

Technical Data Sheet

Compressor model **GLY90RDb**
 Voltage **115V 60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	9,09 cm ³	Nominal Power	1/4 hp
Refrigerant	R134a	Diameter	24,29 mm	Voltage/Frequency	115V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,62 mm	Voltage range	98-132 V
Expansion	Capillar/Valve	Net Weight	10,69 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 ³	Locked Rotor Amps (LRA)	29,00 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	8,00 A
				Main W. resist. at 25°C	1,46 Ω
				Start W. resist. at 25°C	7,21 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	900 kCal/h	874 W
COP	2,42 W/W	2,10 W/W
EER	2,08 kCal/Wh	1,81 kCal/Wh
Input Power	432 W	417 W
Current	4,26 A	4,13 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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	200 µF 160 V		
Run capacitor	15 µF 250 V		
Relay	Option 1		
Reference	2014 180. + NTC3Ω		
Pick-Up	16,70 A		
Drop-Out	14,00 A		
Protector	Option 1	Option 2	
Reference	MRA38128	T0535	
Current	17,00 A	17,00 A	
Time check	7,5-14 seg	7,5-14 seg	
Disc temp. (Open/Close)	105,00 / 52,00 °C	105,00 / 52,00 °C	

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	240	198	2,37	1,41	1,21
40	-20	322	222	2,55	1,69	1,45
40	-15	422	248	2,75	1,98	1,71
40	-10	540	275	2,96	2,29	1,97
40	-5	676	303	3,19	2,59	2,23
40	0	829	333	3,43	2,90	2,49
40	5	1.001	365	3,69	3,19	2,74
40	7,2	1.082	379	3,81	3,32	2,85
40	10	1.190	398	3,97	3,48	2,99

45	-25	222	200	2,38	1,29	1,11
45	-20	298	227	2,59	1,53	1,31
45	-15	391	255	2,81	1,79	1,54
45	-10	502	284	3,04	2,06	1,77
45	-5	631	315	3,29	2,33	2,00
45	0	778	347	3,55	2,61	2,24
45	5	943	381	3,83	2,88	2,47
45	7,2	1.021	397	3,96	2,99	2,57
45	10	1.126	417	4,13	3,14	2,70

50	-25	205	203	2,40	1,17	1,01
50	-20	273	231	2,62	1,37	1,18
50	-15	360	262	2,86	1,60	1,38
50	-10	465	294	3,11	1,84	1,58
50	-5	587	327	3,38	2,09	1,80
50	0	727	362	3,67	2,34	2,01
50	5	885	398	3,97	2,59	2,23
50	7,2	961	414	4,11	2,70	2,32
50	10	1.061	436	4,29	2,83	2,44

55	-25	187	205	2,42	1,06	0,91
55	-20	249	236	2,66	1,23	1,05
55	-15	329	269	2,92	1,42	1,22
55	-10	427	303	3,19	1,64	1,41
55	-5	543	339	3,48	1,86	1,60
55	0	676	376	3,79	2,09	1,80
55	5	828	415	4,11	2,32	2,00
55	7,2	900	432	4,26	2,42	2,08
55	10	997	455	4,45	2,55	2,19

60	-25	169	207	2,44	0,95	0,82
60	-20	225	241	2,70	1,09	0,93
60	-15	298	276	2,97	1,26	1,08
60	-10	389	312	3,27	1,45	1,25
60	-5	498	351	3,58	1,65	1,42
60	0	625	390	3,91	1,86	1,60
60	5	770	431	4,25	2,08	1,79
60	7,2	839	450	4,41	2,17	1,87
60	10	933	474	4,62	2,29	1,97

65	-25	152	210	2,46	0,84	0,72
65	-20	200	246	2,73	0,95	0,82
65	-15	267	283	3,03	1,10	0,94
65	-10	352	322	3,34	1,27	1,09
65	-5	454	362	3,67	1,46	1,25
65	0	574	404	4,02	1,65	1,42
65	5	712	448	4,40	1,85	1,59
65	7,2	779	467	4,56	1,94	1,67
65	10	868	493	4,79	2,05	1,76

