

Technical Data Sheet

Compressor model **NLY75NGb**
Voltage **200-220/220-230V 50/60Hz ~1**
Refrigerant **R290**

APPLICATION

COMPRESSOR

MOTOR

Application	Low-Medium Back Pressure	Displacement	7,36 cm ³	Nominal Power	1/3 hp
Refrigerant	R290	Diameter	24,27 mm	Voltage/Frequency	220-230V 60Hz
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	15,90 mm	Voltage range	187-253 V
Expansion	Capillar/Valve	Net Weight	10,51 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	350 cm ³	Locked Rotor Amps (LRA)	13,00 A
				Max. Cont. Current (MCC)	3,00 A
				Main W. resist. at 25°C	8,62 Ω
				Start W. resist. at 25°C	11,60 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	316 kCal/h	271 W
COP	1,45 W/W	1,11 W/W
EER	1,24 kCal/Wh	0,96 kCal/Wh
Input Power	254 W	244 W
Current	1,15 A	1,11 A

TEST CYCLE CONDITIONS

	ASHRAE LMBP (B)	CECOMAF LMBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	64- 77 µF 330 V			
Run capacitor	6 µF 400 V			
Relay	Option 1			
Reference	2014 138. + NTC15Ω			
Pick-Up	6.10 A			
Drop-Out	5.20 A			
Protector	Option 1			
Reference	T0266			
Current	11,00 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	-40	144	164	0,75	1,02	0,87
40	-35	190	184	0,84	1,20	1,03
40	-30	250	206	0,94	1,41	1,22
40	-25	325	229	1,04	1,65	1,42
40	-23,3	353	237	1,07	1,73	1,49
40	-20	414	253	1,15	1,90	1,63
40	-15	517	280	1,26	2,15	1,85
40	-10	634	307	1,39	2,40	2,07
40	-5	766	336	1,51	2,65	2,28
40	0	912	367	1,65	2,89	2,49

45	-40	135	164	0,75	0,96	0,82
45	-35	180	186	0,85	1,13	0,97
45	-30	239	209	0,95	1,33	1,14
45	-25	313	234	1,06	1,55	1,34
45	-23,3	341	243	1,10	1,63	1,40
45	-20	400	260	1,18	1,79	1,54
45	-15	502	288	1,30	2,03	1,74
45	-10	619	317	1,43	2,27	1,95
45	-5	749	348	1,57	2,51	2,15
45	0	894	380	1,71	2,74	2,35

50	-40	127	164	0,75	0,90	0,77
50	-35	170	188	0,85	1,06	0,91
50	-30	228	213	0,97	1,25	1,07
50	-25	301	239	1,08	1,46	1,26
50	-23,3	328	248	1,12	1,54	1,32
50	-20	387	267	1,21	1,69	1,45
50	-15	488	296	1,34	1,91	1,65
50	-10	603	327	1,48	2,14	1,84
50	-5	732	360	1,62	2,37	2,04
50	0	876	394	1,77	2,59	2,23

55	-40	118	164	0,75	0,84	0,72
55	-35	161	189	0,86	0,99	0,85
55	-30	217	216	0,98	1,17	1,01
55	-25	289	244	1,11	1,38	1,18
55	-23,3	316	254	1,15	1,45	1,24
55	-20	374	274	1,24	1,59	1,37
55	-15	474	305	1,38	1,81	1,55
55	-10	587	337	1,52	2,02	1,74
55	-5	716	371	1,67	2,24	1,93
55	0	858	407	1,83	2,45	2,11

60	-40	110	164	0,75	0,78	0,67
60	-35	151	191	0,87	0,92	0,79
60	-30	207	219	1,00	1,10	0,94
60	-25	277	249	1,13	1,29	1,11
60	-23,3	304	260	1,18	1,36	1,17
60	-20	361	280	1,27	1,50	1,29
60	-15	459	313	1,41	1,70	1,47
60	-10	572	348	1,57	1,91	1,65
60	-5	699	383	1,72	2,12	1,82
60	0	840	421	1,89	2,32	2,00

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	155	164	0,75	0,95	0,82
40	-35	213	184	0,84	1,16	1,00
40	-30	285	206	0,94	1,38	1,20
40	-25	369	229	1,04	1,61	1,39
40	-23,3	401	237	1,07	1,69	1,46
40	-20	467	253	1,15	1,84	1,59
40	-15	578	280	1,26	2,07	1,79
40	-10	702	307	1,39	2,29	1,98
40	-5	839	336	1,51	2,50	2,16
40	0	990	367	1,65	2,70	2,33

