

Technical Data Sheet

Compressor model **GP14CG**
Voltage **200-220/220-230V 50/60Hz ~1**
Refrigerant **R134a**

APPLICATION

Application Low Back Pressure
Refrigerant R134a
Evaporating Temp. -35,0 °C to -10,0 °C
Expansion Capillar
Comp. Cooling Fan cooled
Max. ambient temp. 43,0 °C
Compatible refriger. R1234yf

COMPRESSOR

Displacement 14,17 cm³
Diameter 31,19 mm
Stroke 18,54 mm
Net Weight 10,62 Kg
Oil type ISO VG 32 ESTER
Oil charge 400 cm³

MOTOR

Nominal Power 3/8 hp
Voltage/Frequency 220-230V 60Hz
Voltage range 187-253 V
Type RSIR
Phase number 1 PH
Locked Rotor Amps (LRA) 17,20 A
Max. Cont. Current (MCC) 3,30 A
Main W. resist. at 25°C 5,28 Ω
Start W. resist. at 25°C 33,32 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	310 kCal/h	262 W
COP	1,18 W/W	0,91 W/W
EER	1,02 kCal/Wh	0,78 kCal/Wh
Input Power	305 W	289 W
Current	2,00 A	1,95 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

ELECTRICAL COMPONENTS

Relay	Option 1			
Reference	2014 149.			
Pick-Up	7,80 A			
Drop-Out	6,65 A			
Protector	Option 1			
Reference	T0269			
Current	9,60 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	165	210	1,72	0,91	0,79
40	-30	244	244	1,81	1,16	1,00
40	-25	338	282	1,92	1,39	1,20
40	-23,3	374	296	1,97	1,47	1,26
40	-20	447	326	2,07	1,60	1,37
40	-15	571	373	2,26	1,78	1,53
40	-10	710	426	2,48	1,94	1,67

45	-35	150	208	1,71	0,84	0,72
45	-30	227	244	1,81	1,08	0,93
45	-25	318	284	1,93	1,30	1,12
45	-23,3	352	299	1,98	1,37	1,18
45	-20	424	330	2,09	1,50	1,29
45	-15	546	380	2,28	1,67	1,44
45	-10	682	434	2,52	1,83	1,57

50	-35	135	206	1,71	0,76	0,66
50	-30	209	244	1,81	1,00	0,86
50	-25	298	287	1,94	1,21	1,04
50	-23,3	331	302	1,99	1,27	1,10
50	-20	401	334	2,10	1,40	1,20
50	-15	520	386	2,31	1,57	1,35
50	-10	653	443	2,56	1,72	1,48

55	-35	120	204	1,70	0,68	0,59
55	-30	191	244	1,81	0,91	0,78
55	-25	277	289	1,95	1,12	0,96
55	-23,3	310	305	2,00	1,18	1,02
55	-20	378	338	2,12	1,30	1,12
55	-15	494	392	2,33	1,47	1,26
55	-10	625	451	2,60	1,61	1,39

60	-35	105	202	1,70	0,60	0,52
60	-30	174	244	1,81	0,83	0,71
60	-25	257	291	1,95	1,03	0,88
60	-23,3	289	308	2,01	1,09	0,94
60	-20	355	342	2,13	1,21	1,04
60	-15	469	398	2,36	1,37	1,18
60	-10	597	459	2,64	1,51	1,30

65	-35	90	200	1,69	0,52	0,45
65	-30	156	244	1,81	0,74	0,64
65	-25	237	293	1,96	0,94	0,81
65	-23,3	268	311	2,02	1,00	0,86
65	-20	332	347	2,15	1,12	0,96
65	-15	443	405	2,39	1,27	1,09
65	-10	568	468	2,68	1,41	1,22

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	180	210	1,72	0,86	0,74
40	-30	271	244	1,81	1,11	0,96
40	-25	375	282	1,92	1,33	1,15
40	-23,3	414	296	1,97	1,40	1,21
40	-20	494	326	2,07	1,52	1,31
40	-15	626	373	2,26	1,68	1,45
40	-10	773	426	2,48	1,81	1,57

45	-35	158	208	1,71	0,76	0,65
45	-30	241	244	1,81	0,99	0,85
45	-25	337	284	1,93	1,19	1,03
45	-23,3	374	299	1,98	1,25	1,08
45	-20	448	330	2,09	1,36	1,17
45	-15	573	380	2,28	1,51	1,30
45	-10	712	434	2,52	1,64	1,42

