

Technical Data Sheet

Compressor model **GUY72RCb**
Voltage **100V 50/60Hz ~1**
Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	7,20 cm ³	Nominal Power	1/4 hp
Refrigerant	R134a	Diameter	22,00 mm	Voltage/Frequency	100V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,00 mm	Voltage range	85-110 V
Expansion	Capillar/Valve	Net Weight	9,59 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	200 cm ³	Locked Rotor Amps (LRA)	24,60 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	6,30 A
				Main W. resist. at 25°C	1,60 Ω
				Start W. resist. at 25°C	7,20 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	669 kCal/h	650 W
COP	2,78 W/W	2,39 W/W
EER	2,39 kCal/Wh	2,07 kCal/Wh
Input Power	280 W	272 W
Current	3,38 A	3,31 A

TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	100 V 50 Hz	100 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	125 µF 160 V			
Run capacitor	15 µF 250 V			
Relay	Option 1			
Reference	2014 166. + NTC3Ω			
Pick-Up	11,00 A			
Drop-Out	9,35 A			
Protector	Option 1			
Reference	T0260			
Current	22,00 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	-25	174	140	2,31	1,45	1,24
40	-20	234	155	2,40	1,76	1,52
40	-15	308	170	2,50	2,11	1,81
40	-10	395	185	2,61	2,47	2,13
40	-5	495	202	2,73	2,85	2,45
40	0	608	218	2,86	3,24	2,79
40	5	734	235	2,99	3,63	3,12
40	7,2	794	243	3,06	3,80	3,27
40	10	874	253	3,14	4,02	3,46

45	-25	164	143	2,33	1,34	1,15
45	-20	220	159	2,43	1,61	1,38
45	-15	288	176	2,54	1,91	1,64
45	-10	370	193	2,66	2,23	1,92
45	-5	465	210	2,80	2,57	2,21
45	0	573	228	2,94	2,92	2,51
45	5	695	247	3,09	3,27	2,81
45	7,2	752	255	3,16	3,43	2,95
45	10	829	266	3,25	3,63	3,12

50	-25	155	145	2,34	1,24	1,06
50	-20	205	163	2,46	1,46	1,26
50	-15	269	181	2,58	1,73	1,48
50	-10	346	200	2,72	2,01	1,73
50	-5	436	219	2,86	2,31	1,99
50	0	539	239	3,02	2,63	2,26
50	5	655	259	3,19	2,95	2,53
50	7,2	711	268	3,27	3,09	2,66
50	10	785	279	3,37	3,27	2,81

55	-25	145	148	2,36	1,14	0,98
55	-20	190	167	2,49	1,33	1,14
55	-15	249	187	2,62	1,55	1,33
55	-10	321	207	2,77	1,80	1,55
55	-5	406	228	2,93	2,07	1,78
55	0	504	249	3,10	2,36	2,03
55	5	616	270	3,29	2,65	2,28
55	7,2	669	280	3,38	2,78	2,39
55	10	740	292	3,50	2,94	2,53

60	-25	135	151	2,38	1,04	0,90
60	-20	176	171	2,51	1,19	1,03
60	-15	230	193	2,66	1,39	1,19
60	-10	296	214	2,82	1,61	1,38
60	-5	377	236	3,00	1,85	1,59
60	0	470	259	3,19	2,11	1,81
60	5	576	282	3,40	2,38	2,04
60	7,2	627	292	3,49	2,50	2,15
60	10	696	306	3,62	2,65	2,28

65	-25	126	153	2,39	0,95	0,82
65	-20	161	176	2,54	1,07	0,92
65	-15	210	198	2,70	1,23	1,06
65	-10	272	221	2,88	1,43	1,23
65	-5	347	245	3,07	1,65	1,42
65	0	435	269	3,28	1,88	1,62
65	5	537	294	3,51	2,13	1,83
65	7,2	586	305	3,61	2,24	1,92
65	10	652	319	3,75	2,38	2,04

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	187	141	2,31	1,33	1,15
40	-20	253	156	2,41	1,63	1,41
40	-15	333	171	2,51	1,95	1,68
40	-10	427	187	2,62	2,29	1,98
40	-5	534	203	2,74	2,63	2,28
40	0	655	220	2,87	2,98	2,58
40	5	791	237	3,01	3,34	2,88
40	7,2	854	245	3,07	3,49	3,02
40	10	940	255	3,15	3,69	3,19

45	-25	176	143	2,33	1,23	1,06
45	-20	236	160	2,44	1,48	1,28
45	-15	310	176	2,55	1,76	1,52
45	-10	398	194	2,67	2,05	1,77
45	-5	499	212	2,80	2,36	2,04
45	0	615	230	2,95	2,67	2,31
45	5	744	249	3,10	2,99	2,59
45	7,2	805	257	3,18	3,13	2,71
45	10	887	268	3,27	3,31	2,86

50	-25	165	146	2,35	1,13	0,97
50	-20	219	164	2,46	1,34	1,15
50	-15	287	182	2,59	1,57	1,36
50	-10	368	201	2,72	1,83	1,58
50	-5	464	220	2,87	2,11	1,82
50	0	574	240	3,03	2,39	2,07
50	5	697	260	3,20	2,68	2,31
50	7,2	756	269	3,28	2,81	2,42
50	10	834	281	3,39	2,97	2,56

55	-25	153	149	2,36	1,03	0,89
55	-20	202	168	2,49	1,20	1,04
55	-15	264	188	2,63	1,40	1,21
55	-10	339	208	2,78	1,63	1,41
55	-5	429	229	2,94	1,87	1,62
55	0	533	250	3,12	2,13	1,84
55	5	650	272	3,31	2,39	2,07
55	7,2	707	282	3,40	2,51	2,17
55	10	782	294	3,51	2,66	2,30

60	-25	142	151	2,38	0,94	0,81
60	-20	184	172	2,52	1,07	0,92
60	-15	240	194	2,67	1,24	1,07
60	-10	310	215	2,83	1,44	1,25
60	-5	394	238	3,01	1,66	1,43
60	0	492	260	3,21	1,89	1,63
60	5	604	284	3,41	2,13	1,84
60	7,2	657	294	3,51	2,23	1,93
60	10	729	308	3,64	2,37	2,05

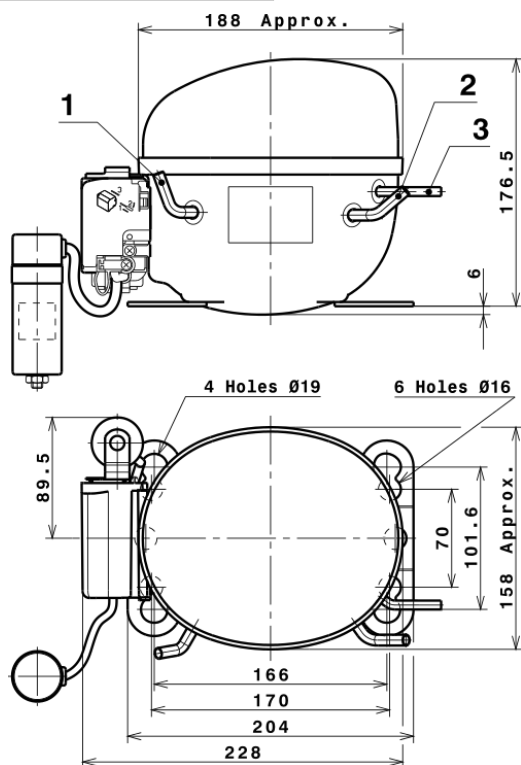
65	-25	131	154	2,40	0,85	0,73
65	-20	167	176	2,55	0,95	0,82
65	-15	217	199	2,71	1,09	0,94
65	-10	281	223	2,89	1,26	1,09
65	-5	359	246	3,09	1,46	1,26
65	0	451	271	3,30	1,67	1,44
65	5	557	296	3,52	1,88	1,63
65	7,2	608	307	3,63	1,98	1,71
65	10	677	321	3,77	2,11	1,82

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	985,9358608074	141,0987990784	2,1597956936	16,226313045668
2	35,1736535230	1,0597266443	0,0057115479	0,65962348827296
3	-8,4731304871	2,1040786606	0,0184758963	-0,045674524888467
4	0,2728736643	0,0117548957	0,0002856846	0,0078738782637027
5	-0,2460090761	0,0622391118	0,0006004762	-0,001219459668353

