module mounted in terminal box
Shipped mounting	Mounting kit with grommets and sleeves
Shipped oil	Initial oil charge
Suction connection height [mm]	196 mm
Suction connection material	-
Suction connection pipe size [in]	2 1/8 in
Suction connection size [in]	2 1/8 in
Swept volume [cm ³]	531.2 cm ³
Technology	Scroll
Test dif [bar] [Max]	24 bar
Test HP [bar] [Max]	27.9 bar
Test LP [bar] [Max]	20 bar
Torque earth [Nm]	4 N-m
Torque power [Nm]	3 N-m
Total height [mm]	727 mm
UL evaluated	Yes
Viscosity [cP]	68 cP
Winding resistance for three- phase compressors with identical windings [Ohm]	0.41 Ohm

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

Accessories



120Z0458 [🔗](#)

Electrical component, Terminal box

Terminal box 210 x 190, including cover

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Accessories



120Z0774 [🔗](#)
Electrical component, T block
 T block connector 80 x 80 mm (Studs)



8156144 [🔗](#)
Mounting, Compressor kit
 Mounting kit for one-scroll compressor, including 4 grommets, 4 sleeves



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



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

Spare Parts



7773122 [🔗](#)
Crankcase heater, Belt heater
 Belt type crankcase heater, 130 W, 230 V



8156019 [🔗](#)
Connector, Sight glass
 Oil sight glass with gaskets (black and white)



8156129 [🔗](#)
Connector, Gasket
 Gasket for oil sight glass (white teflon)



120Z0585 [🔗](#)
Electrical component, Motor protection module
 Electronic motor protection module, 110 - 240 V



120Z0372 [🔗](#)
Crankcase heater, Surface sump heater
 Surface sump heater + bottom insulation, 80 W, 230 V

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Spare Parts



7773123 [🔗](#)

Crankcase heater, Belt heater

Belt type crankcase heater, 130 W, 400 V



7754121 [🔗](#)

Lubricant, 320SZ

POE lubricant, 320SZ, 1-litre can

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

Danfoss can accept no responsibility for possible errors in catalogs, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without sub-sequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.