

Technical Data Sheet

Compressor model **GL60TC**
 Voltage **100V 50/60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	5,68 cm ³	Nominal Power	1/5 hp
Refrigerant	R134a	Diameter	22,00 mm	Voltage/Frequency	100V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	14,92 mm	Voltage range	85-110 V
Expansion	Capillar/Valve	Net Weight	10,38 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	300 cm ³	Locked Rotor Amps (LRA)	21,00 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	6,20 A
				Main W. resist. at 25°C	1,94 Ω
				Start W. resist. at 25°C	7,65 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	526 kCal/h	510 W
COP	2,01 W/W	1,74 W/W
EER	1,72 kCal/Wh	1,50 kCal/Wh
Input Power	305 W	293 W
Current	3,85 A	3,73 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 60 Hz	100 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	150 µF 160 V			
Relay	Option 1			
Reference	2014 166.			
Pick-Up	11,00 A			
Drop-Out	9,35 A			
Protector	Option 1	Option 2		
Reference	MRP00AMK	T0425		
Current	11,70 A	11,50 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 61,00 °C	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	-25	140	145	2,55	1,12	0,97
40	-20	189	160	2,65	1,37	1,18
40	-15	249	177	2,76	1,63	1,40
40	-10	319	196	2,89	1,89	1,63
40	-5	400	217	3,05	2,15	1,85
40	0	492	239	3,24	2,39	2,06
40	5	595	264	3,45	2,62	2,25
40	7,2	643	275	3,56	2,72	2,34
40	10	708	290	3,70	2,84	2,44

45	-25	128	145	2,55	1,03	0,89
45	-20	173	162	2,66	1,25	1,07
45	-15	229	180	2,78	1,48	1,27
45	-10	295	201	2,93	1,71	1,47
45	-5	372	223	3,10	1,94	1,67
45	0	459	247	3,30	2,16	1,86
45	5	557	273	3,54	2,37	2,04
45	7,2	604	285	3,65	2,46	2,12
45	10	666	301	3,81	2,58	2,22

50	-25	117	145	2,55	0,94	0,80
50	-20	157	163	2,67	1,12	0,96
50	-15	208	183	2,80	1,32	1,14
50	-10	270	205	2,96	1,53	1,32
50	-5	343	229	3,15	1,74	1,50
50	0	426	255	3,37	1,95	1,67
50	5	520	282	3,63	2,14	1,84
50	7,2	565	295	3,75	2,23	1,92
50	10	625	312	3,92	2,33	2,01

55	-25	105	145	2,55	0,84	0,72
55	-20	141	165	2,68	1,00	0,86
55	-15	188	186	2,82	1,17	1,01
55	-10	246	210	3,00	1,36	1,17
55	-5	314	235	3,20	1,55	1,34
55	0	393	263	3,44	1,74	1,50
55	5	483	292	3,72	1,93	1,66
55	7,2	526	305	3,85	2,01	1,72
55	10	584	323	4,03	2,10	1,81

60	-25	93	145	2,55	0,75	0,64
60	-20	125	166	2,69	0,88	0,75
60	-15	168	190	2,85	1,03	0,89
60	-10	222	215	3,04	1,20	1,03
60	-5	286	242	3,26	1,38	1,18
60	0	361	270	3,51	1,55	1,33
60	5	446	301	3,81	1,72	1,48
60	7,2	487	315	3,95	1,80	1,55
60	10	542	333	4,15	1,89	1,63

65	-25	82	145	2,55	0,66	0,56
65	-20	109	168	2,70	0,76	0,65
65	-15	148	193	2,87	0,89	0,77
65	-10	197	219	3,07	1,05	0,90
65	-5	257	248	3,31	1,21	1,04
65	0	328	278	3,59	1,37	1,18
65	5	409	310	3,90	1,53	1,32
65	7,2	448	325	4,06	1,60	1,38
65	10	501	344	4,27	1,69	1,45

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	151	146	2,55	1,03	0,89
40	-20	204	161	2,65	1,27	1,10
40	-15	269	178	2,77	1,51	1,30
40	-10	345	197	2,90	1,75	1,51
40	-5	432	218	3,06	1,98	1,71
40	0	531	241	3,25	2,20	1,90
40	5	640	265	3,47	2,41	2,08
40	7,2	692	277	3,57	2,50	2,16
40	10	761	292	3,72	2,61	2,25

45	-25	138	146	2,55	0,94	0,82
45	-20	186	163	2,66	1,14	0,99
45	-15	246	181	2,79	1,36	1,17
45	-10	317	202	2,94	1,57	1,36
45	-5	399	224	3,11	1,78	1,54
45	0	492	249	3,32	1,98	1,71
45	5	597	275	3,55	2,17	1,88
45	7,2	646	287	3,67	2,25	1,95
45	10	713	303	3,83	2,35	2,03

50	-25	124	146	2,55	0,85	0,74
50	-20	168	164	2,67	1,02	0,88
50	-15	222	184	2,81	1,21	1,04
50	-10	288	206	2,97	1,40	1,21
50	-5	366	230	3,16	1,59	1,37
50	0	454	256	3,39	1,77	1,53
50	5	554	284	3,64	1,95	1,68
50	7,2	601	297	3,77	2,02	1,75
50	10	664	314	3,94	2,12	1,83

55	-25	111	146	2,55	0,76	0,66
55	-20	150	166	2,68	0,90	0,78
55	-15	199	188	2,83	1,06	0,92
55	-10	260	211	3,01	1,23	1,06
55	-5	332	237	3,22	1,40	1,21
55	0	416	264	3,46	1,57	1,36
55	5	510	293	3,73	1,74	1,50
55	7,2	556	307	3,87	1,81	1,56
55	10	616	325	4,05	1,90	1,64

60	-25	98	146	2,55	0,67	0,58
60	-20	131	167	2,69	0,79	0,68
60	-15	176	191	2,85	0,92	0,80
60	-10	232	216	3,05	1,07	0,93
60	-5	299	243	3,27	1,23	1,06
60	0	377	272	3,53	1,39	1,20
60	5	467	303	3,83	1,54	1,33
60	7,2	510	317	3,97	1,61	1,39
60	10	568	336	4,17	1,69	1,46

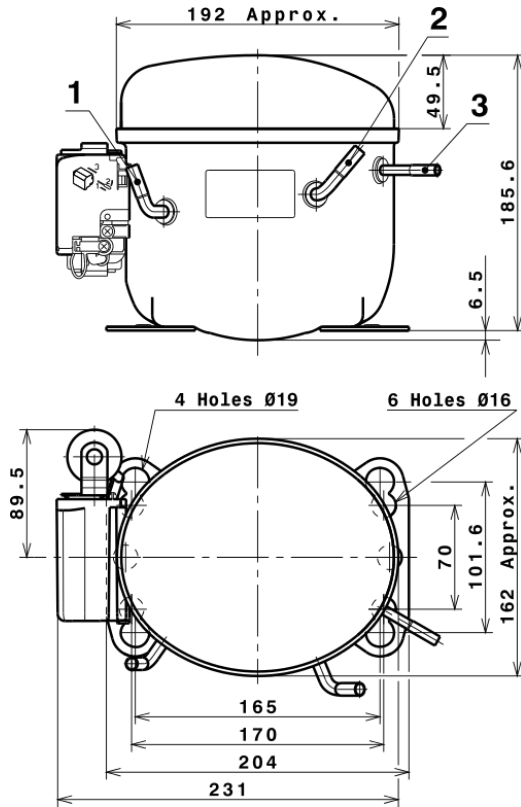
65	-25	85	146	2,55	0,58	0,50
65	-20	113	169	2,70	0,67	0,58
65	-15	153	194	2,88	0,79	0,68
65	-10	204	221	3,08	0,92	0,80
65	-5	266	249	3,32	1,07	0,92
65	0	339	280	3,60	1,21	1,05
65	5	424	312	3,92	1,36	1,17
65	7,2	465	327	4,08	1,42	1,23
65	10	520	347	4,29	1,50	1,30

