
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: SY240****Data****Type: Hermetic scroll compressors****Producer: Maneurop****Series: SY****Model: SY240****Technical data**

Displacement [m ³ /h]:	60,5
:	347,8
RPM [min ⁻¹]:	2900
Weight [kg]:	150
Oil charge [dm ³]:	8
Oil type:	320SZ
Maximum system test pressure low side / high side:	25 / 32
Maximum number of starts without softstart [1/h]:	12
Refrigerant charge limit [dm ³]:	16
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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**Model: SY240****Capacity****R22****Cooling capacity [W]**

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	24 826	30 969	38 151	46 483	56 075	67 035	79 474	93 502
35	23 591	29 536	36 476	44 520	53 777	64 358	76 371	89 928
40	22 285	28 012	34 687	42 421	51 323	61 502	73 069	86 133
45	-	26 410	32 800	40 202	48 727	58 484	69 583	82 133
50	-	-	30 830	37 880	46 007	55 320	65 929	77 943
55	-	-	-	35 469	43 176	52 024	62 122	73 580
60	-	-	-	-	40 252	48 613	58 178	69 058
65	-	-	-	-	37 248	45 101	54 113	64 394

Power input [W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	10 588	10 704	10 846	11 020	11 237	11 504	11 830	12 226
35	11 668	11 805	11 961	12 145	12 365	12 630	12 950	13 333
40	12 835	12 991	13 161	13 353	13 576	13 838	14 150	14 519
45	-	14 298	14 480	14 678	14 903	15 162	15 464	15 818
50	-	-	15 952	16 156	16 381	16 634	16 926	17 264
55	-	-	-	17 819	18 043	18 290	18 570	18 891
60	-	-	-	-	19 924	20 163	20 430	20 732
65	-	-	-	-	22 057	22 288	22 540	22 823

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
35	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
40	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
45	-	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
50	-	-	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
55	-	-	-	-1.00	-1.00	-1.00	-1.00	-1.00
60	-	-	-	-	-1.00	-1.00	-1.00	-1.00
65	-	-	-	-	-1.00	-1.00	-1.00	-1.00

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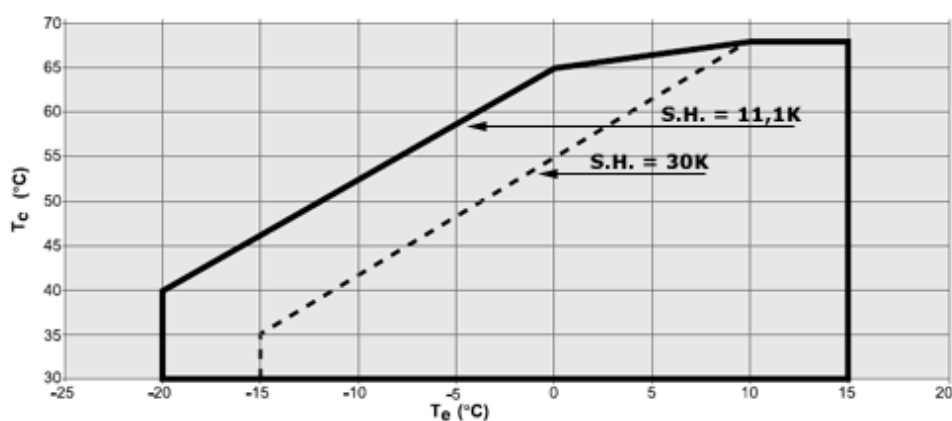
**Model: SY240****Capacity****Mass flow [kg/s]**

