
GACO SARL

28, Rue Bencharif Madani

25000 BELLEVUE/CONSTANTINE - ALGERIE

Tel. : 031 92 54 56 / 031 93 22 23 - Fax : 031 92 13 45

Email : gacosarl@gmail.com / benkobbi_fares@yahoo.fr

**Type: Hermetic scroll compressors****Producer: Maneurop****Series: SM****Model: SM125****Data****Model: SM125****Technical data**

Displacement [m ³ /h]:	29
:	166,6
RPM [min ⁻¹]:	2900
Weight [kg]:	78
Oil charge [dm ³]:	3,8
Oil type:	160P
Maximum system test pressure low side / high side:	25 / 32
Maximum number of starts without softstart [1/h]:	12
Refrigerant charge limit [dm ³]:	11
Refrigerant:	R22

Connections

	<u>inches</u>
Suction Rotolock valve connection:	1 3/4"
Discharge Rotolock valve connection:	1 1/4"
Suction connection with supplied sleeve:	1 3/8"
Discharge connection with supplied sleeve:	7/8"

Approvals

CCC	-
CE	+
UL	+

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R22

Model: SM125

Capacity

Cooling capacity [W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	12 752	15 705	19 159	23 167	27 786	33 070	39 073	45 851
35	12 012	14 957	18 398	22 392	26 993	32 256	38 236	44 987
40	11 141	14 074	17 502	21 479	26 060	31 300	37 255	43 978
45	-	13 042	16 453	20 412	24 971	30 187	36 114	42 806
50	-	-	15 236	19 174	23 710	28 899	34 796	41 456
55	-	-	-	17 748	22 259	27 419	33 285	39 911
60	-	-	-	-	20 601	25 732	31 564	38 154
65	-	-	-	-	18 721	23 819	29 617	36 168

Power input [W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	5 198	5 219	5 239	5 257	5 272	5 281	5 282	5 274
35	5 828	5 842	5 853	5 860	5 861	5 854	5 837	5 808
40	6 552	6 557	6 558	6 552	6 537	6 512	6 476	6 425
45	-	7 373	7 362	7 341	7 310	7 267	7 209	7 135
50	-	-	8 275	8 239	8 189	8 125	8 045	7 946
55	-	-	-	9 253	9 184	9 099	8 994	8 869
60	-	-	-	-	10 305	10 195	10 065	9 912
65	-	-	-	-	11 559	11 425	11 268	11 085

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	11.52	11.54	11.56	11.58	11.59	11.60	11.60	11.59
35	12.10	12.12	12.13	12.13	12.13	12.12	12.10	12.07
40	12.83	12.84	12.84	12.83	12.81	12.78	12.74	12.69
45	-	13.73	13.71	13.69	13.65	13.61	13.55	13.47
50	-	-	14.77	14.73	14.68	14.61	14.52	14.43
55	-	-	-	15.97	15.89	15.80	15.70	15.57
60	-	-	-	-	17.32	17.21	17.08	16.92
65	-	-	-	-	18.98	18.84	18.68	18.50

Model: SM125**Mass flow [kg/s]**

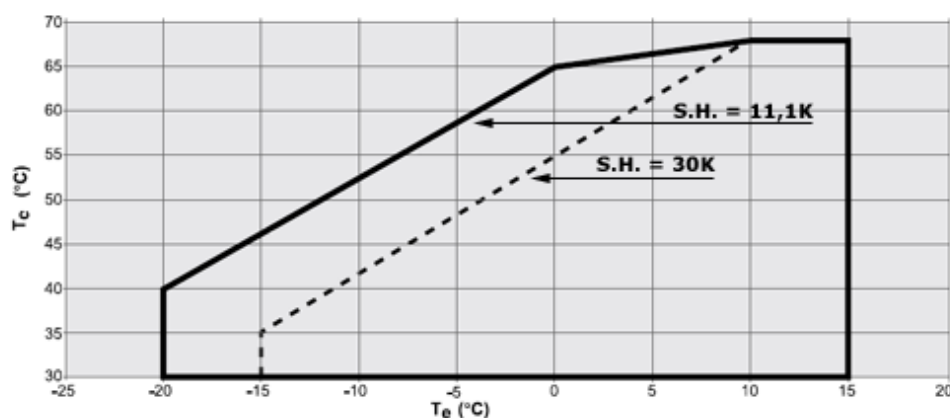
Capacity

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	256.74	313.02	377.56	451.29	535.14	630.02	736.87	856.61
35	251.13	308.75	374.96	450.67	536.82	634.32	744.11	867.11
40	242.37	301.77	370.07	448.20	537.08	637.63	750.79	877.48
45	-	291.02	361.85	442.82	534.85	638.89	755.85	886.65
50	-	-	349.22	433.46	529.09	637.04	758.23	893.58
55	-	-	-	419.09	518.74	631.03	756.87	897.20
60	-	-	-	-	502.74	619.80	750.73	896.47
65	-	-	-	-	480.04	602.30	738.75	890.33

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	2.45	3.01	3.66	4.41	5.27	6.26	7.40	8.69
35	2.06	2.56	3.14	3.82	4.61	5.51	6.55	7.75
40	1.70	2.15	2.67	3.28	3.99	4.81	5.75	6.84
45	-	1.77	2.24	2.78	3.42	4.15	5.01	6.00
50	-	-	1.84	2.33	2.90	3.56	4.33	5.22
55	-	-	-	1.92	2.42	3.01	3.70	4.50
60	-	-	-	-	2.00	2.52	3.14	3.85
65	-	-	-	-	1.62	2.08	2.63	3.26

Operating conditions: suction superheat: 11.1 K, subcooling: 8.3 K

 t_c - Condensing temperature [°C] t_e - Evaporating temperature [°C]**Application range**

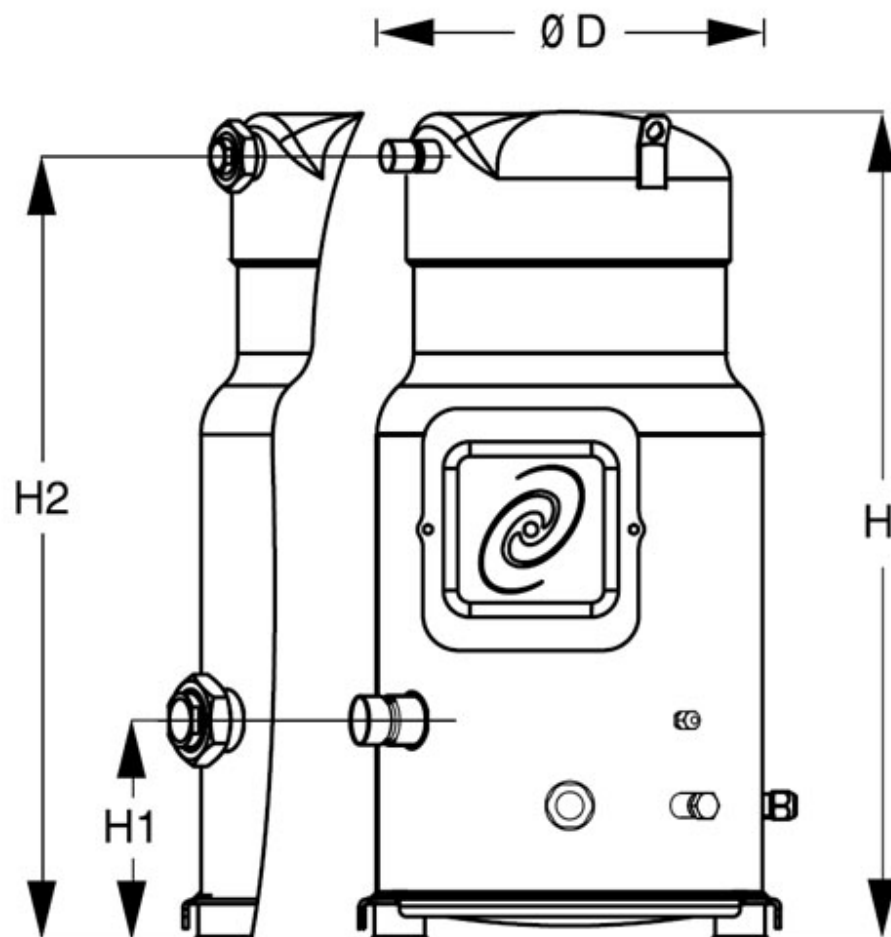
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**Model: SM125****Dimensions**

D	254
H	586
H1	180 mm
H2	538 mm

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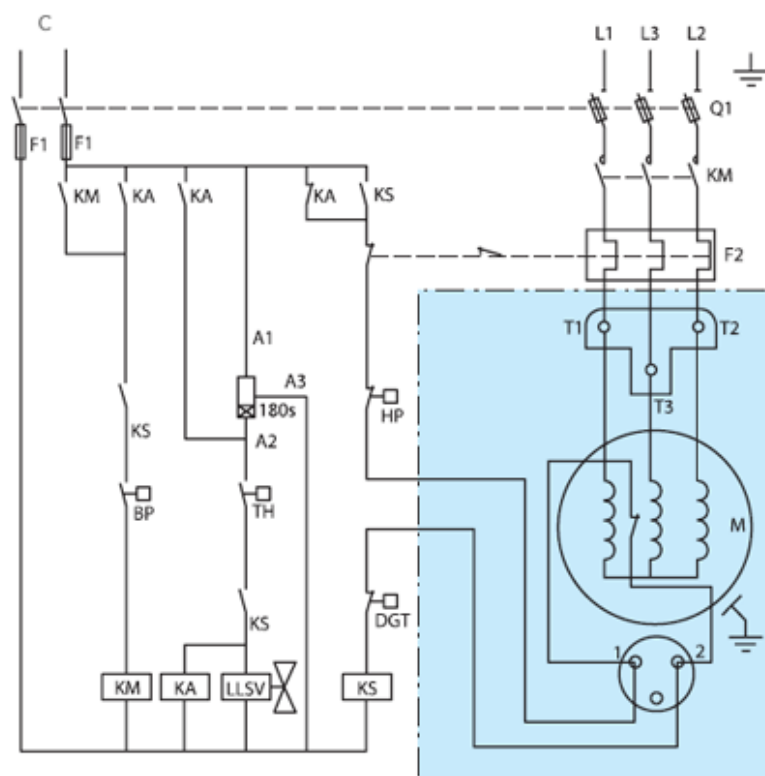
Model: SM125

Image



Model: SM125**Electrical****Electrical data**

Starting current [A]:	120
Maximum Continuous Current (MCC) [A]:	-
Winding resistance (between phases) [Ω]:	1,16

Connection diagram for systems with refrigerant suction

TH: Thermostat

180 s: ATI electronic timer

KA: Control transmitter CI 4-2

LLSV: Electromagnetic liquid valve

KM: Main contactor CI

KS: Fuses' switch

BP: Low pressure switch

HP: High pressure switch

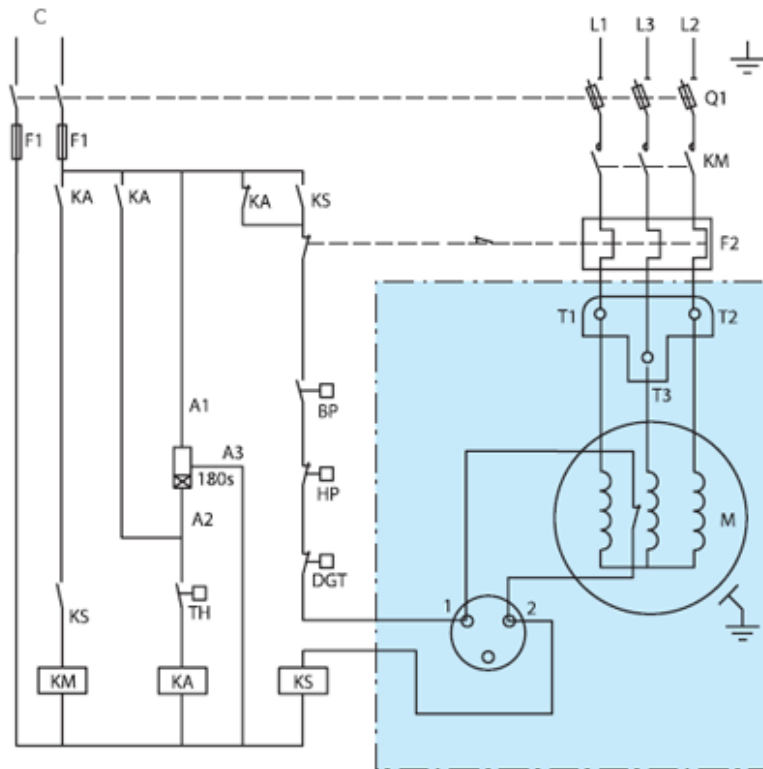
Q1: Safety switch

F1: Fuses

F2: Thermal relay TI

M: Compressor's engine

DGT: Discharge gas thermostat

Model: SM125**Electrical****Connection diagram for systems without refrigerant suction**

- TH: Thermostat
180 s: ATI electronic timer
KA: Control transmitter CI 4-2
KM: Main contactor CI
KS: Fuses' switch
BP: Low pressure switch
HP: High pressure switch
Q1: Safety switch
F1: Fuses
F2: Thermal relay TI
M: Compressor's engine
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Model: SM125**Equipment****Equipment**

- ▶ oil equalization - thread adapter 3/8"
- ▶ belt type heater - crankcase heater 65W, 230V
- ▶ soft-start kit - electronic softstart MCI 25C
- ▶ accoustic hood - acoustic shield of Danfoss catalogue number 7755009
- ▶ discharge thermostatic protection - discharge temperature protection accessory - Danfoss catalogue number 7750009