

Technical Data Sheet

Compressor model **NUY60RAb**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R290**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	6,00 cm ³	Nominal Power	1/4 hp
Refrigerant	R290	Diameter	21,99 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	16,00 mm	Voltage range	198-255 V
Expansion	Capillar/Valve	Net Weight	9,48 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 46 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	220 cm ³	Locked Rotor Amps (LRA)	13,70 A
				Max. Cont. Current (MCC)	3,10 A
				Main W. resist. at 25°C	7,44 Ω
				Start W. resist. at 25°C	31,90 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	731 kCal/h	716 W
COP	2,83 W/W	2,42 W/W
EER	2,44 kCal/Wh	2,09 kCal/Wh
Input Power	300 W	296 W
Current	1,64 A	1,62 A



TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V		
Run capacitor	5 µF 400 V		
Relay	Option 1	Option 2	
Reference	2014 118. + NTC15Ω	QLZ-3.75+NTC15	
Pick-Up	3.80 A	3.75 A	
Drop-Out	3.25 A	3.20 A	
Protector	Option 1	Option 2	
Reference	T0269	B96-105	
Current	9,60 A	9,60 A	
Time check	7,5-14 seg	7,5-16 seg	
Disc temp. (Open/Close)	105,00 / 52,00 °C	115,00 / 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	-25	254	177	1,17	1,67	1,43
40	-20	320	190	1,21	1,95	1,68
40	-15	397	203	1,24	2,28	1,96
40	-10	486	214	1,28	2,64	2,27
40	-5	585	225	1,32	3,03	2,60
40	0	695	234	1,35	3,45	2,97
40	5	817	243	1,38	3,92	3,37
40	7,2	874	246	1,40	4,13	3,55
40	10	949	250	1,41	4,41	3,79

45	-25	237	183	1,19	1,51	1,30
45	-20	299	198	1,23	1,75	1,51
45	-15	371	213	1,28	2,03	1,75
45	-10	455	226	1,32	2,34	2,01
45	-5	549	238	1,37	2,68	2,31
45	0	655	249	1,41	3,05	2,63
45	5	771	260	1,45	3,45	2,97
45	7,2	826	264	1,47	3,64	3,13
45	10	899	269	1,49	3,88	3,34

50	-25	221	189	1,20	1,36	1,17
50	-20	277	206	1,25	1,57	1,35
50	-15	345	222	1,31	1,81	1,55
50	-10	424	237	1,36	2,08	1,79
50	-5	514	252	1,42	2,37	2,04
50	0	614	265	1,48	2,70	2,32
50	5	726	277	1,53	3,05	2,62
50	7,2	779	282	1,55	3,21	2,76
50	10	848	288	1,58	3,42	2,94

55	-25	204	195	1,22	1,22	1,05
55	-20	256	214	1,28	1,39	1,20
55	-15	319	232	1,34	1,60	1,38
55	-10	393	249	1,41	1,84	1,58
55	-5	478	265	1,48	2,10	1,80
55	0	574	280	1,54	2,38	2,05
55	5	681	294	1,61	2,69	2,31
55	7,2	731	300	1,64	2,83	2,44
55	10	798	307	1,68	3,02	2,60

60	-25	188	201	1,24	1,08	0,93
60	-20	235	222	1,31	1,23	1,06
60	-15	293	242	1,38	1,41	1,21
60	-10	362	261	1,46	1,62	1,39
60	-5	442	278	1,54	1,85	1,59
60	0	533	295	1,62	2,10	1,81
60	5	635	311	1,70	2,37	2,04
60	7,2	684	318	1,73	2,50	2,15
60	10	748	326	1,78	2,67	2,29

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	273	178	1,17	1,53	1,32
40	-20	345	191	1,21	1,80	1,56
40	-15	429	204	1,25	2,10	1,82
40	-10	524	215	1,29	2,43	2,10
40	-5	631	226	1,32	2,79	2,41
40	0	749	236	1,36	3,18	2,75
40	5	878	244	1,39	3,60	3,11
40	7,2	939	248	1,40	3,79	3,27
40	10	1.019	252	1,42	4,05	3,50

45	-25	254	184	1,19	1,38	1,19
45	-20	320	199	1,23	1,61	1,39
45	-15	398	214	1,28	1,86	1,61
45	-10	487	227	1,33	2,15	1,85
45	-5	588	240	1,37	2,45	2,12
45	0	700	251	1,42	2,79	2,41
45	5	824	261	1,46	3,15	2,72
45	7,2	882	266	1,48	3,32	2,87
45	10	959	271	1,50	3,54	3,06

50	-25	234	190	1,21	1,23	1,07
50	-20	295	207	1,26	1,42	1,23
50	-15	367	224	1,31	1,64	1,42
50	-10	451	239	1,37	1,89	1,63
50	-5	546	253	1,43	2,16	1,86
50	0	652	266	1,48	2,45	2,11
50	5	770	279	1,54	2,76	2,39
50	7,2	825	284	1,56	2,91	2,51
50	10	899	290	1,59	3,10	2,68

55	-25	215	196	1,22	1,10	0,95
55	-20	270	215	1,28	1,25	1,08
55	-15	336	233	1,35	1,44	1,25
55	-10	414	250	1,42	1,65	1,43
55	-5	503	267	1,48	1,89	1,63
55	0	604	282	1,55	2,14	1,85
55	5	716	296	1,62	2,42	2,09
55	7,2	769	302	1,65	2,55	2,20
55	10	839	309	1,69	2,71	2,34

60	-25	196	202	1,24	0,97	0,84
60	-20	245	223	1,31	1,10	0,95
60	-15	305	243	1,39	1,26	1,09
60	-10	377	262	1,46	1,44	1,24
60	-5	461	280	1,54	1,64	1,42
60	0	555	297	1,63	1,87	1,61
60	5	662	313	1,71	2,11	1,82
60	7,2	712	320	1,74	2,22	1,92
60	10	779	328	1,79	2,37	2,05

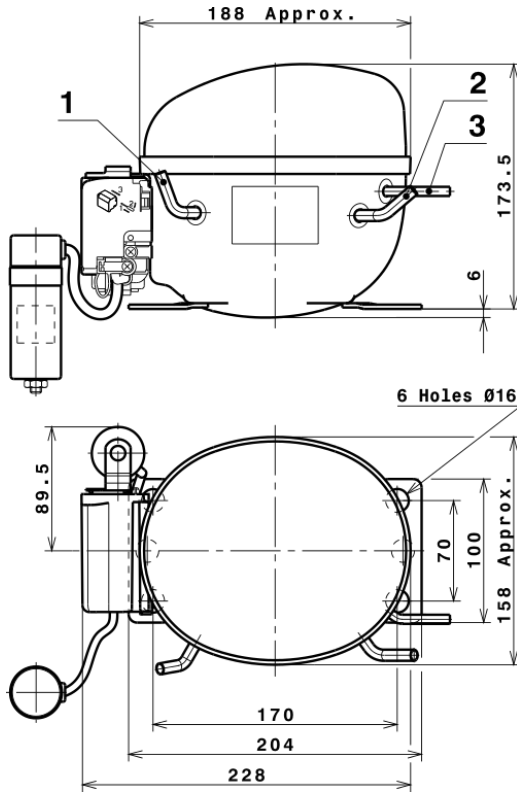
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.138,2096795653	115,0365511858	0,7696043403	9,9682606255476
2	34,1866254793	-1,1675253875	-0,0096991133	0,33528262603563
3	-10,0164073978	3,1716032681	0,0148509195	-0,031621647566234
4	0,2245655129	-0,0184893091	0,0000343556	0,0036013850818824
5	-0,2442271613	0,0774989707	0,0004460934	-0,00052475103990536