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	259	199	2,37	1,30	1,12
40	-20	348	223	2,56	1,56	1,35
40	-15	456	249	2,76	1,83	1,58
40	-10	584	276	2,97	2,11	1,83
40	-5	730	305	3,20	2,39	2,07
40	0	894	335	3,45	2,67	2,31
40	5	1.078	367	3,71	2,94	2,54
40	7,2	1.164	381	3,83	3,05	2,64
40	10	1.280	400	3,99	3,20	2,76

45	-25	238	201	2,39	1,18	1,02
45	-20	320	228	2,60	1,40	1,21
45	-15	420	256	2,82	1,64	1,42
45	-10	540	286	3,05	1,89	1,63
45	-5	678	317	3,30	2,14	1,85
45	0	834	349	3,57	2,39	2,06
45	5	1.010	384	3,85	2,63	2,27
45	7,2	1.093	399	3,98	2,74	2,37
45	10	1.204	419	4,15	2,87	2,48

50	-25	218	204	2,41	1,07	0,92
50	-20	292	233	2,63	1,25	1,08
50	-15	384	263	2,87	1,46	1,26
50	-10	496	295	3,13	1,68	1,45
50	-5	626	329	3,40	1,90	1,64
50	0	774	364	3,69	2,13	1,84
50	5	942	400	3,99	2,35	2,03
50	7,2	1.022	417	4,13	2,45	2,12
50	10	1.129	439	4,32	2,57	2,22

55	-25	198	206	2,43	0,96	0,83
55	-20	264	237	2,67	1,11	0,96
55	-15	348	270	2,93	1,29	1,11
55	-10	452	305	3,20	1,48	1,28
55	-5	574	341	3,50	1,68	1,46
55	0	715	378	3,81	1,89	1,63
55	5	874	417	4,13	2,10	1,81
55	7,2	951	435	4,28	2,19	1,89
55	10	1.053	458	4,48	2,30	1,99

60	-25	178	208	2,45	0,85	0,74
60	-20	236	242	2,71	0,97	0,84
60	-15	312	277	2,99	1,13	0,97
60	-10	408	314	3,28	1,30	1,12
60	-5	522	353	3,59	1,48	1,28
60	0	655	392	3,93	1,67	1,44
60	5	807	434	4,28	1,86	1,61
60	7,2	879	453	4,44	1,94	1,68
60	10	977	477	4,65	2,05	1,77

65	-25	157	211	2,46	0,75	0,65
65	-20	207	247	2,74	0,84	0,73
65	-15	276	285	3,04	0,97	0,84
65	-10	364	324	3,36	1,12	0,97
65	-5	470	365	3,69	1,29	1,11
65	0	595	407	4,05	1,46	1,26
65	5	739	451	4,42	1,64	1,42
65	7,2	808	470	4,59	1,72	1,48
65	10	901	496	4,81	1,82	1,57

