

Technical Data Sheet

Compressor model **NUT60LRa**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R290**

APPLICATION

Application Low Back Pressure
 Refrigerant R290
 Evaporating Temp. -40,0 °C to -10,0 °C
 Expansion Capillar/Valve
 Comp. Cooling Fan cooled
 Max. ambient temp. 43,0 °C

COMPRESSOR

Displacement 6,00 cm³
 Diameter 21,99 mm
 Stroke 16,00 mm
 Net Weight 9,40 Kg
 Oil type ISO VG 15 ESTER
 Oil charge 200 cm³

MOTOR

Nominal Power 1/3 hp
 Voltage/Frequency 115-127V 60Hz
 Voltage range 98-140 V
 Type CSIR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 20,00 A
 Max. Cont. Current (MCC) 4,10 A
 Main W. resist. at 25°C 2,65 Ω
 Start W. resist. at 25°C 4,26 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	307 kCal/h	266 W
COP	1,60 W/W	1,25 W/W
EER	1,38 kCal/Wh	1,08 kCal/Wh
Input Power	223 W	212 W
Current	2,63 A	2,56 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (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	200 µF 160 V			
Relay	Option 1			
Reference	2014 158.			
Pick-Up	9,05 A			
Drop-Out	7,70 A			
Protector	Option 1			
Reference	T0267			
Current	11,00 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	143	139	2,07	1,20	1,03
40	-35	186	141	2,09	1,53	1,32
40	-30	242	149	2,15	1,88	1,62
40	-25	309	163	2,24	2,21	1,90
40	-23,3	335	168	2,28	2,31	1,99
40	-20	388	181	2,37	2,49	2,14
40	-15	479	205	2,52	2,71	2,33
40	-10	581	235	2,70	2,88	2,48

45	-40	138	140	2,08	1,15	0,99
45	-35	180	148	2,13	1,42	1,22
45	-30	235	161	2,23	1,70	1,46
45	-25	300	179	2,35	1,95	1,68
45	-23,3	325	187	2,40	2,03	1,74
45	-20	378	203	2,51	2,17	1,86
45	-15	467	232	2,68	2,34	2,02
45	-10	568	266	2,87	2,48	2,14

50	-40	134	142	2,09	1,10	0,94
50	-35	175	154	2,18	1,32	1,13
50	-30	227	172	2,31	1,53	1,32
50	-25	292	196	2,46	1,73	1,49
50	-23,3	316	205	2,52	1,80	1,54
50	-20	368	224	2,64	1,91	1,64
50	-15	456	258	2,83	2,05	1,76
50	-10	555	298	3,03	2,17	1,87

55	-40	129	143	2,10	1,05	0,90
55	-35	169	161	2,23	1,22	1,05
55	-30	220	184	2,38	1,39	1,20
55	-25	283	212	2,56	1,55	1,33
55	-23,3	307	223	2,63	1,60	1,38
55	-20	358	246	2,76	1,69	1,45
55	-15	444	285	2,97	1,81	1,56
55	-10	542	329	3,18	1,92	1,65

60	-40	125	145	2,11	1,00	0,86
60	-35	163	167	2,27	1,13	0,97
60	-30	213	195	2,46	1,27	1,09
60	-25	274	229	2,66	1,39	1,20
60	-23,3	298	241	2,74	1,44	1,23
60	-20	347	267	2,88	1,51	1,30
60	-15	432	311	3,10	1,62	1,39
60	-10	529	361	3,31	1,71	1,47

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	155	139	2,07	1,12	0,97
40	-35	207	141	2,09	1,47	1,27
40	-30	270	149	2,15	1,81	1,56
40	-25	344	163	2,24	2,12	1,83
40	-23,3	372	168	2,28	2,21	1,91
40	-20	429	181	2,37	2,37	2,04
40	-15	524	205	2,52	2,56	2,21
40	-10	631	235	2,70	2,69	2,32

45	-40	144	140	2,08	1,03	0,89
45	-35	191	148	2,13	1,29	1,12
45	-30	249	161	2,23	1,55	1,34
45	-25	318	179	2,35	1,78	1,53
45	-23,3	344	187	2,40	1,84	1,59
45	-20	398	203	2,51	1,96	1,70
45	-15	489	232	2,68	2,11	1,82
45	-10	590	266	2,87	2,22	1,92

