

# 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 cm<sup>3</sup>  
 Diameter 31,19 mm  
 Stroke 18,54 mm  
 Net Weight 10,62 Kg  
 Oil type ISO VG 32 ESTER  
 Oil charge 400 cm<sup>3</sup>

## MOTOR

Nominal Power 3/8 hp  
 Voltage/Frequency 200-220V 50Hz  
 Voltage range 170-242 V  
 Type RSIR  
 Phase number 1 PH  
 Locked Rotor Amps (LRA) 15,60 A  
 Max. Cont. Current (MCC) 3,10 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	270 kCal/h	228 W
COP	1,08 W/W	0,83 W/W
EER	0,93 kCal/Wh	0,71 kCal/Wh
Input Power	290 W	277 W
Current	2,40 A	2,37 A

## APPROVALS

## TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T <sub>e</sub> )	-23,3 °C	-25,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	32,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	32,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	32,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

## ELECTRICAL COMPONENTS

	Option 1	Option 2		
Relay	Option 1	Option 2		
Reference	2014 149.	QLZ-7.8A		
Pick-Up	7,80 A	7,80 A		
Drop-Out	6,65 A	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	145	206	2,30	0,82	0,70
40	-30	213	236	2,32	1,05	0,90
40	-25	294	268	2,36	1,27	1,10
40	-23,3	324	279	2,38	1,35	1,16
40	-20	387	301	2,43	1,49	1,29
40	-15	492	335	2,53	1,71	1,47
40	-10	610	370	2,66	1,92	1,65

45	-35	132	204	2,30	0,75	0,65
45	-30	198	237	2,32	0,97	0,84
45	-25	276	271	2,36	1,19	1,02
45	-23,3	306	283	2,38	1,26	1,08
45	-20	367	306	2,44	1,40	1,20
45	-15	471	342	2,55	1,60	1,37
45	-10	587	380	2,70	1,80	1,54

50	-35	118	202	2,30	0,68	0,59
50	-30	183	237	2,32	0,89	0,77
50	-25	259	274	2,37	1,10	0,95
50	-23,3	288	286	2,39	1,17	1,01
50	-20	348	311	2,45	1,30	1,12
50	-15	450	350	2,58	1,49	1,28
50	-10	563	390	2,75	1,68	1,44

55	-35	105	200	2,30	0,61	0,53
55	-30	167	238	2,32	0,82	0,70
55	-25	242	277	2,37	1,02	0,87
55	-23,3	270	290	2,40	1,08	0,93
55	-20	329	317	2,47	1,21	1,04
55	-15	428	358	2,61	1,39	1,20
55	-10	540	400	2,80	1,57	1,35

60	-35	92	198	2,30	0,54	0,46
60	-30	152	238	2,32	0,74	0,64
60	-25	224	279	2,38	0,93	0,80
60	-23,3	252	294	2,41	1,00	0,86
60	-20	309	322	2,48	1,12	0,96
60	-15	407	365	2,64	1,30	1,11
60	-10	517	410	2,85	1,47	1,26

65	-35	78	196	2,30	0,46	0,40
65	-30	137	238	2,32	0,67	0,57
65	-25	207	282	2,38	0,85	0,73
65	-23,3	234	297	2,42	0,92	0,79
65	-20	290	327	2,50	1,03	0,89
65	-15	386	373	2,67	1,20	1,03
65	-10	493	420	2,91	1,37	1,17

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	158	206	2,30	0,77	0,66
40	-30	236	236	2,32	1,00	0,86
40	-25	326	268	2,36	1,21	1,05
40	-23,3	359	279	2,38	1,29	1,11
40	-20	427	301	2,43	1,42	1,23
40	-15	540	335	2,53	1,61	1,39
40	-10	664	370	2,66	1,79	1,55

45	-35	138	204	2,30	0,68	0,59
45	-30	210	237	2,32	0,89	0,77
45	-25	293	271	2,36	1,08	0,94
45	-23,3	324	283	2,38	1,15	0,99
45	-20	388	306	2,44	1,27	1,10
45	-15	494	342	2,55	1,44	1,25
45	-10	612	380	2,70	1,61	1,39

50	-35	119	202	2,30	0,59	0,51
50	-30	184	237	2,32	0,78	0,67
50	-25	261	274	2,37	0,95	0,82
50	-23,3	290	286	2,39	1,01	0,87
50	-20	349	311	2,45	1,12	0,97
50	-15	449	350	2,58	1,28	1,11
50	-10	561	390	2,75	1,44	1,24

55	-35	99	200	2,30	0,50	0,43
55	-30	158	238	2,32	0,67	0,57
55	-25	228	277	2,37	0,83	0,71
55	-23,3	255	290	2,40	0,88	0,76
55	-20	310	317	2,47	0,98	0,85
55	-15	404	358	2,61	1,13	0,98
55	-10	509	400	2,80	1,27	1,10

60	-35	80	198	2,30	0,40	0,35
60	-30	132	238	2,32	0,55	0,48
60	-25	196	279	2,38	0,70	0,61
60	-23,3	220	294	2,41	0,75	0,65
60	-20	272	322	2,48	0,84	0,73
60	-15	359	365	2,64	0,98	0,85
60	-10	457	410	2,85	1,12	0,96

65	-35	60	196	2,30	0,31	0,27
65	-30	106	238	2,32	0,45	0,38
65	-25	164	282	2,38	0,58	0,50
65	-23,3	186	297	2,42	0,63	0,54
65	-20	233	327	2,50	0,71	0,62
65	-15	314	373	2,67	0,84	0,73
65	-10	406	420	2,91	0,97	0,83

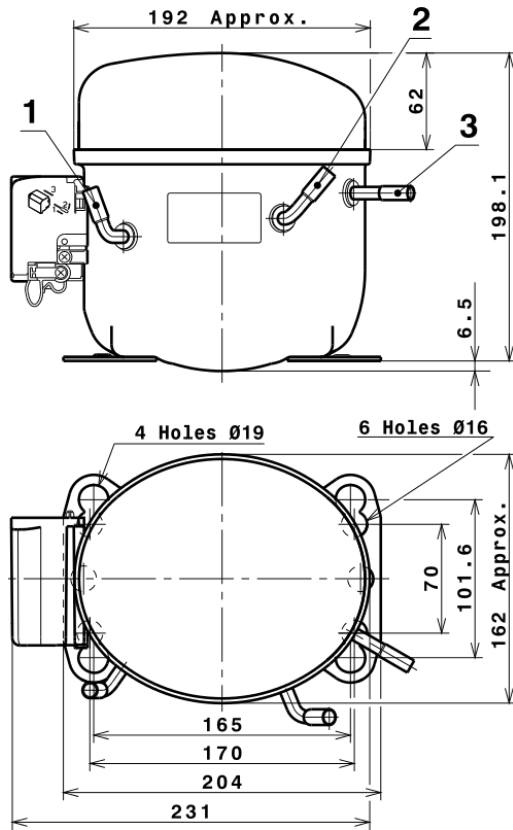
## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.457,3890875705	333,7380311951	2,6174890708	26,390998265608
2	40,6743798839	3,9306888414	0,0409052517	0,80326530502418
3	-13,1321561097	3,0303497845	0,0140133153	-0,13077185998061
4	0,2265916648	0,0249875194	0,0009125974	0,0062174514587995
5	-0,2636487147	0,0982557407	0,0004022569	-0,0019519515696184

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

# Technical Data Sheet

## COMPRESSOR DIMENSIONS

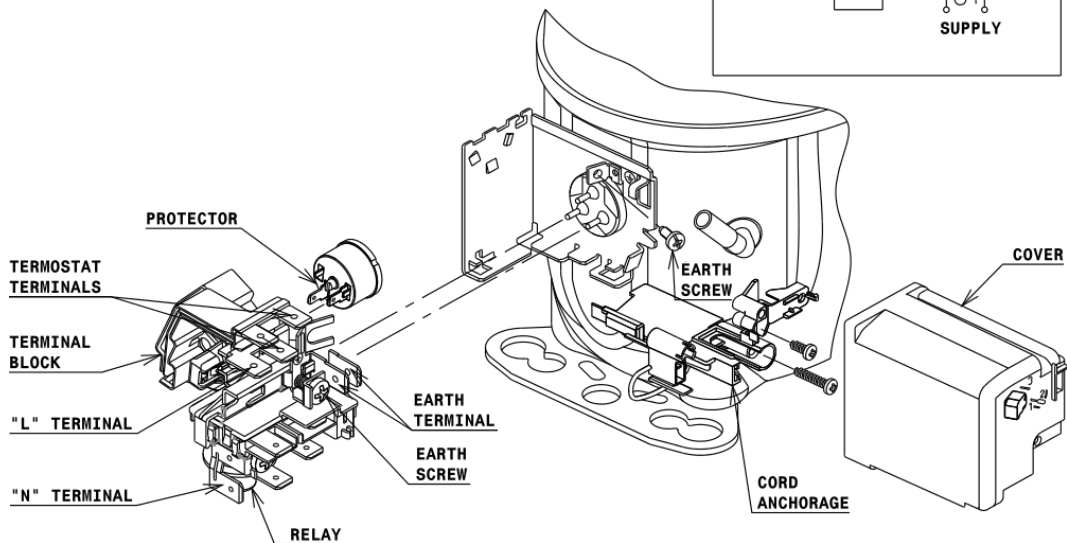
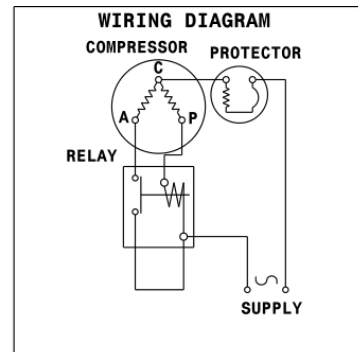


## DESIGNATION INTERNAL DIAM.

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)



## FIXINGS



## SILENT BLOCKS (MOUNTING ACCESSORIES)

### STANDARD

$\varnothing 16$  holes (170x70 net)



### AMERICAN FEET

$\varnothing 19$  holes (165x101.6 net)



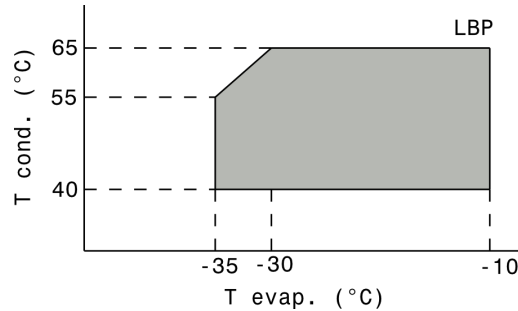
### SNAP-ON

$\varnothing 16$  holes (170x70 net)



## SOA

SOA R134a LBP



# 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 cm<sup>3</sup>  
 Diameter 31,19 mm  
 Stroke 18,54 mm  
 Net Weight 10,62 Kg  
 Oil type ISO VG 32 ESTER  
 Oil charge 400 cm<sup>3</sup>

## 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 <sub>e</sub> )	-23,3 °C	-25,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	32,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	32,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	32,0 °C	32,0 °C
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

## ELECTRICAL COMPONENTS

	Option 1	Option 2		
Relay	Option 1	Option 2		
Reference	2014 149.	QLZ-7.8A		
Pick-Up	7,80 A	7,80 A		
Drop-Out	6,65 A	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			