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	838,9759830538	182,7491116677	2,6445557177	14,218766220456
2	28,8785552243	2,3519145314	0,0193125972	0,54509169021565
3	-7,8800444985	1,6066394149	0,0161052583	-0,063993350119975
4	0,2208409989	0,0401018795	0,0006607312	0,0063606527963093
5	-0,2083905976	0,0642655766	0,0006442103	-0,0012509726150651

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

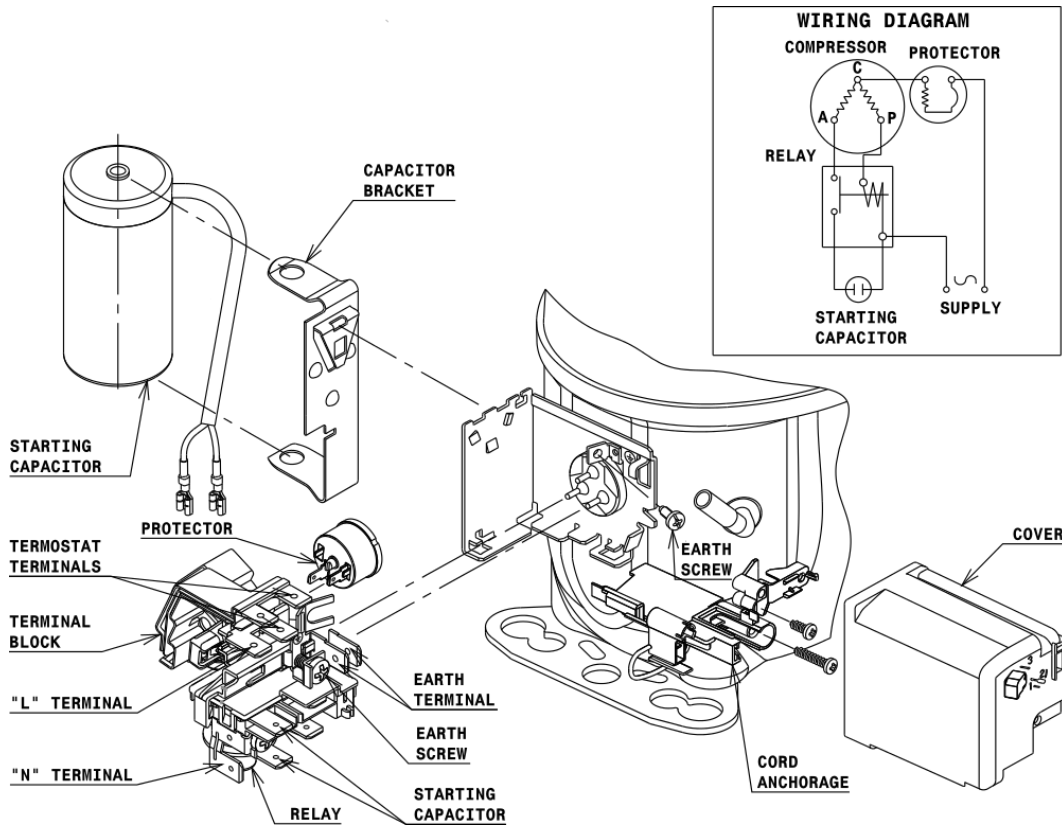


DESIGNATION INTERNAL DIAM.

DESIGNATION	INTERNAL DIAM.
1 Suction	6,5 mm
2 Service	6,5 mm
3 Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (165x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R134a HMBP

