

**SY300A4CBM****Scroll compressor, SY300A4CBE**

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**

<b>Gross weight</b>	162.38 Kilogram
<b>Net weight</b>	157.15 Kilogram
<b>Volume</b>	0.244 Cubic meter
<b>EAN</b>	5702428660631
<b>Type</b>	SY300
<b>Product group</b>	Hermetic compressors
<b>Product Name Description</b>	Scroll compressor SY
<b>Brand technique</b>	Scroll compressor
<b>Capacity control</b>	Fixed speed
<b>CE evaluated</b>	Yes
<b>China RoHS compliance</b>	Yes with exemptions
<b>Colour</b>	Blue
<b>Compressor power supply [V]</b>	380-415/3/50 460/3/60
<b>Configuration code</b>	Single
<b>Connection type</b>	Brazed
<b>Contains batteries</b>	No
<b>Description</b>	SY300-4
<b>Diameter [mm]</b>	344 mm
<b>Discharge connection height [mm]</b>	665 mm
<b>Discharge connection pipe size [in]</b>	1 1/8 in
<b>Discharge connection size [in]</b>	1 1/8 in
<b>Drawing number</b>	8556094b
<b>Economizer</b>	No
<b>EU RoHS compliance</b>	Yes with exemptions
<b>EU RoHS exemption clause</b>	7(c)-I 6(a) 6(a)-I 6(c) 7(a) 8(b)
<b>Factory HP [bar]</b>	33 bar
<b>Factory LP [bar]</b>	25 bar
<b>Family</b>	SY
<b>Fitting standard</b>	ODF
<b>Frequency [Hz]</b>	50/60
<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 N-m

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## Product Detail | Scroll compressor, SY300A4CBE

## 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 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	52 °C
Low Side TS Min	-35 °C
Low Side Volume	34.1 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	270 A
Max pressure (PS) - high side	31.8 bar
Max pressure (PS) - low side	20 bar
MCC	69 A
Model number	SY300A4CBE
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 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]	915 mm
Packaging length [mm]	1140 mm
Packaging weight [Kg]	635 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

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## Product Detail | Scroll compressor, SY300A4CBE

## PRODUCT DETAILS

Refrigerants	R134a R22 R407C R513A
Reverse rotation protection	Electronic module
RLA	49.3 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]	1 5/8 in
Suction connection size [in]	1 5/8 in
Swept volume [cm <sup>3</sup> ]	437.5 cm <sup>3</sup>
Technology	Scroll
Test dif [bar] [Max]	24 bar
Test HP [bar] [Max]	32 bar
Test LP [bar] [Max]	20 bar
Torque earth [Nm]	4 N-m
Torque power [Nm]	3 N-m
Total height [mm]	738 mm
UL evaluated	Yes
Viscosity [cP]	68 cP
Winding resistance for three- phase compressors with identical windings [Ohm]	0.516 Ohm

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

## Accessories



**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)

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Accessories



**7755016** [🔗](#)

**Acoustic hood, Scroll**

Acoustic hood for scroll compressor S240-S300



**8153004** [🔗](#)

**Connector, Solder sleeve**

Solder sleeve, P02 (1-3/4" rotolock, 1-1/8" ODF)



**8156132** [🔗](#)

**Connector, Gasket**

Gasket, 1-3/4"



**8156144** [🔗](#)

**Mounting, Compressor kit**

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



**8153006** [🔗](#)

**Connector, Solder sleeve**

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



**8156133** [🔗](#)

**Connector, Gasket**

Gasket, 2-1/4"



**120Z0458** [🔗](#)

**Electrical component, Terminal box**

Terminal box 210 x 190, including cover



**7750009** [🔗](#)

**Electrical component, Discharge thermostat kit**

Discharge thermostat kit



**8156013** [🔗](#)

**Connector, Gasket**

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



**120Z0774** [🔗](#)

**Electrical component, T block**

T block connector 80 x 80 mm (Studs)

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Spare Parts



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



**8168026** [🔗](#)  
**Connector, Rotolock service valve**  
 Rotolock valve, V03 (2-1/4" rotolock, 1-5/8" ODF)



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



**7703383** [🔗](#)  
**Connector, Valve set**  
 Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")



**8168028** [🔗](#)  
**Connector, Rotolock service valve**  
 Rotolock valve, V02 (1-3/4" rotolock, 1-1/8" ODF)



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



**7773123** [🔗](#)  
**Crankcase heater, Belt heater**  
 Belt type crankcase heater, 130 W, 400 V



**120Z0373** [🔗](#)  
**Crankcase heater, Surface sump heater**  
 Surface sump heater + bottom insulation, 80 W, 400 V



**120Z0432** [🔗](#)  
**Connector, Rotolock adapter**  
 Rotolock adaptor (2-1/4" rotolock, 1-5/8" ODF)



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

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Spare Parts



**120Z0364** [🔗](#)

**Connector, Rotolock adapter**

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



**8156019** [🔗](#)

**Connector, Sight glass**

Oil sight glass with gaskets (black and white)



**7754121** [🔗](#)

**Lubricant, 320SZ**

POE lubricant, 320SZ, 1-litre can

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