# Technical Data Sheet

## 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

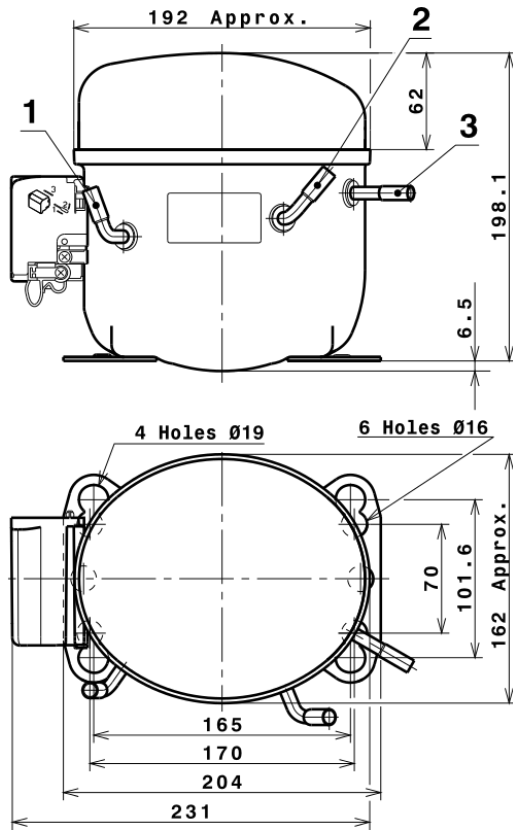
## EN12900

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

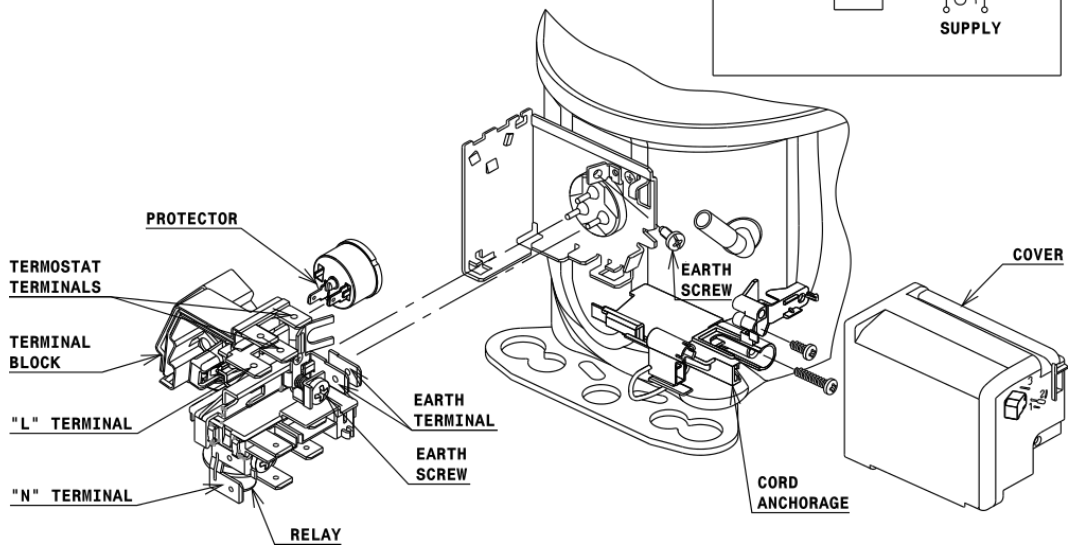
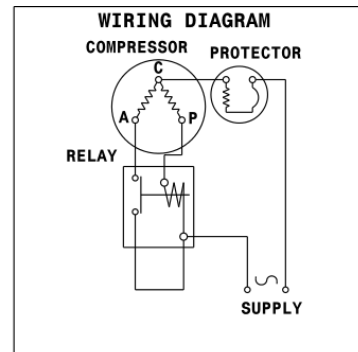


## DESIGNATION INTERNAL DIAM.

DESIGNATION	INTERNAL DIAM.
1 Suction	8,1 mm
2 Service	8,1 mm
3 Discharge	6,5 mm

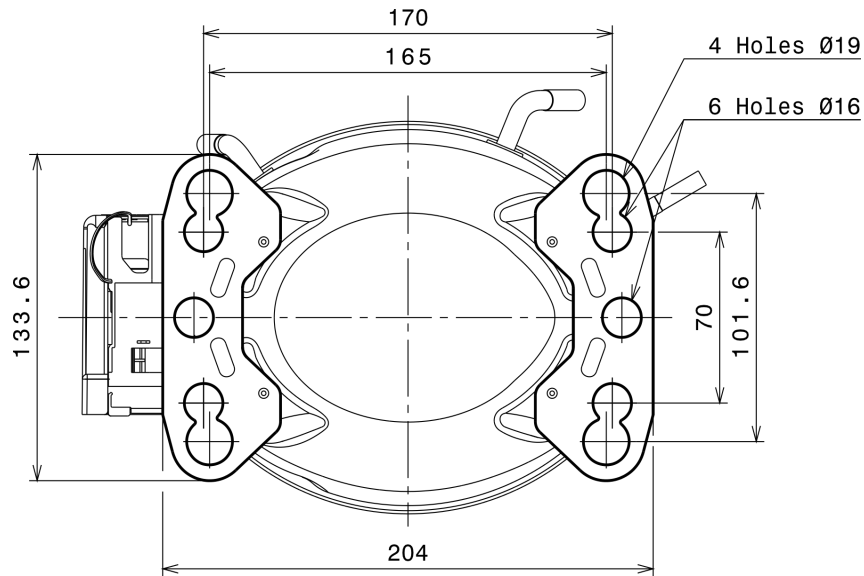
## WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

### RSIR CONNECTION (RELAY) (L, P ranges)



# Technical Data Sheet

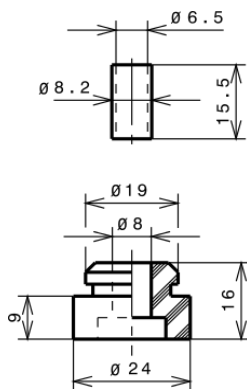
## FIXINGS



## SILENT BLOCKS (MOUNTING ACCESSORIES)

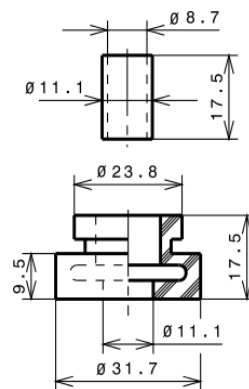
### STANDARD

Ø16 holes (170x70 net)



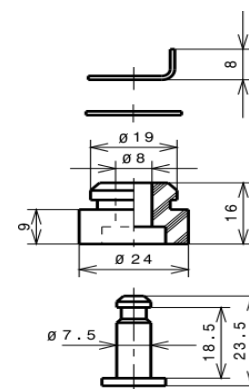
### AMERICAN FEET

Ø19 holes (165x101.6 net)



### SNAP-ON

Ø16 holes (170x70 net)



## SOA

SOA R134a LBP