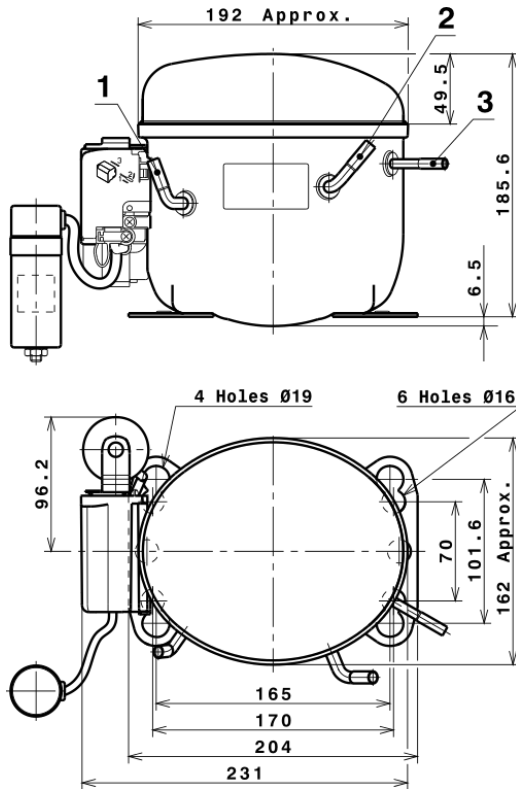
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.377,9380743059	226,0452163576	2,5185663475	23,010803005504
2	47,6287592930	2,5152403843	0,0197384252	0,89329104431937
3	-12,3771309198	2,9456334258	0,0249359798	-0,083994214857782
4	0,3692124791	0,0338155354	0,0003776047	0,010653508694683
5	-0,3312109930	0,0986418067	0,0008501805	-0,0016081483163704

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

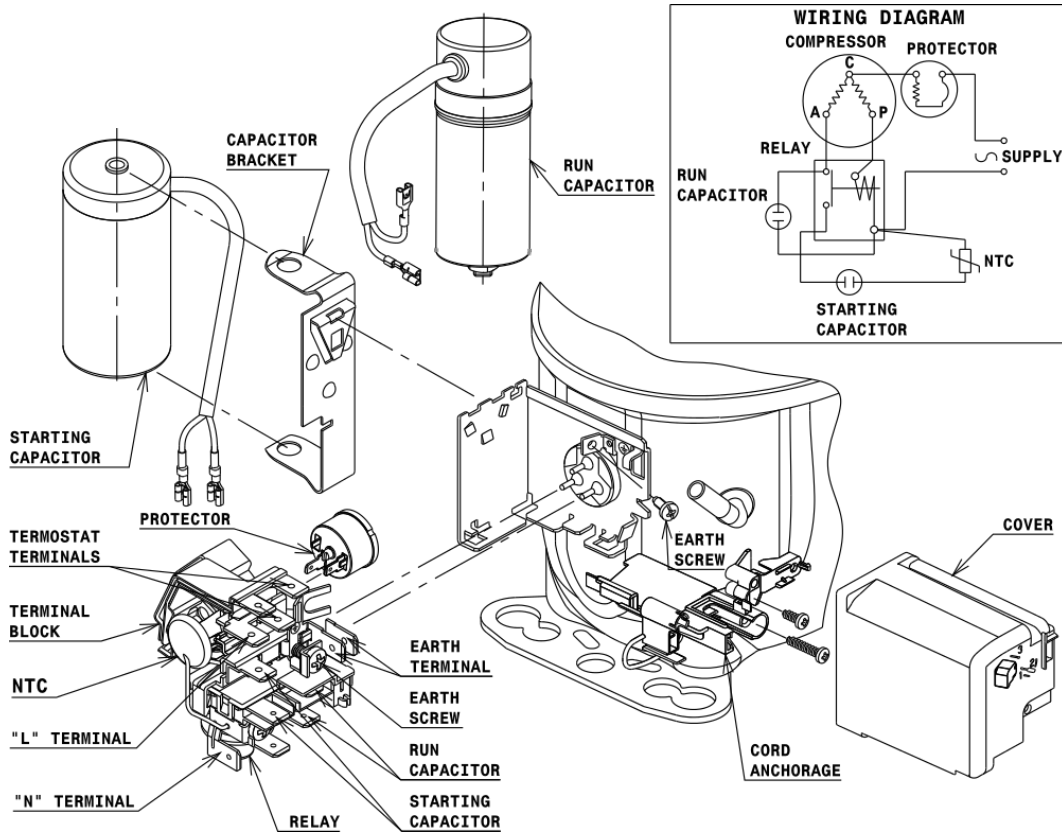
COMPRESSOR DIMENSIONS



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

