

Technical Data Sheet

Compressor model **GLY60RAa**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	5,98 cm ³	Nominal Power	1/5 hp
Refrigerant	R134a	Diameter	20,88 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	17,47 mm	Voltage range	187-264 V
Expansion	Capillar/Valve	Net Weight	10,47 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)	8,00 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	2,50 A
				Main W. resist. at 25°C	12,45 Ω
				Start W. resist. at 25°C	23,05 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	500 kCal/h	485 W
COP	2,36 W/W	2,04 W/W
EER	2,03 kCal/Wh	1,76 kCal/Wh
Input Power	246 W	238 W
Current	1,44 A	1,41 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	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V		
Relay	Option 1		
Reference	2014 118.		
Pick-Up	3,75 A		
Drop-Out	3,20 A		
Protector	Option 1	Option 2	
Reference	T0069	MRP63AMK	
Current	7,10 A	7,10 A	
Time check	7,5-14 seg	7,5-14 seg	
Disc temp. (Open/Close)	105,00 / 62,00 °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	126	109	0,97	1,34	1,16
40	-20	173	123	1,01	1,63	1,40
40	-15	229	138	1,05	1,93	1,66
40	-10	295	154	1,10	2,24	1,92
40	-5	372	169	1,15	2,55	2,20
40	0	458	186	1,20	2,87	2,47
40	5	554	202	1,27	3,19	2,74
40	7,2	600	210	1,29	3,32	2,86
40	10	661	220	1,33	3,50	3,01

45	-25	117	111	0,97	1,23	1,06
45	-20	160	127	1,02	1,47	1,26
45	-15	213	143	1,06	1,73	1,49
45	-10	275	160	1,12	2,00	1,72
45	-5	348	177	1,18	2,28	1,96
45	0	430	195	1,24	2,56	2,20
45	5	523	214	1,31	2,84	2,45
45	7,2	567	222	1,34	2,97	2,55
45	10	625	233	1,38	3,13	2,69

50	-25	109	112	0,98	1,13	0,97
50	-20	148	130	1,02	1,32	1,14
50	-15	196	148	1,08	1,54	1,33
50	-10	255	167	1,14	1,78	1,53
50	-5	324	186	1,20	2,03	1,75
50	0	403	205	1,28	2,28	1,96
50	5	491	225	1,35	2,54	2,18
50	7,2	533	234	1,39	2,65	2,28
50	10	590	246	1,44	2,79	2,40

55	-25	100	114	0,98	1,02	0,88
55	-20	135	133	1,03	1,18	1,01
55	-15	180	153	1,09	1,37	1,18
55	-10	235	173	1,16	1,58	1,36
55	-5	300	194	1,23	1,80	1,55
55	0	375	215	1,31	2,03	1,75
55	5	460	236	1,40	2,26	1,94
55	7,2	500	246	1,44	2,36	2,03
55	10	554	258	1,49	2,49	2,14

60	-25	91	116	0,98	0,92	0,79
60	-20	123	136	1,04	1,04	0,90
60	-15	164	158	1,11	1,21	1,04
60	-10	215	179	1,18	1,39	1,20
60	-5	276	202	1,26	1,59	1,37
60	0	347	224	1,35	1,80	1,55
60	5	428	248	1,45	2,01	1,73
60	7,2	467	258	1,49	2,10	1,81
60	10	519	271	1,55	2,22	1,91

65	-25	83	117	0,99	0,82	0,70
65	-20	110	140	1,05	0,92	0,79
65	-15	147	163	1,13	1,05	0,91
65	-10	195	186	1,21	1,22	1,05
65	-5	252	210	1,29	1,40	1,20
65	0	319	234	1,39	1,59	1,36
65	5	396	259	1,50	1,78	1,53
65	7,2	433	270	1,55	1,87	1,60
65	10	483	284	1,61	1,98	1,70

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	136	110	0,97	1,24	1,07
40	-20	186	124	1,01	1,50	1,30
40	-15	248	139	1,05	1,78	1,54
40	-10	319	154	1,10	2,07	1,79
40	-5	401	170	1,15	2,36	2,04
40	0	494	187	1,21	2,64	2,28
40	5	597	204	1,27	2,93	2,53
40	7,2	646	211	1,30	3,06	2,64
40	10	711	221	1,34	3,21	2,78

45	-25	126	111	0,97	1,13	0,98
45	-20	172	127	1,02	1,35	1,17
45	-15	229	144	1,07	1,59	1,37
45	-10	296	161	1,12	1,84	1,59
45	-5	373	178	1,18	2,09	1,81
45	0	461	197	1,24	2,35	2,03
45	5	560	215	1,31	2,60	2,25
45	7,2	606	223	1,35	2,71	2,35
45	10	669	234	1,39	2,86	2,47

50	-25	116	113	0,98	1,03	0,89
50	-20	157	131	1,03	1,21	1,04
50	-15	210	149	1,08	1,41	1,22
50	-10	272	167	1,14	1,63	1,40
50	-5	345	187	1,21	1,85	1,60
50	0	429	206	1,28	2,08	1,80
50	5	523	226	1,36	2,31	1,99
50	7,2	567	236	1,40	2,41	2,08
50	10	627	247	1,44	2,54	2,19

55	-25	106	115	0,98	0,92	0,80
55	-20	143	134	1,04	1,07	0,92
55	-15	190	154	1,10	1,24	1,07
55	-10	249	174	1,16	1,43	1,23
55	-5	317	195	1,24	1,63	1,41
55	0	396	216	1,32	1,83	1,58
55	5	485	238	1,41	2,04	1,76
55	7,2	528	248	1,45	2,13	1,84
55	10	585	260	1,50	2,25	1,94

60	-25	96	116	0,99	0,82	0,71
60	-20	128	137	1,05	0,94	0,81
60	-15	171	159	1,11	1,08	0,93
60	-10	225	180	1,19	1,25	1,08
60	-5	289	203	1,27	1,42	1,23
60	0	363	226	1,36	1,61	1,39
60	5	448	249	1,45	1,80	1,55
60	7,2	489	260	1,50	1,88	1,63
60	10	544	273	1,56	1,99	1,72

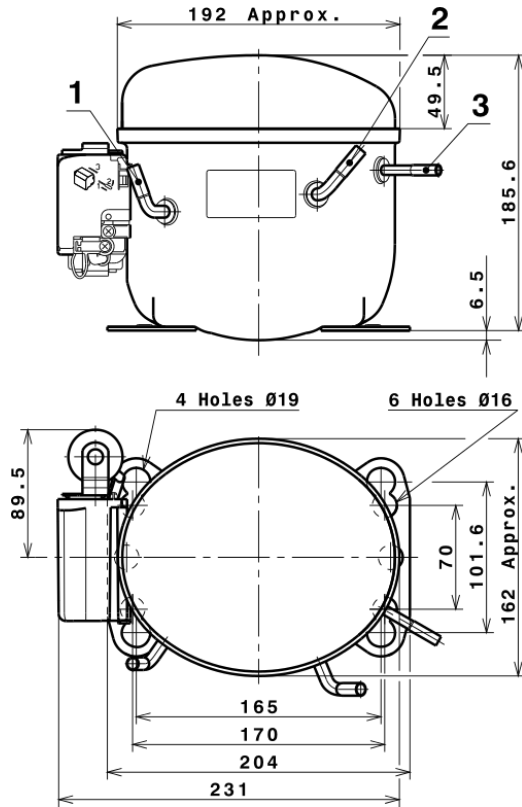
65	-25	86	118	0,99	0,73	0,63
65	-20	114	140	1,06	0,81	0,70
65	-15	152	163	1,13	0,93	0,81
65	-10	201	187	1,21	1,08	0,93
65	-5	261	211	1,30	1,24	1,07
65	0	331	236	1,40	1,40	1,21
65	5	411	261	1,50	1,58	1,36
65	7,2	450	272	1,55	1,65	1,43
65	10	502	286	1,62	1,75	1,52

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	758,0793020597	111,4731660109	0,8895060496	12,625235789743
2	26,8886719687	0,8164267402	0,0017921677	0,50447690442358
3	-6,7590656233	2,0045652451	0,0082076415	-0,044256162421504
4	0,2056986601	0,0116049527	0,0001486026	0,0059365315186087
5	-0,1893423496	0,0664800881	0,0002912121	-0,00097890963429788

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)



Technical Data Sheet

FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø16 holes (170x70 net)



AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a HMBP

