

# Technical Data Sheet

Compressor model **GL60ANb**  
 Voltage **200-240/220-230V 50/60Hz ~1**  
 Refrigerant **R134a**

## APPLICATION

Application	Low Back Pressure
Refrigerant	R134a
Evaporating Temp.	-35,0 °C to -10,0 °C
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	50,0 °C
Compatible refriger.	R1234yf

## COMPRESSOR

Displacement	5,98 cm <sup>3</sup>
Diameter	20,88 mm
Stroke	17,47 mm
Net Weight	9,26 Kg
Oil type	ISO VG 32 ESTER
Oil charge	350 cm <sup>3</sup>

## MOTOR

Nominal Power	1/6 hp
Voltage/Frequency	220-230V 60Hz
Voltage range	187-253 V
Type	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	13,00 A
Max. Cont. Current (MCC)	1,80 A
Main W. resist. at 25°C	12,50 Ω
Start W. resist. at 25°C	15,40 Ω

## NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	153 kCal/h	133 W
COP	1,15 W/W	0,89 W/W
EER	0,99 kCal/Wh	0,77 kCal/Wh
Input Power	155 W	149 W
Current	1,07 A	1,05 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 60 Hz	220 V 60 Hz

## ELECTRICAL COMPONENTS

Starting capacitor	47- 56 μF 330 V			
Relay	Option 1			
Reference	2014 118.			
Pick-Up	3,75 A			
Drop-Out	3,20 A			
Protector	Option 1			
Reference	T0068			
Current	5,80 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 62,00 °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	123	134	0,98	1,07	0,92
40	-30	137	135	0,98	1,18	1,01
40	-25	164	144	1,02	1,33	1,14
40	-23,3	176	148	1,04	1,39	1,19
40	-20	205	159	1,09	1,50	1,29
40	-15	259	183	1,18	1,65	1,42
40	-10	327	213	1,29	1,79	1,54

45	-35	116	133	0,98	1,01	0,87
45	-30	129	136	0,99	1,11	0,95
45	-25	156	145	1,03	1,25	1,07
45	-23,3	169	150	1,05	1,30	1,12
45	-20	197	162	1,10	1,41	1,21
45	-15	251	187	1,20	1,56	1,34
45	-10	319	219	1,31	1,69	1,46

50	-35	108	133	0,97	0,95	0,82
50	-30	122	136	0,99	1,04	0,89
50	-25	149	147	1,04	1,17	1,01
50	-23,3	161	153	1,06	1,22	1,05
50	-20	189	166	1,11	1,33	1,14
50	-15	243	191	1,21	1,48	1,27
50	-10	310	224	1,33	1,61	1,38

55	-35	101	132	0,97	0,89	0,77
55	-30	114	137	0,99	0,97	0,83
55	-25	141	149	1,05	1,10	0,94
55	-23,3	153	155	1,07	1,15	0,99
55	-20	181	169	1,13	1,25	1,07
55	-15	235	196	1,23	1,40	1,20
55	-10	302	230	1,35	1,53	1,31

60	-35	94	131	0,97	0,83	0,71
60	-30	107	138	0,99	0,90	0,78
60	-25	133	151	1,05	1,03	0,88
60	-23,3	145	157	1,08	1,07	0,92
60	-20	173	172	1,14	1,17	1,01
60	-15	227	200	1,25	1,32	1,13
60	-10	294	236	1,37	1,45	1,25

65	-35	86	131	0,96	0,77	0,66
65	-30	99	138	1,00	0,83	0,72
65	-25	125	153	1,06	0,95	0,82
65	-23,3	137	160	1,09	1,00	0,86
65	-20	165	175	1,15	1,10	0,94
65	-15	218	205	1,26	1,24	1,07
65	-10	285	241	1,39	1,38	1,18

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	134	134	0,98	1,00	0,86
40	-30	153	135	0,98	1,13	0,98
40	-25	185	144	1,02	1,29	1,11
40	-23,3	198	148	1,04	1,34	1,16
40	-20	229	159	1,09	1,44	1,24
40	-15	286	183	1,18	1,57	1,35
40	-10	356	213	1,29	1,67	1,44

45	-35	121	133	0,98	0,91	0,79
45	-30	138	136	0,99	1,02	0,88
45	-25	167	145	1,03	1,15	0,99
45	-23,3	180	150	1,05	1,20	1,04
45	-20	210	162	1,10	1,29	1,11
45	-15	265	187	1,20	1,42	1,22
45	-10	332	219	1,31	1,52	1,31

50	-35	108	133	0,97	0,82	0,71
50	-30	123	136	0,99	0,90	0,78
50	-25	150	147	1,04	1,02	0,88
50	-23,3	162	153	1,06	1,06	0,92
50	-20	190	166	1,11	1,15	0,99
50	-15	243	191	1,21	1,27	1,10
50	-10	308	224	1,33	1,38	1,19

55	-35	95	132	0,97	0,72	0,63
55	-30	108	137	0,99	0,79	0,68
55	-25	133	149	1,05	0,89	0,77
55	-23,3	145	155	1,07	0,93	0,81
55	-20	171	169	1,13	1,01	0,88
55	-15	221	196	1,23	1,13	0,98
55	-10	285	230	1,35	1,24	1,07

60	-35	83	131	0,97	0,63	0,54
60	-30	93	138	0,99	0,68	0,58
60	-25	116	151	1,05	0,77	0,66
60	-23,3	127	157	1,08	0,80	0,70
60	-20	152	172	1,14	0,88	0,76
60	-15	200	200	1,25	1,00	0,86
60	-10	261	236	1,37	1,11	0,96

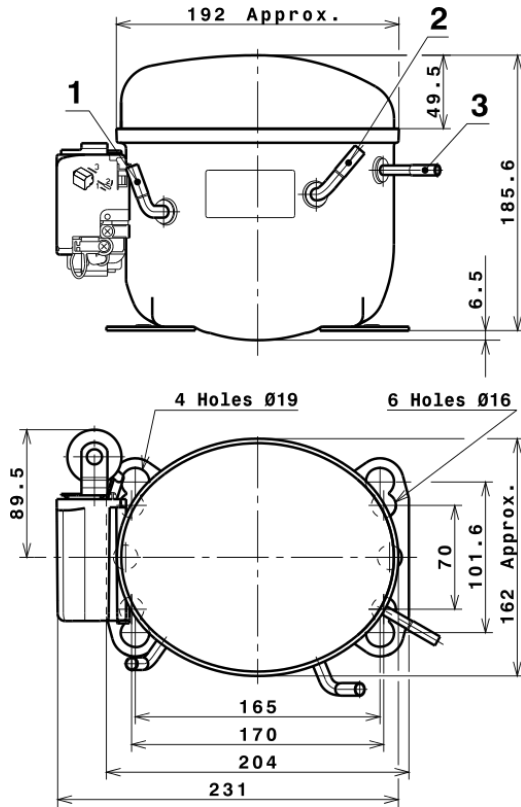
65	-35	70	131	0,96	0,53	0,46
65	-30	78	138	1,00	0,56	0,49
65	-25	99	153	1,06	0,65	0,56
65	-23,3	109	160	1,09	0,68	0,59
65	-20	132	175	1,15	0,76	0,65
65	-15	178	205	1,26	0,87	0,75
65	-10	237	241	1,39	0,98	0,85

## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	755,3821783746	236,2369769098	1,3897051641	13,724490919934
2	23,5491000163	7,9656907501	0,0283188268	0,50012064841861
3	-5,7710433455	1,6790621048	0,0056085329	-0,041910040475155
4	0,2479023708	0,1509319156	0,0005040333	0,0065582487980954
5	-0,0911680374	0,0518646424	0,0001775359	-0,00021580815570085

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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## COMPRESSOR DIMENSIONS



## DESIGNATION INTERNAL DIAM.

1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

## WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

### CSIR CONNECTION (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

