

Technical Data Sheet

Compressor model **NLY60RRa**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R290**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	5,98 cm ³	Nominal Power	1/5 hp
Refrigerant	R290	Diameter	20,88 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	17,47 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	9,68 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)	23,00 A
				Max. Cont. Current (MCC)	6,30 A
				Main W. resist. at 25°C	2,20 Ω
				Start W. resist. at 25°C	7,25 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	845 kCal/h	827 W
COP	2,43 W/W	2,11 W/W
EER	2,09 kCal/Wh	1,82 kCal/Wh
Input Power	404 W	392 W
Current	4,18 A	4,09 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			
Relay	Option 1			
Reference	2014 166.			
Pick-Up	11,00 A			
Drop-Out	9,35 A			
Protector	Option 1	Option 2		
Reference	MRA38132	T0253		
Current	16,20 A	15,00 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		

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	304	206	2,76	1,72	1,48
40	-20	381	216	2,83	2,05	1,76
40	-15	472	228	2,90	2,41	2,07
40	-10	575	240	2,99	2,78	2,39
40	-5	691	254	3,08	3,16	2,72
40	0	820	269	3,18	3,54	3,05
40	5	962	285	3,30	3,92	3,37
40	7,2	1.028	293	3,35	4,08	3,51
40	10	1.116	303	3,42	4,29	3,68

45	-25	280	211	2,79	1,54	1,33
45	-20	352	226	2,89	1,81	1,55
45	-15	436	243	3,00	2,09	1,80
45	-10	533	260	3,12	2,38	2,05
45	-5	644	279	3,25	2,68	2,31
45	0	767	299	3,39	2,98	2,56
45	5	903	320	3,55	3,28	2,82
45	7,2	967	330	3,62	3,41	2,93
45	10	1.052	343	3,71	3,57	3,07

50	-25	256	216	2,83	1,38	1,19
50	-20	322	236	2,96	1,59	1,36
50	-15	401	258	3,10	1,81	1,56
50	-10	492	280	3,26	2,04	1,76
50	-5	597	304	3,43	2,28	1,96
50	0	714	329	3,61	2,53	2,17
50	5	845	355	3,80	2,77	2,38
50	7,2	906	367	3,89	2,87	2,47
50	10	988	383	4,01	3,00	2,58

55	-25	232	221	2,86	1,22	1,05
55	-20	292	246	3,03	1,38	1,19
55	-15	365	272	3,21	1,56	1,34
55	-10	451	300	3,40	1,75	1,50
55	-5	550	329	3,61	1,95	1,67
55	0	661	359	3,83	2,14	1,84
55	5	786	390	4,07	2,34	2,02
55	7,2	845	404	4,18	2,43	2,09
55	10	924	422	4,33	2,54	2,19

60	-25	208	226	2,89	1,07	0,92
60	-20	262	256	3,09	1,19	1,02
60	-15	330	287	3,31	1,33	1,15
60	-10	410	320	3,54	1,49	1,28
60	-5	503	354	3,79	1,65	1,42
60	0	609	389	4,06	1,82	1,57
60	5	728	425	4,34	1,99	1,71
60	7,2	784	441	4,48	2,07	1,78
60	10	859	462	4,65	2,16	1,86

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	327	207	2,77	1,58	1,36
40	-20	411	217	2,84	1,89	1,63
40	-15	509	229	2,91	2,22	1,92
40	-10	620	242	3,00	2,56	2,22
40	-5	744	256	3,09	2,91	2,52
40	0	882	271	3,20	3,26	2,81
40	5	1.034	287	3,31	3,60	3,11
40	7,2	1.105	295	3,36	3,74	3,24
40	10	1.199	305	3,44	3,93	3,39

45	-25	300	212	2,80	1,41	1,22
45	-20	377	227	2,90	1,66	1,43
45	-15	467	244	3,01	1,92	1,66
45	-10	571	262	3,13	2,18	1,89
45	-5	689	281	3,26	2,46	2,12
45	0	820	301	3,41	2,73	2,35
45	5	965	322	3,56	2,99	2,59
45	7,2	1.033	332	3,63	3,11	2,69
45	10	1.123	345	3,73	3,25	2,81

50	-25	272	217	2,83	1,25	1,08
50	-20	342	237	2,97	1,44	1,25
50	-15	426	259	3,11	1,65	1,42
50	-10	523	282	3,27	1,86	1,60
50	-5	634	306	3,44	2,07	1,79
50	0	758	331	3,62	2,29	1,98
50	5	896	357	3,82	2,51	2,17
50	7,2	961	369	3,91	2,60	2,25
50	10	1.047	385	4,03	2,72	2,35

55	-25	245	222	2,87	1,10	0,95
55	-20	308	247	3,04	1,24	1,08
55	-15	385	274	3,22	1,40	1,21
55	-10	475	302	3,41	1,57	1,36
55	-5	579	331	3,62	1,75	1,51
55	0	696	361	3,85	1,93	1,67
55	5	827	392	4,09	2,11	1,82
55	7,2	888	407	4,20	2,18	1,89
55	10	971	425	4,35	2,28	1,97

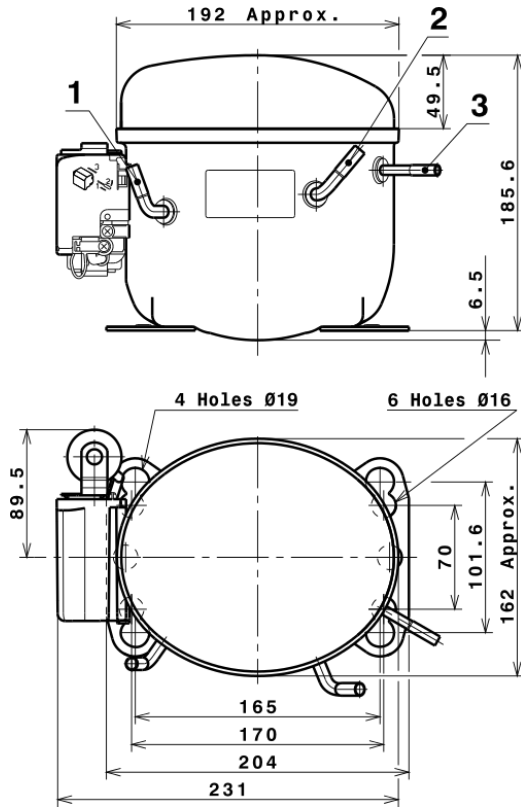
60	-25	217	227	2,90	0,96	0,83
60	-20	274	258	3,10	1,06	0,92
60	-15	344	289	3,32	1,19	1,03
60	-10	427	322	3,56	1,33	1,15
60	-5	524	356	3,81	1,47	1,27
60	0	634	391	4,08	1,62	1,40
60	5	758	428	4,37	1,77	1,53
60	7,2	816	444	4,50	1,84	1,59
60	10	895	465	4,68	1,92	1,66

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1,381,0772517255	30,7849101851	1,3193879250	12,348797749846
2	40,1640453816	-4,9063773050	-0,0402519699	0,39602885948364
3	-12,7990050334	6,1821292266	0,0473686725	-0,052014480498415
4	0,2645500193	0,0276429372	0,0003275726	0,0042330904977676
5	-0,2902492136	0,2061475357	0,0016250132	-0,00070794048093722

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

CSIR CONNECTION (L, P ranges)



Technical Data Sheet

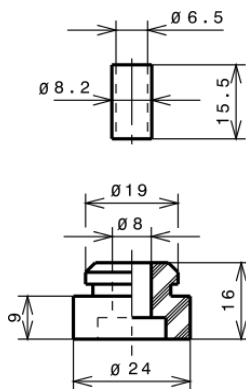
FIXINGS



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 HMBP

