

Technical Data Sheet

Compressor model **NUT60LRc**
 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 Static
 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 10 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) 3,70 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	1,24 W/W
EER	1,38 kCal/Wh	1,07 kCal/Wh
Input Power	223 W	214 W
Current	2,63 A	2,57 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	T0188			
Current	12,30 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	115,00 / 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	143	139	2,07	1,20	1,03
40	-35	186	155	2,17	1,40	1,20
40	-30	242	173	2,29	1,63	1,40
40	-25	309	191	2,41	1,88	1,62
40	-23,3	335	198	2,45	1,97	1,69
40	-20	388	211	2,54	2,14	1,84
40	-15	479	231	2,69	2,41	2,07
40	-10	581	252	2,85	2,68	2,31

45	-40	138	140	2,08	1,15	0,99
45	-35	180	159	2,20	1,32	1,14
45	-30	235	178	2,32	1,53	1,32
45	-25	300	199	2,46	1,76	1,51
45	-23,3	325	206	2,51	1,84	1,58
45	-20	378	220	2,61	1,99	1,72
45	-15	467	243	2,78	2,24	1,92
45	-10	568	266	2,95	2,48	2,14

50	-40	134	142	2,09	1,10	0,94
50	-35	175	162	2,22	1,25	1,08
50	-30	227	184	2,36	1,44	1,24
50	-25	292	207	2,51	1,64	1,41
50	-23,3	316	215	2,57	1,71	1,47
50	-20	368	230	2,68	1,86	1,60
50	-15	456	255	2,87	2,08	1,79
50	-10	555	280	3,07	2,31	1,98

55	-40	129	143	2,10	1,05	0,90
55	-35	169	166	2,24	1,18	1,02
55	-30	220	190	2,40	1,35	1,16
55	-25	283	214	2,57	1,53	1,32
55	-23,3	307	223	2,63	1,60	1,38
55	-20	358	240	2,75	1,73	1,49
55	-15	444	267	2,96	1,94	1,67
55	-10	542	294	3,18	2,14	1,84

60	-40	125	145	2,11	1,00	0,86
60	-35	163	169	2,26	1,12	0,96
60	-30	213	195	2,44	1,27	1,09
60	-25	274	222	2,62	1,44	1,23
60	-23,3	298	231	2,69	1,50	1,29
60	-20	347	250	2,83	1,62	1,39
60	-15	432	278	3,05	1,81	1,55
60	-10	529	308	3,30	2,00	1,72

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	155	2,17	1,33	1,15
40	-30	270	173	2,29	1,56	1,35
40	-25	344	191	2,41	1,80	1,56
40	-23,3	372	198	2,45	1,88	1,62
40	-20	429	211	2,54	2,04	1,76
40	-15	524	231	2,69	2,27	1,96
40	-10	631	252	2,85	2,50	2,16

45	-40	144	140	2,08	1,03	0,89
45	-35	191	159	2,20	1,20	1,04
45	-30	249	178	2,32	1,40	1,21
45	-25	318	199	2,46	1,60	1,38
45	-23,3	344	206	2,51	1,67	1,44
45	-20	398	220	2,61	1,81	1,56
45	-15	489	243	2,78	2,01	1,74
45	-10	590	266	2,95	2,22	1,92

50	-40	133	142	2,09	0,94	0,81
50	-35	175	162	2,22	1,08	0,93
50	-30	228	184	2,36	1,24	1,07
50	-25	292	207	2,51	1,41	1,22
50	-23,3	316	215	2,57	1,47	1,27
50	-20	367	230	2,68	1,59	1,38
50	-15	453	255	2,87	1,78	1,54
50	-10	549	280	3,07	1,96	1,69

55	-40	122	143	2,10	0,85	0,73
55	-35	159	166	2,24	0,96	0,83
55	-30	207	190	2,40	1,09	0,94
55	-25	266	214	2,57	1,24	1,07
55	-23,3	289	223	2,63	1,29	1,12
55	-20	336	240	2,75	1,40	1,21
55	-15	417	267	2,96	1,56	1,35
55	-10	508	294	3,18	1,73	1,49

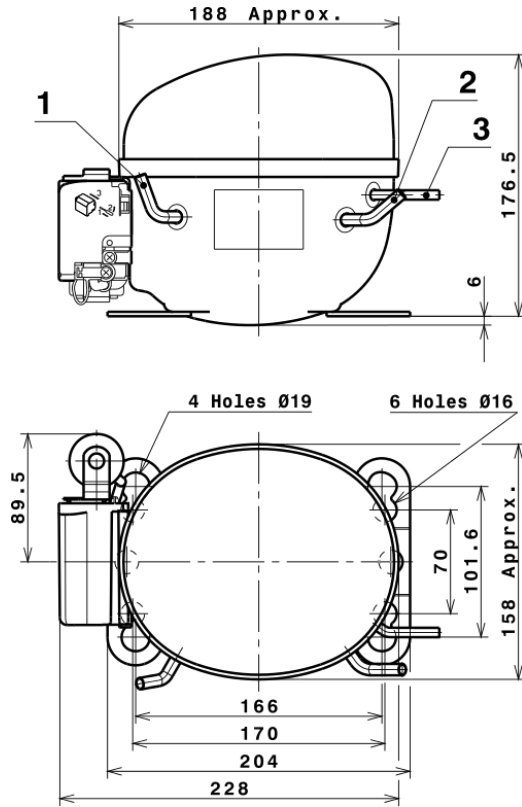
60	-40	110	145	2,11	0,76	0,66
60	-35	143	169	2,26	0,84	0,73
60	-30	186	195	2,44	0,95	0,82
60	-25	240	222	2,62	1,08	0,93
60	-23,3	261	231	2,69	1,13	0,97
60	-20	305	250	2,83	1,22	1,05
60	-15	381	278	3,05	1,37	1,18
60	-10	467	308	3,30	1,52	1,31

