



Scroll compressor, SM100S3VC

SM100-3VI **Where to buy** 

Product specifications

Characteristic	Value
Approval	CE, UL, UKCA
Brand technique	Scroll compressor
CE evaluated	Yes
Capacity control	Fixed speed
China RoHS compliance	Yes with exemptions
Colour	Blue
Compressor power supply [V]	200-230/3/60
Configuration code	Single
Connection type	Brazed
Contains batteries	No
CoolselectorFilter	Active models
DG Indicator Profile	Not relevant for dangerous goods
Description	SM100-3
Diameter [mm]	254 mm
Discharge connection height [mm]	465 mm
Discharge connection pipe size [in]	3/4 in
Discharge connection size [in]	3/4 in
Drawing number	8552036b
EU RoHS compliance	Yes with exemptions
EU RoHS exemption clause	7(c)-I, 6(a), 6(a)-I, 6(c), 7(a), 8(b)
Economizer	No

Characteristic	Value
Factory HP [bar]	33 bar
Factory LP [bar]	25 bar
Family	SM
Fitting standard	ODF
Frequency [Hz]	60
GP LP torque [Nm]	15 N-m
Gauge port HP	None
Gauge port LP	Schrader
Glass mounting	Threaded
Glass torque [Nm]	50 N-m
High Side TS Max	150.0 °C
High Side TS Min	-35.0 °C
High Side Volume	1.1 L
High value of nominal voltage at 60Hz [V]	230 V
High value of voltage range at 60Hz [V]	253 V
IDV	No
IP protection class	IP54 (with cable gland)
In scope of WEEE	No
LRA	195 A
Low Side TS Max	63.0 °C
Low Side TS Min	-35.0 °C
Low Side Volume	13.0 L
Low value of nominal voltage at 60Hz [V]	200 V
Low value of voltage range at 60Hz [V]	180 V
MCC	38 A
Material Description	SM100-3VC-SINGLE
Max pressure (PS) - high side	30.20 bar
Max pressure (PS) - low side	25.00 bar
Maximum Operating Current [MOC]	32 A

Characteristic	Value
Model number	SM100S3VC
Motor protection	Internal overload protector
Mounting torque [Nm]	21.00 N-m
Network power supply [V/Ph/Hz]	208-230/3/60
Number of starts per hour [Max]	12
Oil charge [L]	3.25 L
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	48 N-m
Oil reference	160P
Oil type	Mineral
Packaging height [mm]	596 mm
Packaging length [mm]	470 mm
Packaging weight [Kg]	69 kg
Packaging width [mm]	370 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw 4.8 mm
Product Type	SM100
Product group	Hermetic compressors
Product line	Commercial Compressors
Product name	Scroll compressor SM
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
RLA	27.1 A
Refrigerant charge [kg] [Max]	8.50 kg
Refrigerants	R22
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	2e9b0776-281a-4205-bf1f-dbee526b31d
SCIP dossier product name	SM084/SM090/SM100/SM110/SM120/SM148/SM161/SZ084/SZ090/SZ100/SZ110/SZ120/SZ148/SZ161

Characteristic	Value
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]	142 mm
Suction connection material	-
Suction connection pipe size [in]	1-1/8 in
Suction connection size [in]	1-1/8 in
Swept volume [cm ³]	127.20 cm ³
Technology	Scroll
Test HP [bar] [Max]	32.0 bar
Test LP [bar] [Max]	25.0 bar
Test dif [bar] [Max]	24 bar
Torque earth [Nm]	2.00 N-m
Torque power [Nm]	3.00 N-m
Total height [mm]	508.0 mm
U.S. EPA label	For installations using U.S. EPA restricted refrigerants, this product may be used for servicing existing equipment only.
UL evaluated	Yes
Viscosity [cP]	32.0 cP
Winding resistance for three-phase compressors with identical windings [Ohm]	0.38 Ohm

General specifications

Characteristic	Value
Gross weight	70.84 Kilogram
Net weight	65 Kilogram
Volume	120.06 Liter
EAN/UPC	5702428839471
Proposition 65	Cancer and Reproductive Harm

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