

Technical Data Sheet

Compressor model **NLY75RRb**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R290**

APPLICATION		COMPRESSOR		MOTOR	
Application	High-Medium Back Pressure	Displacement	7,57 cm ³	Nominal Power	3/8 hp
Refrigerant	R290	Diameter	25,40 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	14,92 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	10,17 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	400 cm ³	Locked Rotor Amps (LRA)	31,00 A
				Max. Cont. Current (MCC)	8,00 A
				Main W. resist. at 25°C	1,65 Ω
				Start W. resist. at 25°C	6,70 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	1.062 kCal/h	1.034 W
COP	2,76 W/W	2,36 W/W
EER	2,38 kCal/Wh	2,04 kCal/Wh
Input Power	447 W	438 W
Current	4,41 A	4,34 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	150 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			
Reference	T0534			
Current	20,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °C			

This product is approved for R290 and R600a regarding explosion safety according to standard EN 60335-1 and EN 60335-2-34

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	354	264	3,03	1,56	1,34
40	-20	442	284	3,17	1,81	1,55
40	-15	548	304	3,31	2,10	1,80
40	-10	672	322	3,45	2,43	2,09
40	-5	815	340	3,58	2,79	2,40
40	0	976	357	3,71	3,18	2,73
40	5	1.156	374	3,84	3,59	3,09
40	7,2	1.241	381	3,89	3,79	3,26
40	10	1.354	390	3,96	4,04	3,47

45	-25	324	264	3,03	1,43	1,23
45	-20	407	288	3,20	1,65	1,42
45	-15	509	310	3,36	1,91	1,64
45	-10	628	333	3,53	2,20	1,89
45	-5	767	354	3,69	2,52	2,17
45	0	923	375	3,84	2,87	2,47
45	5	1.098	394	4,00	3,24	2,78
45	7,2	1.181	403	4,06	3,41	2,93
45	10	1.292	414	4,15	3,63	3,12

50	-25	294	264	3,03	1,30	1,11
50	-20	373	291	3,22	1,49	1,28
50	-15	469	317	3,41	1,72	1,48
50	-10	585	343	3,60	1,98	1,71
50	-5	718	368	3,79	2,27	1,95
50	0	870	392	3,97	2,58	2,22
50	5	1.041	415	4,16	2,92	2,51
50	7,2	1.122	425	4,24	3,07	2,64
50	10	1.229	438	4,33	3,27	2,81

55	-25	264	264	3,03	1,16	1,00
55	-20	338	294	3,25	1,34	1,15
55	-15	430	324	3,46	1,54	1,33
55	-10	541	353	3,68	1,78	1,53
55	-5	670	381	3,89	2,04	1,76
55	0	817	409	4,11	2,33	2,00
55	5	983	435	4,32	2,63	2,26
55	7,2	1.062	447	4,41	2,76	2,38
55	10	1.167	461	4,53	2,94	2,53

60	-25	234	264	3,03	1,03	0,89
60	-20	303	298	3,27	1,18	1,02
60	-15	391	331	3,51	1,37	1,18
60	-10	497	363	3,76	1,59	1,37
60	-5	622	395	4,00	1,83	1,57
60	0	765	426	4,24	2,09	1,80
60	5	926	456	4,48	2,36	2,03
60	7,2	1.003	469	4,59	2,49	2,14
60	10	1.105	485	4,72	2,65	2,28

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	381	265	3,04	1,43	1,24
40	-20	476	286	3,18	1,67	1,44
40	-15	591	305	3,33	1,94	1,67
40	-10	725	324	3,46	2,24	1,93
40	-5	879	342	3,60	2,57	2,22
40	0	1.051	360	3,73	2,92	2,52
40	5	1.243	376	3,86	3,30	2,85
40	7,2	1.333	384	3,91	3,48	3,00
40	10	1.454	392	3,98	3,70	3,20

45	-25	347	265	3,04	1,31	1,13
45	-20	436	289	3,21	1,51	1,30
45	-15	545	312	3,38	1,75	1,51
45	-10	674	334	3,54	2,01	1,74
45	-5	821	356	3,70	2,31	1,99
45	0	987	377	3,86	2,62	2,26
45	5	1.173	397	4,02	2,95	2,55
45	7,2	1.261	406	4,08	3,11	2,69
45	10	1.378	417	4,17	3,31	2,86

50	-25	312	265	3,04	1,18	1,02
50	-20	396	293	3,23	1,35	1,17
50	-15	499	319	3,43	1,57	1,35
50	-10	622	345	3,62	1,80	1,56
50	-5	763	370	3,81	2,06	1,78
50	0	924	394	3,99	2,34	2,03
50	5	1.104	418	4,18	2,64	2,28
50	7,2	1.189	428	4,26	2,78	2,40
50	10	1.303	441	4,36	2,96	2,55

55	-25	278	265	3,04	1,05	0,91
55	-20	356	296	3,26	1,20	1,04
55	-15	454	326	3,48	1,39	1,20
55	-10	570	355	3,70	1,61	1,39
55	-5	705	384	3,91	1,84	1,59
55	0	860	411	4,13	2,09	1,81
55	5	1.034	438	4,34	2,36	2,04
55	7,2	1.117	450	4,43	2,48	2,14
55	10	1.227	465	4,55	2,64	2,28

