

Technical Data Sheet

Compressor model **NLY75NGa**
 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	200-220V 50Hz
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	15,90 mm	Voltage range	170-242 V
Expansion	Capillar/Valve	Net Weight	10,41 Kg	Type	CSIR
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)	11,50 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	265 kCal/h	228 W
COP	1,31 W/W	1,00 W/W
EER	1,12 kCal/Wh	0,87 kCal/Wh
Input Power	236 W	227 W
Current	1,69 A	1,66 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	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	64- 77 μF 330 V			
Relay	Option 1			
Reference	2014 138.			
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	120	155	1,47	0,90	0,77
40	-35	161	173	1,52	1,08	0,93
40	-30	213	191	1,56	1,30	1,12
40	-25	277	211	1,62	1,53	1,31
40	-23,3	301	217	1,64	1,61	1,39
40	-20	352	231	1,67	1,77	1,52
40	-15	438	251	1,74	2,03	1,74
40	-10	535	273	1,81	2,28	1,96
40	-5	643	295	1,88	2,54	2,18
40	0	763	318	1,96	2,79	2,40

45	-40	112	154	1,47	0,85	0,73
45	-35	152	174	1,52	1,02	0,87
45	-30	203	195	1,57	1,21	1,04
45	-25	265	216	1,63	1,43	1,23
45	-23,3	289	224	1,65	1,50	1,29
45	-20	339	238	1,70	1,65	1,42
45	-15	423	261	1,77	1,89	1,62
45	-10	519	284	1,84	2,12	1,83
45	-5	626	308	1,93	2,36	2,03
45	0	744	333	2,02	2,60	2,23

50	-40	105	154	1,47	0,79	0,68
50	-35	143	176	1,52	0,95	0,82
50	-30	193	198	1,58	1,13	0,97
50	-25	254	222	1,65	1,33	1,14
50	-23,3	277	230	1,67	1,40	1,21
50	-20	326	246	1,72	1,54	1,33
50	-15	409	270	1,80	1,76	1,51
50	-10	503	296	1,88	1,98	1,70
50	-5	609	322	1,98	2,20	1,89
50	0	726	349	2,08	2,42	2,08

55	-40	97	153	1,47	0,74	0,63
55	-35	134	177	1,53	0,88	0,76
55	-30	183	202	1,59	1,05	0,91
55	-25	242	227	1,66	1,24	1,07
55	-23,3	265	236	1,69	1,31	1,12
55	-20	313	253	1,74	1,44	1,24
55	-15	395	280	1,83	1,64	1,41
55	-10	488	307	1,92	1,85	1,59
55	-5	592	335	2,03	2,05	1,76
55	0	707	364	2,14	2,26	1,94

60	-40	90	153	1,47	0,68	0,59
60	-35	125	179	1,53	0,82	0,70
60	-30	172	205	1,60	0,98	0,84
60	-25	231	233	1,68	1,15	0,99
60	-23,3	253	242	1,71	1,21	1,04
60	-20	300	261	1,77	1,34	1,15
60	-15	380	289	1,86	1,53	1,31
60	-10	472	319	1,97	1,72	1,48
60	-5	575	349	2,08	1,92	1,65
60	0	689	380	2,20	2,11	1,81

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	129	155	1,47	0,84	0,72
40	-35	180	173	1,52	1,05	0,90
40	-30	242	191	1,56	1,26	1,09
40	-25	314	211	1,62	1,49	1,29
40	-23,3	340	217	1,64	1,57	1,35
40	-20	396	231	1,67	1,72	1,48
40	-15	488	251	1,74	1,94	1,68
40	-10	591	273	1,81	2,17	1,87
40	-5	704	295	1,88	2,39	2,06
40	0	827	318	1,96	2,61	2,25

45	-40	117	154	1,47	0,76	0,65
45	-35	162	174	1,52	0,93	0,81
45	-30	219	195	1,57	1,12	0,97
45	-25	285	216	1,63	1,32	1,14
45	-23,3	310	224	1,65	1,39	1,20
45	-20	362	238	1,70	1,52	1,31
45	-15	449	261	1,77	1,72	1,49
45	-10	546	284	1,84	1,92	1,66
45	-5	654	308	1,93	2,12	1,83
45	0	772	333	2,02	2,32	2,00

50	-40	104	154	1,47	0,68	0,59
50	-35	145	176	1,52	0,82	0,71
50	-30	195	198	1,58	0,98	0,85
50	-25	256	222	1,65	1,16	1,00
50	-23,3	280	230	1,67	1,22	1,05
50	-20	328	246	1,72	1,33	1,15
50	-15	410	270	1,80	1,51	1,31
50	-10	502	296	1,88	1,70	1,47
50	-5	604	322	1,98	1,88	1,62
50	0	717	349	2,08	2,06	1,78

55	-40	91	153	1,47	0,60	0,52
55	-35	127	177	1,53	0,71	0,62
55	-30	172	202	1,59	0,85	0,74
55	-25	228	227	1,66	1,00	0,87
55	-23,3	249	236	1,69	1,06	0,91
55	-20	294	253	1,74	1,16	1,00
55	-15	370	280	1,83	1,32	1,14
55	-10	457	307	1,92	1,49	1,28
55	-5	554	335	2,03	1,65	1,43
55	0	661	364	2,14	1,82	1,57

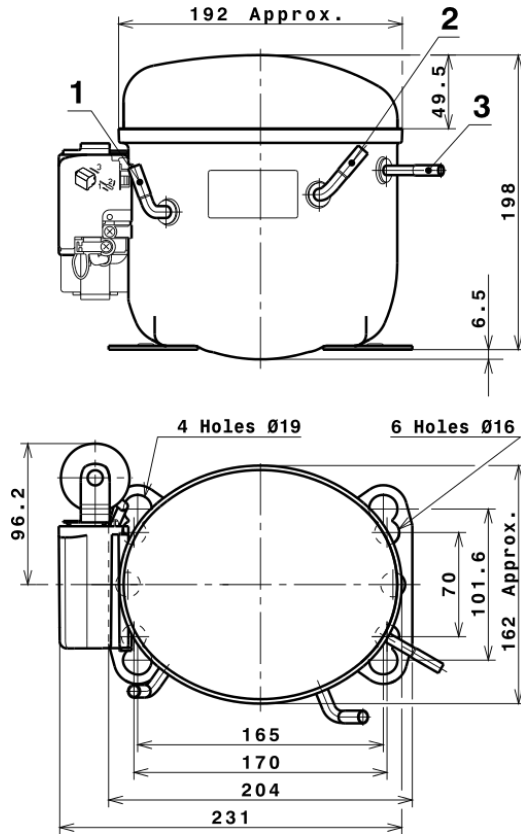
60	-40	79	153	1,47	0,52	0,45
60	-35	109	179	1,53	0,61	0,53
60	-30	149	205	1,60	0,72	0,63
60	-25	199	233	1,68	0,86	0,74
60	-23,3	219	242	1,71	0,90	0,78
60	-20	260	261	1,77	1,00	0,86
60	-15	331	289	1,86	1,14	0,99
60	-10	412	319	1,97	1,29	1,12
60	-5	504	349	2,08	1,44	1,25
60	0	606	380	2,20	1,60	1,38

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.268,6024550298	198,6840854628	1,4812980459	11,578712490476
2	34,0670143960	1,5025763544	0,0063922015	0,35489889846614
3	-11,3723032203	3,1830525320	0,0126998818	-0,04717355374353
4	0,2011562503	0,0145961023	0,0001657836	0,0030065718637149
5	-0,2210742635	0,0821304899	0,0003234782	-0,00072083862213942

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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COMPRESSOR DIMENSIONS

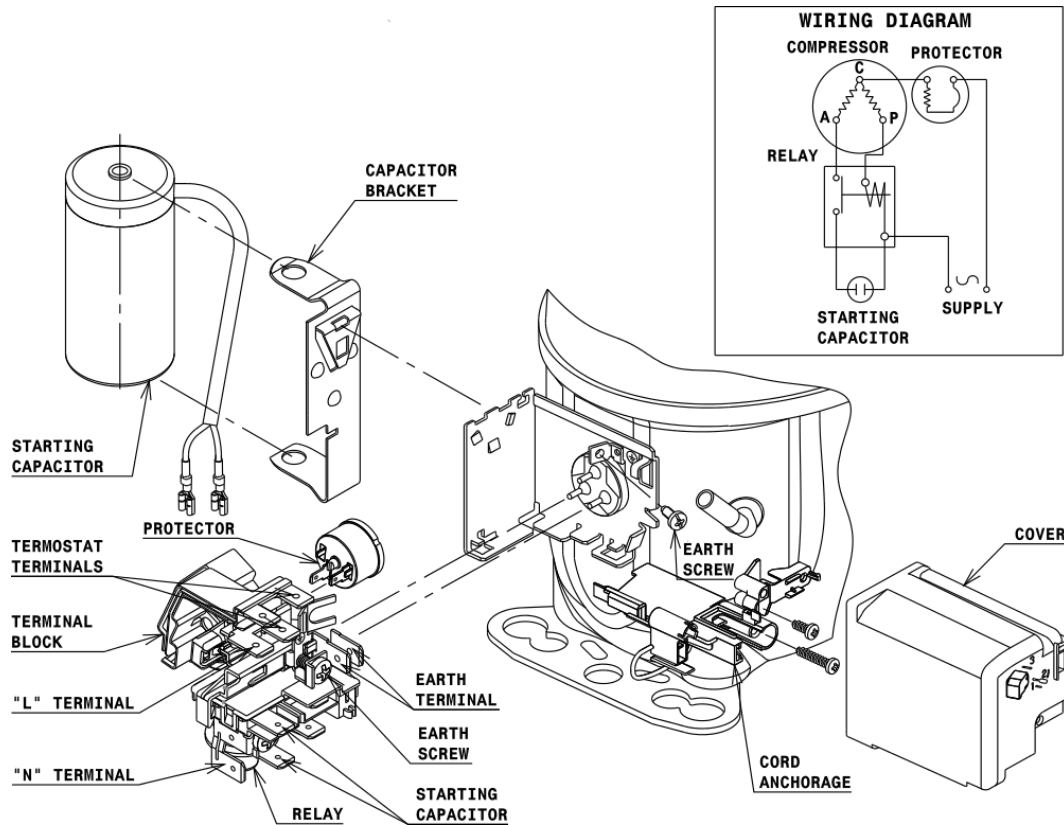


DESIGNATION INTERNAL DIAM.

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

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



Technical Data Sheet

FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø16 holes (170x70 net)



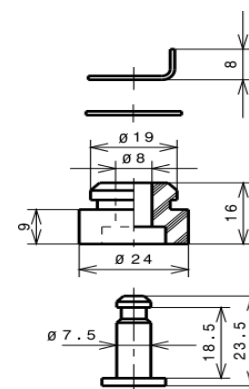
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 LMBP

