

# Technical Data Sheet

Compressor model **GLY60RAb**  
 Voltage **220-240V 50Hz ~1**  
 Refrigerant **R134a**

## APPLICATION

## COMPRESSOR

## MOTOR

Application	High-Medium Back Pressure	Displacement	5,98 cm <sup>3</sup>	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	10,58 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	300 cm <sup>3</sup>	Locked Rotor Amps (LRA)	8,50 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

## APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	500 kCal/h	485 W
COP	2,60 W/W	2,24 W/W
EER	2,23 kCal/Wh	1,93 kCal/Wh
Input Power	224 W	217 W
Current	1,13 A	1,10 A



## TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T <sub>e</sub> )	7,2 °C	5,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	46,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	35,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	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		
Run capacitor	4 μF 400 V		
Relay	Option 1		
Reference	2014 118. + NTC15Ω		
Pick-Up	3.80 A		
Drop-Out	3.25 A		
Protector	Option 1	Option 2	
Reference	MRP63AMK	T0069	
Current	7,10 A	7,10 A	
Time check	7,5-14 seg	7,5-14 seg	
Disc temp. (Open/Close)	105,00 / 61,00 °C	105,00 / 62,00 °C	

## ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	126	103	0,64	1,42	1,22
40	-20	173	116	0,69	1,72	1,48
40	-15	229	130	0,74	2,05	1,76
40	-10	295	144	0,80	2,39	2,05
40	-5	372	158	0,85	2,74	2,35
40	0	458	172	0,91	3,09	2,66
40	5	554	187	0,97	3,46	2,97
40	7,2	600	193	1,00	3,62	3,11
40	10	661	201	1,03	3,82	3,28

45	-25	117	104	0,64	1,31	1,13
45	-20	160	119	0,70	1,57	1,35
45	-15	213	134	0,76	1,85	1,59
45	-10	275	149	0,82	2,14	1,84
45	-5	348	165	0,88	2,46	2,11
45	0	430	180	0,94	2,77	2,39
45	5	523	196	1,01	3,10	2,66
45	7,2	567	203	1,04	3,24	2,79
45	10	625	212	1,08	3,42	2,94

50	-25	109	105	0,65	1,20	1,03
50	-20	148	121	0,71	1,41	1,22
50	-15	196	138	0,77	1,66	1,42
50	-10	255	155	0,84	1,92	1,65
50	-5	324	172	0,91	2,20	1,89
50	0	403	189	0,98	2,48	2,13
50	5	491	206	1,05	2,77	2,38
50	7,2	533	214	1,08	2,90	2,50
50	10	590	223	1,13	3,07	2,64

55	-25	100	106	0,65	1,10	0,94
55	-20	135	124	0,72	1,27	1,09
55	-15	180	142	0,79	1,48	1,27
55	-10	235	160	0,86	1,71	1,47
55	-5	300	178	0,94	1,96	1,68
55	0	375	197	1,01	2,21	1,90
55	5	460	216	1,09	2,48	2,13
55	7,2	500	224	1,13	2,60	2,23
55	10	554	235	1,18	2,75	2,36

60	-25	91	107	0,65	0,99	0,85
60	-20	123	126	0,73	1,13	0,97
60	-15	164	146	0,80	1,31	1,12
60	-10	215	165	0,88	1,51	1,30
60	-5	276	185	0,96	1,73	1,49
60	0	347	205	1,05	1,97	1,69
60	5	428	225	1,14	2,21	1,90
60	7,2	467	234	1,18	2,32	1,99
60	10	519	246	1,23	2,46	2,11

65	-25	83	108	0,66	0,89	0,77
65	-20	110	129	0,74	0,99	0,86
65	-15	147	150	0,82	1,15	0,99
65	-10	195	171	0,90	1,33	1,14
65	-5	252	192	0,99	1,53	1,31
65	0	319	213	1,08	1,74	1,50
65	5	396	235	1,18	1,96	1,69
65	7,2	433	245	1,22	2,06	1,77
65	10	483	257	1,28	2,19	1,88