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.277,8025494583	156,0486951311	2,0666891094	11,947214705842
2	34,3646829874	1,4550525069	0,0149483968	0,3675674283716
3	-10,4364427557	3,7234420384	0,0306314948	-0,039872114549606
4	0,2115199718	0,0196217124	0,0003424685	0,0030855134405122
5	-0,2046654276	0,0854235212	0,0007193976	-0,00072135663439298

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

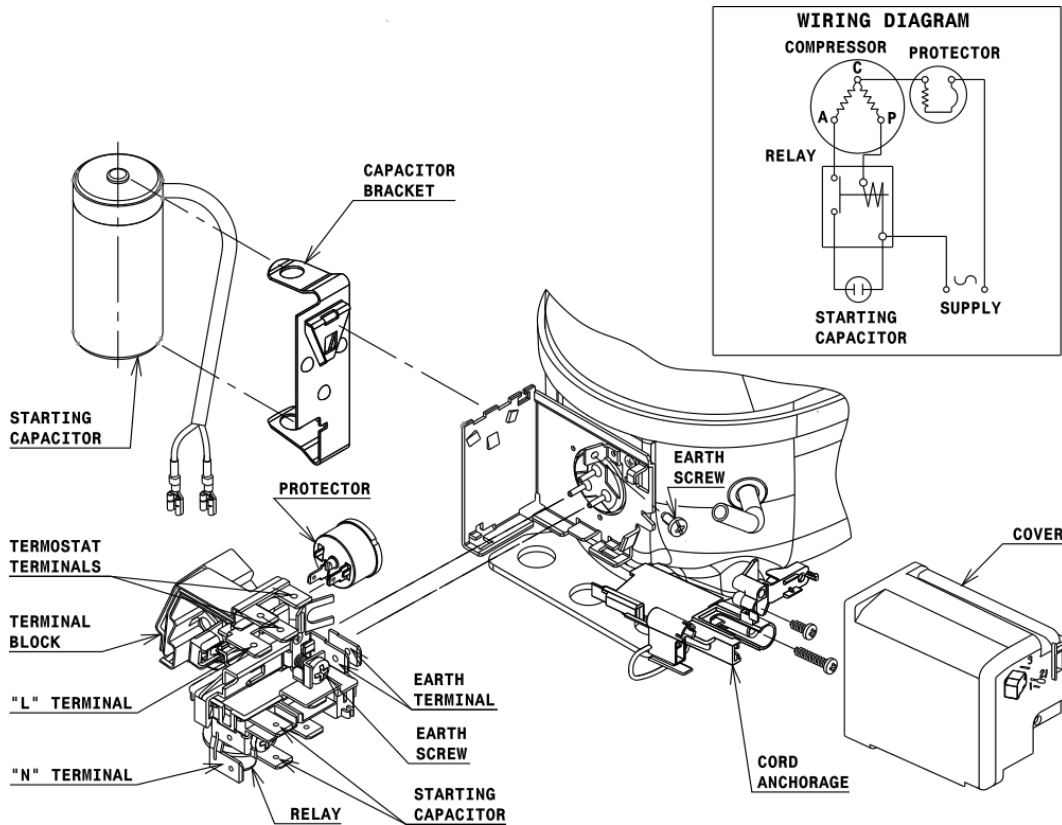


DESIGNATION INTERNAL DIAM.

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

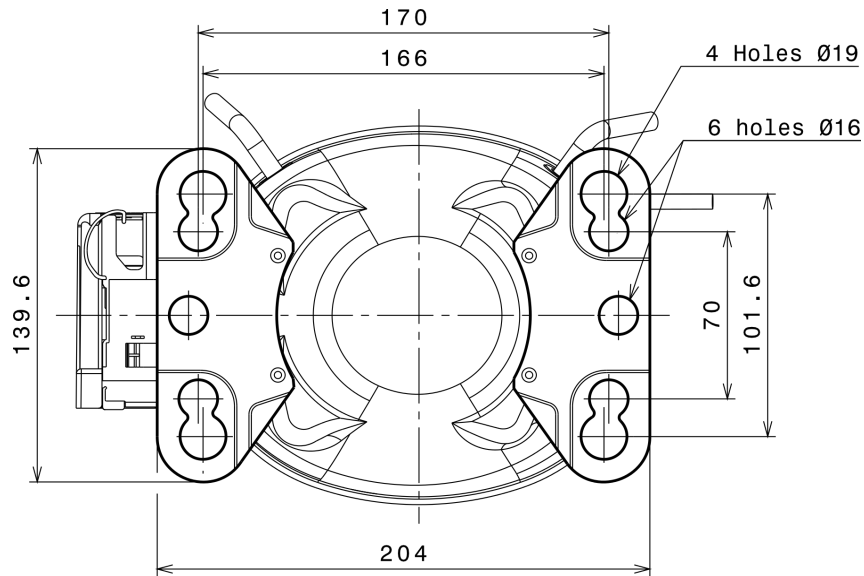
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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 LBP

