

Technical Data Sheet

Compressor model **GUY60RAa**
Voltage **220-240V 50Hz ~1**
Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	6,00 cm ³	Nominal Power	1/5 hp
Refrigerant	R134a	Diameter	21,99 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	16,00 mm	Voltage range	187-255 V
Expansion	Capillar/Valve	Net Weight	9,04 Kg	Type	CSIR
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)	8,80 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	2,20 A
				Main W. resist. at 25°C	13,15 Ω
				Start W. resist. at 25°C	37,21 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	554 kCal/h	540 W
COP	2,70 W/W	2,32 W/W
EER	2,32 kCal/Wh	2,01 kCal/Wh
Input Power	239 W	232 W
Current	1,36 A	1,33 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	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V			
Relay	Option 1	Option 2		
Reference	2014 118.	QLZ-3.75A		
Pick-Up	3,75 A	3.75 A		
Drop-Out	3,20 A	3.2 A		
Protector	Option 1	Option 2		
Reference	T0304	B65-115		
Current	6,50 A	6,50 A		
Time check	7,5-14 seg	7,5-16 seg		
Disc temp. (Open/Close)	105,00 / 61,00 °C	115,00 / 61,00 °C		

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	156	112	0,93	1,62	1,39
40	-20	208	125	0,97	1,94	1,66
40	-15	271	138	1,01	2,28	1,96
40	-10	344	152	1,05	2,64	2,27
40	-5	427	165	1,09	3,01	2,59
40	0	520	179	1,14	3,39	2,91
40	5	623	192	1,18	3,77	3,25
40	7,2	672	198	1,20	3,95	3,39
40	10	737	206	1,23	4,17	3,58

45	-25	144	114	0,94	1,47	1,26
45	-20	192	129	0,98	1,73	1,49
45	-15	250	144	1,02	2,02	1,74
45	-10	319	159	1,07	2,33	2,00
45	-5	398	174	1,12	2,65	2,28
45	0	487	190	1,17	2,99	2,57
45	5	586	205	1,23	3,33	2,86
45	7,2	633	212	1,25	3,48	2,99
45	10	695	220	1,29	3,67	3,16

50	-25	131	116	0,94	1,32	1,13
50	-20	175	133	0,99	1,54	1,32
50	-15	230	150	1,04	1,78	1,53
50	-10	294	167	1,10	2,05	1,76
50	-5	369	184	1,15	2,33	2,01
50	0	453	201	1,21	2,63	2,26
50	5	548	218	1,28	2,93	2,52
50	7,2	593	225	1,31	3,06	2,63
50	10	654	235	1,34	3,23	2,78

55	-25	119	118	0,95	1,17	1,01
55	-20	159	137	1,00	1,35	1,16
55	-15	209	155	1,06	1,56	1,34
55	-10	269	174	1,12	1,80	1,55
55	-5	339	193	1,18	2,05	1,76
55	0	420	212	1,25	2,31	1,98
55	5	511	231	1,33	2,58	2,21
55	7,2	554	239	1,36	2,70	2,32
55	10	612	250	1,40	2,85	2,45

60	-25	107	120	0,96	1,03	0,89
60	-20	142	140	1,01	1,18	1,01
60	-15	188	161	1,08	1,36	1,17
60	-10	244	181	1,15	1,56	1,35
60	-5	310	202	1,22	1,79	1,54
60	0	387	223	1,30	2,02	1,74
60	5	473	244	1,38	2,26	1,94
60	7,2	515	253	1,42	2,37	2,04
60	10	570	264	1,47	2,51	2,16

65	-25	94	122	0,96	0,90	0,77
65	-20	126	144	1,03	1,01	0,87
65	-15	167	167	1,10	1,17	1,01
65	-10	219	189	1,17	1,35	1,16
65	-5	281	211	1,25	1,55	1,33
65	0	353	234	1,34	1,76	1,51
65	5	436	256	1,43	1,98	1,70
65	7,2	475	266	1,47	2,08	1,78
65	10	528	279	1,53	2,20	1,89

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	168	113	0,94	1,49	1,29
40	-20	225	126	0,97	1,79	1,55
40	-15	293	139	1,01	2,10	1,82
40	-10	371	153	1,05	2,43	2,10
40	-5	461	166	1,09	2,77	2,40
40	0	560	180	1,14	3,12	2,70
40	5	671	193	1,19	3,47	3,00
40	7,2	723	199	1,21	3,63	3,14
40	10	792	207	1,24	3,83	3,31

