

Technical Data Sheet

Compressor model **NUY60NGa**
 Voltage **200-220/230V 50/60Hz ~1**
 Refrigerant **R290**

APPLICATION

COMPRESSOR

MOTOR

Application	Low-Medium Back Pressure	Displacement	6,00 cm ³	Nominal Power	1/4 hp
Refrigerant	R290	Diameter	21,99 mm	Voltage/Frequency	230V 60Hz
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	16,00 mm	Voltage range	198-253 V
Expansion	Capillar/Valve	Net Weight	9,40 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 22 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	200 cm ³	Locked Rotor Amps (LRA)	11,20 A
				Max. Cont. Current (MCC)	2,40 A
				Main W. resist. at 25°C	11,30 Ω
				Start W. resist. at 25°C	17,10 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	293 kCal/h	253 W
COP	1,48 W/W	1,14 W/W
EER	1,27 kCal/Wh	0,99 kCal/Wh
Input Power	230 W	222 W
Current	1,35 A	1,32 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			
Relay	Option 1	Option 2		
Reference	2014 127.	QLZ-4.8A		
Pick-Up	4,80 A	4,8 A		
Drop-Out	4,10 A	4,1 A		
Protector	Option 1			
Reference	B71-105			
Current	7,10 A			
Time check	7,5-16 seg			
Disc temp. (Open/Close)	105,00 / 61,00 °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	138	147	1,09	1,09	0,94
40	-35	178	163	1,14	1,27	1,09
40	-30	229	180	1,19	1,48	1,27
40	-25	292	197	1,24	1,72	1,48
40	-23,3	317	203	1,26	1,81	1,56
40	-20	368	215	1,30	1,99	1,71
40	-15	455	234	1,36	2,26	1,95
40	-10	553	253	1,43	2,55	2,19
40	-5	664	273	1,51	2,83	2,44
40	0	787	293	1,58	3,12	2,68

45	-40	132	148	1,09	1,04	0,89
45	-35	171	166	1,15	1,20	1,03
45	-30	222	186	1,20	1,39	1,20
45	-25	285	205	1,27	1,61	1,39
45	-23,3	309	212	1,29	1,69	1,46
45	-20	359	226	1,33	1,85	1,59
45	-15	446	247	1,41	2,10	1,81
45	-10	544	268	1,49	2,36	2,03
45	-5	654	290	1,57	2,62	2,25
45	0	776	313	1,67	2,88	2,48

50	-40	126	149	1,10	0,98	0,85
50	-35	165	170	1,16	1,13	0,97
50	-30	215	191	1,22	1,31	1,12
50	-25	277	213	1,29	1,51	1,30
50	-23,3	301	221	1,32	1,58	1,36
50	-20	351	236	1,37	1,73	1,49
50	-15	437	259	1,46	1,96	1,68
50	-10	535	283	1,55	2,19	1,89
50	-5	644	308	1,65	2,43	2,09
50	0	766	333	1,75	2,67	2,30

55	-40	120	150	1,10	0,93	0,80
55	-35	158	173	1,17	1,06	0,91
55	-30	208	197	1,24	1,23	1,05
55	-25	269	222	1,32	1,41	1,22
55	-23,3	293	230	1,35	1,48	1,27
55	-20	343	247	1,41	1,62	1,39
55	-15	428	272	1,50	1,83	1,57
55	-10	525	299	1,61	2,05	1,76
55	-5	634	325	1,72	2,27	1,95
55	0	755	353	1,84	2,49	2,14

60	-40	114	151	1,10	0,88	0,75
60	-35	151	177	1,18	1,00	0,86
60	-30	201	203	1,26	1,15	0,99
60	-25	262	230	1,35	1,33	1,14
60	-23,3	285	239	1,38	1,39	1,19
60	-20	335	257	1,45	1,51	1,30
60	-15	419	285	1,55	1,71	1,47
60	-10	516	314	1,67	1,91	1,64
60	-5	624	343	1,80	2,12	1,82
60	0	745	373	1,93	2,32	2,00

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	150	147	1,09	1,02	0,88
40	-35	199	163	1,14	1,22	1,06
40	-30	260	180	1,19	1,45	1,25
40	-25	332	197	1,24	1,68	1,45
40	-23,3	359	203	1,26	1,77	1,53
40	-20	414	215	1,30	1,93	1,66
40	-15	508	234	1,36	2,17	1,88
40	-10	613	253	1,43	2,42	2,09
40	-5	728	273	1,51	2,67	2,31
40	0	855	293	1,58	2,92	2,52

45	-40	137	148	1,09	0,93	0,80
45	-35	183	166	1,15	1,10	0,95
45	-30	239	186	1,20	1,29	1,11
45	-25	306	205	1,27	1,49	1,29
45	-23,3	331	212	1,29	1,56	1,35
45	-20	384	226	1,33	1,70	1,47
45	-15	473	247	1,41	1,92	1,66
45	-10	572	268	1,49	2,14	1,84
45	-5	683	290	1,57	2,35	2,03
45	0	805	313	1,67	2,57	2,22

50	-40	125	149	1,10	0,84	0,73
50	-35	166	170	1,16	0,98	0,84
50	-30	217	191	1,22	1,13	0,98
50	-25	280	213	1,29	1,31	1,13
50	-23,3	303	221	1,32	1,37	1,19
50	-20	353	236	1,37	1,49	1,29
50	-15	437	259	1,46	1,68	1,46
50	-10	532	283	1,55	1,88	1,62
50	-5	638	308	1,65	2,07	1,79
50	0	756	333	1,75	2,27	1,96

55	-40	113	150	1,10	0,75	0,65
55	-35	149	173	1,17	0,86	0,74
55	-30	196	197	1,24	0,99	0,86
55	-25	253	222	1,32	1,14	0,99
55	-23,3	275	230	1,35	1,20	1,03
55	-20	322	247	1,41	1,31	1,13
55	-15	402	272	1,50	1,47	1,27
55	-10	492	299	1,61	1,65	1,42
55	-5	594	325	1,72	1,82	1,58
55	0	706	353	1,84	2,00	1,73

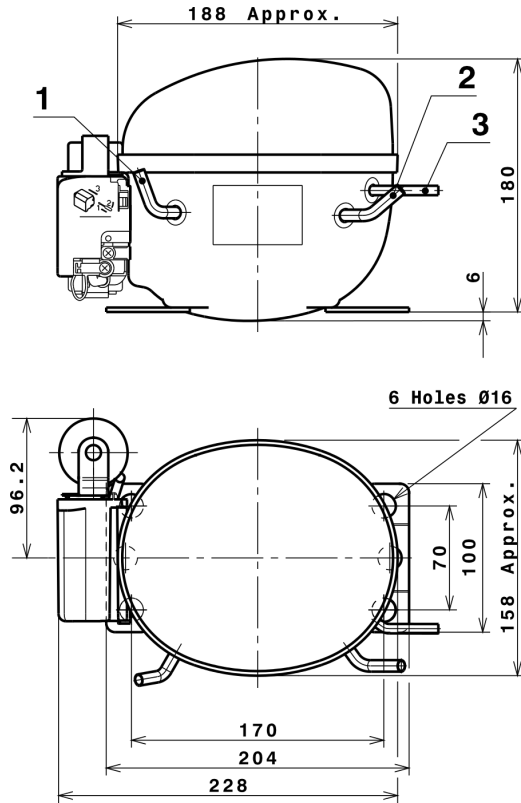
60	-40	101	151	1,10	0,67	0,58
60	-35	132	177	1,18	0,75	0,65
60	-30	174	203	1,26	0,86	0,74
60	-25	227	230	1,35	0,99	0,85
60	-23,3	248	239	1,38	1,04	0,90
60	-20	291	257	1,45	1,13	0,98
60	-15	366	285	1,55	1,28	1,11
60	-10	452	314	1,67	1,44	1,24
60	-5	549	343	1,80	1,60	1,38
60	0	657	373	1,93	1,76	1,52

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.251,1565723180	136,5632215326	0,8867071536	11,070783504064
2	33,7035043982	0,4102808645	0,0017864730	0,34767934892119
3	-10,2612250046	4,1071645574	0,0181139513	-0,026848343223982
4	0,2137955722	0,0136626442	0,0001639537	0,0031932847168483
5	-0,1949812652	0,0975707608	0,0004385176	-0,00030420113662322

