



Scroll compressor, SM120S4VC

SM120-4VI **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]	380-415/3/50 460/3/60
Configuration code	Single
Connection type	Brazed
Contains batteries	No
CoolselectorFilter	Active models
DG Indicator Profile	Not relevant for dangerous goods
Description	SM120-4
Diameter [mm]	254 mm
Discharge connection height [mm]	515 mm
Discharge connection pipe size [in]	7/8 in
Discharge connection size [in]	7/8 in
Drawing number	8552037b
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]	50/60
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 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
IP protection class	IP54 (with cable gland)
In scope of WEEE	No
LRA	130 A
Low Side TS Max	63.0 °C
Low Side TS Min	-35.0 °C
Low Side Volume	13.6 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
MCC	29 A

Characteristic	Value
Material Description	SM120-4VC-SINGLE
Max pressure (PS) - high side	30.20 bar
Max pressure (PS) - low side	25.00 bar
Maximum Operating Current [MOC]	24 A
Model number	SM120S4VC
Motor protection	Internal overload protector
Mounting torque [Nm]	21.00 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]	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]	78 kg
Packaging width [mm]	370 mm
Packing format	Single pack
Packing quantity	1
Phase	3
Power connections	Screw 4.8 mm
Product Type	SM120
Product group	Hermetic compressors
Product line	Commercial Compressors
Product name	Scroll compressor SM
REACH Candidate List substances	Lead (CAS no. 7439-92-1)
RLA	20.7 A
Refrigerant charge [kg] [Max]	10.00 kg

Characteristic	Value
Refrigerants	R22
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
SCIP dossier no.	2e9b0776-281a-4205-bf1f-dbeea526b31d
SCIP dossier product name	SM084/SM090/SM100/SM110/SM120/SM148/SM161/SZ084/SZ090/SZ100/SZ110/SZ120/SZ148/SZ161
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]	178 mm
Suction connection material	-
Suction connection pipe size [in]	1-3/8 in
Suction connection size [in]	1-3/8 in
Swept volume [cm ³]	166.60 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]	558.0 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]	1.05 Ohm

Characteristic	Value
Gross weight	79.34 Kilogram
Net weight	73 Kilogram
Volume	0.23 Cubic meter
EAN/UPC	5702428839402
Proposition 65	Cancer and Reproductive Harm

