

Technical Data Sheet

Compressor model **GE70TG**
 Voltage **220-240/230V 50/60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High Back Pressure	Displacement	6,70 cm ³	Nominal Power	1/5 hp
Refrigerant	R134a	Diameter	21,99 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-15,0 °C to 10,0 °C	Stroke	17,50 mm	Voltage range	187-254 V
Expansion	Capillar/Valve	Net Weight	8,80 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)	14,00 A
Compatible refriger.	R1234yf			Main W. resist. at 25°C	10,50 Ω
				Start W. resist. at 25°C	23,30 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	604 kCal/h	584 W
COP	2,36 W/W	2,01 W/W
EER	2,03 kCal/Wh	1,74 kCal/Wh
Input Power	298 W	291 W
Current	1,99 A	1,97 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE HBP (D)	CECOMAF HBP (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	60-61 µF 330 V			
Relay	Option 1			
Reference	QLZ-6.1A			
Pick-Up	6.1 A			
Drop-Out	5.2 A			
Protector	Option 1			
Reference	B85-105			
Current	8,50 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 61,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-15	278	196	1,78	1,65	1,42
40	-10	345	208	1,80	1,93	1,66
40	-5	427	220	1,82	2,26	1,94
40	0	525	233	1,85	2,62	2,25
40	5	638	248	1,87	3,00	2,58
40	7,2	693	254	1,89	3,17	2,73
40	10	767	262	1,91	3,40	2,92

45	-15	262	202	1,79	1,51	1,30
45	-10	326	216	1,81	1,76	1,51
45	-5	405	230	1,84	2,05	1,76
45	0	500	245	1,87	2,37	2,04
45	5	610	261	1,90	2,71	2,33
45	7,2	663	269	1,92	2,87	2,47
45	10	736	278	1,94	3,08	2,64

50	-15	245	208	1,80	1,37	1,18
50	-10	306	224	1,83	1,59	1,37
50	-5	383	240	1,86	1,85	1,59
50	0	474	257	1,89	2,15	1,84
50	5	582	275	1,93	2,46	2,11
50	7,2	634	283	1,95	2,60	2,24
50	10	704	294	1,98	2,79	2,40

55	-15	229	214	1,81	1,24	1,07
55	-10	287	232	1,84	1,44	1,24
55	-5	360	250	1,88	1,68	1,44
55	0	449	269	1,92	1,94	1,67
55	5	553	289	1,97	2,23	1,91
55	7,2	604	298	1,99	2,36	2,03
55	10	673	310	2,02	2,53	2,17

60	-15	213	220	1,82	1,12	0,97
60	-10	268	239	1,86	1,30	1,12
60	-5	338	260	1,90	1,51	1,30
60	0	424	281	1,95	1,75	1,51
60	5	525	303	2,00	2,02	1,73
60	7,2	574	313	2,03	2,14	1,84
60	10	642	325	2,06	2,29	1,97

65	-15	196	226	1,83	1,01	0,87
65	-10	248	247	1,87	1,17	1,00
65	-5	316	270	1,92	1,36	1,17
65	0	398	293	1,98	1,58	1,36
65	5	497	317	2,04	1,82	1,57
65	7,2	545	327	2,07	1,94	1,66
65	10	610	341	2,11	2,08	1,79

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-15	299	197	1,78	1,52	1,31
40	-10	372	209	1,80	1,78	1,54
40	-5	461	221	1,82	2,08	1,80
40	0	566	235	1,85	2,41	2,08
40	5	687	249	1,88	2,76	2,38
40	7,2	746	256	1,89	2,92	2,52
40	10	825	264	1,91	3,12	2,70

45	-15	280	203	1,79	1,38	1,19
45	-10	349	217	1,81	1,61	1,39
45	-5	434	231	1,84	1,88	1,62
45	0	535	247	1,87	2,17	1,87
45	5	653	263	1,91	2,48	2,15
45	7,2	710	270	1,92	2,63	2,27
45	10	787	280	1,95	2,81	2,43

50	-15	261	209	1,80	1,25	1,08
50	-10	326	225	1,83	1,45	1,25
50	-5	408	241	1,86	1,69	1,46
50	0	505	259	1,90	1,95	1,69
50	5	619	277	1,94	2,23	1,93
50	7,2	674	285	1,96	2,36	2,04
50	10	749	296	1,98	2,53	2,19

55	-15	242	215	1,81	1,13	0,97
55	-10	303	233	1,84	1,30	1,13
55	-5	381	251	1,88	1,52	1,31
55	0	475	271	1,92	1,75	1,51
55	5	584	291	1,97	2,01	1,74
55	7,2	638	300	1,99	2,13	1,84
55	10	711	312	2,03	2,28	1,97

60	-15	223	221	1,82	1,01	0,87
60	-10	281	241	1,86	1,17	1,01
60	-5	354	261	1,90	1,36	1,17
60	0	444	283	1,95	1,57	1,36
60	5	550	305	2,01	1,81	1,56
60	7,2	602	315	2,03	1,91	1,65
60	10	672	328	2,07	2,05	1,77

65	-15	204	227	1,83	0,90	0,78
65	-10	258	249	1,88	1,04	0,89
65	-5	328	271	1,93	1,21	1,04
65	0	414	294	1,98	1,40	1,21
65	5	516	319	2,04	1,62	1,40
65	7,2	566	329	2,08	1,72	1,48
65	10	634	344	2,12	1,85	1,60

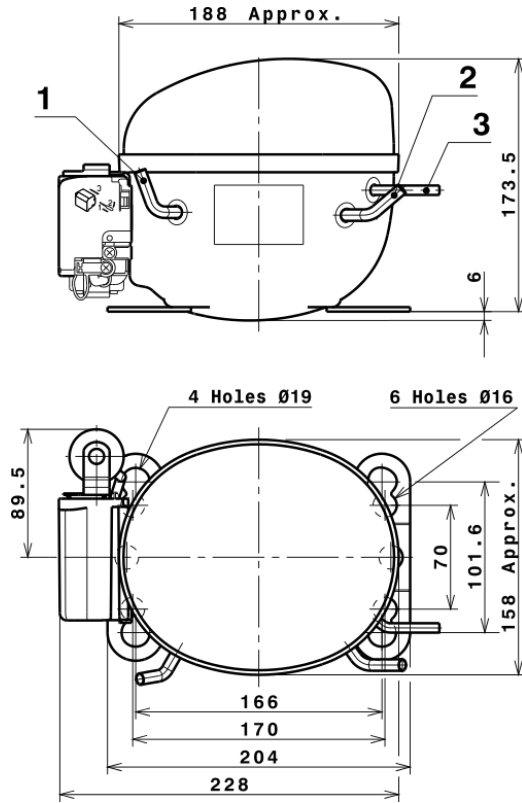
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	813,3830256515	142,8410014576	1,6280564293	13,081455498462
2	28,9806960285	-0,3388802403	-0,0033122745	0,50251276800005
3	-6,3738869630	2,4511648805	0,0056721399	-0,016597924611427
4	0,3199594962	0,0193793720	0,0001235088	0,0094689181094857
5	-0,1646628173	0,0810950116	0,0002382990	0,00081968723366307

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

COMPRESSOR DIMENSIONS

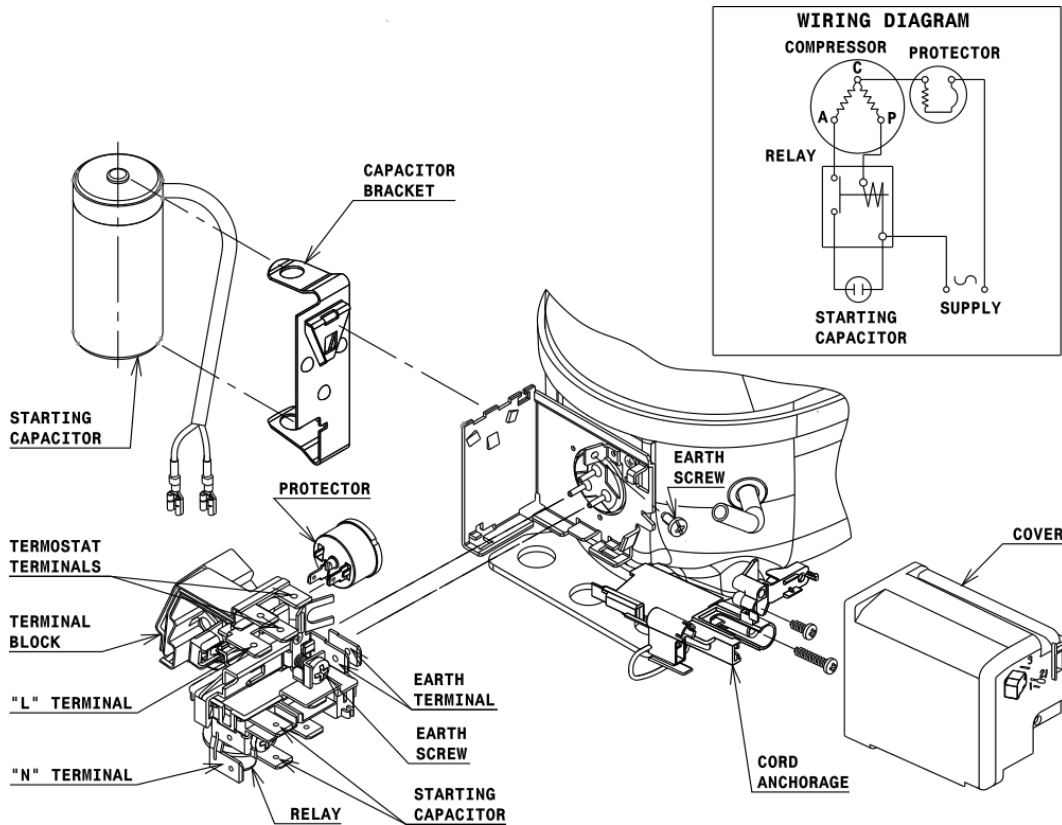


DESIGNATION INTERNAL DIAM.

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

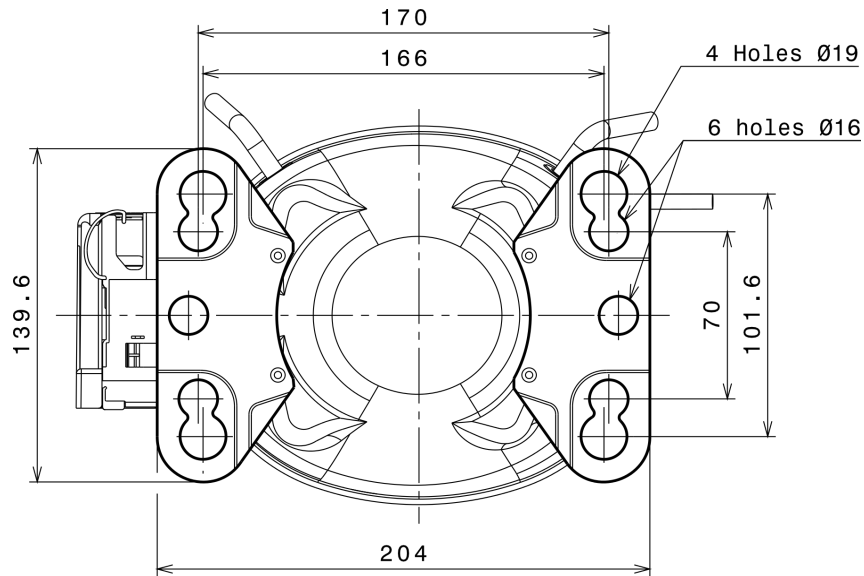
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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 HBP