45	-25	154	115	0,94	1,34	1,16
45	-20	206	130	0,98	1,59	1,37
45	-15	269	145	1,03	1,86	1,60
45	-10	342	160	1,07	2,14	1,85
45	-5	427	175	1,12	2,43	2,10
45	0	522	191	1,18	2,73	2,36
45	5	627	206	1,23	3,04	2,63
45	7,2	677	213	1,26	3,18	2,75
45	10	744	222	1,29	3,35	2,90

50	-25	140	117	0,95	1,20	1,04
50	-20	187	133	0,99	1,40	1,21
50	-15	245	150	1,04	1,63	1,41
50	-10	313	167	1,10	1,87	1,62
50	-5	393	185	1,16	2,13	1,84
50	0	483	202	1,22	2,39	2,07
50	5	583	219	1,28	2,66	2,30
50	7,2	631	227	1,31	2,78	2,40
50	10	695	237	1,35	2,94	2,54

55	-25	126	119	0,95	1,06	0,92
55	-20	168	137	1,00	1,22	1,06
55	-15	221	156	1,06	1,42	1,22
55	-10	284	175	1,12	1,63	1,40
55	-5	359	194	1,19	1,85	1,60
55	0	444	213	1,26	2,08	1,80
55	5	540	232	1,33	2,32	2,01
55	7,2	585	241	1,37	2,43	2,10
55	10	646	251	1,41	2,57	2,22

60	-25	112	121	0,96	0,93	0,80
60	-20	149	141	1,02	1,06	0,91
60	-15	197	162	1,08	1,22	1,05
60	-10	256	182	1,15	1,40	1,21
60	-5	325	203	1,22	1,60	1,38
60	0	405	224	1,30	1,81	1,56
60	5	496	245	1,38	2,02	1,75
60	7,2	539	254	1,42	2,12	1,83
60	10	597	266	1,47	2,24	1,94

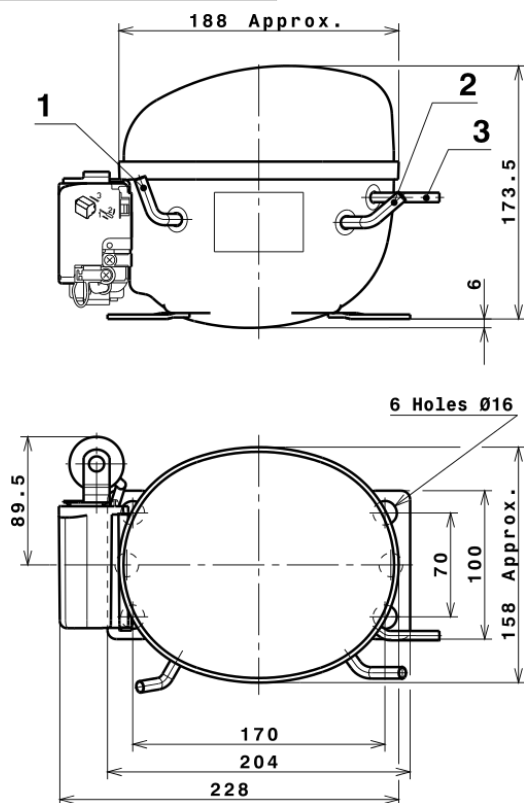
65	-25	98	123	0,96	0,80	0,69
65	-20	130	145	1,03	0,90	0,77
65	-15	173	167	1,10	1,03	0,89
65	-10	227	190	1,17	1,19	1,03
65	-5	291	213	1,26	1,37	1,18
65	0	366	235	1,34	1,56	1,34
65	5	452	258	1,44	1,75	1,51
65	7,2	493	268	1,48	1,84	1,59
65	10	548	281	1,54	1,95	1,69

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	873,9687480041	92,7394219391	0,7944397787	14,74858340912
2	29,0855471677	-0,1605733087	-0,0017724816	0,54532572329463
3	-8,0177571981	2,2876580704	0,0088251469	-0,060515191477391
4	0,2109765730	0,0030470421	0,0000934754	0,0061324927246755
5	-0,2071865819	0,0750632968	0,0003080533	-0,0011028365893603