50	-40	133	142	2,09	0,94	0,81
50	-35	175	154	2,18	1,13	0,98
50	-30	228	172	2,31	1,32	1,14
50	-25	292	196	2,46	1,49	1,29
50	-23,3	316	205	2,52	1,54	1,33
50	-20	367	224	2,64	1,64	1,41
50	-15	453	258	2,83	1,75	1,51
50	-10	549	298	3,03	1,85	1,59

55	-40	122	143	2,10	0,85	0,73
55	-35	159	161	2,23	0,99	0,85
55	-30	207	184	2,38	1,13	0,97
55	-25	266	212	2,56	1,25	1,08
55	-23,3	289	223	2,63	1,29	1,12
55	-20	336	246	2,76	1,37	1,18
55	-15	417	285	2,97	1,46	1,26
55	-10	508	329	3,18	1,54	1,33

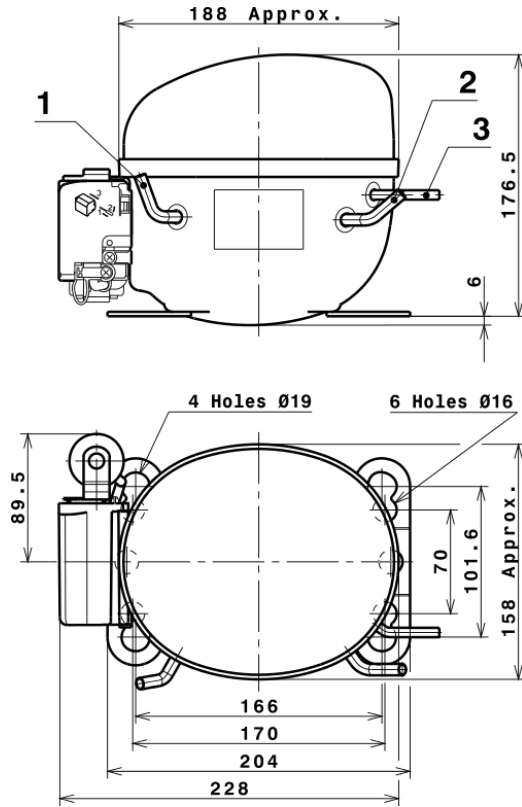
60	-40	110	145	2,11	0,76	0,66
60	-35	143	167	2,27	0,85	0,74
60	-30	186	195	2,46	0,95	0,82
60	-25	240	229	2,66	1,05	0,91
60	-23,3	261	241	2,74	1,08	0,93
60	-20	305	267	2,88	1,14	0,99
60	-15	381	311	3,10	1,22	1,06
60	-10	467	361	3,31	1,30	1,12

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.277,8025494583	-23,1868440692	1,5005523184	11,947214705842
2	34,3646829874	0,5696613028	0,0001167941	0,3675674283716
3	-10,4364427557	8,5054534153	0,0400889688	-0,039872114549606
4	0,2115199718	0,1095091443	0,0003155014	0,0030855134405122
5	-0,2046654276	0,2049738057	0,0009469116	-0,00072135663439298