45	-40	141	164	0,75	0,86	0,74
45	-35	193	186	0,85	1,04	0,90
45	-30	258	209	0,95	1,23	1,07
45	-25	337	234	1,06	1,44	1,24
45	-23,3	366	243	1,10	1,51	1,30
45	-20	428	260	1,18	1,65	1,42
45	-15	533	288	1,30	1,85	1,60
45	-10	652	317	1,43	2,05	1,77
45	-5	783	348	1,57	2,25	1,94
45	0	927	380	1,71	2,44	2,11

50	-40	126	164	0,75	0,77	0,66
50	-35	172	188	0,85	0,92	0,79
50	-30	231	213	0,97	1,09	0,94
50	-25	304	239	1,08	1,27	1,10
50	-23,3	332	248	1,12	1,34	1,15
50	-20	390	267	1,21	1,46	1,26
50	-15	489	296	1,34	1,65	1,42
50	-10	601	327	1,48	1,84	1,59
50	-5	726	360	1,62	2,02	1,75
50	0	865	394	1,77	2,20	1,90

55	-40	111	164	0,75	0,68	0,59
55	-35	151	189	0,86	0,80	0,69
55	-30	205	216	0,98	0,95	0,82
55	-25	271	244	1,11	1,11	0,96
55	-23,3	297	254	1,15	1,17	1,01
55	-20	351	274	1,24	1,28	1,11
55	-15	444	305	1,38	1,46	1,26
55	-10	550	337	1,52	1,63	1,41
55	-5	670	371	1,67	1,80	1,56
55	0	802	407	1,83	1,97	1,70

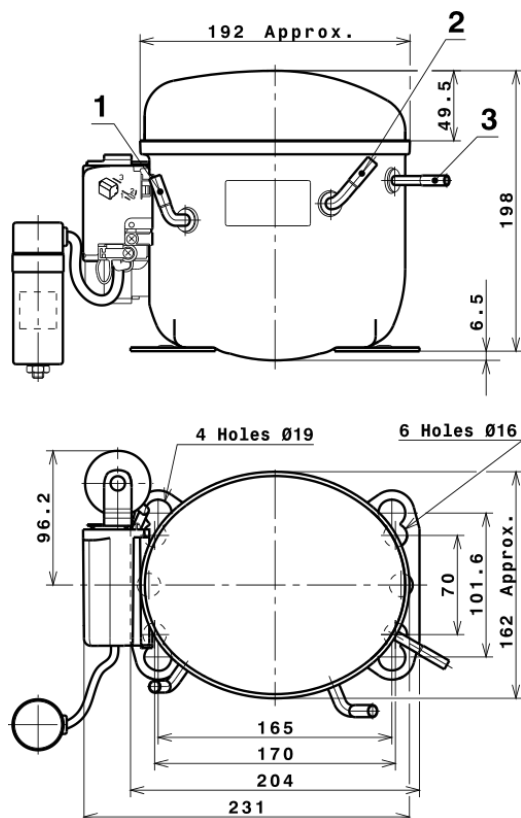
60	-40	96	164	0,75	0,59	0,51
60	-35	131	191	0,87	0,68	0,59
60	-30	178	219	1,00	0,81	0,70
60	-25	239	249	1,13	0,96	0,83
60	-23,3	262	260	1,18	1,01	0,87
60	-20	313	280	1,27	1,11	0,96
60	-15	400	313	1,41	1,28	1,10
60	-10	500	348	1,57	1,44	1,24
60	-5	613	383	1,72	1,60	1,38
60	0	740	421	1,89	1,76	1,52

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.489,7398501797	265,4255095201	1,2007800423	13,42937616231
2	40,7964433514	3,7056858729	0,0164697150	0,4243857115144
3	-12,8955678700	2,7723360762	0,0123214937	-0,045934258225089
4	0,2576380049	0,0314724430	0,0001398775	0,0038314734425774
5	-0,2486390987	0,0693084019	0,0003080373	-0,00062868343848067