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

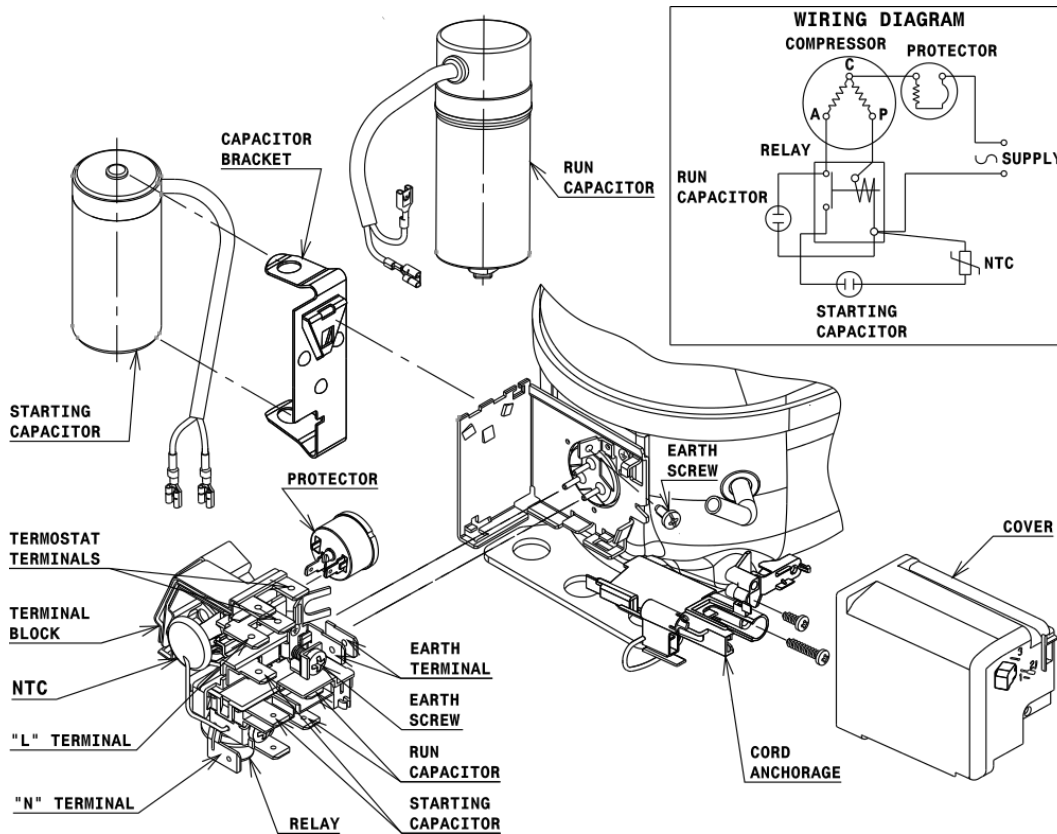


DESIGNATION INTERNAL DIAM.

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

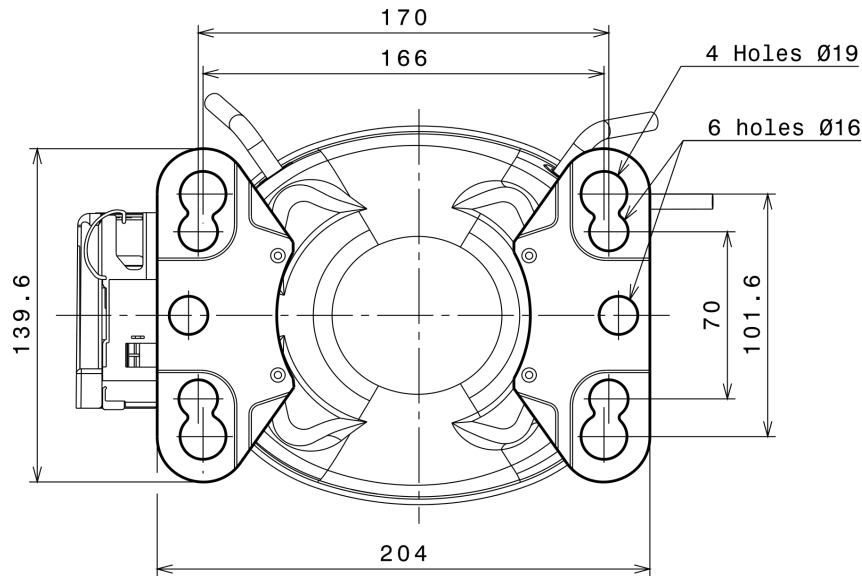
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (U range)



Technical Data Sheet

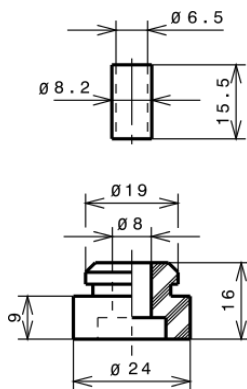
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

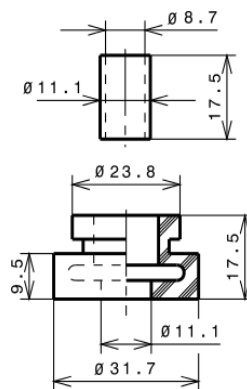
STANDARD

Ø16 holes (170x70 net)



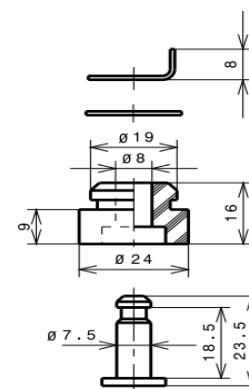
AMERICAN FEET

Ø19 holes (166x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a HMBP

