

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	200-220V 50Hz
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	16,00 mm	Voltage range	170-255 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	246 kCal/h	213 W
COP	1,43 W/W	1,10 W/W
EER	1,23 kCal/Wh	0,95 kCal/Wh
Input Power	200 W	193 W
Current	1,40 A	1,38 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	220 V 50 Hz	220 V 50 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	118	134	1,23	1,02	0,88
40	-35	153	149	1,26	1,20	1,03
40	-30	199	163	1,30	1,42	1,22
40	-25	253	177	1,34	1,66	1,43
40	-23,3	274	182	1,35	1,75	1,51
40	-20	318	191	1,37	1,93	1,66
40	-15	391	205	1,41	2,22	1,91
40	-10	475	219	1,46	2,53	2,17
40	-5	568	232	1,50	2,85	2,45
40	0	671	246	1,55	3,18	2,73

45	-40	112	134	1,23	0,97	0,84
45	-35	146	150	1,27	1,13	0,97
45	-30	191	166	1,31	1,33	1,14
45	-25	244	182	1,35	1,56	1,34
45	-23,3	265	188	1,36	1,64	1,41
45	-20	308	198	1,40	1,80	1,55
45	-15	380	214	1,44	2,07	1,78
45	-10	463	229	1,49	2,35	2,02
45	-5	555	245	1,54	2,64	2,27
45	0	657	260	1,60	2,94	2,53

50	-40	106	134	1,23	0,92	0,79
50	-35	139	152	1,27	1,07	0,92
50	-30	183	170	1,32	1,25	1,07
50	-25	235	188	1,37	1,46	1,25
50	-23,3	255	194	1,38	1,53	1,32
50	-20	298	206	1,42	1,68	1,45
50	-15	369	223	1,47	1,93	1,66
50	-10	451	240	1,53	2,18	1,88
50	-5	542	258	1,59	2,45	2,11
50	0	643	275	1,65	2,72	2,34

55	-40	100	134	1,23	0,87	0,75
55	-35	132	154	1,28	1,00	0,86
55	-30	175	174	1,33	1,17	1,00
55	-25	226	193	1,38	1,36	1,17
55	-23,3	246	200	1,40	1,43	1,23
55	-20	288	213	1,44	1,57	1,35
55	-15	358	232	1,50	1,80	1,54
55	-10	439	251	1,57	2,03	1,75
55	-5	529	270	1,64	2,28	1,96
55	0	629	289	1,71	2,53	2,18

60	-40	94	134	1,23	0,82	0,70
60	-35	125	156	1,28	0,94	0,81
60	-30	167	177	1,34	1,09	0,94
60	-25	217	199	1,40	1,27	1,09
60	-23,3	237	206	1,42	1,34	1,15
60	-20	278	220	1,46	1,47	1,26
60	-15	347	241	1,53	1,68	1,44
60	-10	427	262	1,61	1,89	1,63
60	-5	516	283	1,69	2,12	1,82
60	0	615	304	1,77	2,36	2,03

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	128	134	1,23	0,95	0,82
40	-35	172	149	1,26	1,16	1,00
40	-30	225	163	1,30	1,38	1,19
40	-25	286	177	1,34	1,62	1,40
40	-23,3	309	182	1,35	1,70	1,47
40	-20	357	191	1,37	1,87	1,61
40	-15	436	205	1,41	2,13	1,84
40	-10	525	219	1,46	2,40	2,07
40	-5	622	232	1,50	2,68	2,32
40	0	728	246	1,55	2,97	2,56

45	-40	117	134	1,23	0,87	0,75
45	-35	156	150	1,27	1,04	0,90
45	-30	205	166	1,31	1,23	1,06
45	-25	262	182	1,35	1,43	1,24
45	-23,3	283	188	1,36	1,51	1,30
45	-20	328	198	1,40	1,65	1,43
45	-15	403	214	1,44	1,88	1,63
45	-10	487	229	1,49	2,12	1,83
45	-5	580	245	1,54	2,37	2,05
45	0	682	260	1,60	2,62	2,27

50	-40	105	134	1,23	0,79	0,68
50	-35	140	152	1,27	0,92	0,80
50	-30	184	170	1,32	1,08	0,94
50	-25	237	188	1,37	1,26	1,09
50	-23,3	257	194	1,38	1,33	1,15
50	-20	299	206	1,42	1,45	1,26
50	-15	370	223	1,47	1,66	1,43
50	-10	449	240	1,53	1,87	1,61
50	-5	538	258	1,59	2,09	1,80
50	0	635	275	1,65	2,31	2,00

