

Technical Data Sheet

Compressor model **NUY60NRc**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R290**

APPLICATION

COMPRESSOR

MOTOR

Application	Low-Medium Back Pressure	Displacement	6,00 cm ³	Nominal Power	1/3 hp
Refrigerant	R290	Diameter	22,00 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	16,00 mm	Voltage range	103-140 V
Expansion	Capillar/Valve	Net Weight	9,55 Kg	Type	CSIR
Comp. Cooling	Static	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	200 cm ³	Locked Rotor Amps (LRA)	23,10 A
				Max. Cont. Current (MCC)	4,00 A
				Main W. resist. at 25°C	2,22 Ω
				Start W. resist. at 25°C	10,86 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	310 kCal/h	269 W
COP	1,58 W/W	1,22 W/W
EER	1,36 kCal/Wh	1,06 kCal/Wh
Input Power	228 W	220 W
Current	2,79 A	2,73 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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	125 µF 160 V			
Relay	Option 1			
Reference	2014 170.			
Pick-Up	12,10 A			
Drop-Out	10,30 A			
Protector	Option 1			
Reference	T0348			
Current	15,40 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	128	136	2,24	1,10	0,94
40	-35	171	153	2,33	1,30	1,12
40	-30	226	171	2,43	1,54	1,32
40	-25	292	189	2,54	1,79	1,54
40	-23,3	317	196	2,58	1,88	1,62
40	-20	369	208	2,66	2,06	1,77
40	-15	459	228	2,79	2,34	2,01
40	-10	559	249	2,93	2,62	2,25
40	-5	672	270	3,09	2,90	2,49
40	0	796	292	3,25	3,17	2,73

45	-40	128	140	2,26	1,06	0,91
45	-35	170	159	2,37	1,24	1,07
45	-30	224	179	2,48	1,46	1,25
45	-25	290	199	2,60	1,69	1,45
45	-23,3	315	206	2,65	1,77	1,52
45	-20	367	220	2,74	1,93	1,66
45	-15	455	242	2,89	2,19	1,88
45	-10	555	264	3,05	2,44	2,10
45	-5	667	287	3,22	2,70	2,32
45	0	790	311	3,41	2,95	2,54

50	-40	128	145	2,29	1,03	0,89
50	-35	170	166	2,40	1,19	1,03
50	-30	223	187	2,53	1,38	1,19
50	-25	288	210	2,67	1,60	1,37
50	-23,3	312	217	2,72	1,67	1,44
50	-20	364	232	2,82	1,82	1,57
50	-15	452	256	2,99	2,05	1,76
50	-10	551	280	3,17	2,29	1,97
50	-5	662	305	3,36	2,52	2,17
50	0	785	331	3,57	2,76	2,37

55	-40	128	149	2,31	1,00	0,86
55	-35	169	172	2,44	1,14	0,98
55	-30	222	195	2,58	1,32	1,13
55	-25	286	220	2,73	1,51	1,30
55	-23,3	310	228	2,79	1,58	1,36
55	-20	361	244	2,90	1,72	1,48
55	-15	448	270	3,09	1,93	1,66
55	-10	547	296	3,29	2,15	1,85
55	-5	657	323	3,51	2,37	2,04
55	0	779	350	3,74	2,59	2,23

60	-40	128	154	2,33	0,97	0,83
60	-35	168	178	2,48	1,10	0,94
60	-30	220	204	2,63	1,26	1,08
60	-25	284	230	2,80	1,44	1,23
60	-23,3	308	239	2,86	1,50	1,29
60	-20	358	256	2,99	1,63	1,40
60	-15	445	284	3,19	1,82	1,57
60	-10	543	312	3,41	2,03	1,74
60	-5	652	340	3,66	2,23	1,92
60	0	774	370	3,92	2,43	2,09

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	140	136	2,24	1,03	0,89
40	-35	193	153	2,33	1,26	1,09
40	-30	257	171	2,43	1,51	1,30
40	-25	332	189	2,54	1,75	1,51
40	-23,3	360	196	2,58	1,84	1,59
40	-20	417	208	2,66	2,00	1,73
40	-15	513	228	2,79	2,25	1,94
40	-10	620	249	2,93	2,49	2,15
40	-5	737	270	3,09	2,73	2,36
40	0	865	292	3,25	2,97	2,56

45	-40	133	140	2,26	0,95	0,82
45	-35	182	159	2,37	1,14	0,99
45	-30	241	179	2,48	1,35	1,16
45	-25	311	199	2,60	1,56	1,35
45	-23,3	337	206	2,65	1,63	1,41
45	-20	391	220	2,74	1,77	1,53
45	-15	482	242	2,89	1,99	1,72
45	-10	584	264	3,05	2,21	1,91
45	-5	696	287	3,22	2,42	2,09
45	0	820	311	3,41	2,64	2,28

50	-40	127	145	2,29	0,88	0,76
50	-35	171	166	2,40	1,03	0,89
50	-30	225	187	2,53	1,20	1,04
50	-25	290	210	2,67	1,38	1,19
50	-23,3	314	217	2,72	1,45	1,25
50	-20	365	232	2,82	1,57	1,36
50	-15	451	256	2,99	1,76	1,52
50	-10	548	280	3,17	1,96	1,69
50	-5	656	305	3,36	2,15	1,86
50	0	774	331	3,57	2,34	2,02

55	-40	121	149	2,31	0,81	0,70
55	-35	159	172	2,44	0,93	0,80
55	-30	209	195	2,58	1,07	0,92
55	-25	269	220	2,73	1,22	1,06
55	-23,3	291	228	2,79	1,28	1,10
55	-20	339	244	2,90	1,39	1,20
55	-15	421	270	3,09	1,56	1,35
55	-10	513	296	3,29	1,73	1,50
55	-5	615	323	3,51	1,91	1,65
55	0	729	350	3,74	2,08	1,80

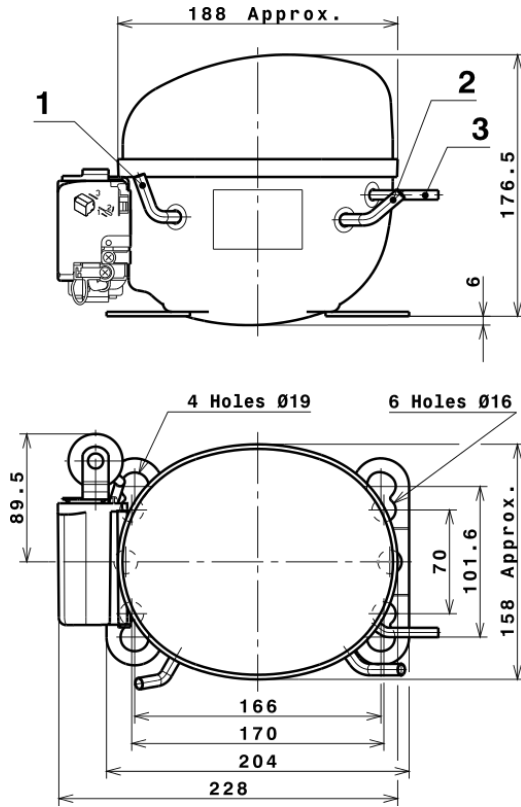
60	-40	114	154	2,33	0,74	0,64
60	-35	148	178	2,48	0,83	0,72
60	-30	192	204	2,63	0,94	0,82
60	-25	248	230	2,80	1,08	0,93
60	-23,3	269	239	2,86	1,13	0,97
60	-20	313	256	2,99	1,22	1,06
60	-15	390	284	3,19	1,37	1,19
60	-10	477	312	3,41	1,53	1,32
60	-5	575	340	3,66	1,69	1,46
60	0	683	370	3,92	1,85	1,60

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.231,2436619953	139,1301993809	1,9196614975	10,677013999713
2	34,3676144312	1,5002878098	0,0096156266	0,35291185999554
3	-9,5022319155	4,0044854434	0,0346152997	-0,014143828670655
4	0,2082891253	0,0140859630	0,0003252556	0,0031274889145115
5	-0,2044608356	0,0771245469	0,0007417048	-0,00035297000561995