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

COMPRESSOR DIMENSIONS

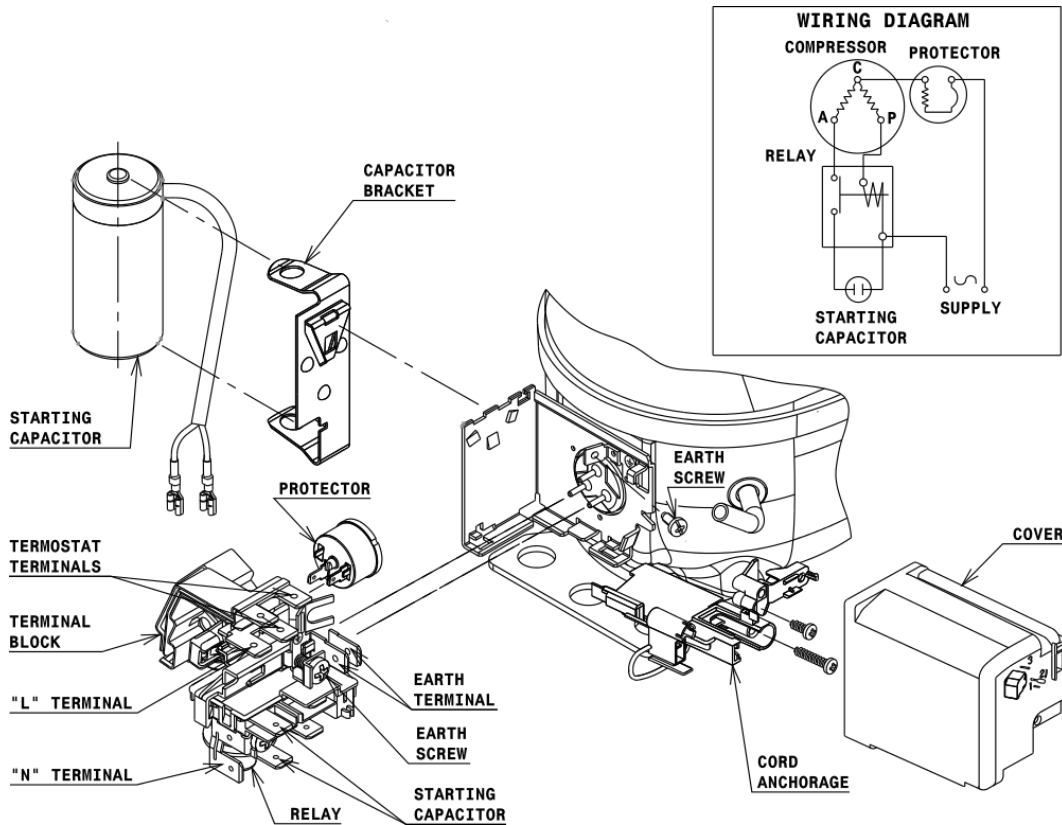


DESIGNATION INTERNAL DIAM.

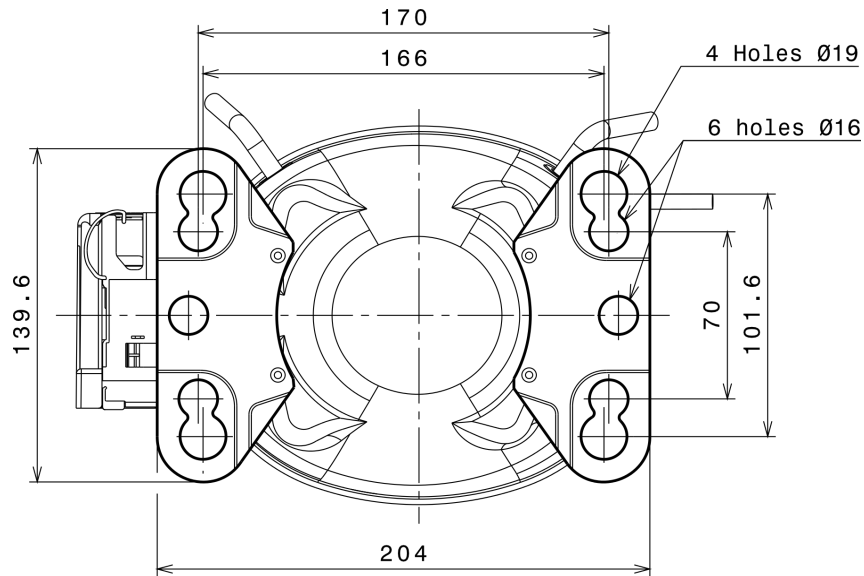
DESIGNATION	INTERNAL DIAM.
1 Service	6,2 mm
2 Suction	6,2 mm
3 Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

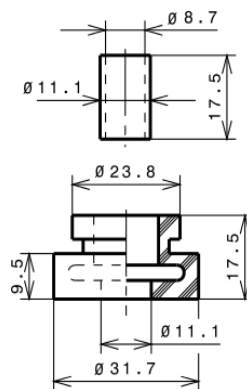
STANDARD

$\varnothing 16$ holes (170x70 net)



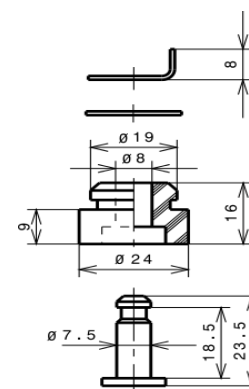
AMERICAN FEET

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



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA