Technical Data Sheet

Compressor model **NLY60RRb**

Voltage **115-127V 60Hz ~1**

Refrigerant **R290**

APPLICATION		COMPRESSOR		MOTOR	
Application	High-Medium Back Pressure	Displacement	5,98 cm³	Nominal Power	1/5 hp
Refrigerant	R290	Diameter	20,88 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-25,0 ºC to 10,0 ºC	Stroke	17,47 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	9,78 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 ºC	Oil charge	350 cm³	Locked Rotor Amps (LRA)	23,00 A
				Max. Cont. Current (MCC)	5,90 A
				Main W. resist. at 25ºC	2,20 Ω
				Start W. resist. at 25ºC	7,25 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	845 kCal/h	827 W
COP	2,65 W/W	2,29 W/W
EER	2,28 kCal/Wh	1,98 kCal/Wh
Input Power	371 W	361 W
Current	3,39 A	3,30 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	HMBP (D)	**HMBP (C)**
Evaporating temp. (T_e)	7,2 ºC	5,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	46,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	35,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	35,0 ºC	32,0 ºC
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 166. + NTC3Ω			
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 ºC	105,00 / 52,00 ºC		

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

Technical Data Sheet

cubigel compressors

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	304	197	1,94	1,80	1,55
40	-20	381	206	2,02	2,15	1,85
40	-15	472	217	2,10	2,53	2,17
40	-10	575	229	2,19	2,92	2,51
40	-5	691	241	2,29	3,33	2,86
40	0	820	254	2,40	3,75	3,22
40	5	962	269	2,51	4,16	3,58
40	7,2	1.028	275	2,57	4,35	3,74
40	10	1.116	283	2,64	4,58	3,94
45	-25	280	200	1,97	1,63	1,40
45	-20	352	214	2,08	1,91	1,64
45	-15	436	229	2,20	2,21	1,90
45	-10	533	245	2,33	2,53	2,17
45	-5	644	262	2,46	2,85	2,45
45	0	767	280	2,61	3,19	2,74
45	5	903	299	2,76	3,52	3,02
45	7,2	967	307	2,83	3,66	3,15
45	10	1.052	318	2,93	3,85	3,31
50	-25	256	204	1,99	1,46	1,26
50	-20	322	222	2,14	1,68	1,45
50	-15	401	242	2,30	1,93	1,66
50	-10	492	262	2,46	2,18	1,88
50	-5	597	284	2,64	2,45	2,11
50	0	714	306	2,82	2,72	2,34
50	5	845	329	3,02	2,99	2,57
50	7,2	906	339	3,11	3,11	2,67
50	10	988	352	3,23	3,26	2,80
55	-25	232	207	2,02	1,30	1,12
55	-20	292	230	2,20	1,48	1,27
55	-15	365	254	2,40	1,67	1,44
55	-10	451	279	2,60	1,88	1,62
55	-5	550	305	2,82	2,10	1,80
55	0	661	331	3,04	2,32	2,00
55	5	786	359	3,28	2,55	2,19
55	7,2	845	371	3,39	2,65	2,28
55	10	924	387	3,53	2,78	2,39
60	-25	208	211	2,05	1,15	0,99
60	-20	262	238	2,27	1,28	1,10
60	-15	330	266	2,50	1,44	1,24
60	-10	410	296	2,74	1,61	1,39
60	-5	503	326	3,00	1,79	1,54
60	0	609	357	3,27	1,98	1,71
60	5	728	389	3,55	2,18	1,87
60	7,2	784	403	3,68	2,26	1,95
60	10	859	421	3,85	2,37	2,04

CECOMAF

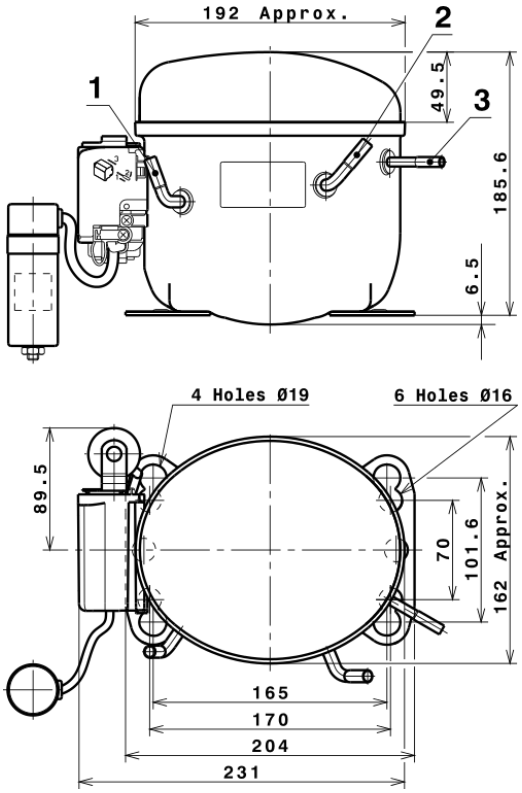
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	327	198	1,95	1,65	1,43
40	-20	411	207	2,02	1,98	1,71
40	-15	509	218	2,11	2,33	2,01
40	-10	620	230	2,20	2,69	2,33
40	-5	744	243	2,30	3,07	2,65
40	0	882	256	2,41	3,45	2,98
40	5	1.034	270	2,53	3,82	3,30
40	7,2	1.105	277	2,58	3,99	3,45
40	10	1.199	285	2,65	4,20	3,63
45	-25	300	201	1,97	1,49	1,29
45	-20	377	215	2,09	1,75	1,51
45	-15	467	231	2,21	2,03	1,75
45	-10	571	247	2,34	2,32	2,00
45	-5	689	264	2,48	2,61	2,26
45	0	820	282	2,62	2,91	2,51
45	5	965	301	2,78	3,21	2,77
45	7,2	1.033	309	2,85	3,34	2,89
45	10	1.123	320	2,95	3,51	3,03
50	-25	272	205	2,00	1,33	1,15
50	-20	342	223	2,15	1,53	1,32
50	-15	426	243	2,31	1,75	1,51
50	-10	523	264	2,47	1,98	1,71
50	-5	634	285	2,65	2,22	1,92
50	0	758	308	2,84	2,46	2,13
50	5	896	331	3,04	2,71	2,34
50	7,2	961	341	3,13	2,81	2,43
50	10	1.047	355	3,25	2,95	2,55
55	-25	245	208	2,03	1,18	1,02
55	-20	308	231	2,21	1,33	1,15
55	-15	385	256	2,41	1,51	1,30
55	-10	475	281	2,61	1,69	1,46
55	-5	579	307	2,83	1,89	1,63
55	0	696	333	3,06	2,09	1,80
55	5	827	361	3,30	2,29	1,98
55	7,2	888	373	3,41	2,38	2,06
55	10	971	390	3,56	2,49	2,15
60	-25	217	212	2,06	1,03	0,89
60	-20	274	239	2,28	1,14	0,99
60	-15	344	268	2,51	1,28	1,11
60	-10	427	298	2,75	1,43	1,24
60	-5	524	328	3,01	1,60	1,38
60	0	634	359	3,29	1,77	1,53
60	5	758	391	3,57	1,94	1,67
60	7,2	816	406	3,70	2,01	1,74
60	10	895	424	3,87	2,11	1,82

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.381,0772517255	50,4295816989	0,5912229994	12,348797749846
2	40,1640453816	-4,4142864979	-0,0401056884	0,39602885948364
3	-12,7990050334	5,3087937164	0,0463398353	-0,052014480498415
4	0,2645500193	0,0200088584	0,0002591834	0,0042330904977676
5	-0,2902492136	0,1835554053	0,0016279141	-0,00070794048093722

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

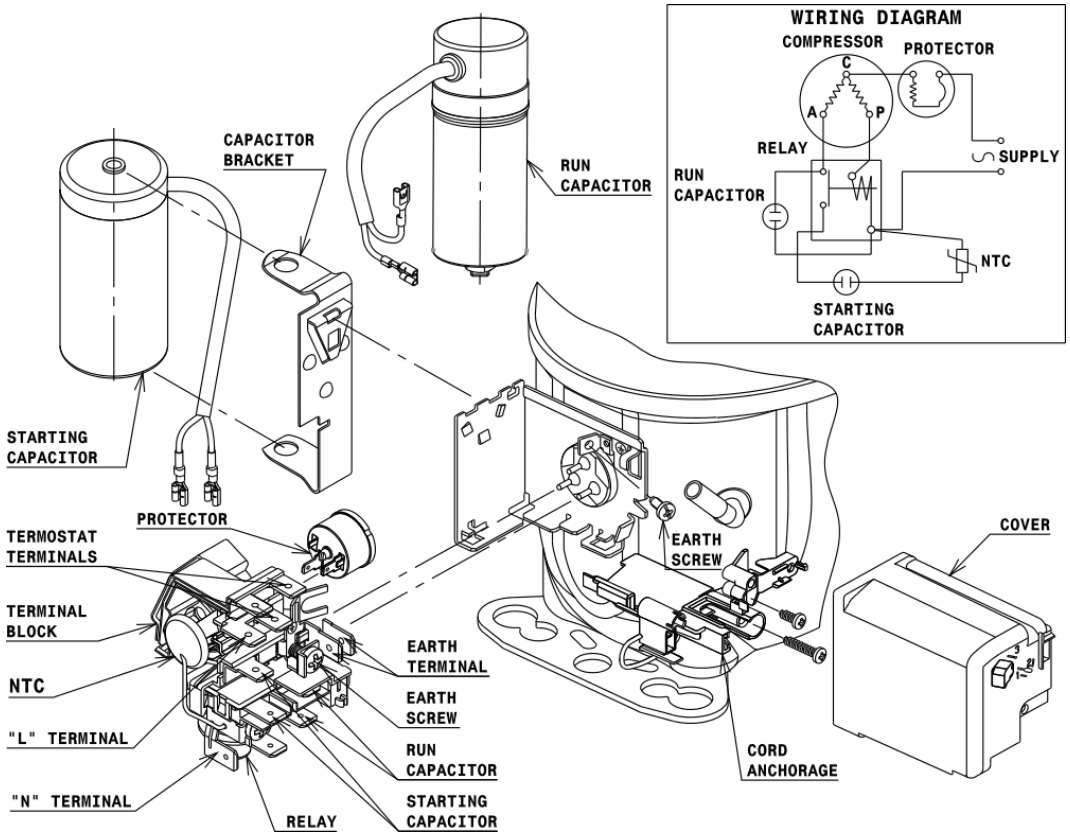
COMPRESSOR DIMENSIONS



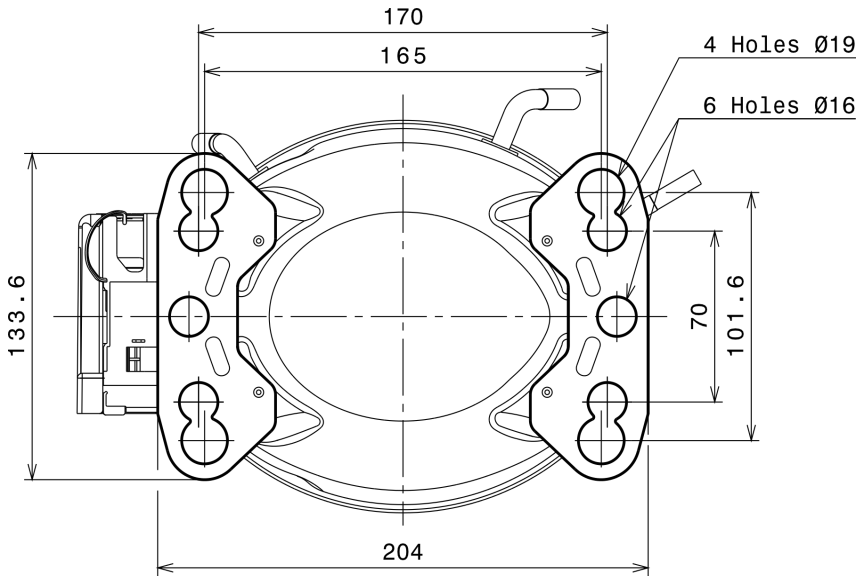
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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



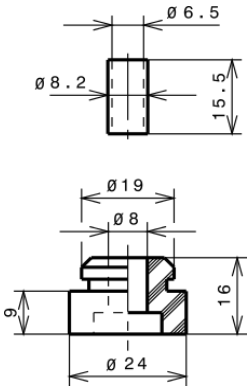
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

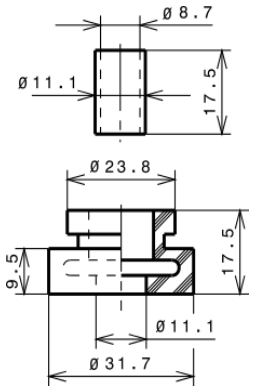
STANDARD

Ø16 holes (170x70 net)



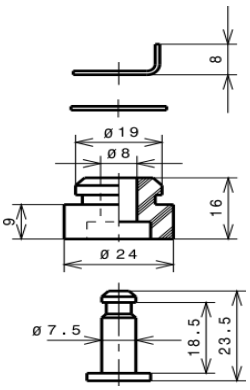
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 HMBP