

Technical Data Sheet

Compressor model **GLY80RDb**
 Voltage **115V 60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	8,10 cm ³	Nominal Power	1/5 hp
Refrigerant	R134a	Diameter	24,29 mm	Voltage/Frequency	115V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	17,47 mm	Voltage range	98-132 V
Expansion	Capillar/Valve	Net Weight	9,85 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	295 cm ³	Locked Rotor Amps (LRA)	28,60 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	6,40 A
				Main W. resist. at 25°C	1,70 Ω
				Start W. resist. at 25°C	6,80 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	800 kCal/h	775 W
COP	2,51 W/W	2,17 W/W
EER	2,16 kCal/Wh	1,87 kCal/Wh
Input Power	370 W	357 W
Current	3,60 A	3,50 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 170. + NTC3Ω			
Pick-Up	12,20 A			
Drop-Out	10,20 A			
Protector	Option 1			
Reference	T0253			
Current	15,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	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	210	177	2,05	1,38	1,19
40	-20	278	196	2,20	1,65	1,42
40	-15	364	216	2,37	1,96	1,68
40	-10	467	238	2,54	2,28	1,96
40	-5	586	261	2,73	2,61	2,24
40	0	723	286	2,93	2,95	2,53
40	5	877	311	3,13	3,28	2,82
40	7,2	950	323	3,23	3,42	2,94
40	10	1.048	338	3,35	3,60	3,10

45	-25	193	177	2,05	1,27	1,09
45	-20	257	198	2,22	1,50	1,29
45	-15	337	221	2,41	1,77	1,52
45	-10	434	245	2,60	2,06	1,77
45	-5	549	271	2,81	2,36	2,03
45	0	680	298	3,02	2,66	2,29
45	5	829	326	3,25	2,96	2,54
45	7,2	900	339	3,35	3,09	2,66
45	10	995	355	3,48	3,26	2,80

50	-25	177	177	2,05	1,16	1,00
50	-20	235	201	2,24	1,36	1,17
50	-15	310	226	2,45	1,59	1,37
50	-10	402	253	2,66	1,85	1,59
50	-5	512	281	2,89	2,12	1,82
50	0	638	310	3,12	2,39	2,06
50	5	781	340	3,36	2,67	2,30
50	7,2	850	354	3,48	2,79	2,40
50	10	942	372	3,62	2,94	2,53

55	-25	160	177	2,05	1,05	0,90
55	-20	213	203	2,26	1,22	1,05
55	-15	283	231	2,49	1,42	1,22
55	-10	370	260	2,72	1,66	1,42
55	-5	474	290	2,96	1,90	1,63
55	0	595	322	3,22	2,15	1,85
55	5	734	355	3,48	2,40	2,07
55	7,2	800	370	3,60	2,51	2,16
55	10	889	389	3,75	2,66	2,28

60	-25	143	177	2,05	0,94	0,81
60	-20	191	206	2,28	1,08	0,93
60	-15	256	236	2,53	1,26	1,08
60	-10	338	267	2,78	1,47	1,26
60	-5	437	300	3,04	1,69	1,46
60	0	553	334	3,31	1,92	1,65
60	5	686	370	3,60	2,16	1,86
60	7,2	750	386	3,72	2,26	1,94
60	10	836	406	3,89	2,39	2,06

65	-25	127	177	2,05	0,83	0,72
65	-20	169	208	2,30	0,95	0,81
65	-15	229	241	2,56	1,11	0,95
65	-10	306	275	2,84	1,29	1,11
65	-5	399	310	3,12	1,50	1,29
65	0	510	346	3,41	1,71	1,47
65	5	638	384	3,71	1,93	1,66
65	7,2	700	401	3,85	2,03	1,74
65	10	783	423	4,02	2,15	1,85