55	-40	94	134	1,23	0,70	0,61
55	-35	125	154	1,28	0,81	0,70
55	-30	164	174	1,33	0,95	0,82
55	-25	213	193	1,38	1,10	0,95
55	-23,3	231	200	1,40	1,16	1,00
55	-20	270	213	1,44	1,27	1,10
55	-15	336	232	1,50	1,45	1,25
55	-10	411	251	1,57	1,64	1,41
55	-5	495	270	1,64	1,83	1,58
55	0	588	289	1,71	2,04	1,76

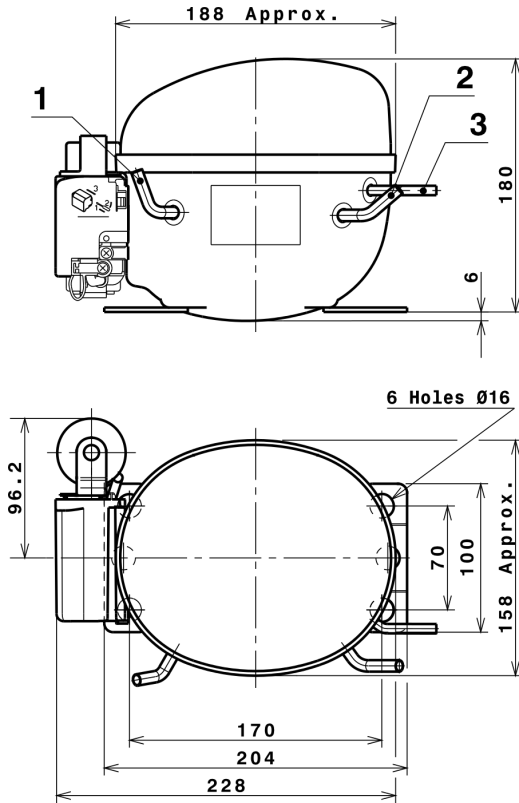
60	-40	83	134	1,23	0,62	0,54
60	-35	109	156	1,28	0,70	0,61
60	-30	144	177	1,34	0,81	0,70
60	-25	188	199	1,40	0,95	0,82
60	-23,3	205	206	1,42	1,00	0,86
60	-20	241	220	1,46	1,10	0,95
60	-15	303	241	1,53	1,26	1,09
60	-10	374	262	1,61	1,43	1,23
60	-5	453	283	1,69	1,60	1,38
60	0	542	304	1,77	1,78	1,54

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.101,1275575176	132,9694525449	1,0992813511	9,9575093983492
2	29,0903618911	-0,1963386370	0,0000160043	0,3022531476711
3	-9,6173606495	2,9776943041	0,0116740433	-0,03571860820062
4	0,1736998230	-0,0024494585	0,0000861037	0,0026006406634737
5	-0,1840557442	0,0744423576	0,0002918511	-0,00052605552840581

