
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 piston compressors****Producer: Maneurop****Series: MT**

Model: MT56

Technical data

Cylinder count:	2
Displacement [m ³ /h]:	16,73
Cylinder capacity [cm ³]:	96,1
RPM [min ⁻¹]:	2900
Weight [kg]:	37
Oil charge [dm ³]:	2
Oil type:	160P
Crankcase heater type:	PTC 35 W
Maximum system test pressure low side / high side:	25 / 30
Maximum number of starts without softstart [1/h]:	12
Refrigerant charge limit [dm ³]:	5
Refrigerant:	R22
Sound power [dB]:	81
Sound power with accoustic hood [dB]:	74

Connections

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

Approvals

CCC	+
CE	+
UL	+

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**R22****Cooling capacity [W]**

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	3 831	5 308	7 045	9 069	11 407	14 089	17 140	20 590	24 466
35	3 426	4 861	6 542	8 496	10 752	13 337	16 279	19 605	23 344
40	3 036	4 420	6 036	7 912	10 076	12 555	15 379	18 573	22 167
45	2 664	3 987	5 529	7 318	9 381	11 747	14 443	17 496	20 936
50	-	3 567	5 026	6 719	8 672	10 915	13 474	16 378	19 654
55	-	-	4 528	6 116	7 951	10 062	12 476	15 221	18 325
60	-	-	-	5 513	7 221	9 191	11 451	14 028	16 951
65	-	-	-	-	6 485	8 305	10 402	12 803	15 536

Power input [W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	1 980	2 326	2 642	2 912	3 120	3 249	3 283	3 207	3 004
35	2 079	2 447	2 791	3 095	3 344	3 521	3 610	3 595	3 460
40	2 157	2 550	2 927	3 270	3 565	3 794	3 942	3 993	3 931
45	2 211	2 635	3 049	3 436	3 781	4 067	4 279	4 400	4 415
50	-	2 698	3 153	3 589	3 989	4 337	4 617	4 813	4 910
55	-	-	3 238	3 727	4 186	4 600	4 953	5 229	5 412
60	-	-	-	3 847	4 370	4 855	5 286	5 646	5 920
65	-	-	-	-	4 539	5 100	5 612	6 061	6 430

Current [A]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	4.35	4.37	4.63	5.02	5.44	5.77	5.89	5.68	5.05
35	4.31	4.44	4.83	5.36	5.91	6.38	6.65	6.61	6.14
40	4.34	4.59	5.11	5.77	6.47	7.08	7.51	7.62	7.31
45	4.39	4.76	5.41	6.21	7.05	7.81	8.39	8.67	8.53
50	-	4.91	5.68	6.62	7.60	8.52	9.26	9.70	9.73
55	-	-	5.88	6.96	8.09	9.16	10.06	10.67	10.87
60	-	-	-	7.18	8.46	9.69	10.75	11.52	11.90
65	-	-	-	-	8.66	10.04	11.27	12.22	12.78

Mass flow [kg/s]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	78.59	107.67	140.97	178.98	222.16	271.01	326.00	387.62	456.33
35	72.46	101.77	135.23	173.34	216.58	265.41	320.33	381.81	450.34
40	66.60	95.91	129.33	167.33	210.39	259.00	313.63	374.77	442.89
45	60.93	90.04	123.20	160.87	203.56	251.73	305.86	366.44	433.95
50	-	84.12	116.79	153.94	196.03	243.55	296.97	356.78	423.46
55	-	-	110.07	146.47	187.76	234.41	286.91	345.74	411.37
60	-	-	-	138.42	178.69	224.26	275.63	333.26	397.64
65	-	-	-	-	168.77	213.06	263.08	319.30	382.22

C.O.P. [W/W]