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	226	178	2,06	1,27	1,10
40	-20	301	197	2,21	1,53	1,32
40	-15	394	218	2,38	1,81	1,56
40	-10	504	239	2,55	2,11	1,82
40	-5	633	263	2,74	2,41	2,08
40	0	780	287	2,94	2,71	2,34
40	5	944	313	3,15	3,01	2,60
40	7,2	1.022	325	3,24	3,14	2,72
40	10	1.127	341	3,37	3,31	2,86

45	-25	207	178	2,06	1,16	1,01
45	-20	276	200	2,23	1,38	1,19
45	-15	362	222	2,42	1,63	1,41
45	-10	467	247	2,61	1,89	1,63
45	-5	589	272	2,82	2,16	1,87
45	0	729	300	3,04	2,44	2,10
45	5	888	328	3,26	2,71	2,34
45	7,2	963	341	3,37	2,83	2,44
45	10	1.064	358	3,50	2,98	2,57

50	-25	188	178	2,06	1,06	0,91
50	-20	251	202	2,25	1,24	1,07
50	-15	331	227	2,46	1,45	1,26
50	-10	429	254	2,67	1,69	1,46
50	-5	545	282	2,90	1,93	1,67
50	0	679	312	3,14	2,18	1,88
50	5	831	343	3,38	2,43	2,10
50	7,2	904	357	3,49	2,54	2,19
50	10	1.002	375	3,64	2,67	2,31

55	-25	169	178	2,06	0,95	0,82
55	-20	225	204	2,27	1,10	0,95
55	-15	299	232	2,50	1,29	1,11
55	-10	391	261	2,73	1,50	1,29
55	-5	501	292	2,98	1,72	1,48
55	0	629	324	3,23	1,94	1,68
55	5	775	357	3,50	2,17	1,87
55	7,2	845	372	3,62	2,27	1,96
55	10	939	392	3,77	2,40	2,07

60	-25	150	178	2,06	0,85	0,73
60	-20	200	207	2,29	0,97	0,84
60	-15	268	237	2,54	1,13	0,98
60	-10	354	269	2,79	1,32	1,14
60	-5	457	302	3,06	1,52	1,31
60	0	579	336	3,33	1,72	1,49
60	5	719	372	3,62	1,93	1,67
60	7,2	786	388	3,74	2,02	1,75
60	10	876	409	3,91	2,14	1,85

65	-25	131	178	2,06	0,74	0,64
65	-20	175	209	2,31	0,84	0,72
65	-15	236	242	2,58	0,98	0,84
65	-10	316	276	2,85	1,14	0,99
65	-5	413	312	3,13	1,33	1,15
65	0	529	348	3,43	1,52	1,31
65	5	662	387	3,73	1,71	1,48
65	7,2	727	404	3,87	1,80	1,55
65	10	814	426	4,05	1,91	1,65

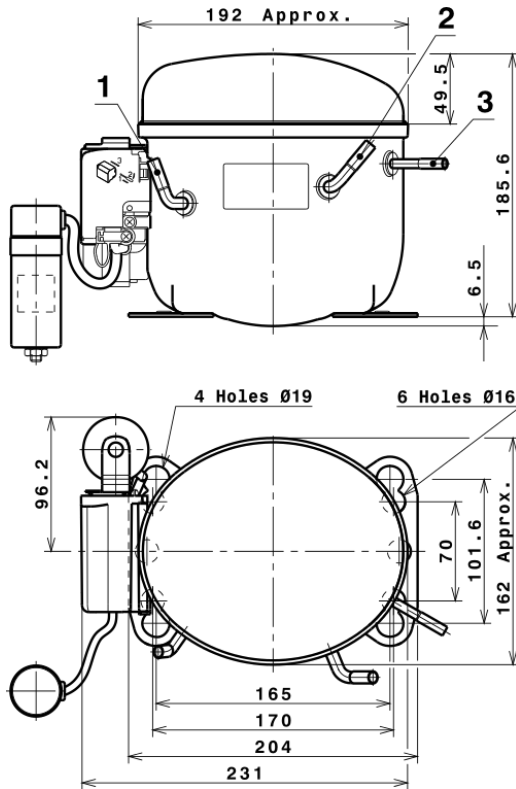
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.185,6603943103	194,0547244355	2,1977114248	19,56022155087
2	41,2259118839	1,2373047470	0,0099892729	0,76841833937459
3	-10,3971769642	2,5170684167	0,0200544968	-0,061204073630559
4	0,3530814515	0,0300461909	0,0002267614	0,010119769703703
5	-0,2625383909	0,1006827367	0,0008021799	-0,00066072467343889

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

COMPRESSOR DIMENSIONS

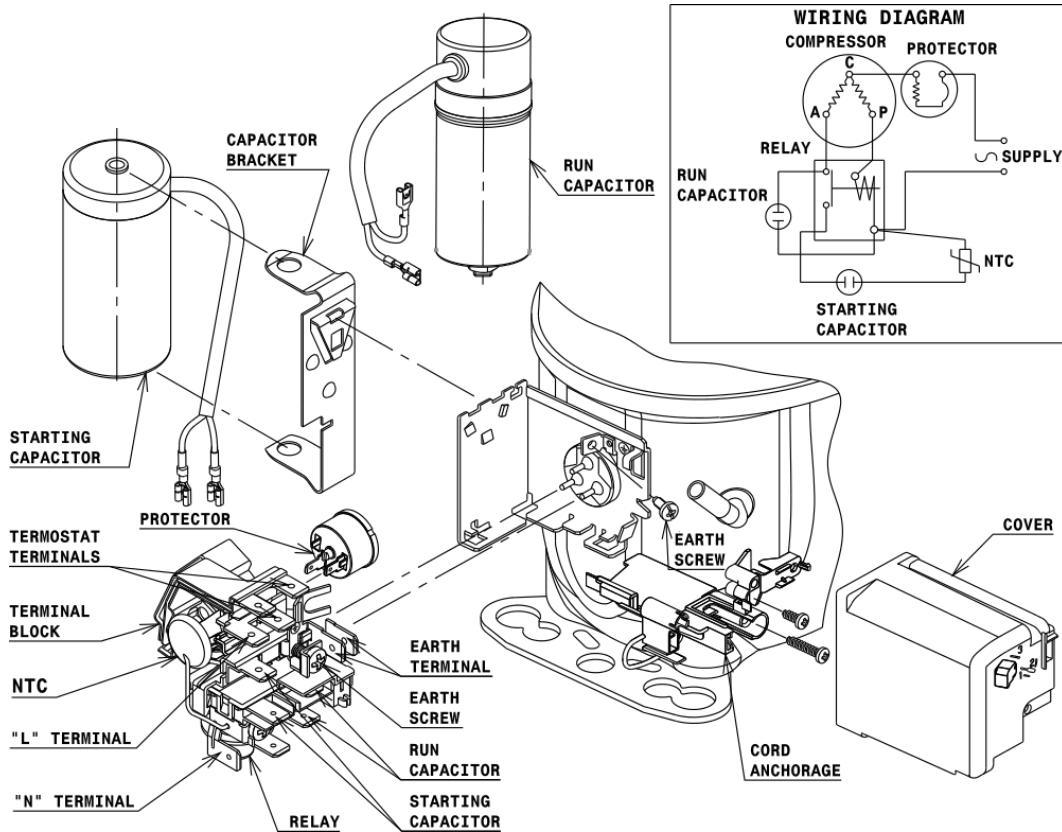


DESIGNATION INTERNAL DIAM.

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)

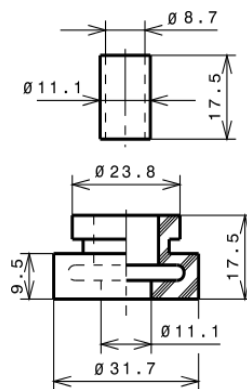
STANDARD

Ø16 holes (170x70 net)



AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a HMBP