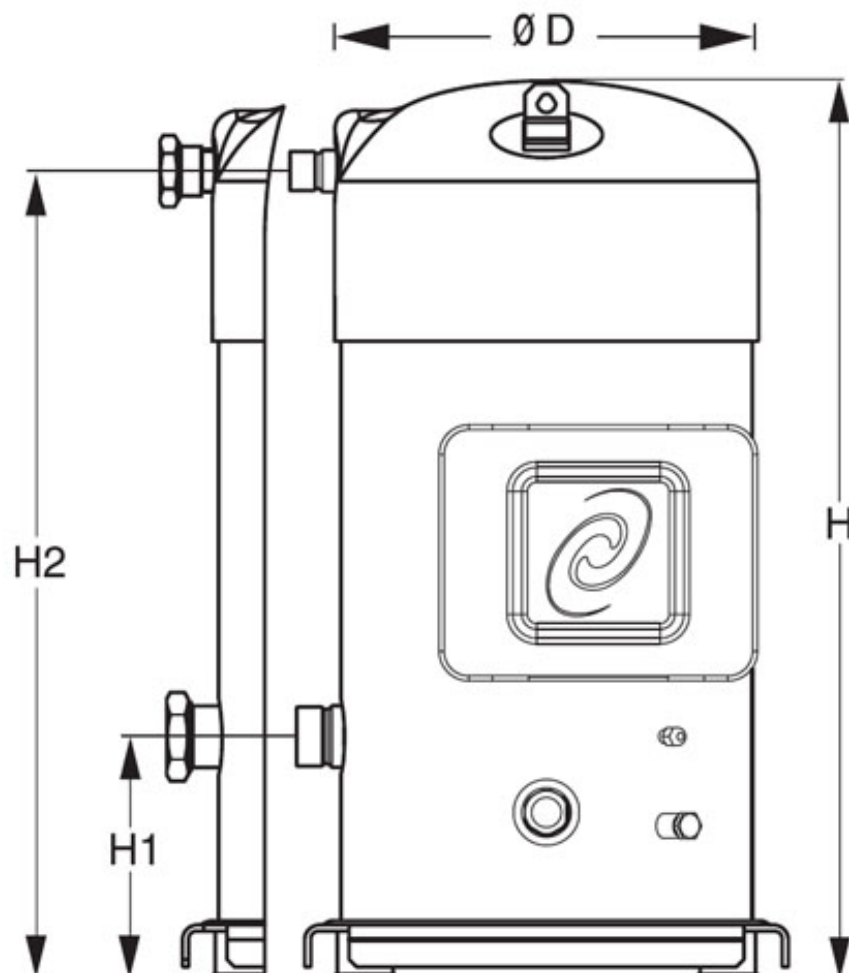
$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	533.56	656.97	798.72	960.75	1 145.00	1 353.40	1 587.88	1 850.37
35	526.96	650.82	792.94	955.24	1 139.66	1 348.12	1 582.58	1 844.95
40	518.77	642.74	784.86	947.07	1 131.30	1 339.49	1 573.56	1 835.46
45	-	632.82	774.60	936.36	1 120.05	1 327.60	1 560.94	1 822.00
50	-	-	762.25	923.22	1 106.01	1 312.57	1 544.82	1 804.69
55	-	-	-	907.75	1 089.29	1 294.50	1 525.30	1 783.64
60	-	-	-	-	1 070.00	1 273.50	1 502.51	1 758.95
65	-	-	-	-	1 048.24	1 249.69	1 476.54	1 730.72

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
30	2.34	2.89	3.52	4.22	4.99	5.83	6.72	7.65
35	2.02	2.50	3.05	3.67	4.35	5.10	5.90	6.74
40	1.74	2.16	2.64	3.18	3.78	4.44	5.16	5.93
45	-	1.85	2.27	2.74	3.27	3.86	4.50	5.19
50	-	-	1.93	2.34	2.81	3.33	3.90	4.51
55	-	-	-	1.99	2.39	2.84	3.35	3.90
60	-	-	-	-	2.02	2.41	2.85	3.33
65	-	-	-	-	1.69	2.02	2.40	2.82

Operating conditions: suction superheat: 10 K, subcooling: 0 K

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

Model: SY240**Dimensions**

D	344 mm
H	729 mm
H1	196 mm
H2	656 mm

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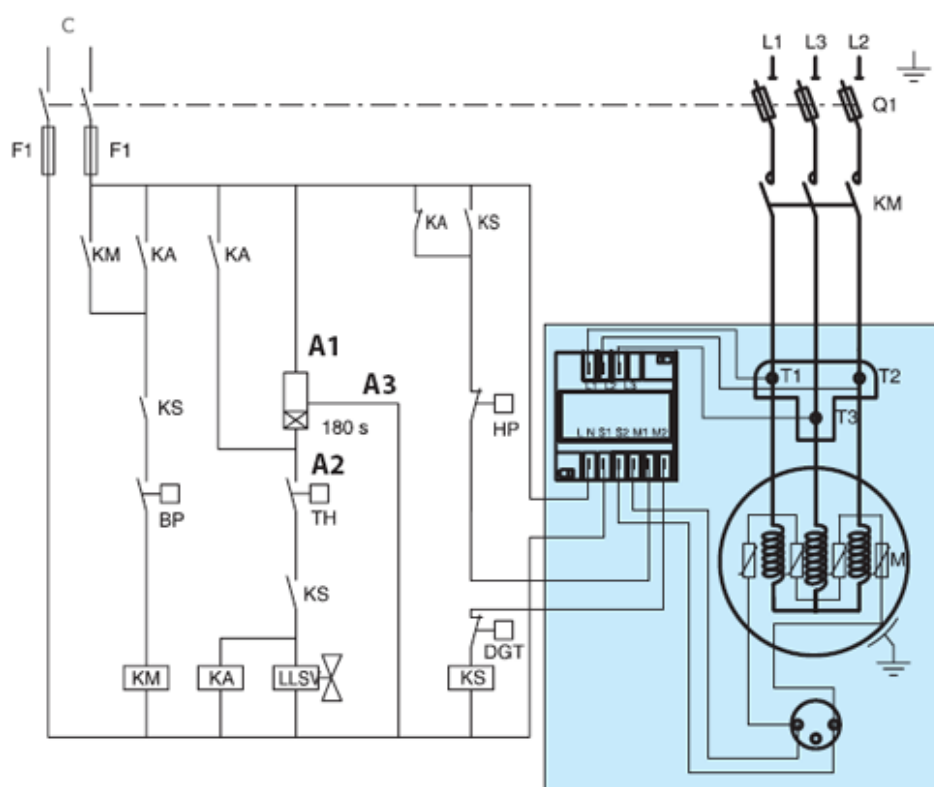
Model: SY240

Image



Model: SY240**Electrical****Electrical data**

Starting current [A]:	215
Maximum Continuous Current (MCC) [A]:	50
Winding resistance (between phases) [Ω]:	0,616

Connection diagram for systems with refrigerant suction

TH: Thermostat

180s: 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

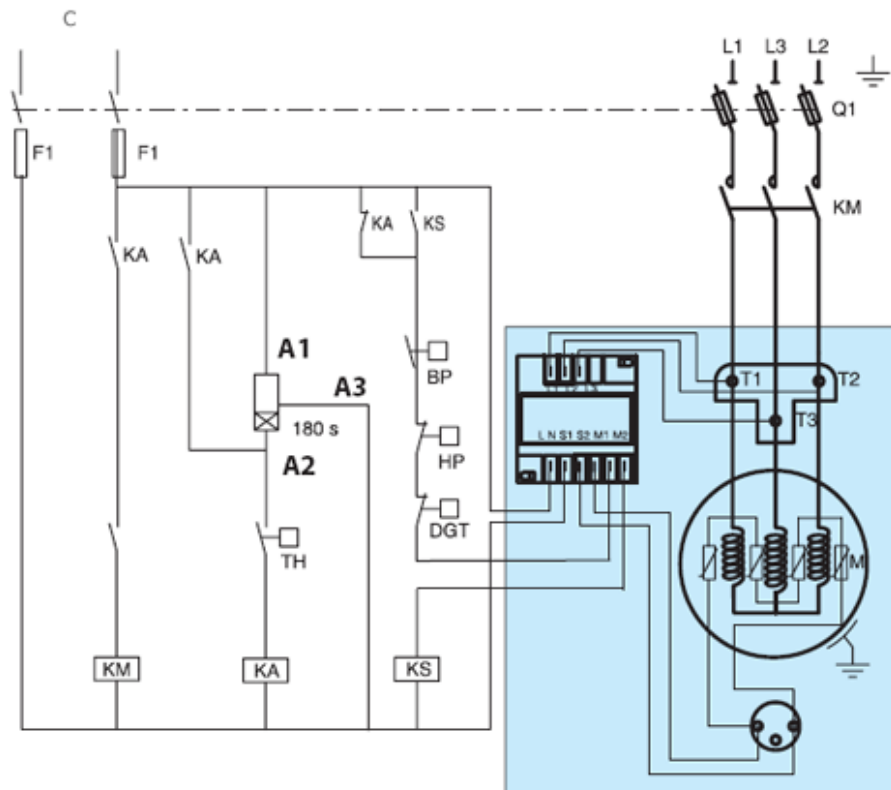
Q1: Safety switch

F1: Fuses / S: Thermal relay TI

F2: Thermal relay TI

M: Compressor's engine

DGT: Discharge gas thermostat

Model: SY240**Electrical****Connection diagram for systems without refrigerant suction**

TH: Thermostat

180s: ATI electronic timer

KA: Control transmitter CI 4-2

LLSV: Electromagnetic liquid valve

KM: Main contactor CI

KS: Fuses' switch

BP: Low pressure switch

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Q1: Safety switch

F1: Fuses / S: Thermal relay TI

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Model: SY240

Equipment

Equipment

- ▶ oil equalization - thread adapter 1/2"
- ▶ belt type heater - crankcase heater 130W, 230V
- ▶ soft-start kit - electronic softstart MCI 50C
- ▶ accoustic hood - acoustic shield of Danfoss catalogue number 7755016
- ▶ discharge thermostatic protection - discharge temperature protection accessory - Danfoss catalogue number 7750009