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
----------	---

COMPRESSOR DIMENSIONS

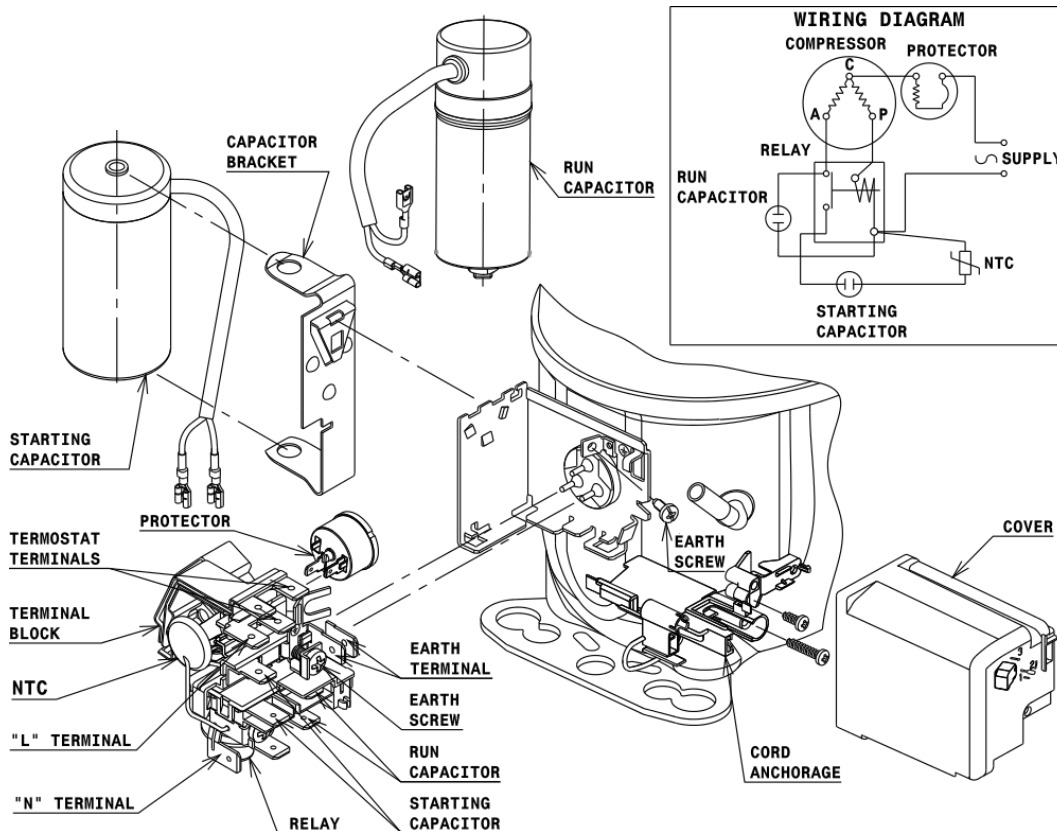


DESIGNATION INTERNAL DIAM.

1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

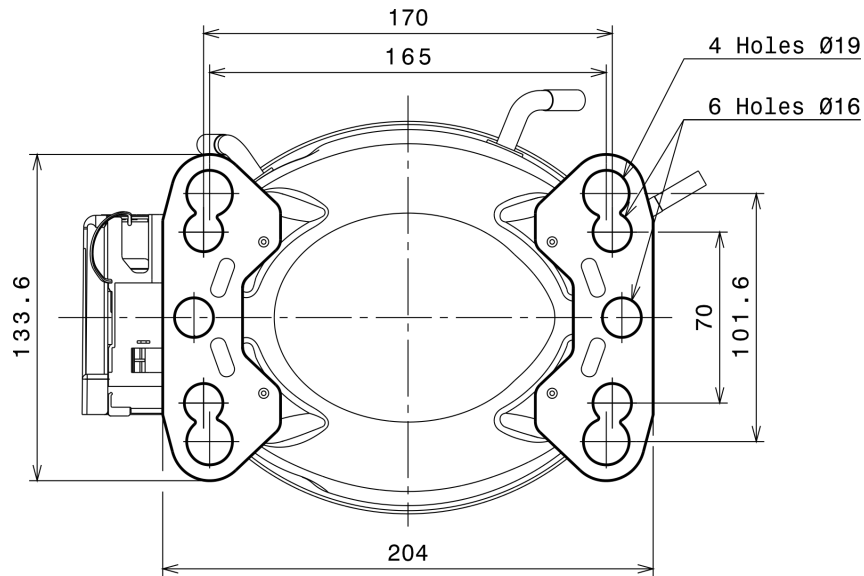
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (L, P ranges)



Technical Data Sheet

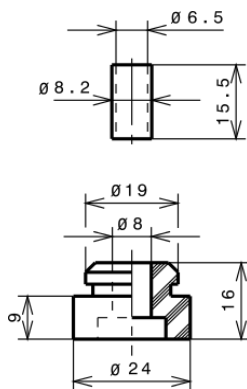
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

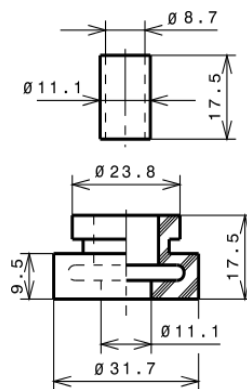
STANDARD

Ø16 holes (170x70 net)



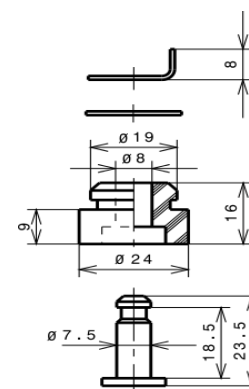
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 LMBP