60	-25	244	265	3,04	0,92	0,80
60	-20	316	299	3,28	1,06	0,91
60	-15	408	333	3,53	1,22	1,06
60	-10	518	365	3,77	1,42	1,22
60	-5	648	397	4,02	1,63	1,41
60	0	796	428	4,26	1,86	1,61
60	5	964	459	4,51	2,10	1,82
60	7,2	1.044	472	4,61	2,21	1,91
60	10	1.152	489	4,75	2,36	2,04

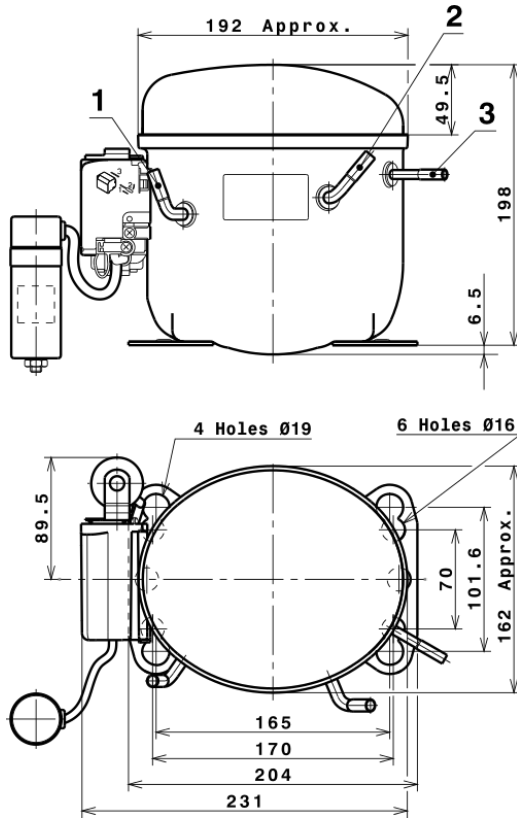
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.566,6157191943	227,7832212039	2,6629511109	13,40931346946
2	46,1534033176	-2,0520829811	-0,0168723954	0,43796404947208
3	-13,2694723846	3,5391265032	0,0282057600	-0,030566716660663
4	0,3764651908	-0,0121230646	-0,0000023539	0,0059379120459767
5	-0,2559788932	0,1415650601	0,0011282304	0,00061207202762091

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

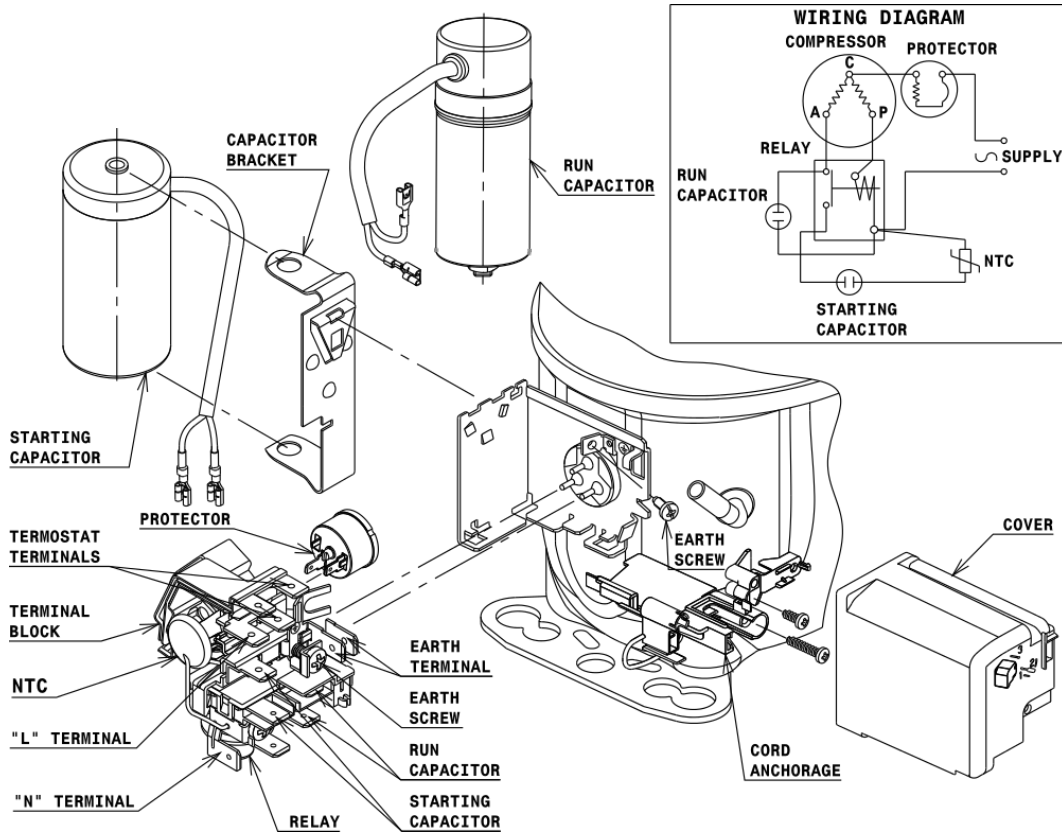
COMPRESSOR DIMENSIONS



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 R290 HMBP

