
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: SM175****Data****Model: SM175****Technical data**

Displacement [m ³ /h]:	40,5
:	233
RPM [min ⁻¹]:	2900
Weight [kg]:	100
Oil charge [dm ³]:	6,2
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]:	13,5
Refrigerant:	R22

Connections

	<u>inches</u>
Suction Rotolock valve connection:	2 1/4"
Discharge Rotolock valve connection:	1 3/4"
Suction connection with supplied sleeve:	1 5/8"
Discharge connection with supplied sleeve:	1 1/8"

Approvals

CCC	-
CE	+
UL	+

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R22

Model: SM175

Capacity

Cooling capacity [W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	17 945	22 391	27 581	33 583	40 461	48 284	57 116	67 025
35	16 984	21 339	26 410	32 262	38 962	46 576	55 171	64 813
40	16 002	20 247	25 178	30 861	37 363	44 749	53 087	62 442
45	-	19 114	23 886	29 380	35 664	42 803	50 863	59 912
50	-	-	22 531	27 818	33 864	40 735	48 500	57 223
55	-	-	-	26 173	31 962	38 547	45 996	54 373
60	-	-	-	-	29 959	36 238	43 350	51 363
65	-	-	-	-	27 853	33 806	40 563	48 191

Power input [W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	7 289	7 367	7 443	7 515	7 581	7 639	7 686	7 721
35	8 069	8 149	8 226	8 300	8 367	8 427	8 477	8 515
40	8 942	9 022	9 101	9 176	9 246	9 308	9 361	9 401
45	-	9 996	10 076	10 153	10 225	10 290	10 345	10 389
50	-	-	11 159	11 239	11 313	11 381	11 439	11 486
55	-	-	-	12 441	12 518	12 588	12 649	12 700
60	-	-	-	-	13 847	13 920	13 985	14 039
65	-	-	-	-	15 309	15 386	15 454	15 512

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	16.13	16.21	16.29	16.36	16.41	16.44	16.45	16.42
35	16.97	17.06	17.15	17.22	17.28	17.32	17.34	17.33
40	17.94	18.04	18.13	18.21	18.28	18.33	18.36	18.36
45	-	19.15	19.25	19.34	19.42	19.49	19.53	19.54
50	-	-	20.53	20.63	20.72	20.80	20.85	20.88
55	-	-	-	22.09	22.19	22.28	22.34	22.39
60	-	-	-	-	23.85	23.94	24.03	24.08
65	-	-	-	-	25.70	25.81	25.91	25.98

Model: SM175**Capacity****Mass flow [kg/s]**

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	362.25	446.57	543.26	653.41	778.12	918.51	1 075.66	1 250.69
35	355.07	440.59	538.40	649.62	775.33	916.64	1 074.66	1 250.48
40	347.38	433.79	532.43	644.40	770.80	912.73	1 071.30	1 247.61
45	-	425.96	525.11	637.53	764.31	906.55	1 065.36	1 241.84
50	-	-	516.23	628.78	755.63	897.87	1 056.62	1 232.97
55	-	-	-	617.94	744.54	886.48	1 044.85	1 220.75
60	-	-	-	-	730.83	872.15	1 029.83	1 204.98
65	-	-	-	-	714.27	854.66	1 011.35	1 185.44

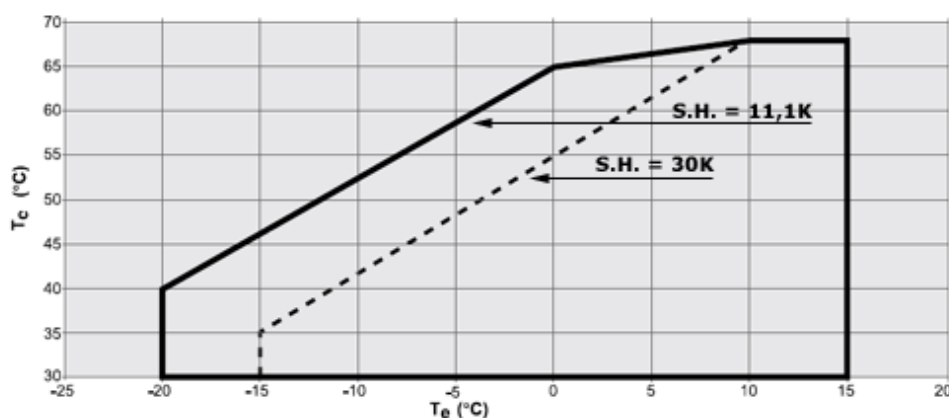
C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	2.46	3.04	3.71	4.47	5.34	6.32	7.43	8.68
35	2.10	2.62	3.21	3.89	4.66	5.53	6.51	7.61
40	1.79	2.24	2.77	3.36	4.04	4.81	5.67	6.64
45	-	1.91	2.37	2.89	3.49	4.16	4.92	5.77
50	-	-	2.02	2.48	2.99	3.58	4.24	4.98
55	-	-	-	2.10	2.55	3.06	3.64	4.28
60	-	-	-	-	2.16	2.60	3.10	3.66
65	-	-	-	-	1.82	2.20	2.62	3.11

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range

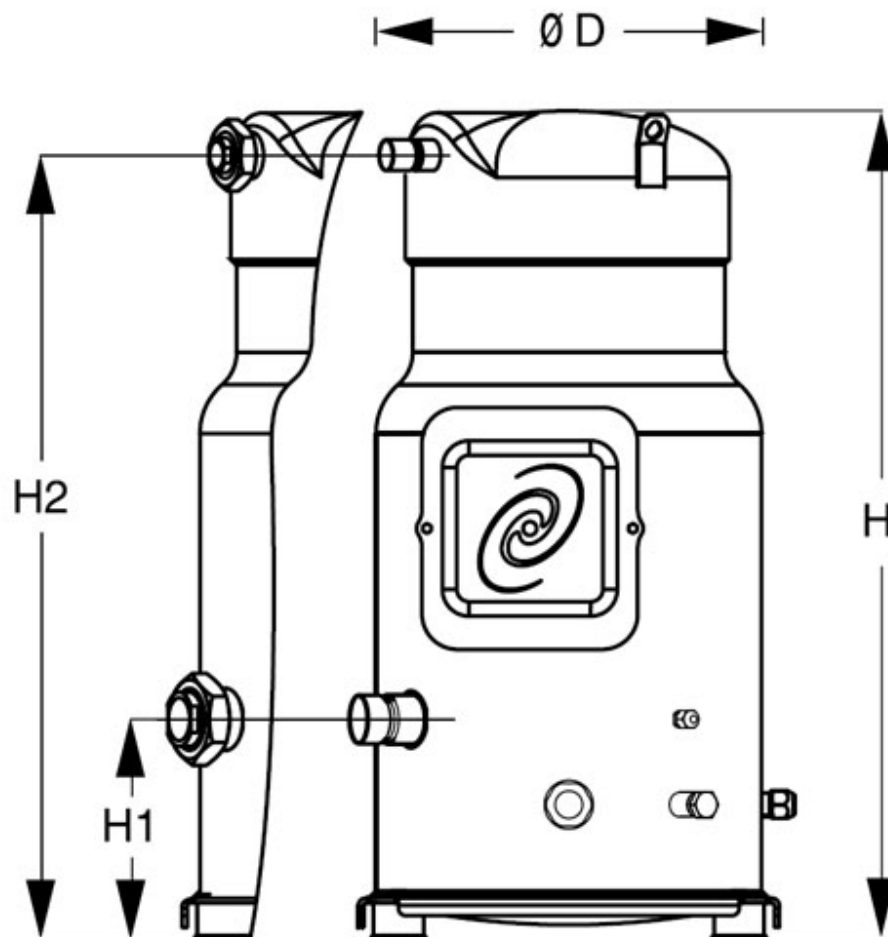
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**Model: SM175****Dimensions**

D	316
H	678
H1	180 mm
H2	641 mm

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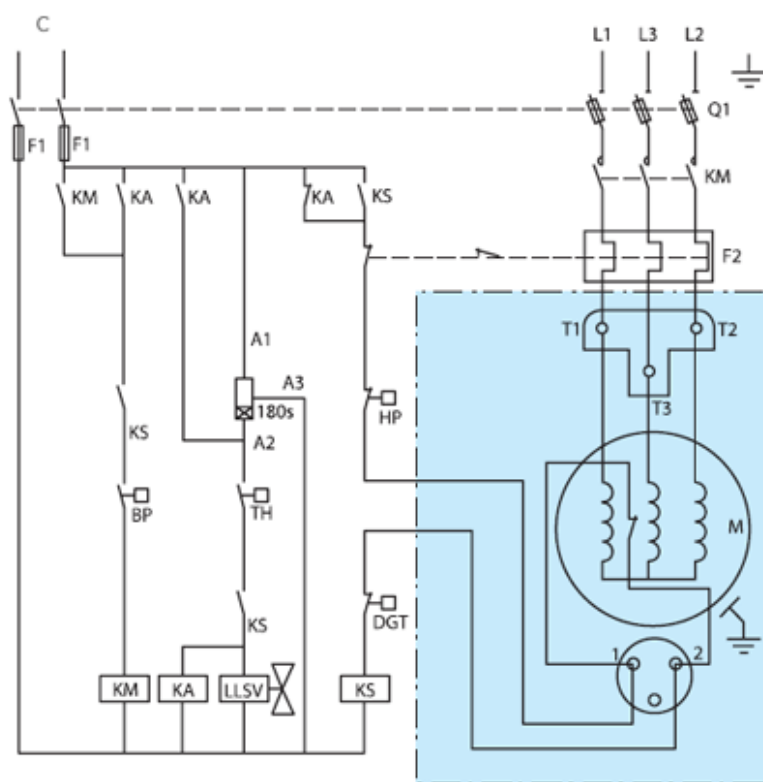
Model: SM175

Image



Model: SM175**Electrical****Electrical data**

Starting current [A]:	175
Maximum Continuous Current (MCC) [A]:	-
Winding resistance (between phases) [Ω]:	0,77

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

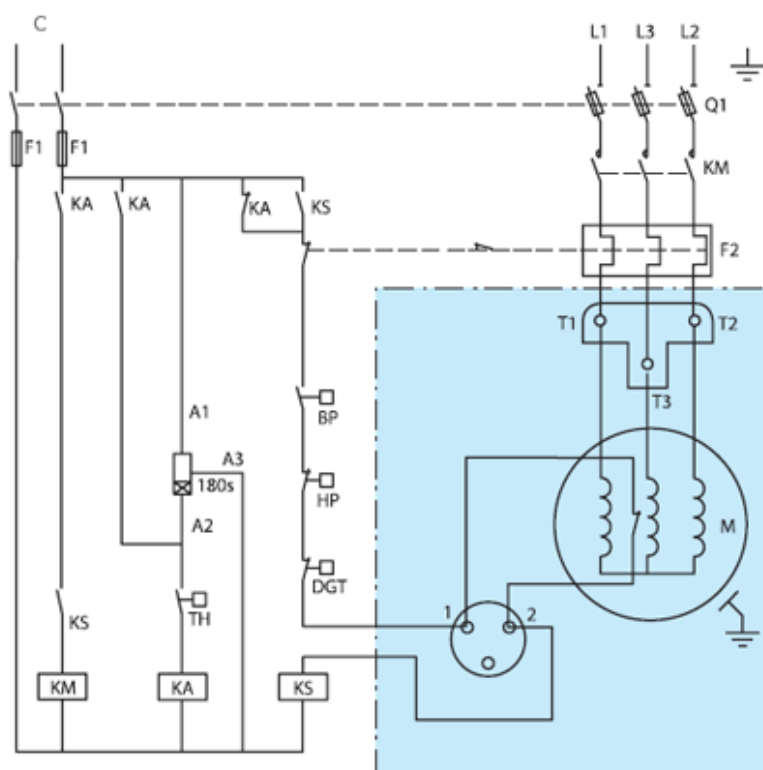
Q1: Safety switch

F1: Fuses

F2: Thermal relay TI

M: Compressor's engine

DGT: Discharge gas thermostat

Model: SM175**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

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Model: SM175

Equipment

Equipment

- ▶ oil equalization - thread adapter 3/8"
- ▶ belt type heater - crankcase heater 75W, 230V
- ▶ soft-start kit - electronic softstart MCI 25C
- ▶ accoustic hood - acoustic shield of Danfoss catalogue number 7755007
- ▶ discharge thermostatic protection - discharge temperature protection accessory - Danfoss catalogue number 7750009