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

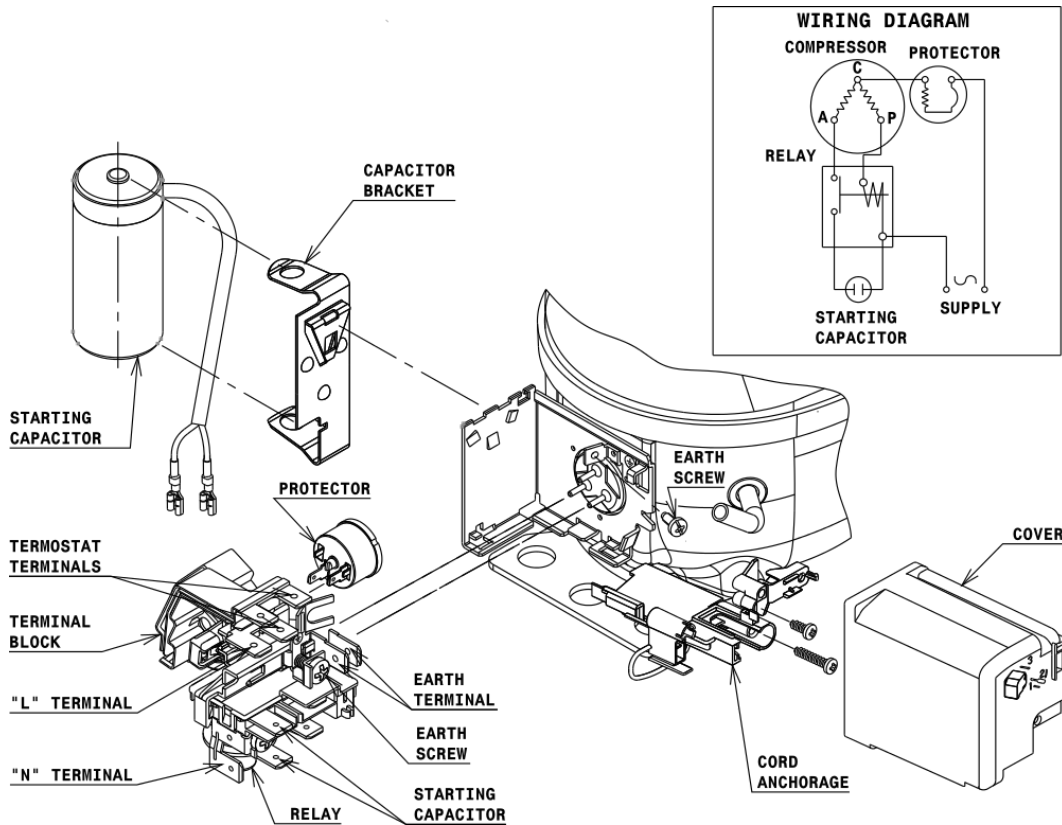


DESIGNATION INTERNAL DIAM.

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

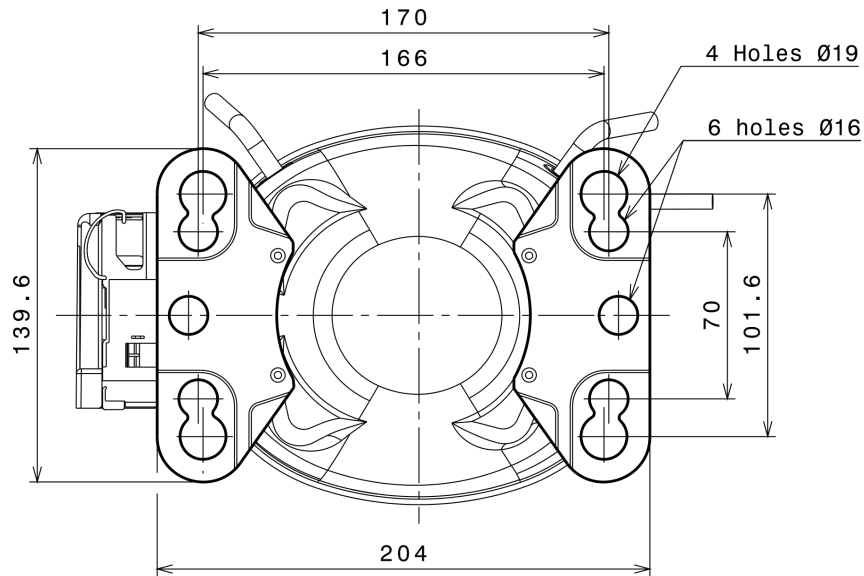
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



Technical Data Sheet

FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (166x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R290 LMBP