50	-35	136	206	1,71	0,66	0,57
50	-30	211	244	1,81	0,86	0,75
50	-25	300	287	1,94	1,05	0,90
50	-23,3	333	302	1,99	1,10	0,95
50	-20	403	334	2,10	1,21	1,04
50	-15	520	386	2,31	1,35	1,16
50	-10	650	443	2,56	1,47	1,27

55	-35	113	204	1,70	0,56	0,48
55	-30	181	244	1,81	0,74	0,64
55	-25	262	289	1,95	0,91	0,78
55	-23,3	293	305	2,00	0,96	0,83
55	-20	357	338	2,12	1,06	0,91
55	-15	466	392	2,33	1,19	1,03
55	-10	589	451	2,60	1,31	1,13

60	-35	91	202	1,70	0,45	0,39
60	-30	151	244	1,81	0,62	0,53
60	-25	224	291	1,95	0,77	0,67
60	-23,3	252	308	2,01	0,82	0,71
60	-20	312	342	2,13	0,91	0,79
60	-15	413	398	2,36	1,04	0,90
60	-10	528	459	2,64	1,15	0,99

65	-35	69	200	1,69	0,35	0,30
65	-30	121	244	1,81	0,50	0,43
65	-25	187	293	1,96	0,64	0,55
65	-23,3	212	311	2,02	0,68	0,59
65	-20	266	347	2,15	0,77	0,66
65	-15	359	405	2,39	0,89	0,77
65	-10	467	468	2,68	1,00	0,86

EN12900

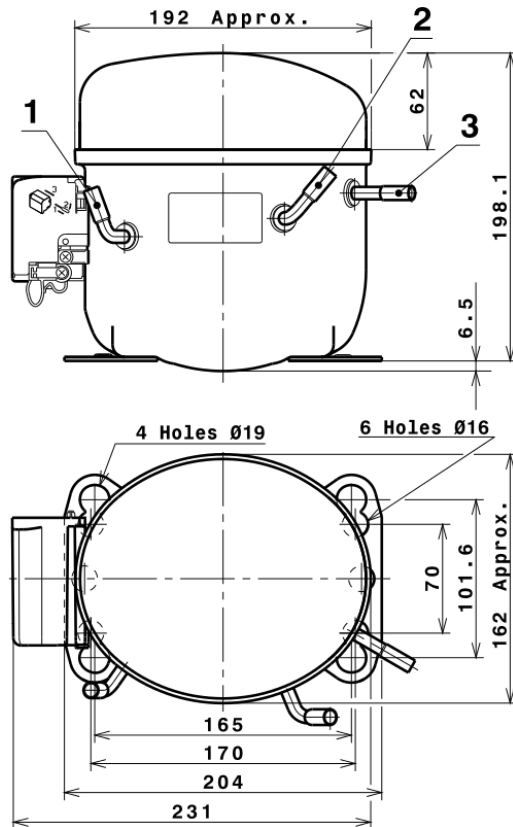
X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.715,1099852197	456,8548727305	2,6669027141	31,180437454162
2	48,4442829514	9,8680753071	0,0544156688	0,96102266994582
3	-15,6404553495	2,5525315631	0,0118030694	-0,1610172816722
4	0,2722266232	0,0974591081	0,0008216713	0,0074522414716423
5	-0,3208339598	0,0846037915	0,0003672706	-0,0025930490224148

Equation

$$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$$

Technical Data Sheet

COMPRESSOR DIMENSIONS

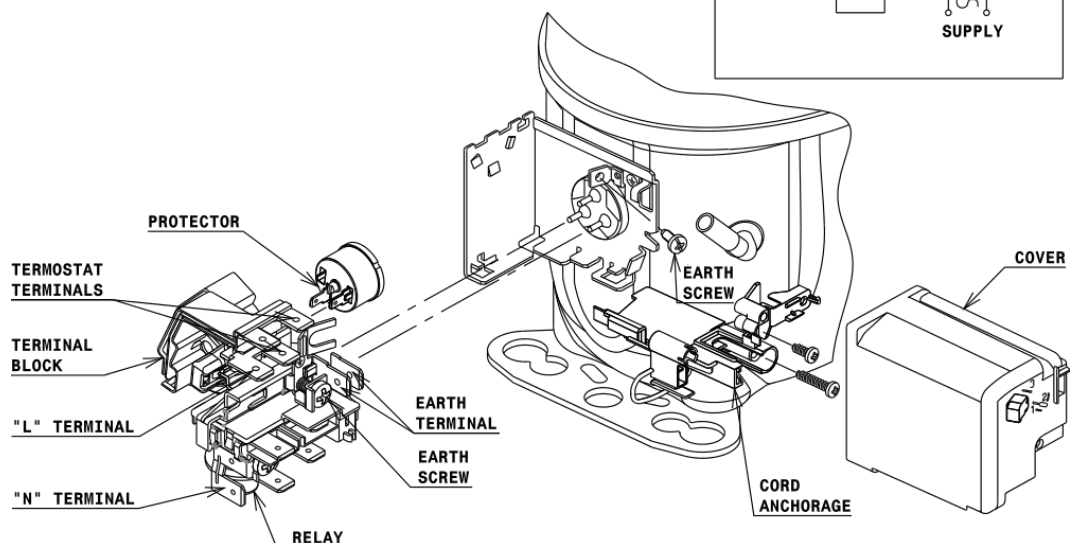
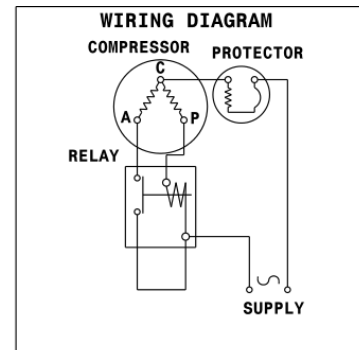


DESIGNATION INTERNAL DIAM.

1	Suction	8,1 mm
2	Service	8,1 mm
3	Discharge	6,5 mm

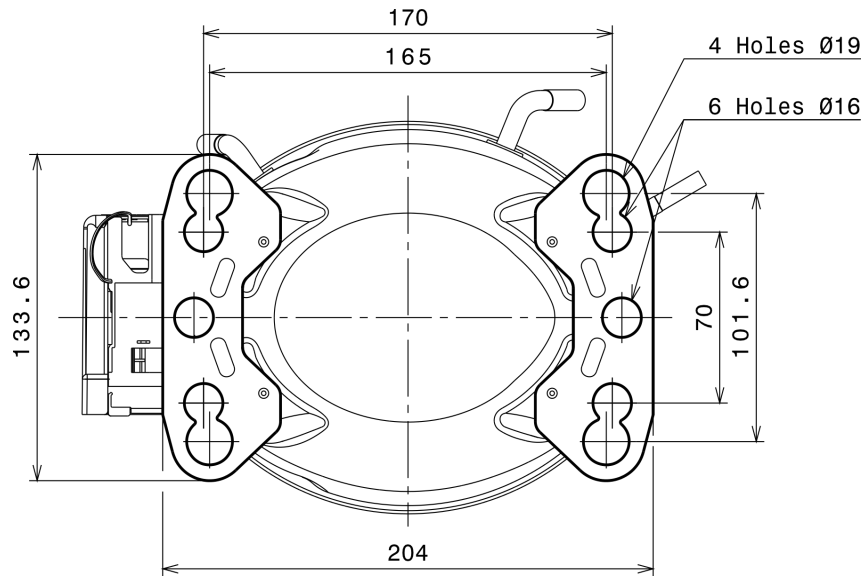
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSIR CONNECTION (RELAY) (L, P ranges)



Technical Data Sheet

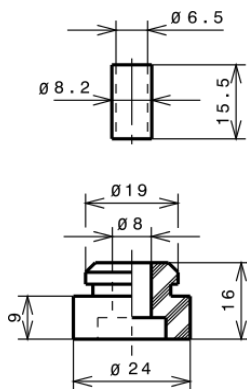
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

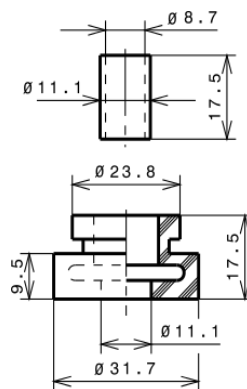
STANDARD

Ø16 holes (170x70 net)



AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP

