

Technical Data Sheet

Compressor model **NUY140NAb**
Voltage **220-240V 50Hz ~1**
Refrigerant **R290**
Compressor status

APPLICATION		COMPRESSOR		MOTOR	
Application	Low-Medium Back Pressure	Displacement	14,20 cm³	Voltage/Frequency	220-240V 50Hz
Refrigerant	R290	Diameter	0,00 mm	Voltage range	187-255 V
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	0,00 mm	Type	CSR
Expansion	Capillar/Valve	Net Weight	11,50 Kg	Phase number	1 PH
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Locked Rotor Amps (LRA)	17,70 A
Max. ambient temp.	43,0 °C	Oil charge	300 cm³	Max. Cont. Current (MCC)	3,70 A
		HP	1/2 hp	Main W. resist. at 25°C	5,41 Ω
				Start W. resist. at 25°C	17,86 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	570 kCal/h	494 W
COP	1,47 W/W	1,13 W/W
EER	1,26 kCal/Wh	0,98 kCal/Wh
Input Power	452 W	436 W
Current	2,28 A	2,21 A

APPROVALS



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	60-61 µF 330 V			
Run capacitor	10 µF 420 V			
Relay	Option 1	Option 2		
Reference	2014 158. + NTC15Î©	QLZ-9.05A + NTC15Î©		
Pick-Up	9,05 A	9,05 A		
Drop-Out	7,70 A	7,70 A		
Protector	Option 1			
Reference	B113-105			
Current	11,50 A			
Time check	7,5-16 seg			
Disc temp. (Open/Close)	110,00 / 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	265	299	1,68	1,03	0,89
40	-35	351	332	1,81	1,23	1,06
40	-30	459	366	1,94	1,46	1,25
40	-25	588	401	2,07	1,70	1,47
40	-23,3	636	414	2,12	1,79	1,54
40	-20	737	438	2,22	1,96	1,69
40	-15	908	475	2,38	2,22	1,91
40	-10	1.099	513	2,54	2,49	2,14
40	-5	1.311	553	2,71	2,76	2,37
40	0	1.544	593	2,89	3,03	2,60

45	-40	253	299	1,69	0,98	0,85
45	-35	337	336	1,82	1,17	1,00
45	-30	441	374	1,97	1,37	1,18
45	-25	567	413	2,12	1,60	1,37
45	-23,3	614	426	2,18	1,68	1,44
45	-20	713	453	2,28	1,83	1,57
45	-15	880	494	2,46	2,07	1,78
45	-10	1.068	536	2,64	2,32	1,99
45	-5	1.277	579	2,83	2,57	2,21
45	0	1.507	623	3,03	2,81	2,42

50	-40	242	300	1,69	0,94	0,81
50	-35	322	340	1,84	1,10	0,95
50	-30	424	382	2,00	1,29	1,11
50	-25	546	424	2,17	1,50	1,29
50	-23,3	592	439	2,23	1,57	1,35
50	-20	689	468	2,35	1,71	1,47
50	-15	853	513	2,54	1,93	1,66
50	-10	1.038	559	2,74	2,16	1,86
50	-5	1.243	605	2,95	2,39	2,05
50	0	1.470	653	3,18	2,62	2,25

55	-40	230	300	1,69	0,89	0,77
55	-35	307	344	1,85	1,04	0,89
55	-30	406	390	2,03	1,21	1,04
55	-25	525	436	2,21	1,40	1,20
55	-23,3	570	452	2,28	1,47	1,26
55	-20	665	483	2,41	1,60	1,38
55	-15	826	532	2,62	1,81	1,55
55	-10	1.007	581	2,84	2,02	1,73
55	-5	1.210	632	3,07	2,23	1,92
55	0	1.433	683	3,32	2,44	2,10

60	-40	219	301	1,69	0,85	0,73
60	-35	293	349	1,87	0,98	0,84
60	-30	388	398	2,06	1,13	0,98
60	-25	504	448	2,26	1,31	1,13
60	-23,3	548	465	2,33	1,37	1,18
60	-20	640	499	2,48	1,49	1,28
60	-15	798	551	2,70	1,69	1,45
60	-10	977	604	2,94	1,88	1,62
60	-5	1.176	658	3,20	2,08	1,79
60	0	1.396	713	3,47	2,28	1,96

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	287	299	1,68	0,96	0,83
40	-35	393	332	1,81	1,18	1,02
40	-30	518	366	1,94	1,42	1,22
40	-25	663	401	2,07	1,65	1,43
40	-23,3	717	414	2,12	1,73	1,50
40	-20	827	438	2,22	1,89	1,63
40	-15	1.010	475	2,38	2,13	1,84
40	-10	1.212	513	2,54	2,36	2,04
40	-5	1.434	553	2,71	2,59	2,24
40	0	1.675	593	2,89	2,82	2,44

45	-40	263	299	1,69	0,88	0,76
45	-35	359	336	1,82	1,07	0,92
45	-30	473	374	1,97	1,26	1,09
45	-25	606	413	2,12	1,47	1,27
45	-23,3	656	426	2,18	1,54	1,33
45	-20	759	453	2,28	1,68	1,45
45	-15	931	494	2,46	1,89	1,63
45	-10	1.123	536	2,64	2,10	1,81
45	-5	1.334	579	2,83	2,30	1,99
45	0	1.563	623	3,03	2,51	2,17

50	-40	240	300	1,69	0,80	0,69
50	-35	324	340	1,84	0,95	0,82
50	-30	427	382	2,00	1,12	0,97
50	-25	550	424	2,17	1,30	1,12
50	-23,3	596	439	2,23	1,36	1,17
50	-20	692	468	2,35	1,48	1,28
50	-15	853	513	2,54	1,66	1,44
50	-10	1.033	559	2,74	1,85	1,60
50	-5	1.233	605	2,95	2,04	1,76
50	0	1.452	653	3,18	2,22	1,92

55	-40	217	300	1,69	0,72	0,62
55	-35	290	344	1,85	0,84	0,73
55	-30	382	390	2,03	0,98	0,85
55	-25	494	436	2,21	1,13	0,98
55	-23,3	536	452	2,28	1,19	1,02
55	-20	624	483	2,41	1,29	1,12
55	-15	774	532	2,62	1,46	1,26
55	-10	944	581	2,84	1,62	1,40
55	-5	1.132	632	3,07	1,79	1,55
55	0	1.340	683	3,32	1,96	1,70

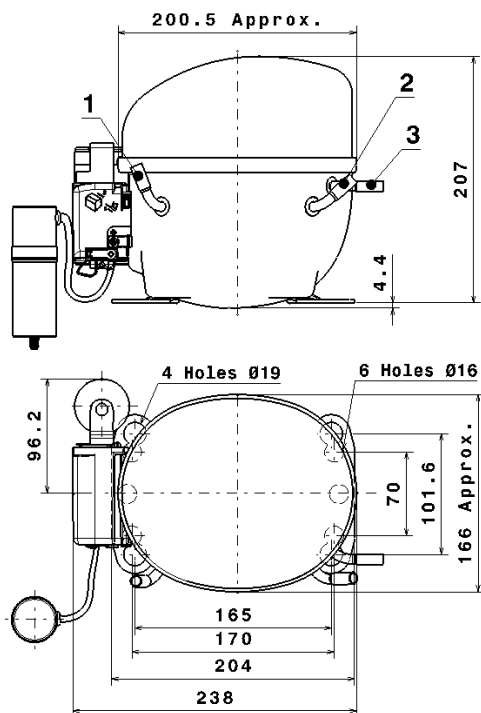
60	-40	193	301	1,69	0,64	0,56
60	-35	255	349	1,87	0,73	0,63
60	-30	337	398	2,06	0,85	0,73
60	-25	437	448	2,26	0,98	0,84
60	-23,3	476	465	2,33	1,02	0,88
60	-20	557	499	2,48	1,12	0,97
60	-15	696	551	2,70	1,26	1,09
60	-10	854	604	2,94	1,41	1,22
60	-5	1.032	658	3,20	1,57	1,36
60	0	1.229	713	3,47	1,72	1,49

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2,565,7341498810	362,4572721880	1,7711604247	23,399085625791
2	67,4509326876	2,4600846744	0,0121085199	0,70252685841125
3	-22,9490755873	6,1607468361	0,0297929687	-0,09435109108599
4	0,3762860451	0,0230175722	0,0002539663	0,0056614459215584
5	-0,4557572832	0,1514644943	0,0007354895	-0,0016553463428618

