

Technical Data Sheet

Compressor model **GU45TG**
 Voltage **200-230/220-240V 50/60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	4,50 cm ³	Nominal Power	1/6 hp
Refrigerant	R134a	Diameter	22,00 mm	Voltage/Frequency	220-240V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	11,88 mm	Voltage range	187-264 V
Expansion	Capillar/Valve	Net Weight	8,60 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 22 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	220 cm ³	Locked Rotor Amps (LRA)	9,40 A
Compatible refriger.	R1234yf			Main W. resist. at 25°C	17,00 Ω
				Start W. resist. at 25°C	40,30 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	442 kCal/h	431 W
COP	2,38 W/W	2,05 W/W
EER	2,05 kCal/Wh	1,77 kCal/Wh
Input Power	216 W	210 W
Current	1,23 A	1,20 A

APPROVALS



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	230 V 60 Hz	230 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	50 µF 330 V			
Relay	Option 1			
Reference	QLZ-4.0A			
Pick-Up	4.00 V			
Drop-Out	3.40 V			
Protector	Option 1			
Reference	B85-130			
Current	9,00 A			
Time check	7,5-16 seg			
Disc temp. (Open/Close)	130,00 / 62,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	124	101	0,84	1,43	1,23
40	-20	166	113	0,88	1,71	1,47
40	-15	216	125	0,91	2,02	1,74
40	-10	274	137	0,94	2,34	2,01
40	-5	341	149	0,98	2,66	2,29
40	0	415	161	1,02	3,00	2,58
40	5	497	173	1,07	3,33	2,87
40	7,2	536	179	1,09	3,48	2,99
40	10	588	186	1,11	3,67	3,16

45	-25	114	103	0,85	1,29	1,11
45	-20	153	116	0,89	1,53	1,32
45	-15	200	130	0,92	1,79	1,54
45	-10	255	143	0,97	2,06	1,78
45	-5	317	157	1,01	2,35	2,02
45	0	388	171	1,06	2,64	2,27
45	5	467	185	1,11	2,94	2,52
45	7,2	505	191	1,13	3,07	2,64
45	10	554	199	1,16	3,24	2,78

50	-25	105	105	0,85	1,16	1,00
50	-20	140	120	0,90	1,36	1,17
50	-15	183	135	0,94	1,58	1,36
50	-10	235	150	0,99	1,82	1,56
50	-5	294	166	1,04	2,07	1,78
50	0	362	181	1,09	2,32	2,00
50	5	437	197	1,15	2,59	2,22
50	7,2	473	204	1,18	2,70	2,32
50	10	521	213	1,22	2,85	2,45

55	-25	95	107	0,86	1,03	0,89
55	-20	127	124	0,91	1,20	1,03
55	-15	167	140	0,96	1,38	1,19
55	-10	215	157	1,01	1,59	1,37
55	-5	271	174	1,07	1,81	1,56
55	0	335	191	1,13	2,04	1,75
55	5	408	208	1,20	2,28	1,96
55	7,2	442	216	1,23	2,38	2,05
55	10	488	226	1,27	2,51	2,16

60	-25	85	109	0,87	0,91	0,78
60	-20	114	127	0,92	1,04	0,90
60	-15	151	145	0,97	1,20	1,04
60	-10	195	164	1,03	1,39	1,19
60	-5	248	182	1,10	1,58	1,36
60	0	309	201	1,17	1,79	1,54
60	5	378	220	1,25	2,00	1,72
60	7,2	411	228	1,28	2,09	1,80
60	10	455	239	1,33	2,21	1,90

65	-25	76	111	0,87	0,79	0,68
65	-20	101	131	0,93	0,90	0,77
65	-15	134	151	0,99	1,04	0,89
65	-10	175	171	1,06	1,20	1,03
65	-5	225	191	1,13	1,37	1,18
65	0	282	211	1,21	1,56	1,34
65	5	348	232	1,30	1,75	1,50
65	7,2	379	241	1,34	1,83	1,58
65	10	422	252	1,39	1,94	1,67

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	134	102	0,85	1,32	1,14
40	-20	179	113	0,88	1,58	1,37
40	-15	234	125	0,91	1,87	1,61
40	-10	296	137	0,95	2,16	1,86
40	-5	367	150	0,99	2,46	2,12
40	0	447	162	1,03	2,76	2,39
40	5	535	175	1,07	3,07	2,65
40	7,2	577	180	1,09	3,20	2,77
40	10	632	187	1,12	3,37	2,92

45	-25	123	104	0,85	1,18	1,02
45	-20	164	117	0,89	1,41	1,21
45	-15	215	130	0,93	1,64	1,42
45	-10	273	144	0,97	1,90	1,64
45	-5	341	158	1,01	2,15	1,86
45	0	416	172	1,06	2,42	2,09
45	5	500	186	1,11	2,69	2,32
45	7,2	540	193	1,14	2,81	2,42
45	10	593	201	1,17	2,96	2,55

50	-25	112	106	0,86	1,06	0,91
50	-20	149	121	0,90	1,24	1,07
50	-15	196	136	0,94	1,44	1,25
50	-10	250	151	0,99	1,66	1,43
50	-5	314	167	1,04	1,88	1,63
50	0	385	182	1,10	2,12	1,83
50	5	466	198	1,16	2,35	2,03
50	7,2	503	205	1,19	2,46	2,12
50	10	554	214	1,22	2,59	2,24

55	-25	101	108	0,86	0,93	0,81
55	-20	134	124	0,91	1,08	0,93
55	-15	177	141	0,96	1,25	1,08
55	-10	227	158	1,01	1,44	1,24
55	-5	287	175	1,07	1,64	1,42
55	0	354	192	1,14	1,84	1,59
55	5	431	210	1,20	2,05	1,77
55	7,2	467	217	1,24	2,15	1,86
55	10	515	227	1,28	2,27	1,96

60	-25	90	110	0,87	0,82	0,71
60	-20	119	128	0,92	0,93	0,81
60	-15	158	146	0,97	1,08	0,93
60	-10	204	165	1,04	1,24	1,07
60	-5	260	183	1,10	1,42	1,22
60	0	323	202	1,17	1,60	1,38
60	5	396	221	1,25	1,79	1,54
60	7,2	430	230	1,29	1,87	1,62
60	10	476	241	1,34	1,98	1,71

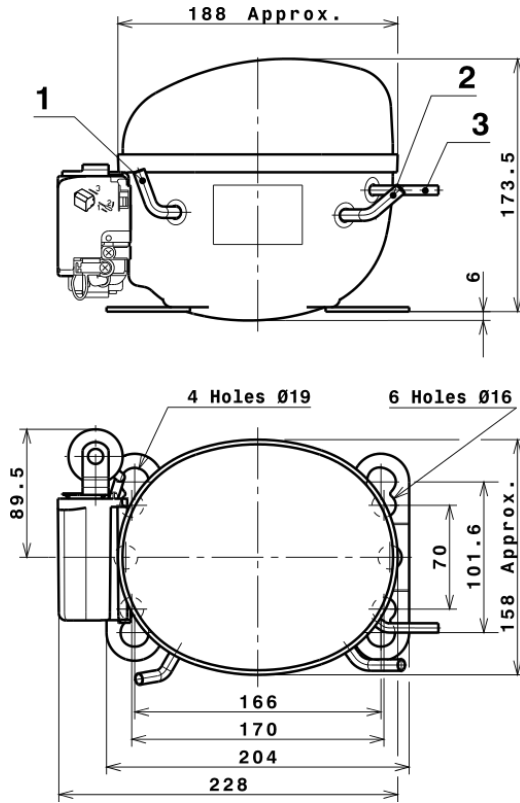
65	-25	79	112	0,87	0,70	0,61
65	-20	104	131	0,93	0,79	0,69
65	-15	139	151	0,99	0,92	0,79
65	-10	181	172	1,06	1,06	0,91
65	-5	233	192	1,13	1,21	1,05
65	0	293	212	1,22	1,38	1,19
65	5	361	233	1,30	1,55	1,34
65	7,2	393	242	1,34	1,62	1,40
65	10	438	254	1,40	1,72	1,49

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	696,6615039292	83,2505554406	0,7097182274	11,753817588563
2	23,2235942817	-0,0508887335	-0,0014568371	0,43538301650102
3	-6,3807177514	2,0734394817	0,0081065558	-0,047917279699874
4	0,1669191080	0,0045292829	0,0000985357	0,0048562357908706
5	-0,1661189886	0,0664945533	0,0002804568	-0,00089806557877028

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

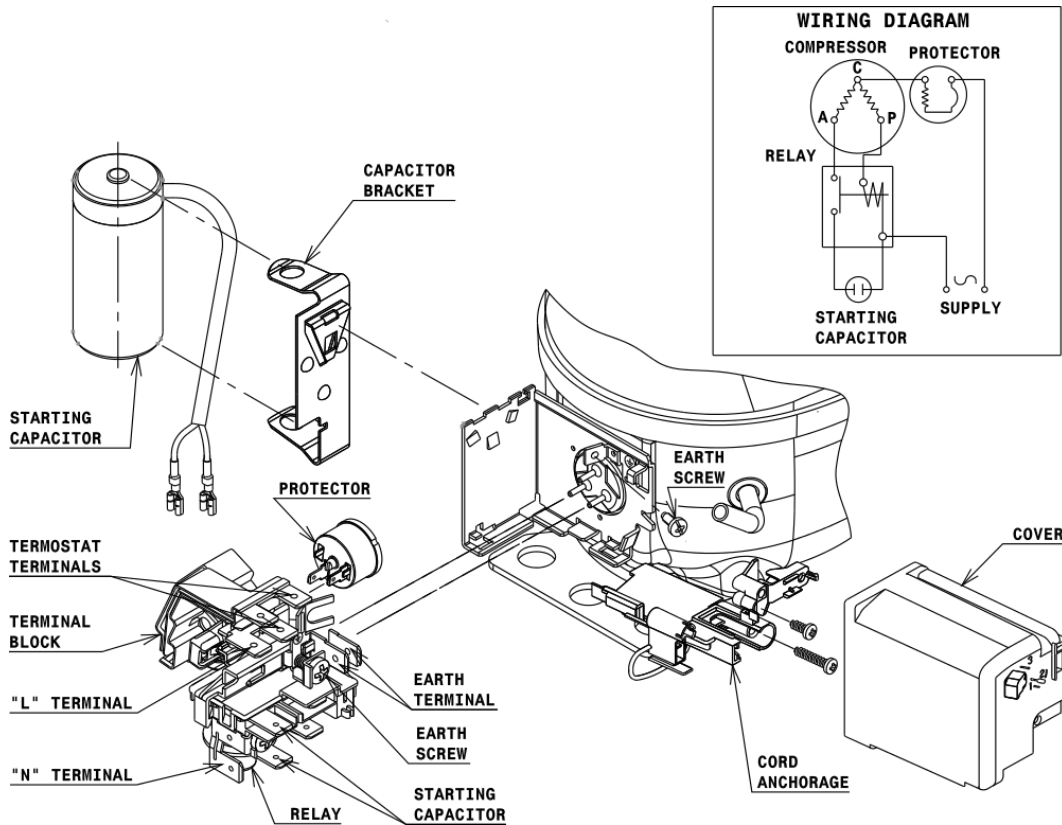


DESIGNATION INTERNAL DIAM.

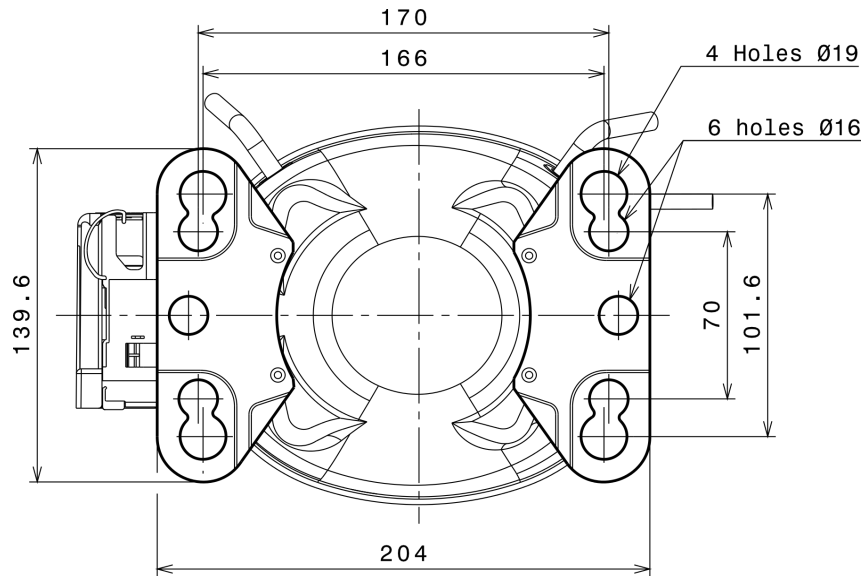
DESIGNATION	INTERNAL DIAM.
1 Service	6,2 mm
2 Suction	6,2 mm
3 Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (166x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R134a HMBP

