

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	200-230V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	11,88 mm	Voltage range	170-253 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)	8,90 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	404 kCal/h	393 W
COP	2,40 W/W	2,07 W/W
EER	2,06 kCal/Wh	1,79 kCal/Wh
Input Power	196 W	190 W
Current	1,29 A	1,26 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	200 V 50 Hz	200 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	50 µF 330 V			
Relay	Option 1			
Reference	QLZ-4.0A			
Pick-Up	4 V			
Drop-Out	3.4 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	114	92	0,88	1,44	1,24
40	-20	152	103	0,92	1,72	1,48
40	-15	197	114	0,95	2,02	1,74
40	-10	250	124	0,99	2,34	2,01
40	-5	311	135	1,03	2,67	2,30
40	0	379	146	1,07	3,01	2,59
40	5	454	157	1,12	3,36	2,89
40	7,2	490	162	1,14	3,52	3,02
40	10	537	168	1,16	3,72	3,20

45	-25	105	94	0,89	1,30	1,12
45	-20	140	106	0,93	1,54	1,32
45	-15	182	118	0,97	1,79	1,54
45	-10	232	131	1,01	2,07	1,78
45	-5	290	143	1,06	2,36	2,03
45	0	355	155	1,11	2,65	2,28
45	5	427	168	1,16	2,96	2,54
45	7,2	461	173	1,19	3,10	2,66
45	10	507	180	1,22	3,27	2,81

50	-25	96	95	0,89	1,17	1,01
50	-20	128	109	0,94	1,36	1,17
50	-15	167	123	0,99	1,58	1,36
50	-10	214	137	1,04	1,82	1,57
50	-5	269	151	1,09	2,07	1,78
50	0	330	165	1,15	2,33	2,01
50	5	400	179	1,21	2,60	2,24
50	7,2	433	185	1,24	2,72	2,34
50	10	477	192	1,27	2,88	2,48

55	-25	87	97	0,90	1,04	0,90
55	-20	116	112	0,95	1,20	1,03
55	-15	152	128	1,00	1,39	1,19
55	-10	196	143	1,06	1,59	1,37
55	-5	247	158	1,12	1,82	1,56
55	0	306	174	1,19	2,05	1,76
55	5	372	189	1,26	2,29	1,97
55	7,2	404	196	1,29	2,40	2,06
55	10	446	205	1,33	2,54	2,18

60	-25	78	99	0,91	0,92	0,79
60	-20	104	115	0,96	1,05	0,90
60	-15	137	132	1,02	1,20	1,04
60	-10	178	149	1,08	1,39	1,19
60	-5	226	166	1,15	1,58	1,36
60	0	282	183	1,23	1,79	1,54
60	5	345	200	1,31	2,01	1,73
60	7,2	375	207	1,35	2,11	1,81
60	10	416	217	1,39	2,23	1,92

65	-25	69	100	0,91	0,80	0,69
65	-20	92	119	0,97	0,90	0,77
65	-15	122	137	1,04	1,04	0,89
65	-10	160	155	1,11	1,20	1,03
65	-5	205	174	1,19	1,37	1,18
65	0	258	192	1,27	1,56	1,34
65	5	318	211	1,36	1,76	1,51
65	7,2	347	219	1,40	1,84	1,59
65	10	386	229	1,46	1,96	1,68

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	123	92	0,89	1,33	1,15
40	-20	164	103	0,92	1,59	1,37
40	-15	213	114	0,96	1,87	1,61
40	-10	271	125	0,99	2,16	1,87
40	-5	336	136	1,03	2,46	2,13
40	0	408	147	1,08	2,78	2,40
40	5	489	158	1,12	3,09	2,67
40	7,2	527	163	1,14	3,23	2,79
40	10	578	169	1,17	3,41	2,95

45	-25	113	94	0,89	1,20	1,03
45	-20	150	107	0,93	1,41	1,22
45	-15	196	119	0,97	1,65	1,42
45	-10	249	131	1,02	1,90	1,64
45	-5	311	144	1,06	2,16	1,87
45	0	380	156	1,11	2,43	2,10
45	5	457	169	1,17	2,71	2,34
45	7,2	494	174	1,19	2,83	2,45
45	10	542	181	1,22	2,99	2,58

50	-25	102	96	0,90	1,07	0,92
50	-20	136	110	0,94	1,24	1,07
50	-15	178	124	0,99	1,44	1,25
50	-10	228	138	1,04	1,66	1,43
50	-5	286	152	1,09	1,89	1,63
50	0	352	166	1,15	2,12	1,84
50	5	425	180	1,21	2,37	2,05
50	7,2	460	186	1,24	2,48	2,14
50	10	507	194	1,28	2,62	2,26

55	-25	92	98	0,90	0,94	0,82
55	-20	123	113	0,95	1,09	0,94
55	-15	161	128	1,01	1,25	1,08
55	-10	207	144	1,06	1,44	1,25
55	-5	261	159	1,13	1,64	1,42
55	0	323	175	1,19	1,85	1,60
55	5	393	190	1,26	2,07	1,79
55	7,2	427	197	1,30	2,16	1,87
55	10	471	206	1,34	2,29	1,98

60	-25	82	99	0,91	0,82	0,71
60	-20	109	116	0,96	0,94	0,81
60	-15	144	133	1,02	1,08	0,93
60	-10	186	150	1,09	1,24	1,07
60	-5	237	167	1,16	1,42	1,22
60	0	295	184	1,23	1,60	1,39
60	5	361	201	1,31	1,80	1,55
60	7,2	393	209	1,35	1,88	1,63
60	10	436	218	1,40	2,00	1,72

65	-25	72	101	0,91	0,71	0,61
65	-20	95	119	0,97	0,80	0,69
65	-15	126	138	1,04	0,92	0,79
65	-10	165	156	1,11	1,06	0,91
65	-5	212	175	1,19	1,21	1,05
65	0	267	193	1,28	1,38	1,19
65	5	330	212	1,37	1,56	1,34
65	7,2	360	220	1,41	1,63	1,41
65	10	400	231	1,47	1,74	1,50

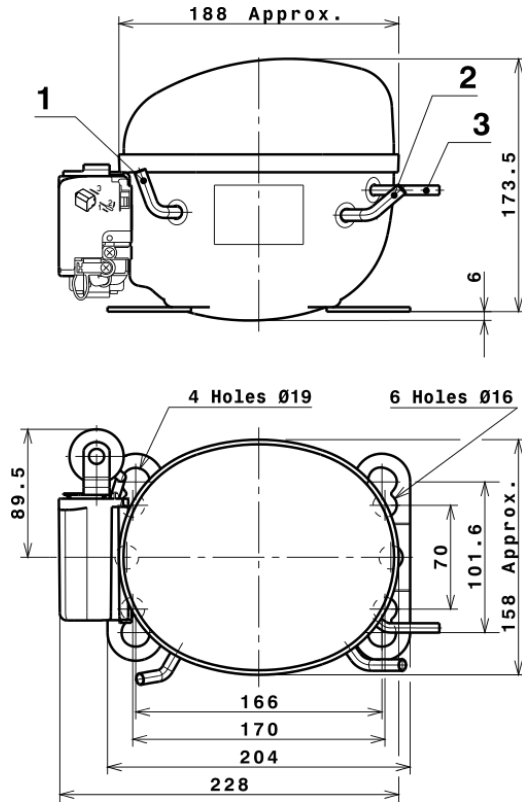
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	637,0493678920	75,0621117544	0,7380336870	10,747631556125
2	21,2145135383	-0,1870778302	-0,0020851680	0,39790437153113
3	-5,8444836193	1,8974559508	0,0086354414	-0,044063074890168
4	0,1549859146	0,0017693125	0,0000962170	0,0045012834969043
5	-0,1509253763	0,0621957164	0,0003032130	-0,00080223958022812