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

COMPRESSOR DIMENSIONS

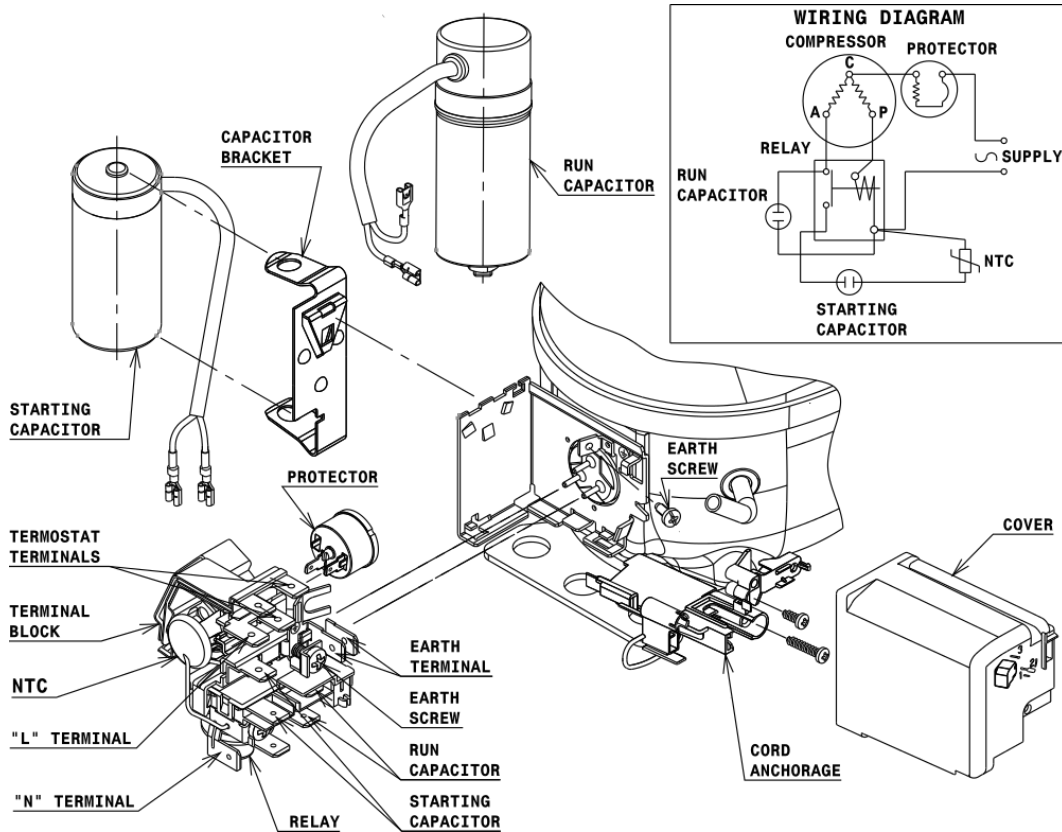


DESIGNATION INTERNAL DIAM.

1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

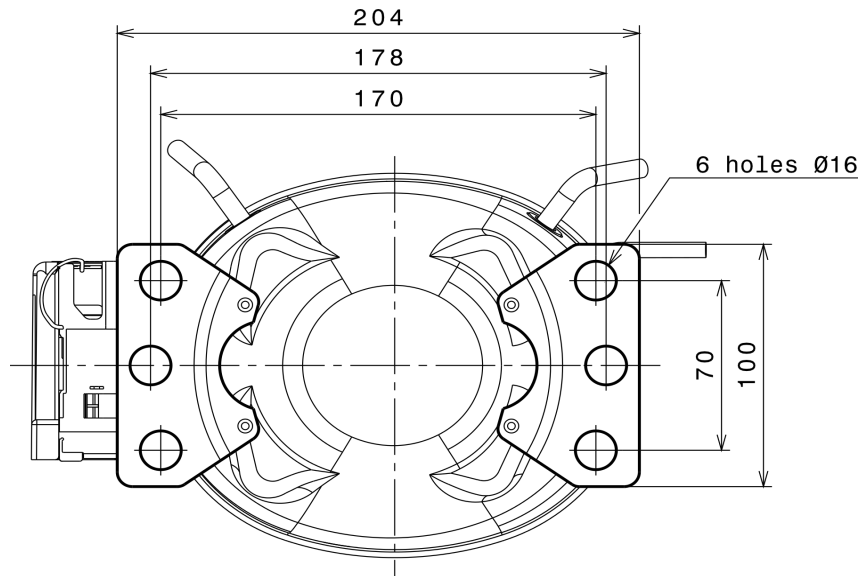
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (U range)



Technical Data Sheet

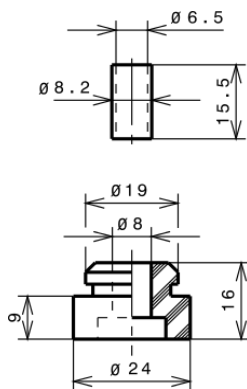
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

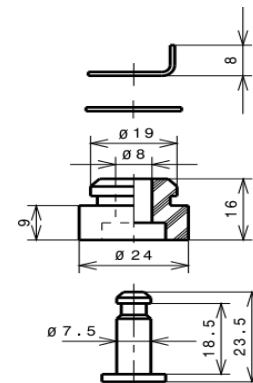
STANDARD

$\varnothing 16$ holes (170x70 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R290 HMBP

