

Technical Data Sheet

Compressor model **NLY60LRb**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R290**

APPLICATION

Application	Low Back Pressure
Refrigerant	R290
Evaporating Temp.	-40,0 °C to -10,0 °C
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 °C

COMPRESSOR

Displacement	5,98 cm ³
Diameter	20,88 mm
Stroke	17,47 mm
Net Weight	10,17 Kg
Oil type	ISO VG 32 ESTER
Oil charge	350 cm ³

MOTOR

Nominal Power	1/5 hp
Voltage/Frequency	115-127V 60Hz
Voltage range	98-140 V
Type	CSR
Phase number	1 PH
Locked Rotor Amps (LRA)	23,00 A
Max. Cont. Current (MCC)	5,80 A
Main W. resist. at 25°C	1,76 Ω
Start W. resist. at 25°C	5,16 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	300 kCal/h	260 W
COP	1,53 W/W	1,18 W/W
EER	1,32 kCal/Wh	1,02 kCal/Wh
Input Power	228 W	220 W
Current	2,40 A	2,34 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (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	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	Option 2	
Reference	MRA38134	T0348	
Current	15,80 A	15,40 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	-40	141	157	1,91	1,04	0,90
40	-35	189	175	2,03	1,25	1,08
40	-30	247	194	2,15	1,48	1,27
40	-25	314	212	2,28	1,72	1,48
40	-23,3	339	218	2,33	1,81	1,55
40	-20	391	230	2,42	1,97	1,70
40	-15	477	248	2,56	2,24	1,92
40	-10	573	266	2,71	2,51	2,16

45	-40	131	153	1,89	1,00	0,86
45	-35	178	174	2,02	1,19	1,03
45	-30	235	194	2,15	1,41	1,21
45	-25	302	215	2,30	1,63	1,40
45	-23,3	326	222	2,35	1,71	1,47
45	-20	377	235	2,45	1,87	1,61
45	-15	462	255	2,62	2,11	1,82
45	-10	557	274	2,79	2,36	2,03

50	-40	122	150	1,87	0,95	0,81
50	-35	168	172	2,01	1,13	0,97
50	-30	224	195	2,16	1,33	1,15
50	-25	289	217	2,32	1,55	1,33
50	-23,3	313	225	2,38	1,62	1,39
50	-20	363	239	2,49	1,77	1,52
50	-15	448	261	2,67	1,99	1,71
50	-10	541	283	2,87	2,23	1,92

55	-40	112	146	1,85	0,89	0,77
55	-35	157	171	2,00	1,07	0,92
55	-30	212	195	2,16	1,26	1,08
55	-25	276	220	2,34	1,46	1,26
55	-23,3	300	228	2,40	1,53	1,32
55	-20	350	244	2,53	1,67	1,43
55	-15	433	268	2,73	1,88	1,62
55	-10	525	291	2,95	2,10	1,80

60	-40	103	143	1,83	0,84	0,72
60	-35	147	169	1,99	1,01	0,87
60	-30	200	196	2,16	1,19	1,02
60	-25	263	222	2,36	1,38	1,18
60	-23,3	287	231	2,43	1,44	1,24
60	-20	336	248	2,57	1,57	1,35
60	-15	418	274	2,79	1,77	1,52
60	-10	509	300	3,03	1,98	1,70

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	152	157	1,91	0,97	0,84
40	-35	208	175	2,03	1,19	1,03
40	-30	274	194	2,15	1,41	1,22
40	-25	348	212	2,28	1,64	1,41
40	-23,3	375	218	2,33	1,71	1,48
40	-20	430	230	2,42	1,87	1,61
40	-15	522	248	2,56	2,10	1,82
40	-10	622	266	2,71	2,34	2,02

45	-40	136	153	1,89	0,89	0,77
45	-35	188	174	2,02	1,08	0,94
45	-30	249	194	2,15	1,28	1,11
45	-25	318	215	2,30	1,48	1,28
45	-23,3	344	222	2,35	1,55	1,34
45	-20	396	235	2,45	1,69	1,46
45	-15	483	255	2,62	1,90	1,64
45	-10	579	274	2,79	2,11	1,82

50	-40	121	150	1,87	0,81	0,70
50	-35	168	172	2,01	0,98	0,84
50	-30	224	195	2,16	1,15	0,99
50	-25	289	217	2,32	1,33	1,15
50	-23,3	313	225	2,38	1,39	1,20
50	-20	362	239	2,49	1,51	1,31
50	-15	445	261	2,67	1,70	1,47
50	-10	535	283	2,87	1,90	1,64

55	-40	106	146	1,85	0,72	0,62
55	-35	148	171	2,00	0,87	0,75
55	-30	200	195	2,16	1,02	0,88
55	-25	260	220	2,34	1,18	1,02
55	-23,3	282	228	2,40	1,24	1,07
55	-20	328	244	2,53	1,35	1,16
55	-15	406	268	2,73	1,52	1,31
55	-10	492	291	2,95	1,69	1,46

60	-40	90	143	1,83	0,63	0,55
60	-35	128	169	1,99	0,76	0,65
60	-30	175	196	2,16	0,89	0,77
60	-25	230	222	2,36	1,04	0,90
60	-23,3	251	231	2,43	1,09	0,94
60	-20	295	248	2,57	1,19	1,02
60	-15	368	274	2,79	1,34	1,16
60	-10	449	300	3,03	1,50	1,30

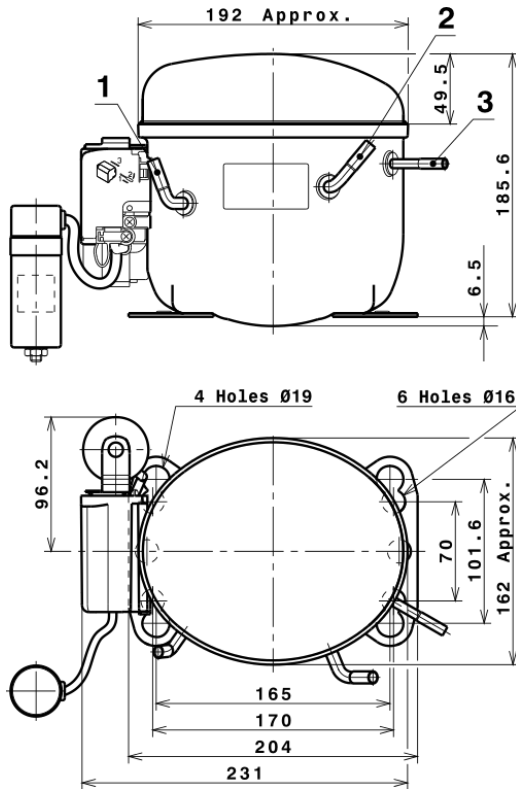
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.262,0122952215	205,0120857989	2,2280932815	11,835946547889
2	31,5583147956	0,2131222641	0,0155294772	0,33084032478221
3	-10,7294008822	2,5610810540	0,0235915864	-0,045811979486496
4	0,1704487324	-0,0049931024	0,0003044096	0,0025268681242766
5	-0,1909491115	0,0819062624	0,0006926205	-0,00056458566026307

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

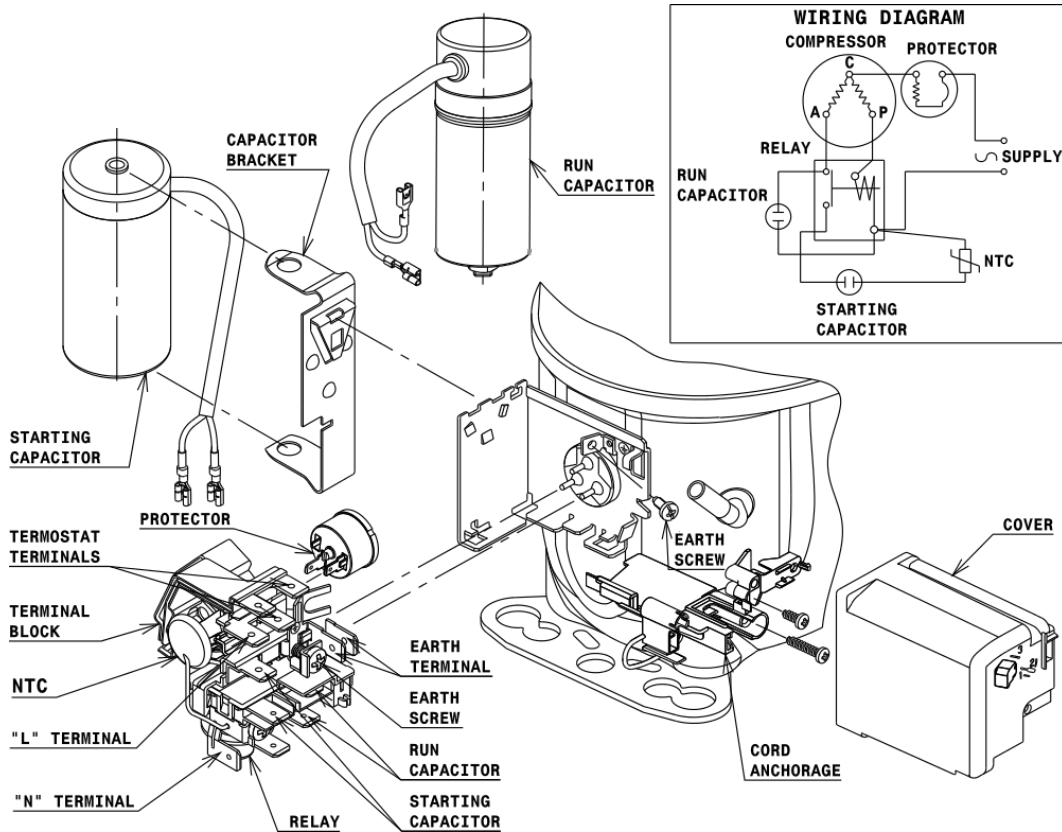
COMPRESSOR DIMENSIONS



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)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (165x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R290 LBP