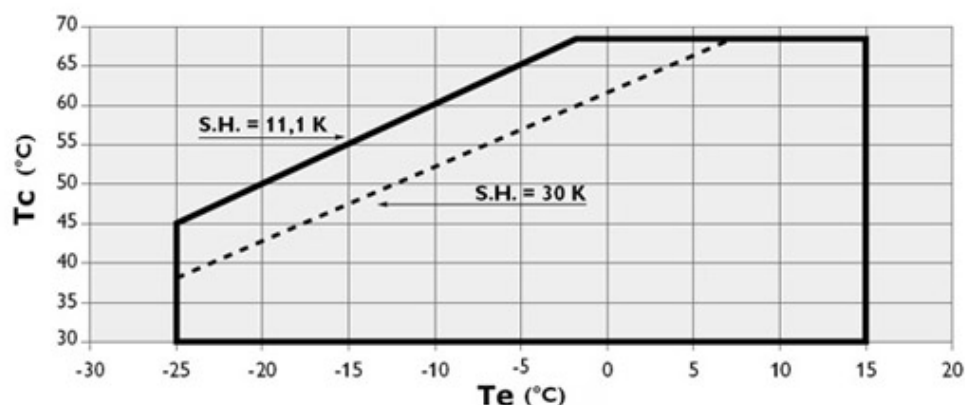
$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	1.94	2.28	2.67	3.11	3.66	4.34	5.22	6.42	8.14
35	1.65	1.99	2.34	2.75	3.22	3.79	4.51	5.45	6.75
40	1.41	1.73	2.06	2.42	2.83	3.31	3.90	4.65	5.64
45	1.20	1.51	1.81	2.13	2.48	2.89	3.38	3.98	4.74
50	-	1.32	1.59	1.87	2.17	2.52	2.92	3.40	4.00
55	-	-	1.40	1.64	1.90	2.19	2.52	2.91	3.39
60	-	-	-	1.43	1.65	1.89	2.17	2.48	2.86
65	-	-	-	-	1.43	1.63	1.85	2.11	2.42

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range



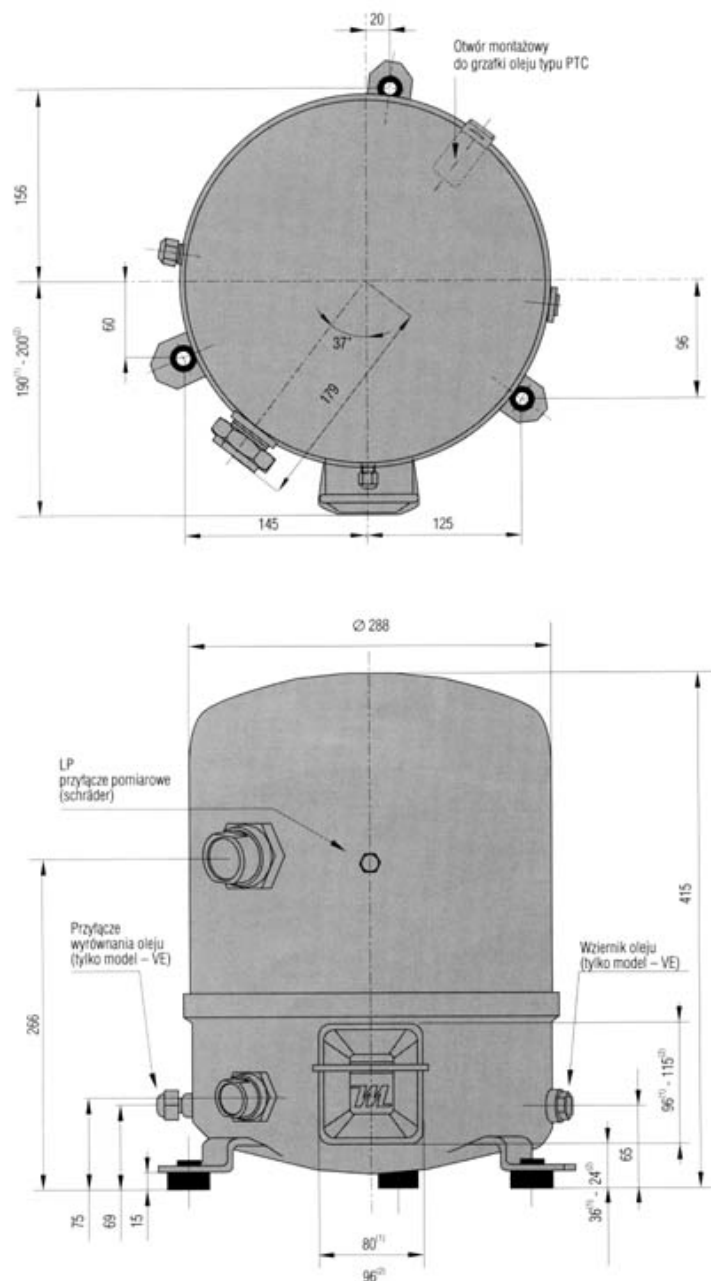
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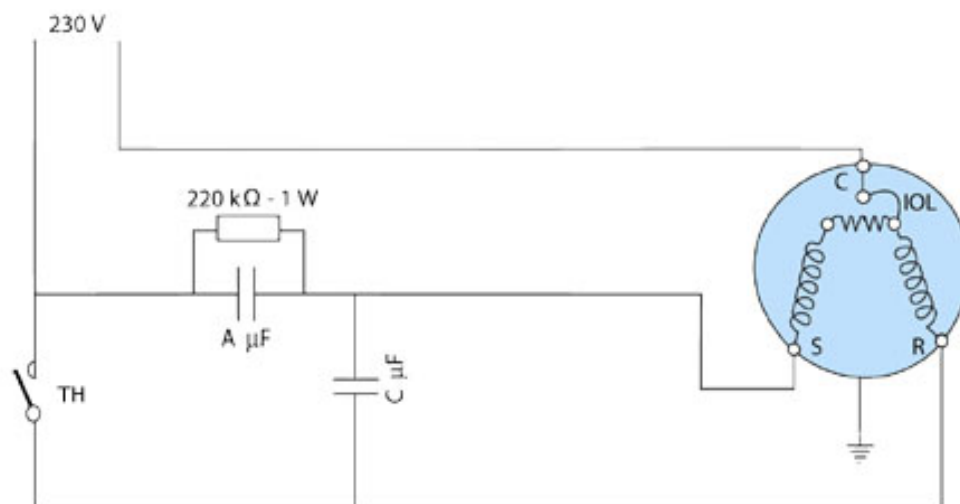


Single phase power supply

Electrical data

Motor voltage code:	1	5
Starting current [A]:	136	
Maximum Continuous Current (MCC) [A]:	42,5	
Winding resistance (between phases)	0,32/1,61	/
(run/start) [Ω]:		

PSC starting with additional winding



IOL: inner motor protection (klixon)

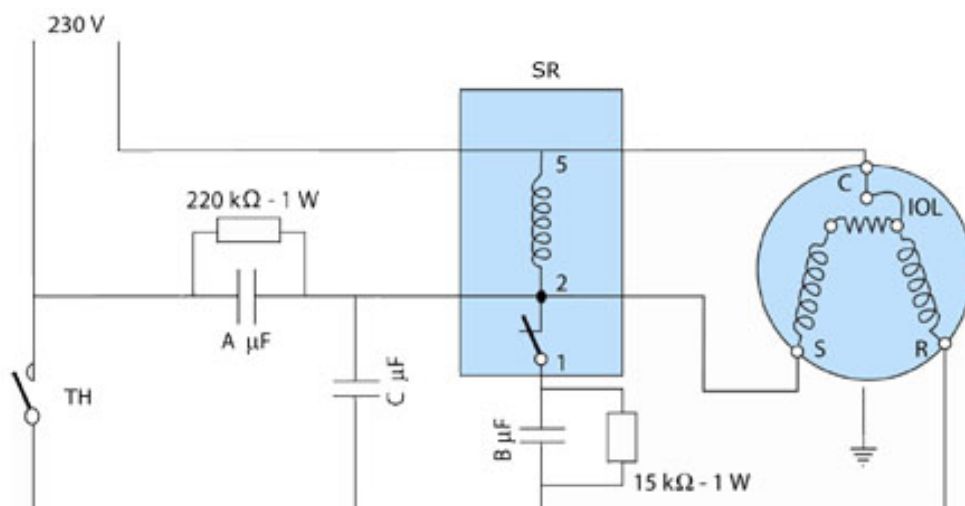
A, C: main condensers

C: starting condenser / S: common

TH: thermostat

SR: movement transmitter

CSR starting with additional winding



IOL: inner motor protection (klixon)

A, C: main condensers

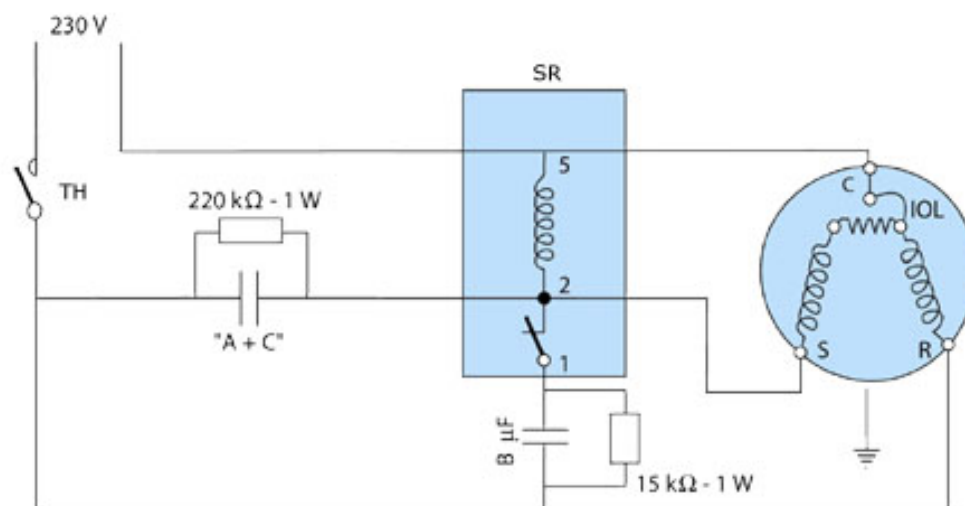
B: starting condenser

C: common / S: additional starting winding

TH: thermostat

SR: movement transmitter

CSR starting without additional winding



IOL: inner motor protection (klixon)

A, C: main condensers

B: starting condenser

C: common / S: additional starting winding

TH: thermostat

SR: movement transmitter

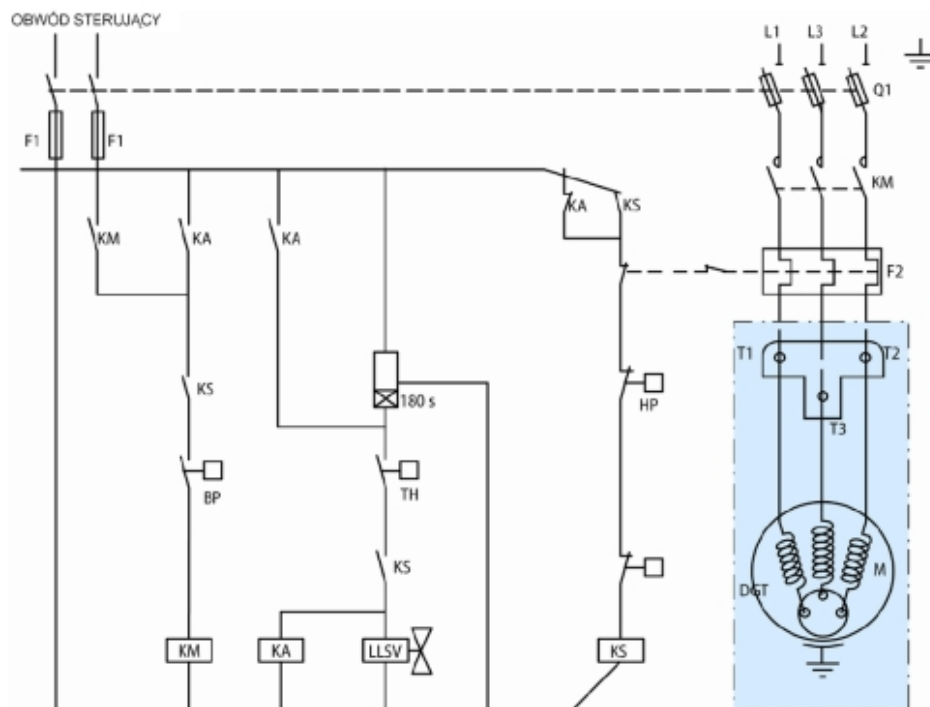
condensers A and C are replaced by one condenser of capacity A + C

Three-phase power supply

Electrical data

Motor voltage code:	3	4	6	7	9
Starting current [A]:	130	60	105	50	72
Maximum Continuous	26	12	105	11	15
Current (MCC) [A]:					
Winding resistance	0,57	2,41	0,76	3,86	-
(between phases) [Ω]:					

Connection diagram for systems without refrigerant suction



TH: Thermostat

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

KA: Control relay

LLSV: Liquid Solenoid valve

KM: Compressor contactor

KS: Safety lock out relay

BP: Low pressure switch

HP: High pressure switch

Q1: Fused disconnect

F1: Fuses

F2: External overload protection

M: Compressor's engine

thM: Motor safety thermostat

DGT: Discharge gas thermostat

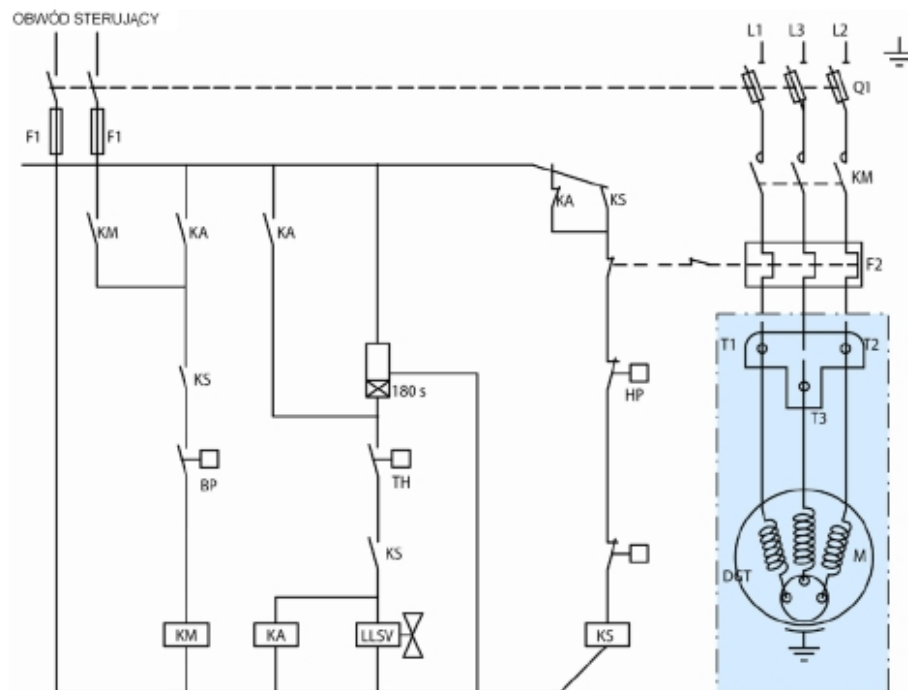
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TH: Thermostat

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

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KS: Safety lock out relay

BP: Low pressure switch

HP: High pressure switch

Q1: Fused disconnect

F1: Fuses

F2: External overload protection

M: Compressor's engine

thM: Motor safety thermostat

DGT: Discharge gas thermostat

Equipment

- ▶ crankcase heater - PTC 35 W
- ▶ belt type heater - crankcase heater 65W, 230V
- ▶ Rotolock valves
 - suction: Rotolock valve connection 1 3/4", connection with supplied sleeve 7/8"
 - discharge: Rotolock valve connection 1 1/4", connection with supplied sleeve 3/4"
- ▶ soft-start kit - electronic softstart MCI 15C
- ▶ accoustic hood - acoustic shield of Danfoss catalogue number 7755002