

Technical Data Sheet

Compressor model **GL45ANa**
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
Comp. Cooling	Static
Max. ambient temp.	50,0 °C
Compatible refriger.	R1234yf

COMPRESSOR

Displacement	4,56 cm ³
Diameter	19,09 mm
Stroke	15,93 mm
Net Weight	8,42 Kg
Oil type	ISO VG 32 ESTER
Oil charge	205 cm ³

MOTOR

Nominal Power	1/8 hp
Voltage/Frequency	200-240V 50Hz
Voltage range	170-264 V
Type	RSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	11,50 A
Max. Cont. Current (MCC)	1,30 A
Main W. resist. at 25°C	16,50 Ω
Start W. resist. at 25°C	16,75 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	95 kCal/h	80 W
COP	1,03 W/W	0,78 W/W
EER	0,89 kCal/Wh	0,68 kCal/Wh
Input Power	107 W	102 W
Current	0,88 A	0,87 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

Relay	Option 1			
Reference	PTC K100			
Voltage	200-240 V			
Resistance	14.00 Ω			
Protector	Option 1	Option 2		
Reference	T0508	AE15BU		
Current	6,50 A	8,00 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	135,00 / 62,00 °C	120,00 / 62,00 °C		

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	53	80	0,83	0,77	0,66
40	-30	75	91	0,84	0,96	0,82
40	-25	102	102	0,87	1,16	1,00
40	-23,3	112	106	0,88	1,23	1,06
40	-20	134	114	0,90	1,37	1,18
40	-15	172	126	0,93	1,58	1,36
40	-10	215	139	0,98	1,80	1,55

45	-35	48	79	0,82	0,71	0,61
45	-30	69	90	0,84	0,89	0,77
45	-25	96	102	0,87	1,09	0,94
45	-23,3	107	107	0,88	1,16	1,00
45	-20	128	115	0,90	1,30	1,12
45	-15	166	128	0,94	1,51	1,30
45	-10	208	141	0,98	1,72	1,48

50	-35	43	77	0,82	0,65	0,56
50	-30	64	90	0,84	0,83	0,72
50	-25	91	102	0,87	1,03	0,89
50	-23,3	101	107	0,88	1,10	0,94
50	-20	122	115	0,90	1,23	1,06
50	-15	159	129	0,94	1,44	1,23
50	-10	202	143	0,99	1,64	1,41

55	-35	38	76	0,82	0,58	0,50
55	-30	59	89	0,84	0,77	0,66
55	-25	85	102	0,87	0,96	0,83
55	-23,3	95	107	0,88	1,03	0,89
55	-20	116	116	0,90	1,16	1,00
55	-15	153	130	0,95	1,37	1,17
55	-10	195	145	1,00	1,56	1,34

60	-35	33	75	0,82	0,51	0,44
60	-30	53	88	0,84	0,70	0,61
60	-25	79	102	0,87	0,90	0,77
60	-23,3	89	107	0,88	0,97	0,83
60	-20	110	117	0,91	1,10	0,94
60	-15	147	132	0,95	1,30	1,11
60	-10	188	147	1,01	1,49	1,28

65	-35	28	73	0,82	0,44	0,38
65	-30	48	88	0,84	0,64	0,55
65	-25	74	102	0,87	0,84	0,72
65	-23,3	83	107	0,88	0,90	0,78
65	-20	104	117	0,91	1,03	0,89
65	-15	140	133	0,96	1,23	1,05
65	-10	182	149	1,02	1,42	1,22

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	58	80	0,83	0,72	0,62
40	-30	83	91	0,84	0,91	0,79
40	-25	113	102	0,87	1,11	0,96
40	-23,3	125	106	0,88	1,17	1,01
40	-20	149	114	0,90	1,30	1,13
40	-15	189	126	0,93	1,49	1,29
40	-10	234	139	0,98	1,68	1,45

45	-35	50	79	0,82	0,64	0,55
45	-30	74	90	0,84	0,82	0,71
45	-25	102	102	0,87	1,00	0,86
45	-23,3	113	107	0,88	1,06	0,92
45	-20	136	115	0,90	1,18	1,02
45	-15	174	128	0,94	1,36	1,18
45	-10	217	141	0,98	1,54	1,33

50	-35	43	77	0,82	0,56	0,48
50	-30	65	90	0,84	0,72	0,62
50	-25	91	102	0,87	0,89	0,77
50	-23,3	101	107	0,88	0,95	0,82
50	-20	123	115	0,90	1,06	0,92
50	-15	159	129	0,94	1,23	1,07
50	-10	201	143	0,99	1,40	1,21

55	-35	36	76	0,82	0,47	0,41
55	-30	56	89	0,84	0,62	0,54
55	-25	80	102	0,87	0,78	0,68
55	-23,3	90	107	0,88	0,84	0,72
55	-20	110	116	0,90	0,95	0,82
55	-15	144	130	0,95	1,11	0,96
55	-10	184	145	1,00	1,27	1,10

60	-35	29	75	0,82	0,38	0,33
60	-30	46	88	0,84	0,53	0,45
60	-25	69	102	0,87	0,68	0,58
60	-23,3	78	107	0,88	0,73	0,63
60	-20	97	117	0,91	0,83	0,72
60	-15	130	132	0,95	0,98	0,85
60	-10	167	147	1,01	1,14	0,98

65	-35	21	73	0,82	0,29	0,25
65	-30	37	88	0,84	0,43	0,37
65	-25	58	102	0,87	0,57	0,49
65	-23,3	66	107	0,88	0,62	0,53
65	-20	84	117	0,91	0,71	0,62
65	-15	115	133	0,96	0,86	0,74
65	-10	150	149	1,02	1,01	0,87

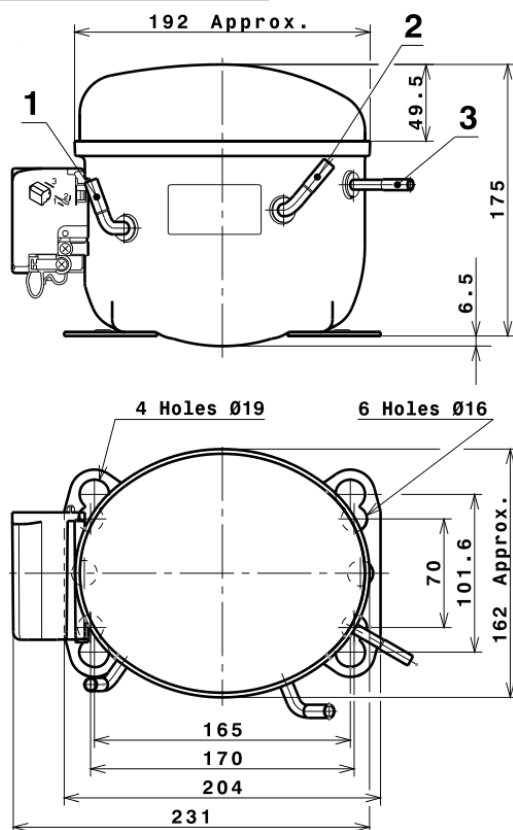
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	501,5973311724	142,4053948060	1,0175223113	8,999661016842
2	14,4432397539	1,7362442032	0,0107193329	0,2869719841652
3	-4,1982767230	0,6823421698	0,0023699232	-0,035142908998178
4	0,0968607735	0,0089627843	0,0001654600	0,0026302568609156
5	-0,0785104104	0,0272783694	0,0000795154	-0,00033494451227748

Equation

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

COMPRESSOR DIMENSIONS

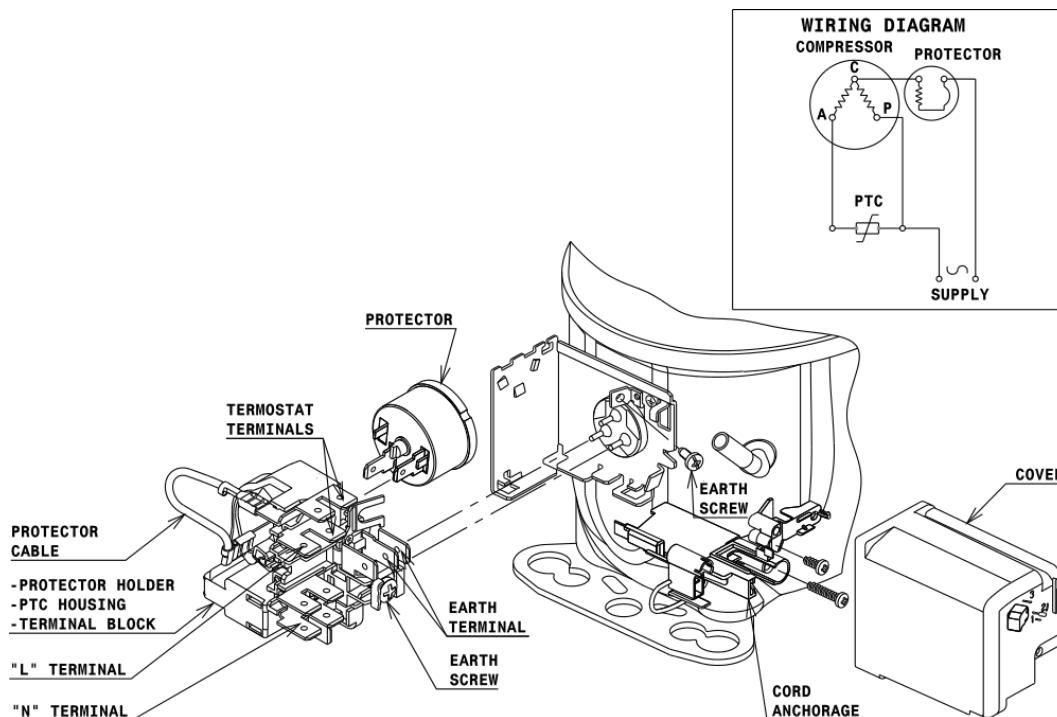


DESIGNATION INTERNAL DIAM.

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

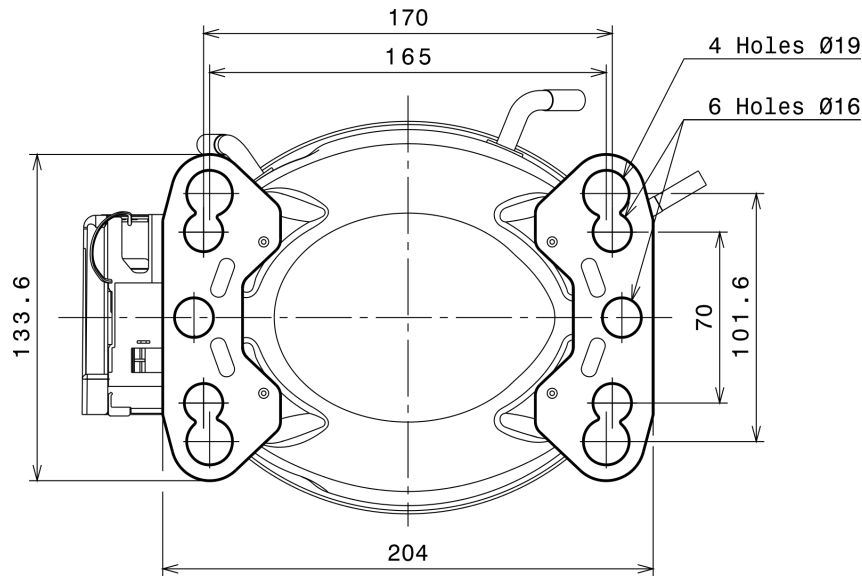
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSIR CONNECTION (PTC) (L, P ranges)



Technical Data Sheet

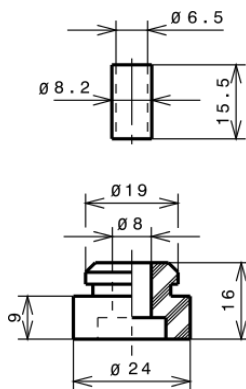
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

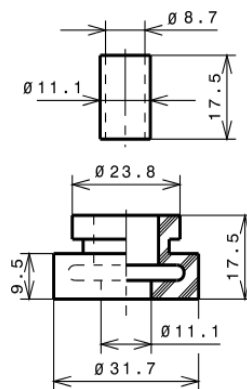
STANDARD

Ø16 holes (170x70 net)



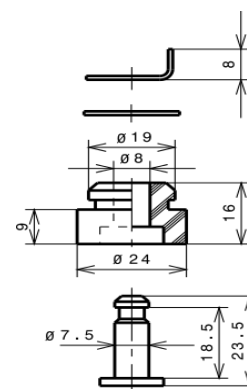
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP

