

Datasheets

Danfoss scroll compressors SM / SY / SZ / SH / WSH



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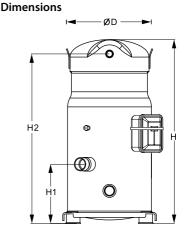
Datasheet, technical data

Danfoss scroll compressor, SM110-4

Dantoss

General Characteristics

Model number (on compressor nameplate)	SM110S4VC
Code number for Singlepack*	SM110-4VI
Code number for Industrial pack**	SM110-4VM
Drawing number	8552037b
Suction and discharge connections	Brazed
Suction connection	1-3/8 " ODF
Discharge connection	7/8 " ODF
Oil sight glass	Threaded
Oil equalisation connection	3/8" flare SAE
Oil drain connection	None
LP gauge port	Schrader
IPR valve	None
Swept volume	144,2 cm3/rev
Displacement @ Nominal speed	25.1 m3/h @ 2900 rpm - 30.3 m3/h @ 3500 rpm
Net weight	73 kg
Oil charge	3,25 litre, Mineral - 160P
Maximum system test pressure Low Side / High side	25 bar(g) / 32 bar(g)
Maximum differential test pressure	24 bar
Maximum number of starts per hour	12
Refrigerant charge limit	10 kg
Approved refrigerants	R22, R417A-160SZ



D=254 mm H=558 mm H1=178,4 mm H2=514,5 mm H3=- mm

Terminal box

Nominal voltage

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	1.05 Ω
Rated Load Amps (RLA)	15.7 A
Maximum Continuous Current (MCC)	22 A
Locked Rotor Amps (LRA)	130 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	21 Nm

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 8 Unboxed compressors on pallet (order per multiples of 8)

1 2

4

IP54 (with cable gland)

3

1: Power connection, 3 x 4.8 mm (3/16") Earth M4-12

- 2: 3: Knock-out Ø 29 mm (1.14")
- Knock-out Ø 25.5 mm (1.00'') 4:

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