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

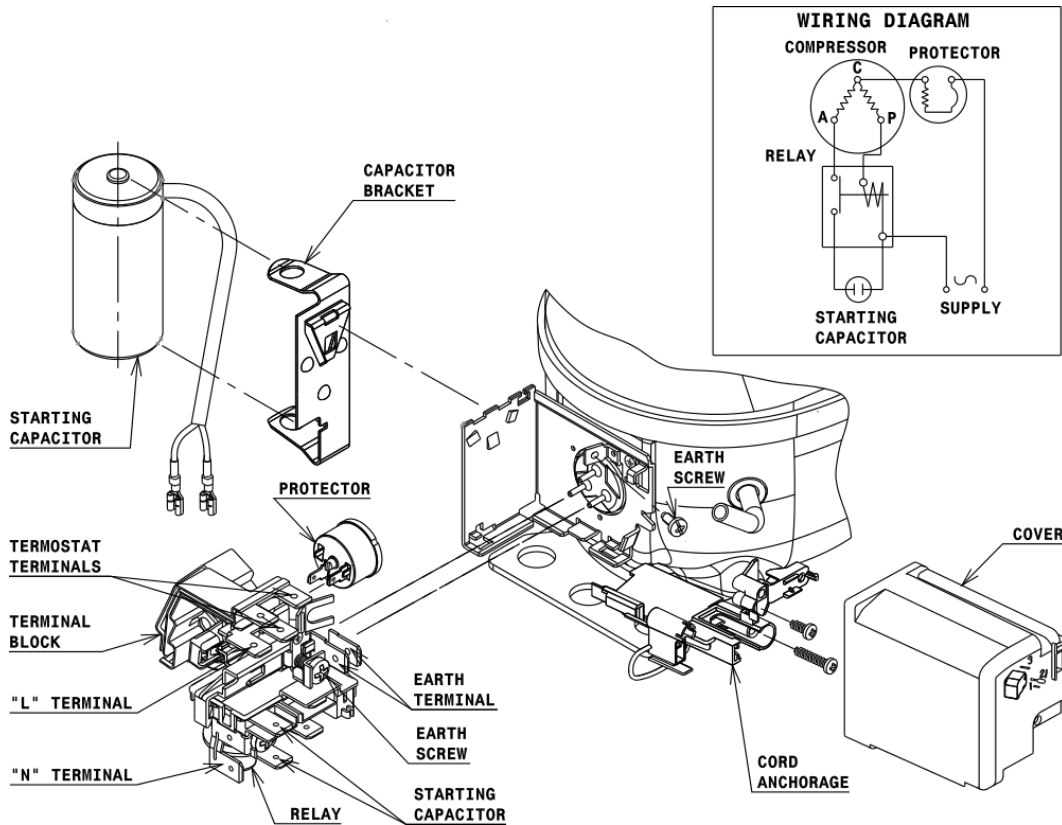


DESIGNATION INTERNAL DIAM.

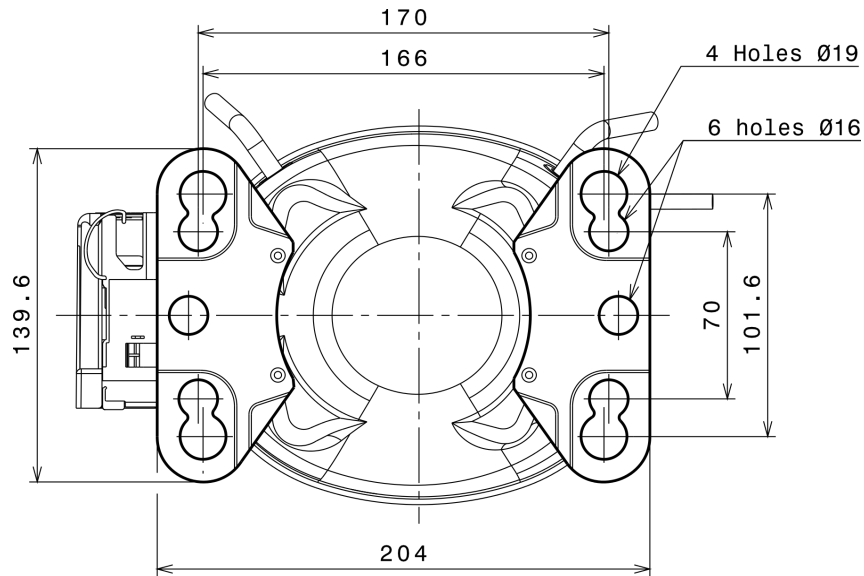
DESIGNATION	INTERNAL DIAM.
1 Service	6,2 mm
2 Suction	6,2 mm
3 Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



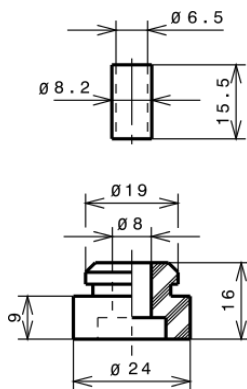
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

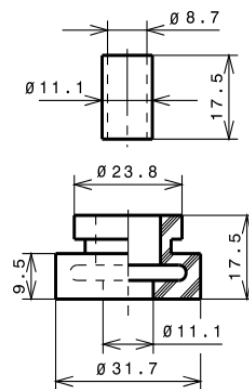
STANDARD

$\varnothing 16$ holes (170x70 net)



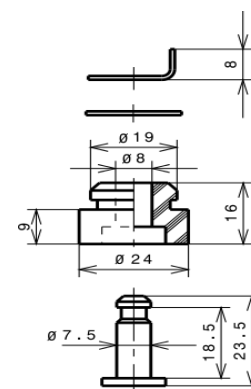
AMERICAN FEET

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



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA