

Technical Data Sheet

ENGINEERING
TOMORROW



Compressor model **GUY60NRb**
Voltage **115-127V 60Hz ~1**
Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	Low-Medium Back Pressure	Displacement	6,00 cm ³	Nominal Power	1/5 hp
Refrigerant	R134a	Diameter	22,00 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-35,0 °C to -5,0 °C	Stroke	16,00 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	8,70 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 10 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	200 cm ³	Locked Rotor Amps (LRA)	18,50 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	5,00 A
				Main W. resist. at 25°C	3,42 Ω
				Start W. resist. at 25°C	14,34 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	186 kCal/h	158 W
COP	1,44 W/W	1,11 W/W
EER	1,24 kCal/Wh	0,96 kCal/Wh
Input Power	150 W	142 W
Current	1,95 A	1,90 A

TEST CYCLE CONDITIONS

	ASHRAE LMBP (B)	CECOMAF LMBP (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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	150 µF 160 V			
Relay	Option 1			
Reference	2014 158.			
Pick-Up	9,05 A			
Drop-Out	7,70 A			
Protector	Option 1			
Reference	T0266			
Current	11,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °C			

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ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	105	98	1,65	1,25	1,07
40	-30	142	114	1,74	1,45	1,25
40	-25	191	131	1,84	1,70	1,46
40	-23,3	210	137	1,87	1,79	1,54
40	-20	251	148	1,94	1,98	1,70
40	-15	323	165	2,04	2,27	1,96
40	-10	406	183	2,16	2,58	2,22
40	-5	500	201	2,28	2,89	2,49

45	-35	99	98	1,66	1,17	1,00
45	-30	135	116	1,75	1,35	1,16
45	-25	183	135	1,86	1,58	1,36
45	-23,3	202	141	1,90	1,67	1,43
45	-20	243	153	1,97	1,84	1,58
45	-15	314	173	2,09	2,11	1,82
45	-10	396	192	2,22	2,40	2,06
45	-5	489	212	2,36	2,68	2,31

50	-35	92	99	1,66	1,09	0,94
50	-30	128	118	1,77	1,26	1,08
50	-25	176	139	1,88	1,47	1,27
50	-23,3	194	146	1,92	1,55	1,33
50	-20	234	159	2,01	1,71	1,47
50	-15	304	180	2,14	1,96	1,69
50	-10	385	201	2,28	2,23	1,91
50	-5	478	223	2,44	2,49	2,14

55	-35	86	99	1,66	1,01	0,87
55	-30	121	121	1,78	1,17	1,00
55	-25	168	142	1,90	1,37	1,18
55	-23,3	186	150	1,95	1,44	1,24
55	-20	225	165	2,04	1,59	1,37
55	-15	295	187	2,19	1,83	1,57
55	-10	375	211	2,35	2,07	1,78
55	-5	467	234	2,52	2,32	2,00

60	-35	80	99	1,66	0,93	0,80
60	-30	114	123	1,79	1,08	0,93
60	-25	160	146	1,93	1,27	1,09
60	-23,3	178	154	1,98	1,34	1,15
60	-20	217	170	2,08	1,48	1,27
60	-15	285	195	2,24	1,70	1,46
60	-10	365	220	2,42	1,93	1,66
60	-5	456	245	2,60	2,16	1,86

65	-35	73	100	1,66	0,86	0,74
65	-30	107	125	1,80	1,00	0,86
65	-25	152	150	1,95	1,18	1,01
65	-23,3	170	159	2,01	1,24	1,07
65	-20	208	176	2,11	1,37	1,18
65	-15	276	202	2,29	1,58	1,36
65	-10	355	229	2,48	1,80	1,55
65	-5	445	256	2,69	2,02	1,74

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	114	98	1,65	1,17	1,01
40	-30	159	114	1,74	1,40	1,21
40	-25	215	131	1,84	1,65	1,42
40	-23,3	237	137	1,87	1,73	1,50
40	-20	281	148	1,94	1,90	1,65
40	-15	358	165	2,04	2,17	1,88
40	-10	446	183	2,16	2,44	2,11
40	-5	544	201	2,28	2,71	2,34

45	-35	103	98	1,66	1,05	0,91
45	-30	144	116	1,75	1,24	1,07
45	-25	196	135	1,86	1,46	1,26
45	-23,3	216	141	1,90	1,53	1,32
45	-20	259	153	1,97	1,69	1,46
45	-15	332	173	2,09	1,92	1,66
45	-10	415	192	2,22	2,16	1,87
45	-5	509	212	2,36	2,40	2,08

50	-35	92	99	1,66	0,94	0,81
50	-30	130	118	1,77	1,09	0,94
50	-25	177	139	1,88	1,28	1,11
50	-23,3	196	146	1,92	1,35	1,16
50	-20	236	159	2,01	1,48	1,28
50	-15	305	180	2,14	1,69	1,46
50	-10	384	201	2,28	1,91	1,65
50	-5	475	223	2,44	2,13	1,84

55	-35	81	99	1,66	0,82	0,71
55	-30	115	121	1,78	0,95	0,82
55	-25	158	142	1,90	1,11	0,96
55	-23,3	176	150	1,95	1,17	1,01
55	-20	213	165	2,04	1,29	1,12
55	-15	278	187	2,19	1,48	1,28
55	-10	354	211	2,35	1,68	1,45
55	-5	440	234	2,52	1,88	1,62

60	-35	70	99	1,66	0,71	0,61
60	-30	100	123	1,79	0,81	0,70
60	-25	139	146	1,93	0,95	0,82
60	-23,3	155	154	1,98	1,01	0,87
60	-20	190	170	2,08	1,11	0,96
60	-15	251	195	2,24	1,29	1,11
60	-10	323	220	2,42	1,47	1,27
60	-5	405	245	2,60	1,65	1,43

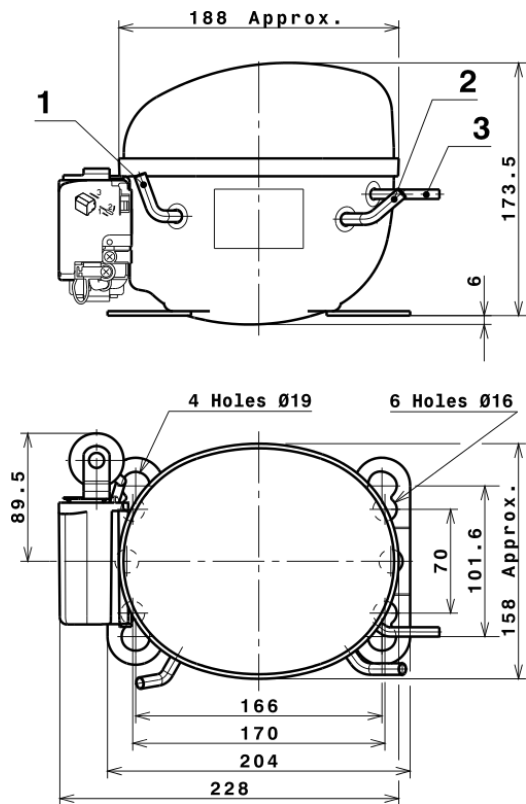
65	-35	59	100	1,66	0,59	0,51
65	-30	85	125	1,80	0,68	0,59
65	-25	121	150	1,95	0,80	0,69
65	-23,3	135	159	2,01	0,85	0,73
65	-20	167	176	2,11	0,95	0,82
65	-15	224	202	2,29	1,11	0,96
65	-10	292	229	2,48	1,28	1,10
65	-5	370	256	2,69	1,45	1,25

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	961,1174277929	120,3866883657	1,7009943171	16,821472185143
2	28,9823954852	0,9612582082	0,0093823522	0,57433355049971
3	-7,9593108311	2,6188598708	0,0191108541	-0,05664506439741
4	0,2075768931	0,0086862210	0,0002275955	0,0056534485259619
5	-0,1640933677	0,0728788480	0,0005357174	-0,00077067224457974

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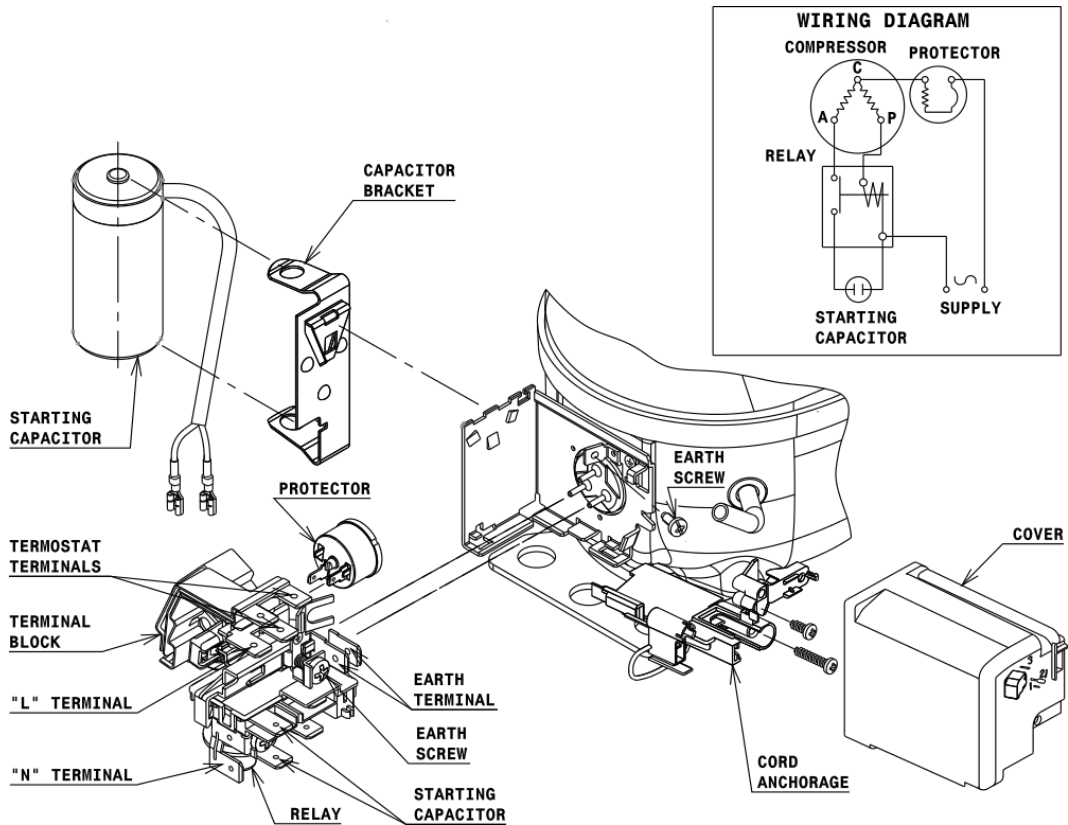
COMPRESSOR DIMENSIONS



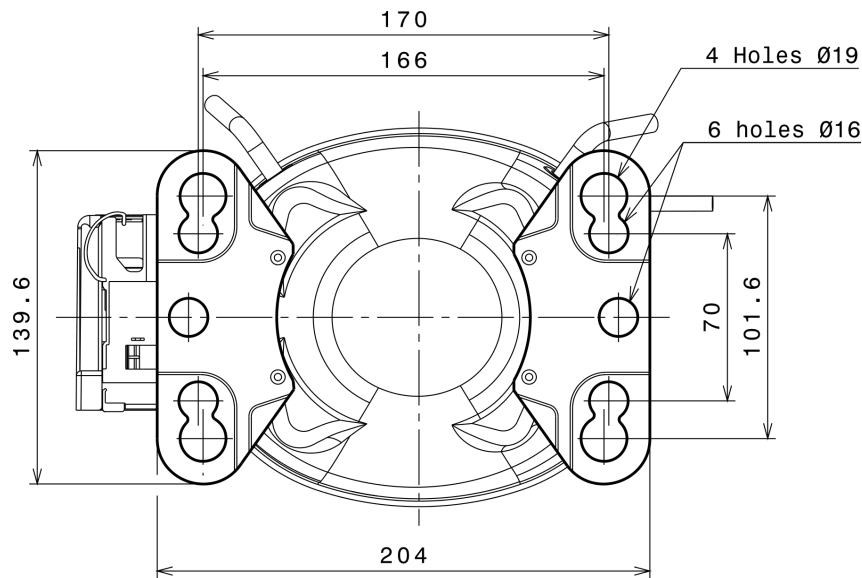
	DESIGNATION	INTERNAL DIAM.
1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



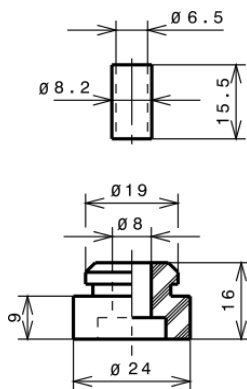
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

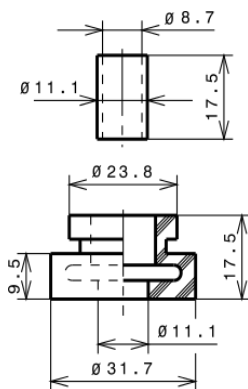
STANDARD

Ø16 holes (170x70 net)



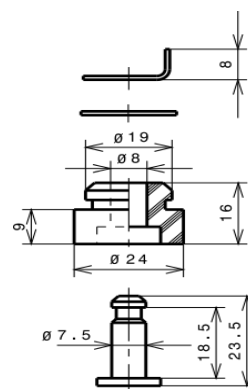
AMERICAN FEET

Ø19 holes (166x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LMBP