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

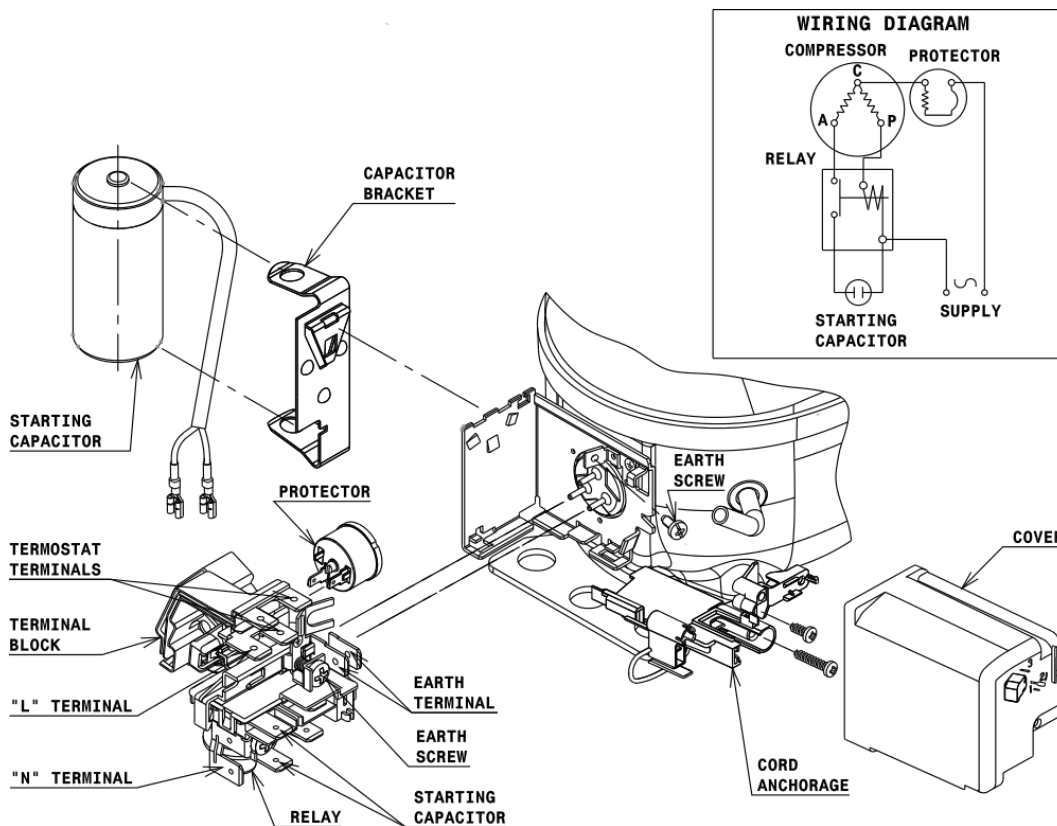


DESIGNATION INTERNAL DIAM.

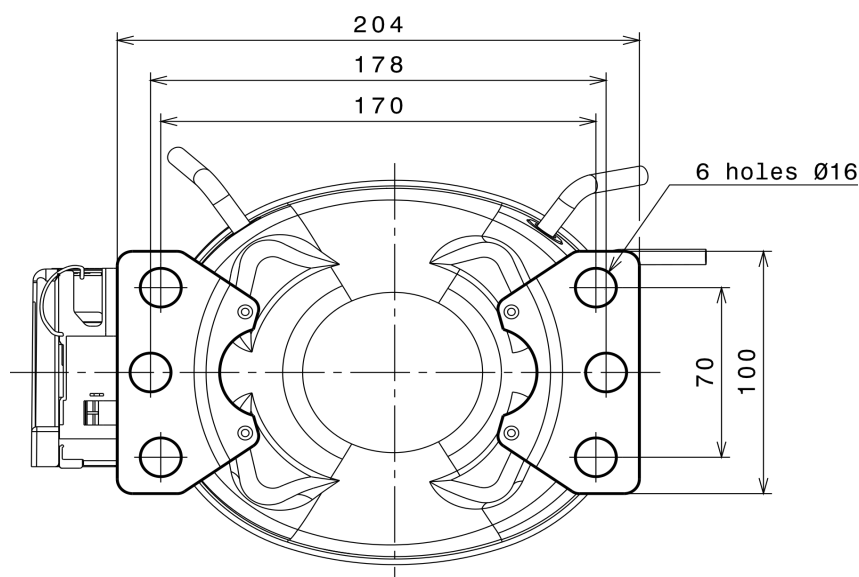
1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



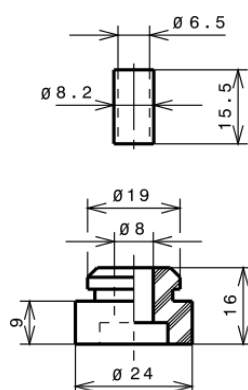
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

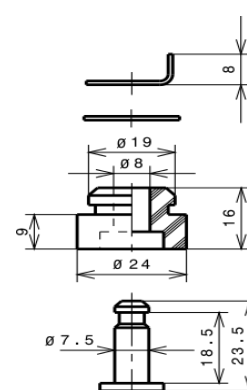
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a HMBP

