

Technical Data Sheet

Compressor model **GUY80NRb**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	Low-Medium Back Pressure	Displacement	8,10 cm ³	Nominal Power	1/4 hp
Refrigerant	R134a	Diameter	24,29 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-35,0 °C to 0,0 °C	Stroke	17,50 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	9,40 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	220 cm ³	Locked Rotor Amps (LRA)	24,70 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	5,00 A
				Main W. resist. at 25°C	2,15 Ω
				Start W. resist. at 25°C	12,30 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	228 kCal/h	193 W
COP	1,45 W/W	1,11 W/W
EER	1,25 kCal/Wh	0,96 kCal/Wh
Input Power	183 W	173 W
Current	2,53 A	2,48 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 166.			
Pick-Up	11,00 A			
Drop-Out	9,35 A			
Protector	Option 1			
Reference	T0267			
Current	11,00 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	120	121	2,21	1,15	0,99
40	-30	167	138	2,29	1,41	1,22
40	-25	230	158	2,39	1,70	1,46
40	-23,3	255	165	2,43	1,80	1,55
40	-20	308	180	2,51	1,99	1,71
40	-15	402	206	2,67	2,27	1,95
40	-10	510	235	2,85	2,53	2,18
40	-5	635	266	3,08	2,77	2,38
40	0	774	301	3,34	2,99	2,57

45	-35	114	122	2,21	1,09	0,94
45	-30	160	141	2,30	1,32	1,14
45	-25	222	163	2,42	1,58	1,36
45	-23,3	246	171	2,46	1,67	1,44
45	-20	298	188	2,56	1,85	1,59
45	-15	390	216	2,73	2,11	1,81
45	-10	498	246	2,93	2,35	2,02
45	-5	620	280	3,18	2,57	2,21
45	0	758	317	3,47	2,78	2,39

50	-35	109	123	2,22	1,03	0,88
50	-30	153	144	2,32	1,24	1,06
50	-25	213	168	2,45	1,47	1,27
50	-23,3	237	177	2,50	1,56	1,34
50	-20	288	195	2,60	1,72	1,48
50	-15	379	225	2,79	1,96	1,68
50	-10	485	258	3,02	2,18	1,88
50	-5	606	294	3,28	2,40	2,06
50	0	743	333	3,60	2,59	2,23

55	-35	103	124	2,22	0,97	0,83
55	-30	146	147	2,33	1,15	0,99
55	-25	205	173	2,48	1,37	1,18
55	-23,3	228	183	2,53	1,45	1,25
55	-20	278	203	2,65	1,60	1,37
55	-15	368	235	2,85	1,82	1,57
55	-10	472	270	3,10	2,03	1,75
55	-5	592	308	3,39	2,24	1,92
55	0	727	349	3,74	2,42	2,08

60	-35	97	125	2,22	0,91	0,78
60	-30	139	150	2,35	1,08	0,92
60	-25	196	179	2,51	1,28	1,10
60	-23,3	219	189	2,57	1,35	1,16
60	-20	268	210	2,69	1,49	1,28
60	-15	356	244	2,92	1,70	1,46
60	-10	459	282	3,19	1,90	1,63
60	-5	578	322	3,51	2,09	1,80
60	0	711	365	3,88	2,27	1,95

65	-35	92	126	2,23	0,85	0,73
65	-30	132	154	2,37	1,00	0,86
65	-25	188	184	2,54	1,19	1,02
65	-23,3	210	195	2,60	1,25	1,08
65	-20	259	217	2,74	1,38	1,19
65	-15	345	254	2,99	1,58	1,36
65	-10	446	293	3,28	1,77	1,52
65	-5	563	336	3,62	1,95	1,68
65	0	696	381	4,03	2,12	1,83

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	131	121	2,21	1,08	0,93
40	-30	189	138	2,29	1,37	1,19
40	-25	262	158	2,39	1,66	1,44
40	-23,3	290	165	2,43	1,76	1,52
40	-20	350	180	2,51	1,94	1,68
40	-15	451	206	2,67	2,19	1,89
40	-10	567	235	2,85	2,42	2,09
40	-5	697	266	3,08	2,62	2,26
40	0	842	301	3,34	2,80	2,42

45	-35	120	122	2,21	0,98	0,85
45	-30	172	141	2,30	1,22	1,06
45	-25	239	163	2,42	1,47	1,27
45	-23,3	265	171	2,46	1,55	1,34
45	-20	321	188	2,56	1,71	1,48
45	-15	416	216	2,73	1,93	1,67
45	-10	526	246	2,93	2,14	1,85
45	-5	651	280	3,18	2,32	2,01
45	0	789	317	3,47	2,49	2,15

50	-35	109	123	2,22	0,88	0,76
50	-30	155	144	2,32	1,08	0,93
50	-25	216	168	2,45	1,29	1,11
50	-23,3	240	177	2,50	1,36	1,17
50	-20	292	195	2,60	1,49	1,29
50	-15	381	225	2,79	1,69	1,46
50	-10	486	258	3,02	1,88	1,63
50	-5	604	294	3,28	2,05	1,77
50	0	737	333	3,60	2,21	1,91

55	-35	97	124	2,22	0,79	0,68
55	-30	138	147	2,33	0,94	0,81
55	-25	193	173	2,48	1,11	0,96
55	-23,3	215	183	2,53	1,18	1,02
55	-20	263	203	2,65	1,30	1,12
55	-15	347	235	2,85	1,48	1,28
55	-10	445	270	3,10	1,65	1,42
55	-5	557	308	3,39	1,81	1,56
55	0	684	349	3,74	1,96	1,69

60	-35	86	125	2,22	0,69	0,60
60	-30	121	150	2,35	0,81	0,70
60	-25	170	179	2,51	0,95	0,82
60	-23,3	190	189	2,57	1,01	0,87
60	-20	234	210	2,69	1,11	0,96
60	-15	312	244	2,92	1,28	1,10
60	-10	404	282	3,19	1,43	1,24
60	-5	510	322	3,51	1,59	1,37
60	0	631	365	3,88	1,73	1,49

65	-35	75	126	2,23	0,60	0,52
65	-30	104	154	2,37	0,68	0,59
65	-25	147	184	2,54	0,80	0,69
65	-23,3	165	195	2,60	0,85	0,73
65	-20	205	217	2,74	0,94	0,81
65	-15	277	254	2,99	1,09	0,94
65	-10	363	293	3,28	1,24	1,07
65	-5	464	336	3,62	1,38	1,19
65	0	579	381	4,03	1,52	1,31

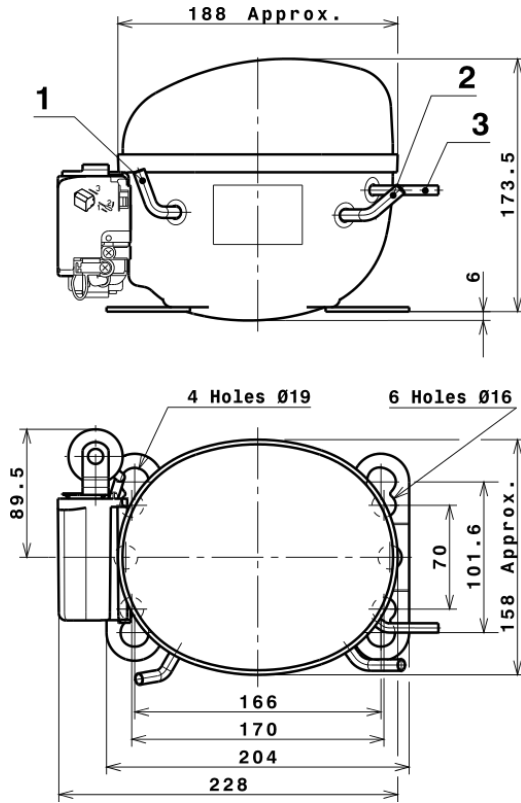
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.264,0836130323	177,4681725694	2,2838538646	21,703684032218
2	39,6946470265	3,9445819840	0,0298795153	0,77885753114906
3	-10,8548990897	3,2826482787	0,0279293961	-0,075728205166173
4	0,2803209623	0,0620587911	0,0007684133	0,0076963645596875
5	-0,2460419607	0,0879527917	0,0007703079	-0,0014050169062227

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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Technical Data Sheet

COMPRESSOR DIMENSIONS

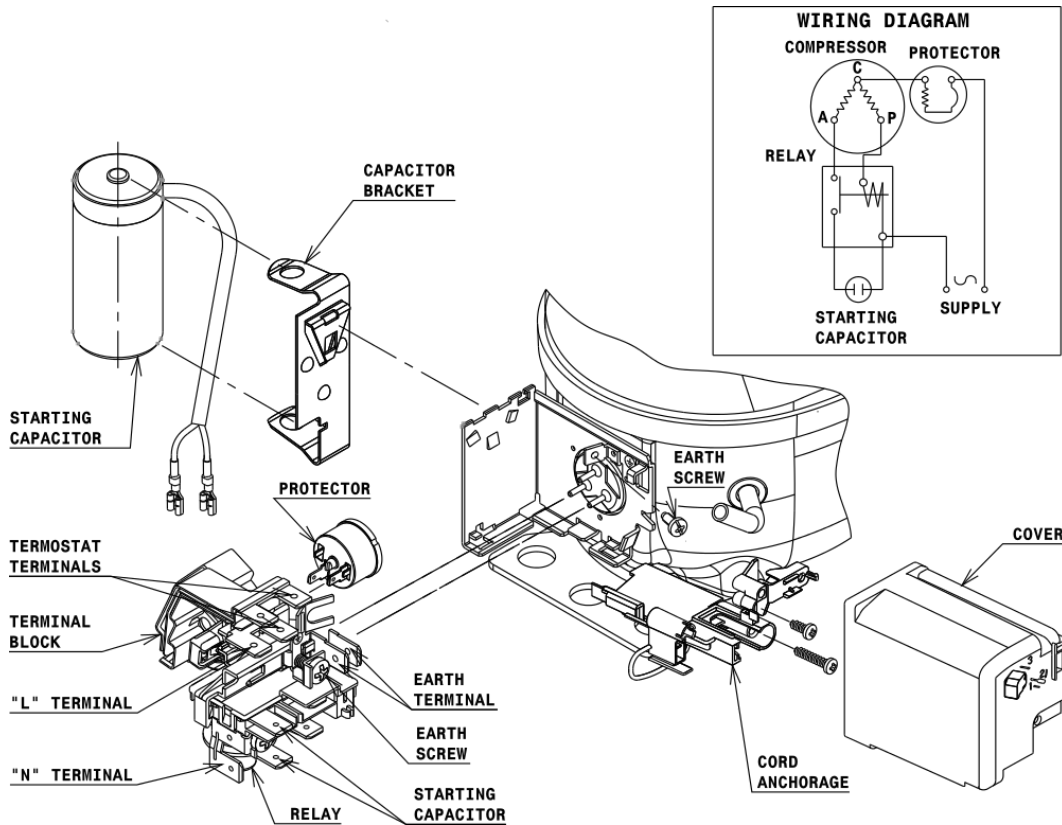


DESIGNATION INTERNAL DIAM.

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

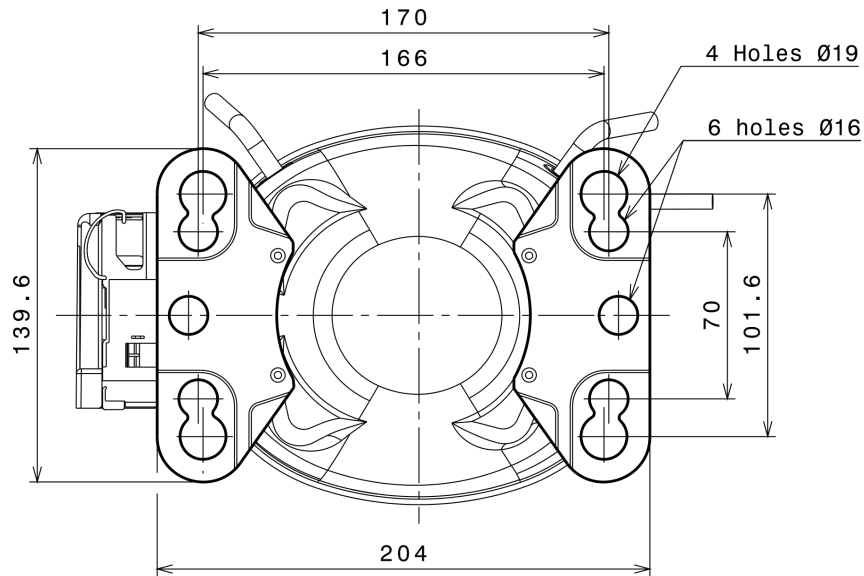
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



Technical Data Sheet

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

