
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: Danfoss-Maneurop****Series: SH****Model: SH140****Data****Model: SH140****Technical data**

Displacement [m ³ /h]:	23,12
Swept volume [cm ³ /rev]:	133
RPM [min ⁻¹]:	2900
Weight [kg]:	67
Oil charge [dm ³]:	3,3
Oil type:	160SZ
Maximum system test pressure low side / high side:	33/45
Maximum number of starts without softstart [1/h]:	12
Refrigerant charge limit [dm ³]:	7,9
Sound power [dB]:	72,5
Refrigerant:	R410A

Connections

	<u>milimeters</u>	<u>inches</u>
Suction connection with supplied sleeve:	35	1 3/8"
Discharge connection with supplied sleeve:	22	7/8"

R410A**Model: SH140****Capacity****Cooling capacity [W]**

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10	15
20	15 019	18 324	22 226	26 804	32 132	38 287	45 345	-	-
25	14 237	17 494	21 321	25 793	30 987	36 979	43 844	51 659	-
30	13 425	16 616	20 347	24 694	29 734	35 543	42 196	49 770	58 341
35	12 584	15 689	19 305	23 508	28 375	33 981	40 403	47 716	55 997
40	-	14 716	18 197	22 237	26 910	32 295	38 465	45 498	53 469
45	-	13 697	17 025	20 881	25 342	30 485	36 384	43 117	50 760
50	-	-	15 789	19 442	23 671	28 553	34 162	40 576	47 870
55	-	-	-	17 922	21 900	26 500	31 800	37 875	44 800
60	-	-	-	-	20 028	24 329	29 299	35 015	41 553
65	-	-	-	-	-	22 039	26 661	31 999	38 130

Power input [W]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10	15
20	5 113	5 205	5 284	5 346	5 387	5 404	5 393	-	-
25	5 632	5 732	5 821	5 897	5 956	5 995	6 009	5 995	-
30	6 205	6 308	6 404	6 490	6 563	6 618	6 653	6 664	6 647
35	6 851	6 953	7 052	7 144	7 226	7 294	7 345	7 376	7 382
40	-	7 686	7 783	7 877	7 964	8 040	8 104	8 150	8 176
45	-	8 527	8 617	8 708	8 796	8 877	8 948	9 005	9 046
50	-	-	9 573	9 657	9 741	9 823	9 897	9 961	10 012
55	-	-	-	10 743	10 820	10 896	10 970	11 037	11 094
60	-	-	-	-	12 049	12 117	12 186	12 252	12 310
65	-	-	-	-	-	13 505	13 564	13 624	13 680

Current [A]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10	15
20	12.39	12.41	12.42	12.42	12.44	12.49	12.57	-	-
25	13.11	13.16	13.20	13.23	13.26	13.31	13.39	13.52	-
30	13.79	13.88	13.95	14.00	14.04	14.10	14.18	14.30	14.47
35	14.49	14.62	14.71	14.78	14.84	14.91	14.99	15.10	15.26
40	-	15.42	15.54	15.63	15.71	15.78	15.87	15.97	16.11
45	-	16.33	16.48	16.60	16.69	16.77	16.85	16.95	17.08
50	-	-	17.59	17.73	17.83	17.92	18.00	18.09	18.21
55	-	-	-	19.06	19.19	19.28	19.36	19.45	19.55
60	-	-	-	-	20.80	20.90	20.99	21.06	21.15
65	-	-	-	-	-	22.83	22.92	22.99	23.06

Model: SH140

Mass flow [kg/h]

Capacity

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
20	262.70	319.54	384.61	459.28	544.91	642.87	754.53	-	-
25	260.15	317.70	383.53	458.99	545.47	644.32	756.92	884.62	-
30	256.82	314.92	381.35	457.47	544.65	644.25	757.65	886.19	1 031.26
35	252.62	311.14	378.04	454.67	542.41	642.61	756.66	885.90	1 031.72
40	-	306.30	373.52	450.52	538.67	639.34	753.89	883.70	1 030.11
45	-	300.35	367.74	444.96	533.39	634.37	749.29	879.51	1 026.39
50	-	-	360.64	437.94	526.49	627.66	742.80	873.28	1 020.48
55	-	-	-	429.40	517.93	619.13	734.34	864.96	1 012.32
60	-	-	-	-	507.64	608.72	723.88	854.47	1 001.87
65	-	-	-	-	-	596.39	711.34	841.77	989.05

C.O.P. [W/W]

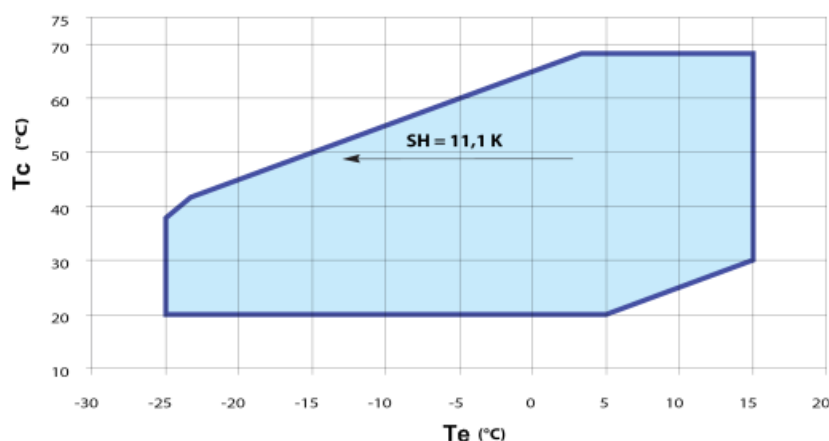
$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
20	2.94	3.52	4.21	5.01	5.97	7.09	8.41	-	-
25	2.53	3.05	3.66	4.37	5.20	6.17	7.30	8.62	-
30	2.16	2.63	3.18	3.80	4.53	5.37	6.34	7.47	8.78
35	1.84	2.26	2.74	3.29	3.93	4.66	5.50	6.47	7.59
40	-	1.91	2.34	2.82	3.38	4.02	4.75	5.58	6.54
45	-	1.61	1.98	2.40	2.88	3.43	4.07	4.79	5.61
50	-	-	1.65	2.01	2.43	2.91	3.45	4.07	4.78
55	-	-	-	1.67	2.02	2.43	2.90	3.43	4.04
60	-	-	-	-	1.66	2.01	2.40	2.86	3.38
65	-	-	-	-	-	1.63	1.97	2.35	2.79

Operating conditions: superheating: 11.1 K, subcooling: 8.3 K

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range



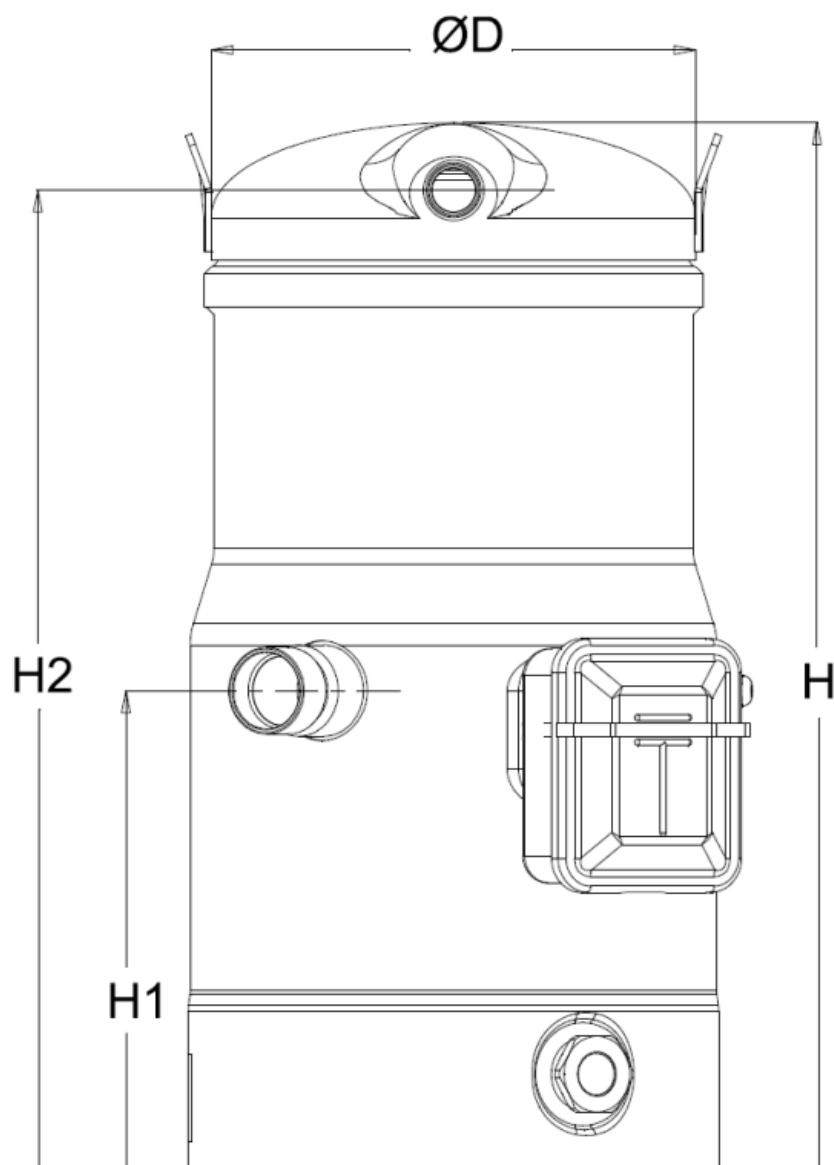
GACO SARL

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

**Model: SH140****Dimensions**

D [mm]: 243

H [mm]: 540

H1 [mm]: 278

H2 [mm]: 509

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



Model: SH140

Image



Single phase power supply

Model: SH140
Electrical

Motor voltage code:

4

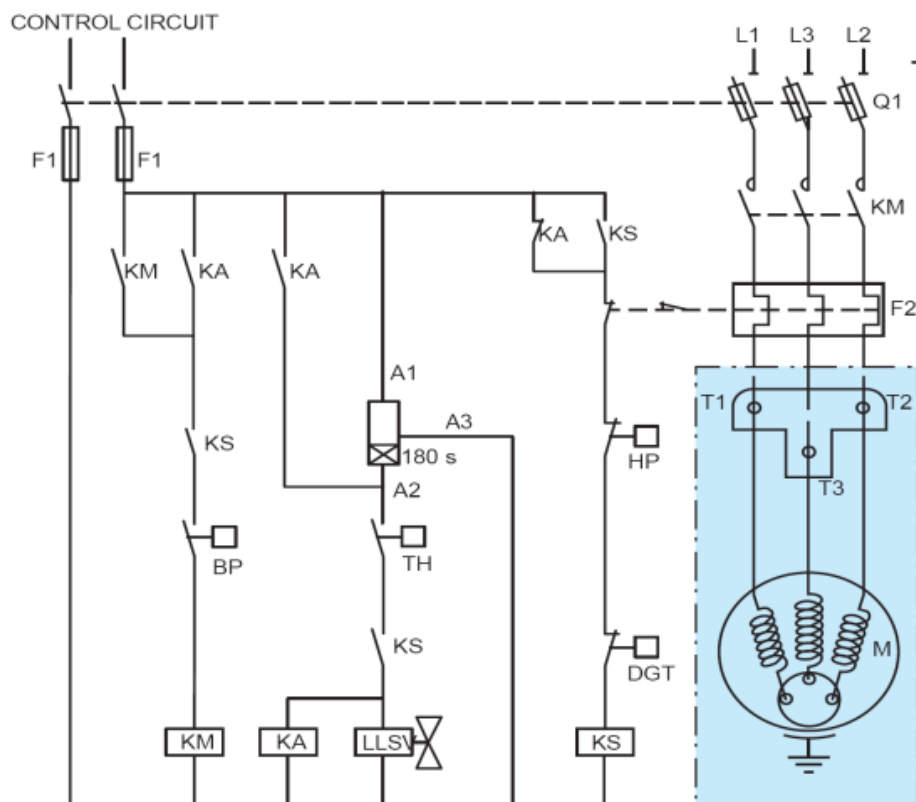
Power supply:

400V/3/50Hz

Maximum Continuous Current (MCC) [A]:

24,4

Wiring diagram with pump-down cycle



TH: Control device

180 s: Optional short cycle timer (3min) 5 pts

KA: Control relay

LLSV: Liquid Line Solenoid valve

KM: Compressor contactor

KS: Safety lock out relay

BP: Pump-down control and low pressure switch

HP: High pressure safety switch

Q1: Fused disconnect

F1: Fuses / S: External overload protection

F2: External overload protection

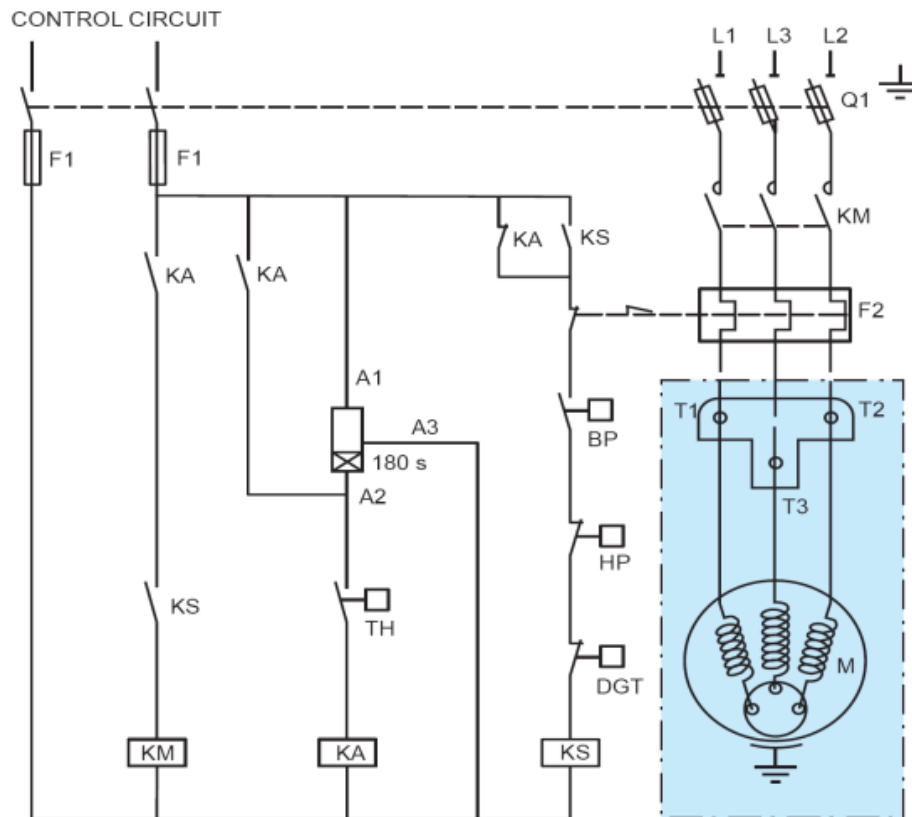
M: Compressor's engine

thM: Motor safety thermostat

DGT: Discharge gas thermostat

MPM: Motor Protection Module

S: Thermistor chain

Model: SH140**Electrical****Wiring diagram without pump-down cycle**

TH: Control device

180 s: Optional short cycle timer (3min) 5 pts

KA: Control relay

LLSV: Liquid Line Solenoid valve

KM: Compressor contactor

KS: Safety lock out relay

BP: Pump-down control and low pressure switch

HP: High pressure safety switch

Q1: Fused disconnect

F1: Fuses / S: External overload protection

F2: External overload protection

M: Compressor's engine

thM: Motor safety thermostat

DGT: Discharge gas thermostat

MPM: Motor Protection Module

S: Thermistor chain