

Mbsm.pro, Danfoss, Compressor, SM160T4RC, SM-160, 13hp, 3ph, R22, 133500BTU

written by Lilianne | 4 January 2022

SM160T4RC

Basic Info.

Model NO.Sm160N.W.90kgTransport PackagePackage: Wooden Case/Pallet or as Your RequirmentSpecificationSM series SM090TrademarkperformerOriginFranceHS Code8414301300Production Capacity50000 Sets/Year

Product Description

SM-160 Performer Scroll compressor for R22
13HP Performer Scroll Compressor SM160

SPECIFICATIONS FOR SM160			
Products Details	Models: SM160	Type	Hermetic
Power	Phase	3	
Horse Power	HP	13	
Main performance parameters	Input Power	W	380-420/3/60
REFRIGRANT		R22	
SIZE		54.0/35.0	

Phyiscal parameters	Hight	MM	353
Weight	KG	90	
Q'ty / Pallet	PIECE	6	

Product Description

5.Techincal sheet as below:

50Hz Data										
Model	Nominal Cap.60HZ	Nominal cooling capacity	Power input	Cop	E.E.R.	Swept Volume	Displacement	Oil charge	N.W.	
TR	W	Btu/h	KW	W/W	Btu/h/W	cm/rew	m/h	dm	kg	
SM084	7	20400	69600	6.12	3.33	11.4	114.5	19.92	3.3	64
SM090	7.5	21800	74400	6.54	3.33	11.4	120.5	20.97	3.3	65
SM100	8	23100	79000	6.96	3.33	11.3	127.2	22.13	3.3	65
SM110	9	25900	88600	7.82	3.32	11.3	144.2	25.09	3.3	73
SM112	9.5	27600	94400	7.92	3.49	11.9	151.5	26.36	3.3	64
SM115	9.5	28000	95600	8.31	3.37	11.5	155	26.97	3.8	78
SM120	10	30100	102800	8.96	3.36	11.5	166.6	28.99	3.3	73
SM124	10	31200	106300	8.75	3.56	12.2	169.5	29.5	3.3	64
SM125	10	30100	102800	8.93	3.37	11.5	166.6	28.99	3.8	78
SM147	12	36000	123000	10.08	3.58	12.2	193.5	33.7	3.3	67
SM148	12	36100	123100	10.8	3.34	11.4	199	34.6	3.6	88
SM160	13	39100	133500	11.6	3.37	11.5	216.6	37.69	4	90
SM161	13	39000	133200	11.59	3.37	11.5	216.6	37.69	3.6	88
SM175	14	42000	143400	12.46	3.37	11.5	233	40.54	6.2	100

Product details

Gross weight	102 kg
Net weight	90 kg
EAN	5702428980432

Approval standard	CE UL
Brand technique	After sale
Capacity control	Fixed speed
Colour	Blue
Compressor power supply [V/Ph/Hz]	400/3/50 460/3/60
Configuration code	Single
Connection type	Rotolock
Description	SM160-4
Diameter [mm]	266 mm
Discharge connection height [mm]	596 mm
Discharge connection mounting torque [Nm]	110 Nm
Discharge connection pipe size [in]	7/8 in
Discharge connection rotolock size [in]	1 3/4 in
Discharge connection size [in]	1 3/4 in
Discharge connection sleeve pipe size [in]	7/8 in
Drawing number	8551120b
Economizer	No
Factory HP [bar]	33 bar
Factory LP [bar]	25 bar
Fitting remark	(shipped with rotolock version only)
Fitting sleeve	ODF
Fitting standard	Rotolock
Frequency [Hz]	50/60
Gauge port HP	None

Gauge port LP	Schrader
Generation code	C
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 °C
High Side TS Min	-35 °C
High Side Volume	1.7 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
IP protection class	IP54 (with cable gland)
Low side max pressure (Ps)	25 bar
Low Side TS Max	63 °C
Low Side TS Min	-35 °C
Low Side Volume	16.5 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	150 A
Maximum Operating Current [MOC]	29 A
MMT	29 A
Model number	SM160T4RC
Motor protection	Internal thermostat, ext. overload protector needed

Mounting torque [Nm]	21 Nm
Nominal cooling capacity 60 kBTU/h	163.14 kBtu/h
Nominal cooling capacity at 50Hz	35.3 kW
Nominal cooling capacity at 60Hz	47.8 kW
Number of starts per hour [Max]	12
Oil charge [L]	4 L
Oil drain	1/4" flare
Oil drain torque [Nm]	35 Nm
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
Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
Segment usage	Air conditioning
Shipped fittings	Suction and discharge solder sleeves, rotolock nuts and gaskets

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 mounting torque [Nm]	130 Nm
Suction connection pipe size [in]	1 3/8 in
Suction connection rotolock size [in]	2 1/4 in
Suction connection size [in]	2 1/4 in
Suction connection sleeve pipe size [in]	1 3/8 in
Swept volume [cm³]	216.6 cm ³
Technology	Scroll
Test dif [bar] [Max]	24 bar
Test HP [bar] [Max]	32 bar
Test LP [bar] [Max]	25 bar
Torque earth [Nm]	2 Nm
Torque Ebox cover [Nm]	2.3 Nm
Torque power [Nm]	3 Nm
Total height [mm]	631 mm
Type	SM
Type designation	Compressor
Viscosity [cP]	32 cP
Winding resistance for three-phase compressors with identical windings [Ohm]	0.94 Ohm

Performer®

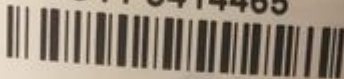
SCROLL COMPRESSOR

MODEL: SM160T4RC

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SERIAL: TC11 5414465



THERMALLY PROTECTED SYSTEM

SYSTEME DE PROTECTION THERMIQUE

460 V 3 ~ 60 Hz
29 A Max

380-400 V 3 ~ 50 Hz
LR 150 A



P.E.D.
Marking
L.P. side

Ps = 25 bar
Ts max = 63 °C
Ts min = -35 °C

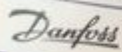


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LUBRICANT: MINERAL OIL 160P

CAUTION Use of hydrocarbons is not approved by the manufacturer
ATTENTION L'utilisation d'hydrocarbures n'est pas autorisée par le fabricant

REFRIGERANT: R22



Danfoss Commercial
Compressors

MADE IN FRANCE 2507

Manufactured under one or more of the following US or French patents
and foreign counterparts thereto.
US: 4840545, 4415317 French: 8906292, 8202323

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