

# 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

<b>Gross weight</b>	102 kg
<b>Net weight</b>	90 kg
<b>EAN</b>	5702428980432

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

<b>Gauge port LP</b>	Schrader
<b>Generation code</b>	C
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 Nm
<b>GP LP torque [Nm]</b>	15 Nm
<b>High side max pressure (Ps)</b>	30.2 bar
<b>High Side TS Max</b>	150 °C
<b>High Side TS Min</b>	-35 °C
<b>High Side Volume</b>	1.7 L
<b>High value of nominal voltage at 50Hz [V]</b>	400 V
<b>High value of nominal voltage at 60Hz [V]</b>	460 V
<b>High value of voltage range at 50Hz [V]</b>	440 V
<b>High value of voltage range at 60Hz [V]</b>	506 V
<b>IP protection class</b>	IP54 (with cable gland)
<b>Low side max pressure (Ps)</b>	25 bar
<b>Low Side TS Max</b>	63 °C
<b>Low Side TS Min</b>	-35 °C
<b>Low Side Volume</b>	16.5 L
<b>Low value of nominal voltage at 50Hz [V]</b>	380 V
<b>Low value of nominal voltage at 60Hz [V]</b>	460 V
<b>Low value of voltage range at 50Hz [V]</b>	342 V
<b>Low value of voltage range at 60Hz [V]</b>	414 V
<b>LRA</b>	150 A
<b>Maximum Operating Current [MOC]</b>	29 A
<b>MMT</b>	29 A
<b>Model number</b>	SM160T4RC
<b>Motor protection</b>	Internal thermostat, ext. overload protector needed

<b>Mounting torque [Nm]</b>	21 Nm
<b>Nominal cooling capacity 60 kBTU/h</b>	163.14 kBtu/h
<b>Nominal cooling capacity at 50Hz</b>	35.3 kW
<b>Nominal cooling capacity at 60Hz</b>	47.8 kW
<b>Number of starts per hour [Max]</b>	12
<b>Oil charge [L]</b>	4 L
<b>Oil drain</b>	1/4" flare
<b>Oil drain torque [Nm]</b>	35 Nm
<b>Oil equalization</b>	3/8" flare SAE
<b>Oil equalization torque [Nm]</b>	48 Nm
<b>Oil reference</b>	160P
<b>Oil type</b>	Mineral
<b>Packaging height [mm]</b>	671 mm
<b>Packaging length [mm]</b>	470 mm
<b>Packaging weight [Kg]</b>	671 kg
<b>Packaging width [mm]</b>	370 mm
<b>Packing format</b>	Single pack
<b>Packing quantity</b>	1
<b>Phase</b>	3
<b>Power connections</b>	Screw 4.8 mm
<b>Refrigerant</b>	R22
<b>Refrigerant charge [kg] [Max]</b>	12.5 kg
<b>Relief valve</b>	None
<b>Rotational speed at 50Hz [rpm]</b>	2900 rpm
<b>Rotational speed at 60Hz [rpm]</b>	3500 rpm
<b>Segment usage</b>	Air conditioning
<b>Shipped fittings</b>	Suction and discharge solder sleeves, rotolock nuts and gaskets

<b>Shipped instructions</b>	<b>Installation instructions</b>
<b>Shipped mounting</b>	Mounting kit with grommets, bolts, nuts, sleeves and washers
<b>Shipped oil</b>	Initial oil charge
<b>Suction connection height [mm]</b>	180 mm
<b>Suction connection mounting torque [Nm]</b>	130 Nm
<b>Suction connection pipe size [in]</b>	1 3/8 in
<b>Suction connection rotolock size [in]</b>	2 1/4 in
<b>Suction connection size [in]</b>	2 1/4 in
<b>Suction connection sleeve pipe size [in]</b>	1 3/8 in
<b>Swept volume [cm<sup>3</sup>]</b>	216.6 cm <sup>3</sup>
<b>Technology</b>	Scroll
<b>Test dif [bar] [Max]</b>	24 bar
<b>Test HP [bar] [Max]</b>	32 bar
<b>Test LP [bar] [Max]</b>	25 bar
<b>Torque earth [Nm]</b>	2 Nm
<b>Torque Ebox cover [Nm]</b>	2.3 Nm
<b>Torque power [Nm]</b>	3 Nm
<b>Total height [mm]</b>	631 mm
<b>Type</b>	SM
<b>Type designation</b>	Compressor
<b>Viscosity [cP]</b>	32 cP
<b>Winding resistance for three-phase compressors with identical windings [Ohm]</b>	0.94 Ohm

 **Performer**  
SCROLL COMPRESSOR

MODEL: SM160T4RC

G



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

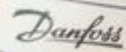


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LUBRICANT: MINERAL OIL 160P

**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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