



SM148-4VAI 🗷

Scroll compressor, SM148T4VC

Refrigerant: R22, Segment usage: Air conditioning, Compressor power supply [V/Ph/Hz]: 400/3/50460/3/60

PRODUCT DETAILS

Gross weight	97 kg
Net weight	88 kg
EAN	5702428583039
Approval standard	CE
	UL
Brand technique	Scroll compressor
Capacity control	Fixed speed
Colour	Blue
Compressor power supply [V/Ph/	400/3/50 460/3/60
Hz]	
Configuration code	Single
Connection type	Brazed
Description	SM148-4
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
Factory HP [bar]	33 bar
Factory LP [bar]	25 bar
Fitting standard	ODF
Frequency [Hz]	50/60
Gauge port HP	None
Gauge port LP	Schrader
Generation code	С
Glass mounting	Threaded
Glass torque [Nm]	50 Nm
GP LP torque [Nm]	15 Nm
High side max pressure (Ps)	30.2 bar
High Side TS Max	150 ℃
High Side TS Min	-35 ℃
High Side Volume	1.6 L
High value of nominal voltage at	400 V
50Hz [V]	
High value of nominal voltage at	460 V
60Hz [V]	
High value of voltage range at 50Hz	440 V
[V]	



PRODUCT DET	AILS
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PRODUCT DETAILS	
High value of voltage range at 60Hz	506 V
[V]	
IP protection class	IP54 (with cable gland)
Low side max pressure (Ps)	25 bar
Low Side TS Max	63 ℃
Low Side TS Min	-35 °C
Low Side Volume	14.7 L
Low value of nominal voltage at	380 V
50Hz [V]	
Low value of nominal voltage at	460 V
60Hz [V]	
Low value of voltage range at 50Hz	342 V
[V]	
Low value of voltage range at 60Hz	414 V
[V]	
LRA	145 A
Maximum Operating Current [MOC]	29 A
мсс	32 A
Model number	SM148T4VC
Motor protection	Internal overload protector
Mounting torque [Nm]	21 Nm
Nominal cooling capacity 60 kBTU/	149.49 kBtu/h
h	
Nominal cooling capacity at 50Hz	32.6 kW
Nominal cooling capacity at 60Hz	43.8 kW
Number of starts per hour [Max]	12
Oil charge [L]	3.6 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	48 Nm
Oil reference	160P
Oil type	Mineral
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
Refrigerant	R22
Refrigerant charge [kg] [Max]	12.5 kg
Relief valve	None
RLA	22.9 A
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
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 pipe size [in]	1 3/8 in



PRODUCT DETAILS

1 3/8 in	
199 cm³	
Scroll	
24 bar	
32 bar	
25 bar	
2 Nm	
3 Nm	
591 mm	
SM	
Compressor	
32 cP	
0.94 Ohm	
	199 cm³ Scroll 24 bar 32 bar 25 bar 2 Nm 3 Nm 591 mm SM Compressor 32 cP

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store 🖸

Accessories



8156135 🗈

Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp



7750009 🗷

Discharge thermostat kitDischarge thermostat kit



8156013 🗷

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



7755017 🗷

Acoustic hood for scroll compressor S148-S161 (except code 3)
Acoustic hood for scroll compressor S148-S161 (except code 3)



8156132 🗷

Gasket, 1-3/4" Gasket, 1-3/4"



8173230 🗷

T block connector 52 x 57 mm T block connector 52 x 57 mm

For more information, please use this link to visit the product page on Danfoss Product Store 🗷



Accessories



8156138 🗷

Mounting kit

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



7765006 🗷

Adaptor

Solder sleeve adaptor set (1-3/4" rotolock, 1-3/8" ODF), (1-1/4" rotolock, 7/8" ODF)



8153003 🗷

Adaptor

Solder sleeve, P10 (1-3/4" rotolock, 1-3/8" ODF)

Spare Parts



120Z0039 12

Belt type crankcase heater, 65 W, 400 V, CE mark, UL

Belt type crankcase heater, 65 W, 400 V, CE mark, UL



7754001 🗷

Mineral oil, 160P, 2-litre can

Mineral oil, 160P, 2-litre can



120Z0381 [™]

Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL

Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL



120Z0382 🗷

Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL

Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL



7773117 🗷

Belt type crankcase heater, 65 W, 400 V, CE mark, UL

Belt type crankcase heater, 65 W, 400 V, CE mark, UL



8156129 🗈

Gasket for oil sight glass (white teflon)

Gasket for oil sight glass (white teflon)

For more information, please use this link to visit the product page on Danfoss Product Store 🗷



Spare Parts



8156019 🗷

Oil sight glass with gaskets (black and white)

Oil sight glass with gaskets (black and white)



7705007 🗈

MCI

Electronic soft start kit, MCI 25 C



120Z0380 🗷

Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL

Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL



8168022 🗷

Rotolock valve, V10 (1-3/4" rotolock, 1-3/8" ODF), Service kit

VALVE SETS V10 1 3/4"-1 3/8"



7773107 🗷

Belt type crankcase heater, 65 W, 230 V, CE mark, UL

Belt type crankcase heater, 65 W, 230 V, CE mark, UL



120Z0466 ¹²

Belt type crankcase heater, 65 W, 460 V, CE mark, UL

Belt type crankcase heater, 65 W, 460 V, CE mark, UL



7703392 🗷

Valve set

Packing format: Multi pack, Packing quantity: 6



120Z0361 🗷

Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL

Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL



8168030 🗈

Rotolock valve, V05 (1-1/4" rotolock, 7/8" ODF), Service kit

VALVE SETS V05 1 1/4"-7/8"