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	136	104	0,64	1,31	1,13
40	-20	186	117	0,69	1,59	1,38
40	-15	248	131	0,74	1,89	1,64
40	-10	319	145	0,80	2,21	1,91
40	-5	401	159	0,86	2,53	2,18
40	0	494	173	0,91	2,85	2,46
40	5	597	188	0,97	3,18	2,75
40	7,2	646	194	1,00	3,32	2,87
40	10	711	203	1,04	3,51	3,03

45	-25	126	105	0,64	1,20	1,04
45	-20	172	120	0,70	1,44	1,24
45	-15	229	135	0,76	1,70	1,47
45	-10	296	150	0,82	1,97	1,70
45	-5	373	166	0,88	2,25	1,95
45	0	461	182	0,95	2,54	2,20
45	5	560	198	1,02	2,83	2,45
45	7,2	606	205	1,05	2,96	2,56
45	10	669	214	1,09	3,13	2,70

50	-25	116	106	0,65	1,10	0,95
50	-20	157	122	0,71	1,29	1,11
50	-15	210	139	0,78	1,51	1,31
50	-10	272	156	0,84	1,75	1,51
50	-5	345	173	0,91	2,00	1,73
50	0	429	190	0,98	2,26	1,95
50	5	523	207	1,06	2,52	2,18
50	7,2	567	215	1,09	2,64	2,28
50	10	627	225	1,13	2,79	2,41

55	-25	106	107	0,65	0,99	0,86
55	-20	143	124	0,72	1,15	0,99
55	-15	190	143	0,79	1,34	1,15
55	-10	249	161	0,86	1,54	1,33
55	-5	317	179	0,94	1,77	1,53
55	0	396	198	1,02	2,00	1,73
55	5	485	217	1,10	2,24	1,93
55	7,2	528	225	1,14	2,34	2,02
55	10	585	236	1,18	2,48	2,14

60	-25	96	108	0,66	0,89	0,77
60	-20	128	127	0,73	1,01	0,87
60	-15	171	147	0,81	1,17	1,01
60	-10	225	166	0,89	1,35	1,17
60	-5	289	186	0,97	1,55	1,34
60	0	363	206	1,05	1,76	1,52
60	5	448	227	1,14	1,98	1,71
60	7,2	489	236	1,18	2,07	1,79
60	10	544	247	1,23	2,20	1,90

65	-25	86	109	0,66	0,79	0,68
65	-20	114	129	0,74	0,88	0,76
65	-15	152	150	0,82	1,01	0,88
65	-10	201	172	0,91	1,17	1,01
65	-5	261	193	1,00	1,35	1,17
65	0	331	215	1,09	1,54	1,33
65	5	411	237	1,19	1,74	1,50
65	7,2	450	246	1,23	1,83	1,58
65	10	502	259	1,29	1,94	1,68

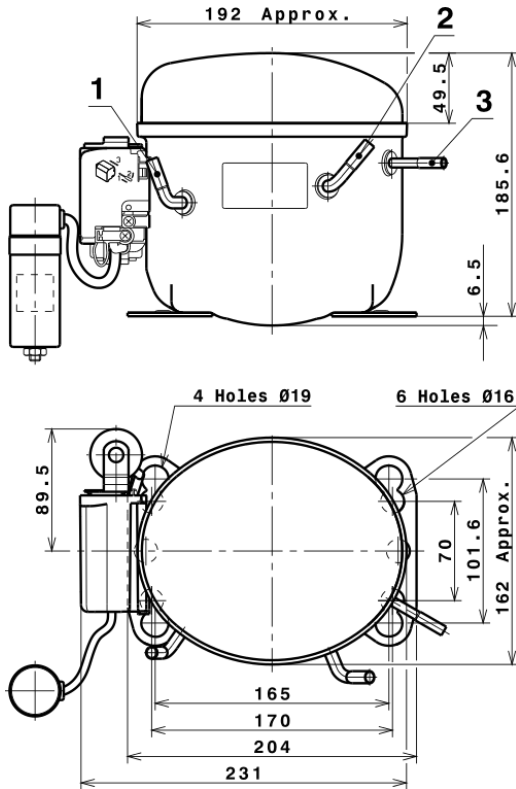
## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	758,0793020597	109,4962957458	0,6337229251	12,625235789743
2	26,8886719687	0,6089470808	0,0021665337	0,50447690442358
3	-6,7590656233	1,7061528304	0,0073963518	-0,044256162421504
4	0,2056986601	0,0053725570	0,0000625466	0,0059365315186087
5	-0,1893423496	0,0600246002	0,0002650585	-0,00097890963429788

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

## COMPRESSOR DIMENSIONS

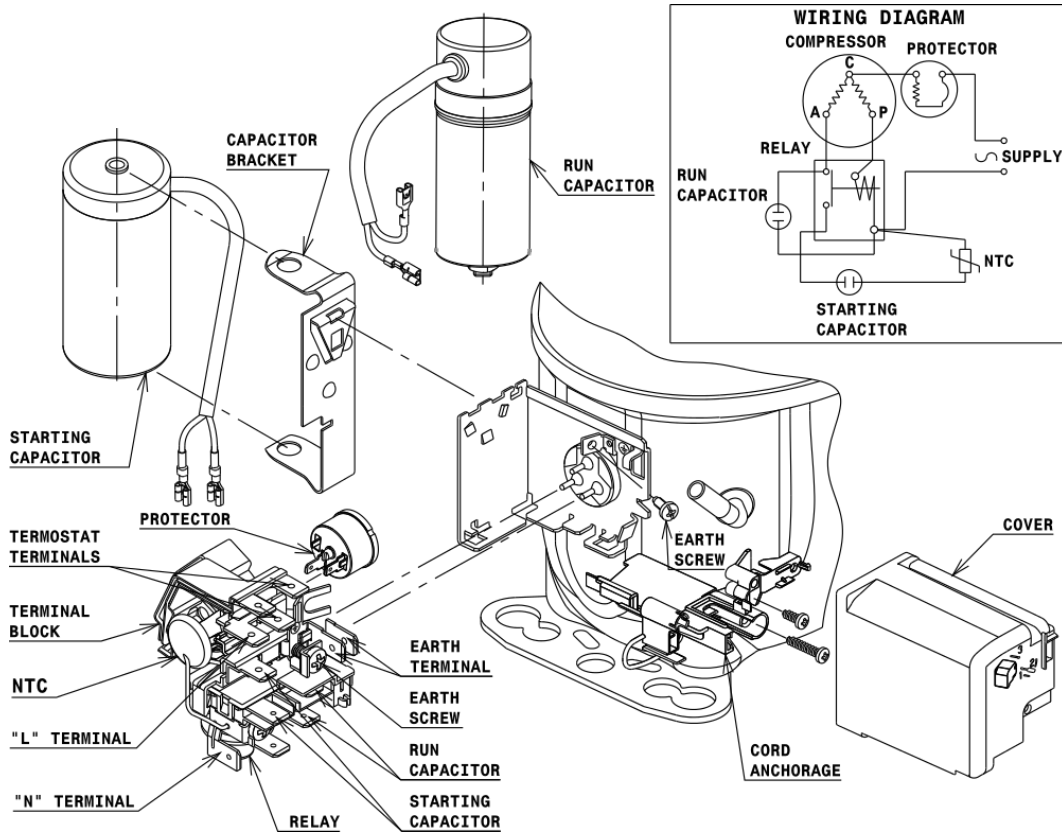


## DESIGNATION INTERNAL DIAM.

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

## WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

### CSR CONNECTION (CURRENT RELAY + NTC) (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