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

COMPRESSOR DIMENSIONS

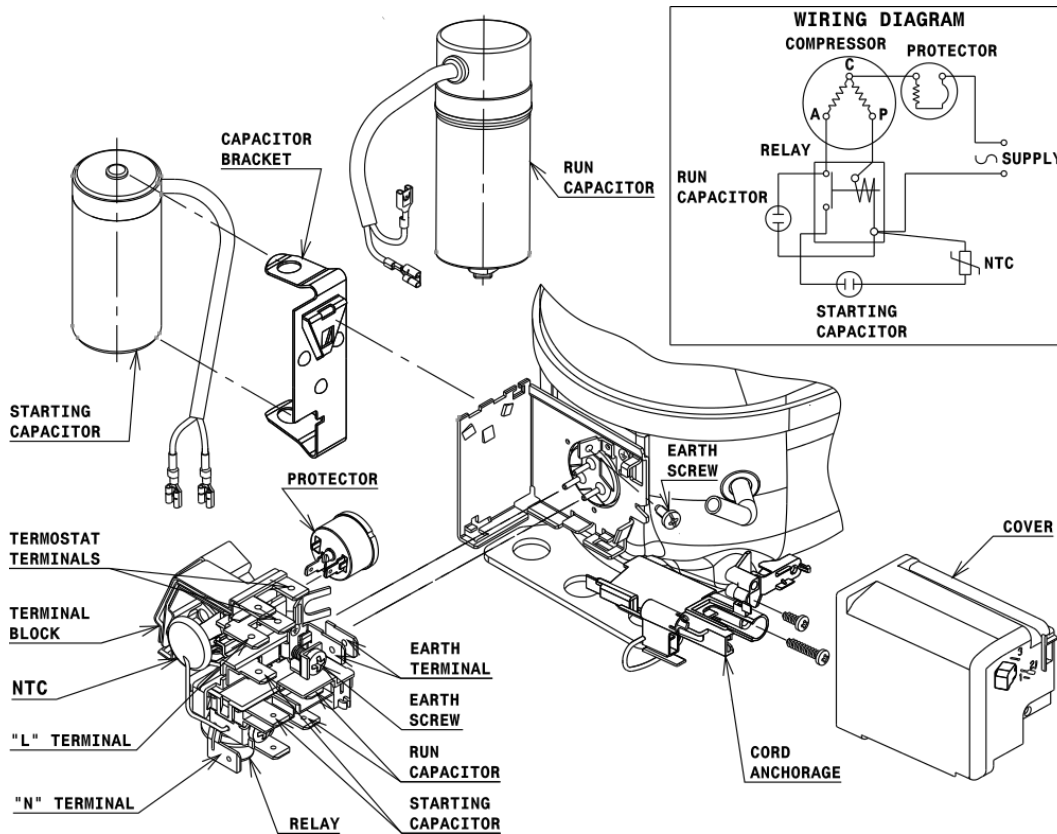


DESIGNATION INTERNAL DIAM.

1	Service	8,1 mm
2	Suction	8,1 mm
3	Discharge	6,5 mm

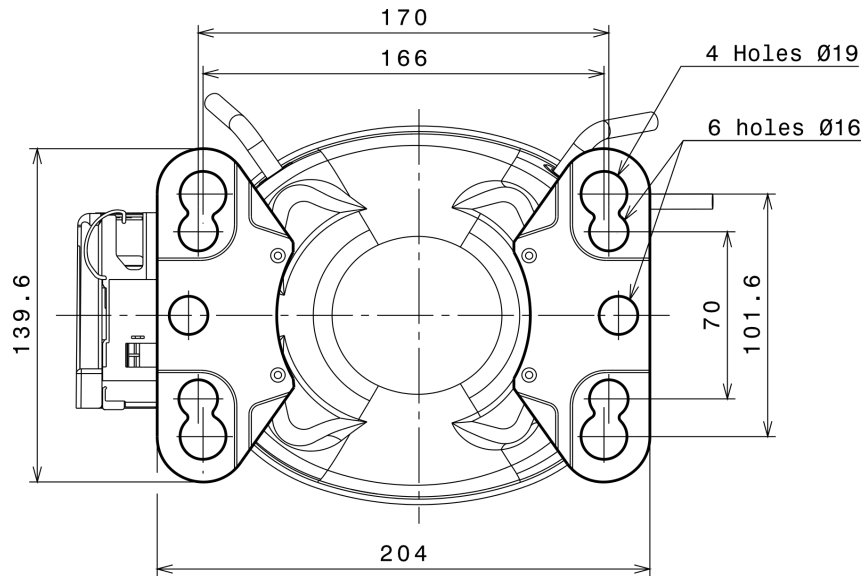
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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



Technical Data Sheet

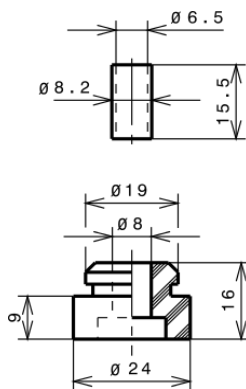
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

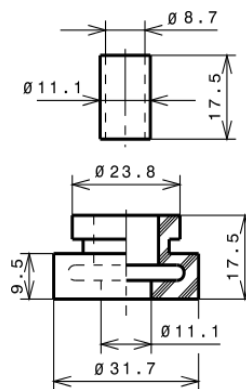
STANDARD

Ø16 holes (170x70 net)



AMERICAN FEET

Ø19 holes (166x101.6 net)



SOA

SOA R290 LMBP