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

COMPRESSOR DIMENSIONS

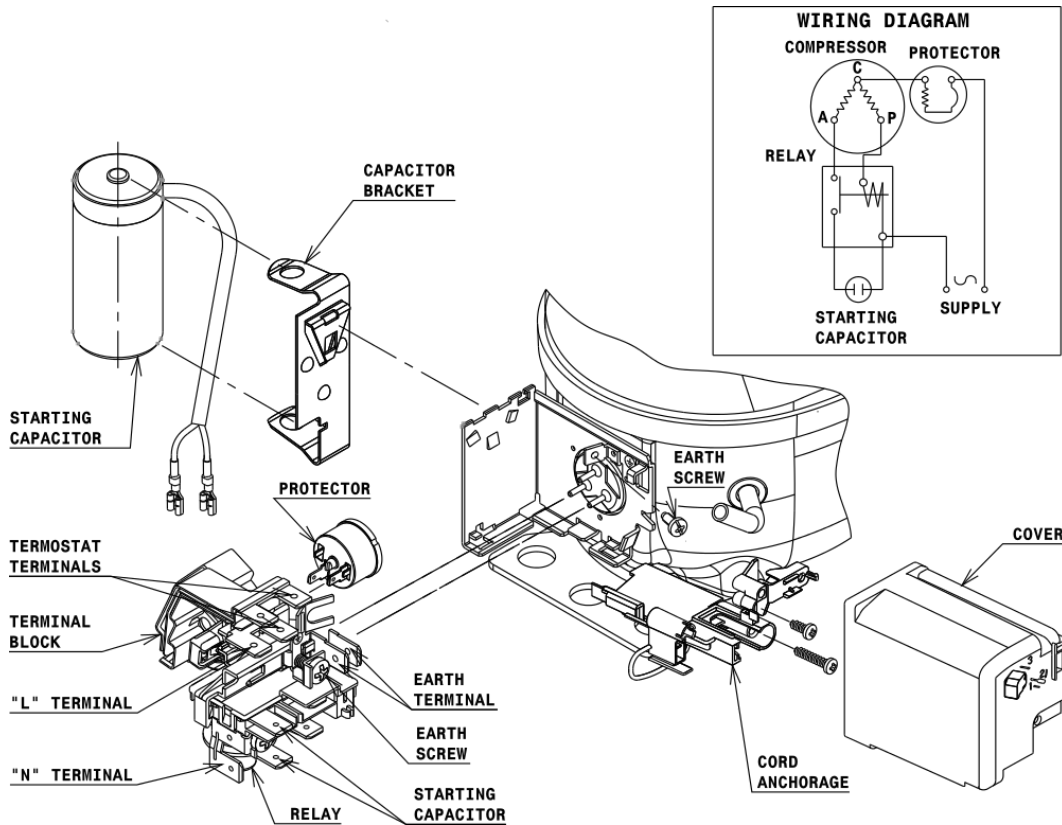


DESIGNATION INTERNAL DIAM.

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

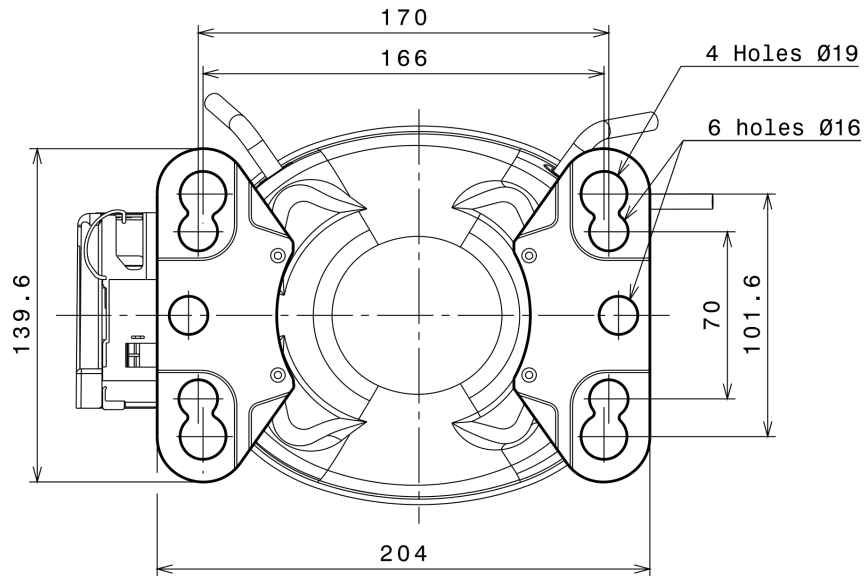
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



Technical Data Sheet

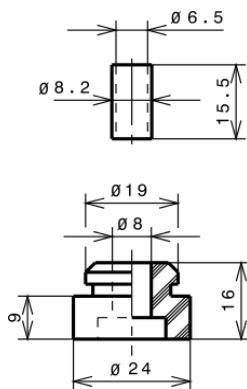
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

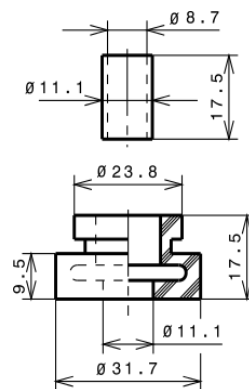
STANDARD

Ø16 holes (170x70 net)



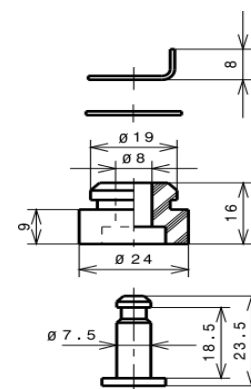
AMERICAN FEET

Ø19 holes (166x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a HMBP

