

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 ³
Diameter	20,88 mm
Stroke	17,47 mm
Net Weight	9,26 Kg
Oil type	ISO VG 32 ESTER
Oil charge	350 cm ³

MOTOR

Nominal Power	1/6 hp
Voltage/Frequency	200-240V 50Hz
Voltage range	170-264 V
Type	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	13,50 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	133 kCal/h	116 W
COP	1,09 W/W	0,84 W/W
EER	0,94 kCal/Wh	0,73 kCal/Wh
Input Power	142 W	138 W
Current	1,19 A	1,18 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	220 V 50 Hz	220 V 50 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			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	104	123	1,14	0,98	0,85
40	-30	117	125	1,15	1,09	0,94
40	-25	142	132	1,16	1,25	1,07
40	-23,3	153	135	1,17	1,31	1,13
40	-20	178	143	1,19	1,44	1,24
40	-15	224	159	1,24	1,64	1,41
40	-10	282	180	1,30	1,82	1,57

45	-35	98	123	1,14	0,93	0,80
45	-30	111	126	1,15	1,03	0,88
45	-25	135	134	1,17	1,18	1,01
45	-23,3	146	138	1,18	1,24	1,06
45	-20	171	146	1,20	1,36	1,17
45	-15	217	163	1,25	1,55	1,33
45	-10	274	185	1,32	1,73	1,49

50	-35	93	123	1,14	0,88	0,75
50	-30	105	127	1,15	0,96	0,83
50	-25	129	136	1,17	1,10	0,95
50	-23,3	140	140	1,18	1,16	1,00
50	-20	164	149	1,21	1,28	1,10
50	-15	210	167	1,26	1,46	1,26
50	-10	267	189	1,33	1,64	1,41

55	-35	87	123	1,14	0,82	0,71
55	-30	99	128	1,15	0,90	0,77
55	-25	123	138	1,18	1,04	0,89
55	-23,3	133	142	1,19	1,09	0,94
55	-20	157	152	1,22	1,20	1,03
55	-15	202	171	1,27	1,38	1,19
55	-10	259	194	1,35	1,55	1,34

60	-35	81	123	1,14	0,77	0,66
60	-30	93	129	1,16	0,84	0,72
60	-25	116	140	1,18	0,97	0,83
60	-23,3	126	144	1,20	1,02	0,88
60	-20	150	155	1,23	1,13	0,97
60	-15	195	174	1,29	1,30	1,12
60	-10	251	199	1,37	1,47	1,27

65	-35	76	123	1,14	0,72	0,62
65	-30	87	130	1,16	0,78	0,67
65	-25	110	141	1,19	0,90	0,78
65	-23,3	120	146	1,20	0,95	0,82
65	-20	143	157	1,23	1,06	0,91
65	-15	188	178	1,30	1,23	1,05
65	-10	244	203	1,38	1,39	1,20

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	113	123	1,14	0,92	0,80
40	-30	131	125	1,15	1,05	0,91
40	-25	160	132	1,16	1,21	1,04
40	-23,3	172	135	1,17	1,27	1,09
40	-20	198	143	1,19	1,38	1,19
40	-15	247	159	1,24	1,55	1,34
40	-10	307	180	1,30	1,71	1,47

45	-35	103	123	1,14	0,84	0,72
45	-30	119	126	1,15	0,94	0,81
45	-25	145	134	1,17	1,08	0,93
45	-23,3	156	138	1,18	1,14	0,98
45	-20	182	146	1,20	1,24	1,07
45	-15	229	163	1,25	1,40	1,21
45	-10	286	185	1,32	1,55	1,34

50	-35	93	123	1,14	0,75	0,65
50	-30	106	127	1,15	0,84	0,72
50	-25	130	136	1,17	0,96	0,83
50	-23,3	141	140	1,18	1,01	0,87
50	-20	165	149	1,21	1,11	0,96
50	-15	210	167	1,26	1,26	1,09
50	-10	265	189	1,33	1,40	1,21

55	-35	82	123	1,14	0,67	0,58
55	-30	94	128	1,15	0,73	0,63
55	-25	116	138	1,18	0,84	0,73
55	-23,3	126	142	1,19	0,88	0,76
55	-20	148	152	1,22	0,98	0,84
55	-15	191	171	1,27	1,12	0,97
55	-10	244	194	1,35	1,26	1,09

60	-35	72	123	1,14	0,58	0,51
60	-30	81	129	1,16	0,63	0,54
60	-25	101	140	1,18	0,73	0,63
60	-23,3	110	144	1,20	0,77	0,66
60	-20	131	155	1,23	0,85	0,73
60	-15	172	174	1,29	0,99	0,85
60	-10	223	199	1,37	1,12	0,97

65	-35	62	123	1,14	0,50	0,43
65	-30	69	130	1,16	0,53	0,46
65	-25	87	141	1,19	0,61	0,53
65	-23,3	95	146	1,20	0,65	0,56
65	-20	115	157	1,23	0,73	0,63
65	-15	153	178	1,30	0,86	0,74
65	-10	202	203	1,38	1,00	0,86

EN12900

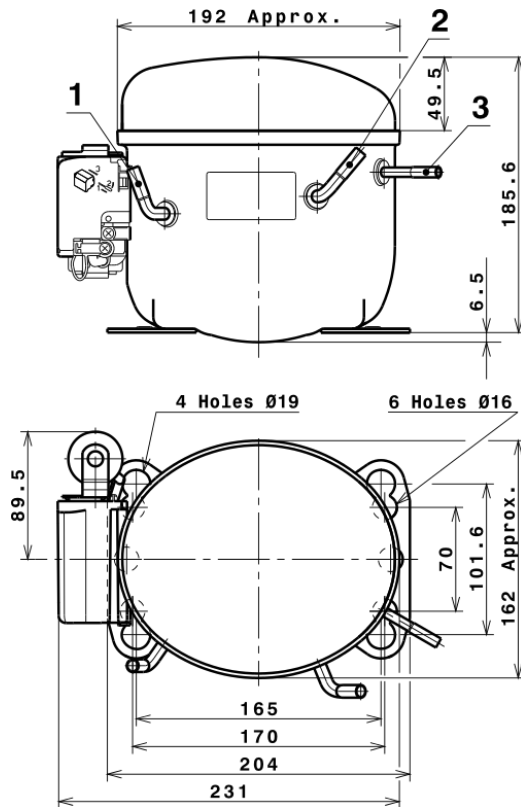
X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	655,8395588454	187,1657663689	1,3191161941	11,937722920493
2	20,2911564176	5,0494912373	0,0162857488	0,4296315542821
3	-5,1570510563	1,3378910199	0,0045104779	-0,04057597138744
4	0,2032557597	0,0940500226	0,0003245501	0,0053847963174942
5	-0,0878199924	0,0382254577	0,0001288708	-0,00040074452643267