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

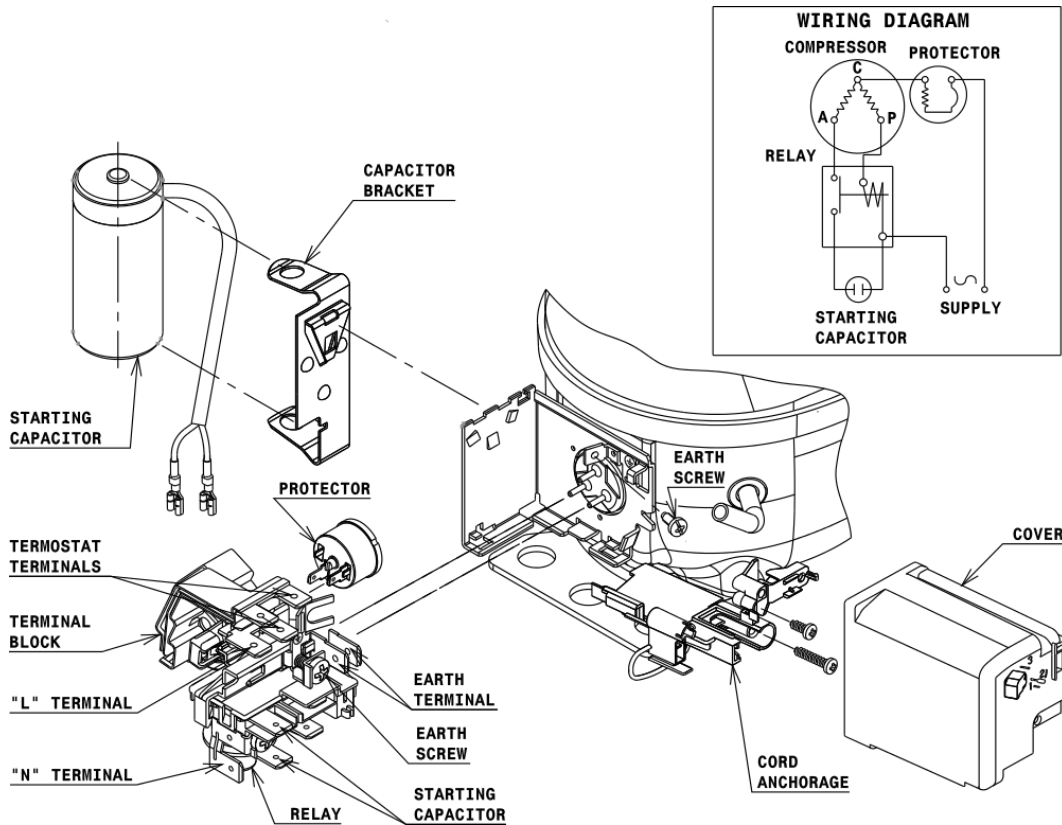


DESIGNATION INTERNAL DIAM.

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

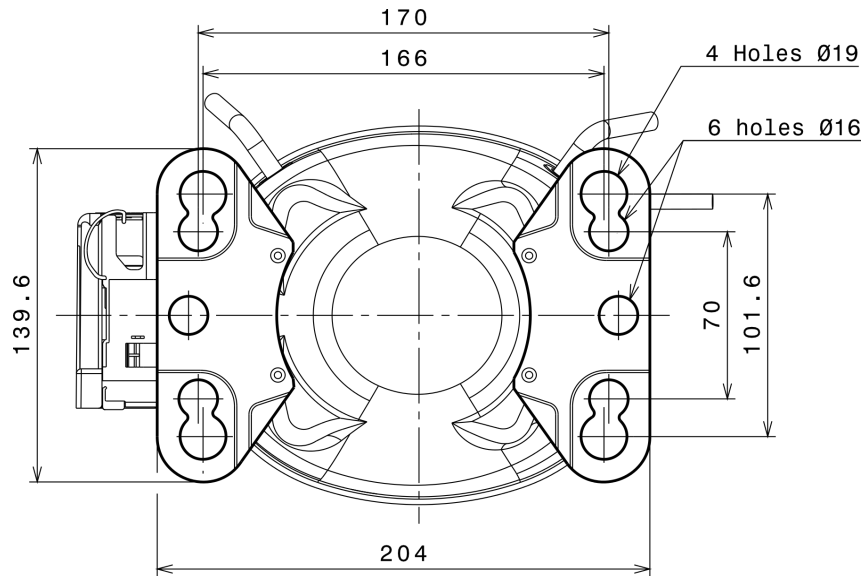
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



Technical Data Sheet

FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø16 holes (170x70 net)



AMERICAN FEET

Ø19 holes (166x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 LMBP