Equation

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

Technical Data Sheet

COMPRESSOR DIMENSIONS

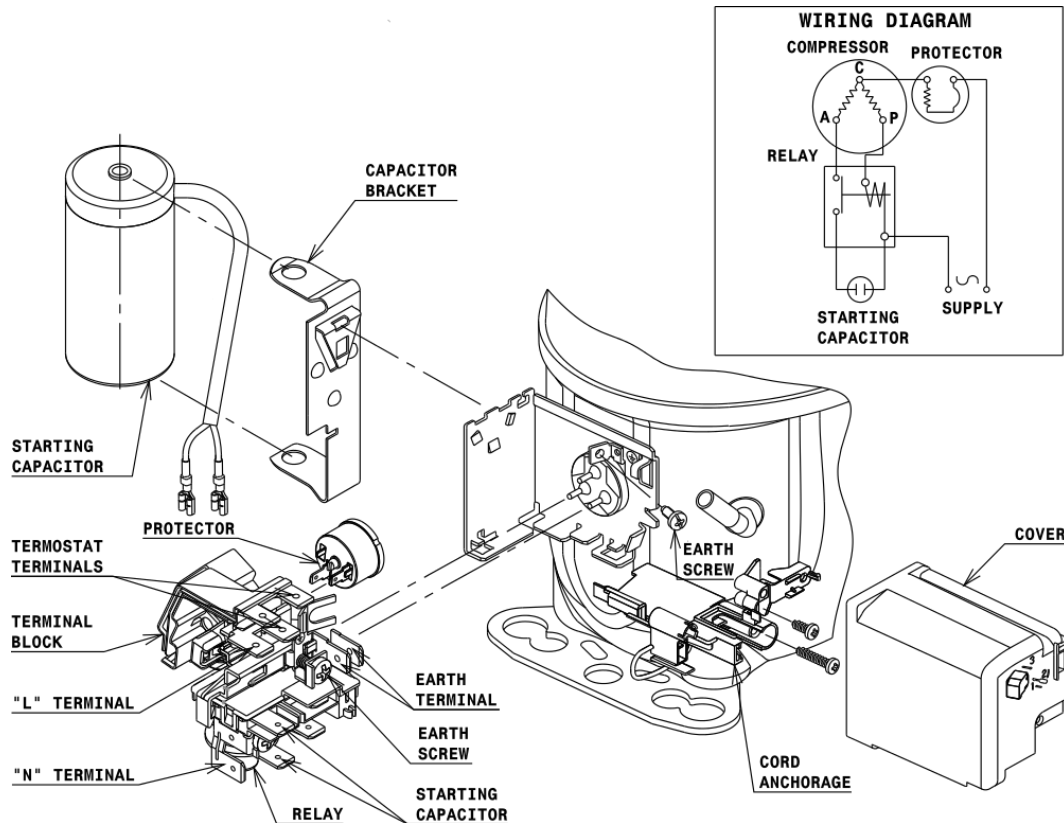


DESIGNATION INTERNAL DIAM.

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

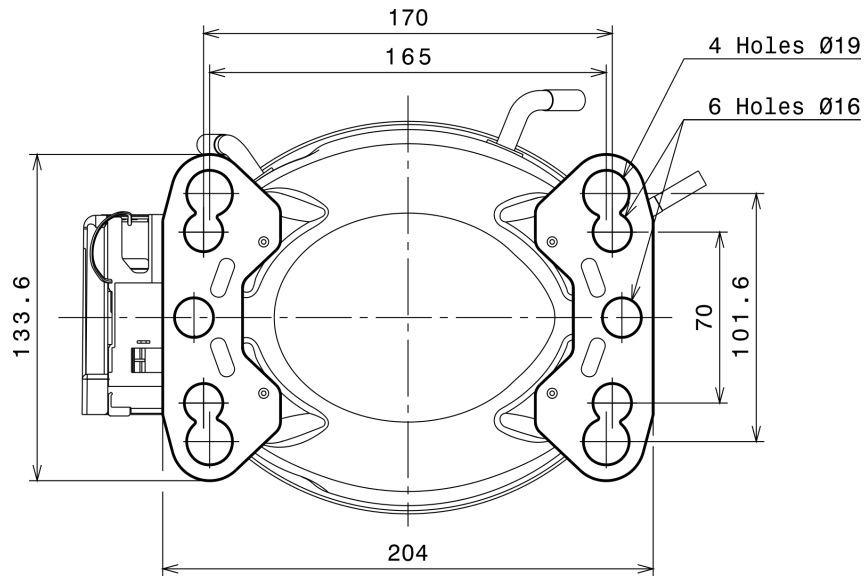
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



Technical Data Sheet

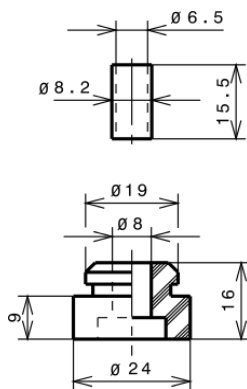
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

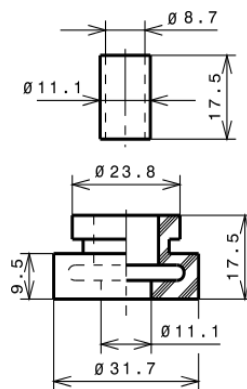
STANDARD

Ø16 holes (170x70 net)



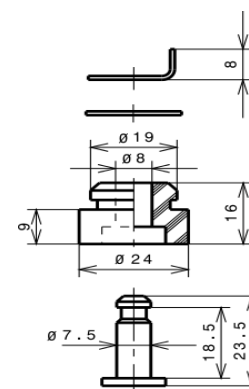
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP

