

Technical Data Sheet

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

APPLICATION

COMPRESSOR

MOTOR

Application	Low-Medium Back Pressure	Displacement	6,00 cm ³	Voltage/Frequency	115-127V 60Hz
Refrigerant	R290	Diameter	21,99 mm	Voltage range	98-140 V
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	16,00 mm	Type	CSIR
Expansion	Capillar/Valve	Net Weight	9,40 Kg	Phase number	1 PH
Comp. Cooling	Fan cooled	Oil type	ISO VG 15 ESTER	Locked Rotor Amps (LRA)	20,00 A
Max. ambient temp.	43,0 °C	Oil charge	200 cm ³	Max. Cont. Current (MCC)	4,40 A
		HP	1/3 hp	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	215 W
Current	2,63 A	2,57 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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	200 µF 160 V			
Relay	Option 1	Option 2		
Reference	2014 158.	QLZ-9.05A		
Pick-Up	9,05 A	9.05 A		
Drop-Out	7,70 A	7.7 A		
Protector	Option 1	Option 2		
Reference	T0267	B113-105		
Current	11,00 A	11,50 A		
Time check	7,5-14 seg	7,5-16 seg		
Disc temp. (Open/Close)	105,00 / 52,00 °C	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	143	139	2,07	1,20	1,03
40	-35	190	156	2,18	1,42	1,22
40	-30	249	174	2,29	1,67	1,43
40	-25	319	192	2,42	1,93	1,66
40	-23,3	345	198	2,46	2,02	1,74
40	-20	399	211	2,55	2,20	1,89
40	-15	491	230	2,68	2,48	2,13
40	-10	593	250	2,83	2,76	2,37
40	-5	707	271	2,98	3,04	2,61
40	0	831	292	3,15	3,32	2,85

45	-40	138	140	2,08	1,15	0,99
45	-35	183	159	2,20	1,34	1,15
45	-30	240	179	2,33	1,56	1,34
45	-25	307	200	2,47	1,79	1,54
45	-23,3	332	207	2,52	1,87	1,61
45	-20	385	220	2,61	2,03	1,75
45	-15	474	242	2,77	2,28	1,96
45	-10	574	264	2,93	2,53	2,18
45	-5	685	286	3,10	2,79	2,39
45	0	807	309	3,29	3,04	2,61

50	-40	134	142	2,09	1,10	0,94
50	-35	176	163	2,22	1,26	1,08
50	-30	230	185	2,37	1,45	1,25
50	-25	295	207	2,52	1,66	1,43
50	-23,3	320	215	2,57	1,73	1,49
50	-20	371	230	2,68	1,88	1,61
50	-15	457	253	2,85	2,10	1,81
50	-10	555	277	3,03	2,33	2,00
50	-5	664	302	3,23	2,56	2,20
50	0	783	327	3,43	2,79	2,40

55	-40	129	143	2,10	1,05	0,90
55	-35	170	166	2,25	1,19	1,02
55	-30	221	190	2,40	1,35	1,16
55	-25	283	215	2,57	1,54	1,32
55	-23,3	307	223	2,63	1,60	1,38
55	-20	357	239	2,75	1,73	1,49
55	-15	441	265	2,94	1,94	1,66
55	-10	536	291	3,14	2,14	1,84
55	-5	642	317	3,35	2,35	2,02
55	0	759	344	3,58	2,57	2,21

60	-40	125	145	2,11	1,00	0,86
60	-35	163	170	2,27	1,11	0,96
60	-30	212	196	2,44	1,26	1,08
60	-25	271	222	2,62	1,42	1,22
60	-23,3	294	231	2,69	1,48	1,27
60	-20	342	249	2,82	1,60	1,38
60	-15	424	276	3,03	1,78	1,53
60	-10	517	304	3,25	1,98	1,70
60	-5	620	333	3,48	2,17	1,87
60	0	735	362	3,73	2,36	2,03

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	213	156	2,18	1,36	1,18
40	-30	281	174	2,29	1,62	1,40
40	-25	359	192	2,42	1,87	1,61
40	-23,3	388	198	2,46	1,95	1,69
40	-20	447	211	2,55	2,12	1,83
40	-15	545	230	2,68	2,37	2,05
40	-10	654	250	2,83	2,61	2,26
40	-5	772	271	2,98	2,85	2,47
40	0	901	292	3,15	3,09	2,67

45	-40	144	140	2,08	1,03	0,89
45	-35	195	159	2,20	1,22	1,06
45	-30	257	179	2,33	1,43	1,24
45	-25	328	200	2,47	1,64	1,42
45	-23,3	355	207	2,52	1,72	1,48
45	-20	410	220	2,61	1,86	1,61
45	-15	501	242	2,77	2,07	1,79
45	-10	603	264	2,93	2,29	1,98
45	-5	715	286	3,10	2,50	2,16
45	0	837	309	3,29	2,71	2,34

50	-40	133	142	2,09	0,94	0,81
50	-35	177	163	2,22	1,09	0,94
50	-30	232	185	2,37	1,26	1,09
50	-25	297	207	2,52	1,44	1,24
50	-23,3	322	215	2,57	1,50	1,29
50	-20	372	230	2,68	1,62	1,40
50	-15	458	253	2,85	1,81	1,56
50	-10	553	277	3,03	1,99	1,72
50	-5	658	302	3,23	2,18	1,89
50	0	774	327	3,43	2,37	2,05

55	-40	122	143	2,10	0,85	0,73
55	-35	160	166	2,25	0,96	0,83
55	-30	208	190	2,40	1,09	0,95
55	-25	266	215	2,57	1,24	1,07
55	-23,3	289	223	2,63	1,29	1,12
55	-20	335	239	2,75	1,40	1,21
55	-15	414	265	2,94	1,56	1,35
55	-10	502	291	3,14	1,73	1,49
55	-5	601	317	3,35	1,90	1,64
55	0	710	344	3,58	2,06	1,78

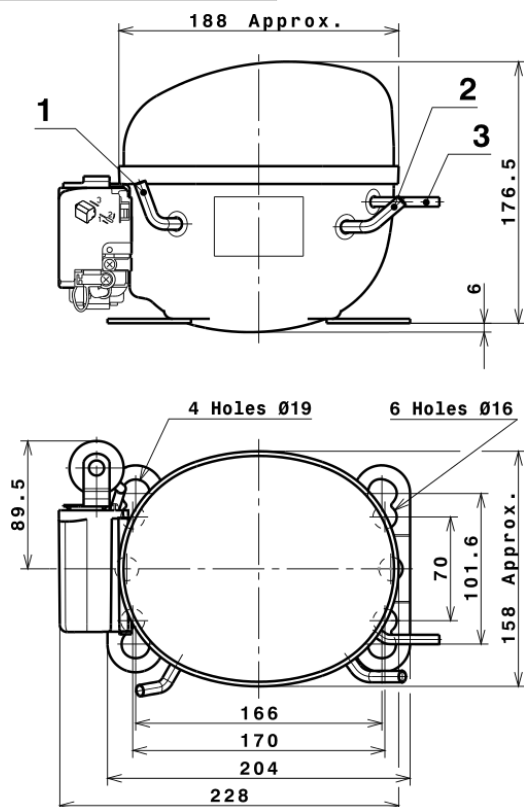
60	-40	110	145	2,11	0,76	0,66
60	-35	142	170	2,27	0,84	0,72
60	-30	184	196	2,44	0,94	0,81
60	-25	236	222	2,62	1,06	0,92
60	-23,3	256	231	2,69	1,11	0,96
60	-20	298	249	2,82	1,20	1,03
60	-15	370	276	3,03	1,34	1,16
60	-10	452	304	3,25	1,48	1,28
60	-5	544	333	3,48	1,64	1,41
60	0	646	362	3,73	1,79	1,54

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.408,2273091215	155,5588576104	1,9830261682	13,009027079757
2	37,0514658173	1,1156883152	0,0090327908	0,38942200898468
3	-13,0508998871	3,5937689877	0,0304846081	-0,061164957339352
4	0,1971740678	0,0114437561	0,0002459911	0,0029682452221422
5	-0,2700268559	0,0821816950	0,0007149442	-0,0012536777041366

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

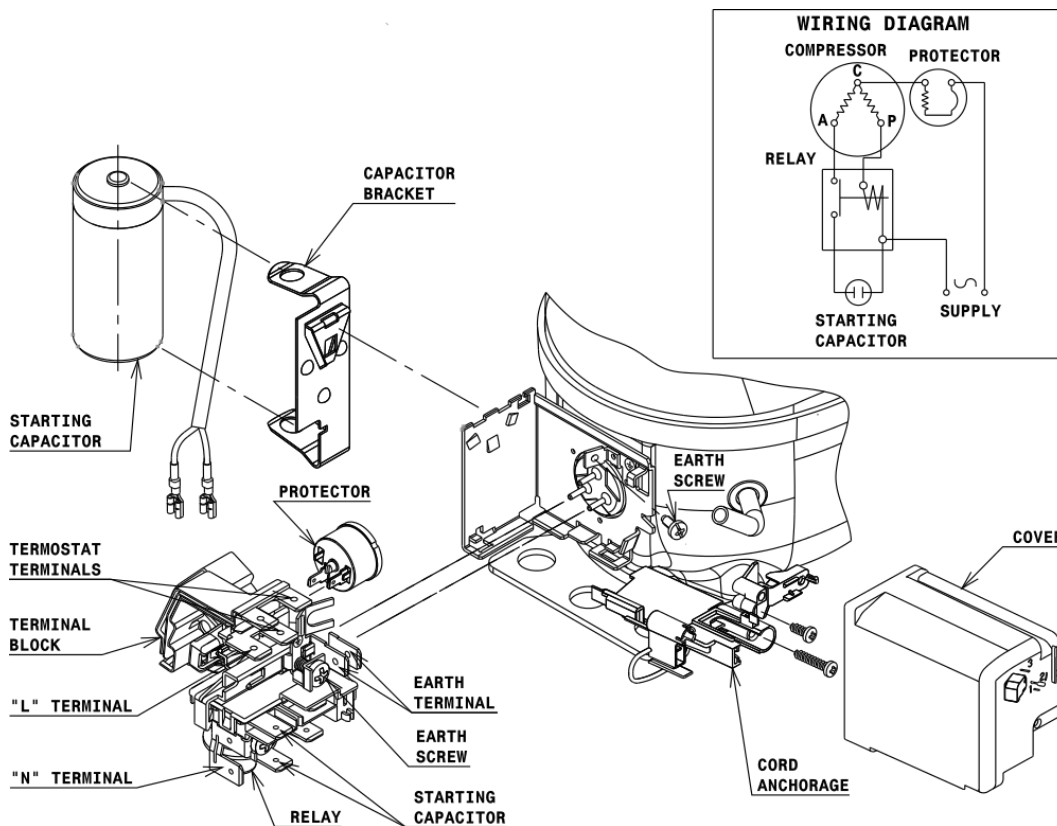


DESIGNATION INTERNAL DIAM.

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

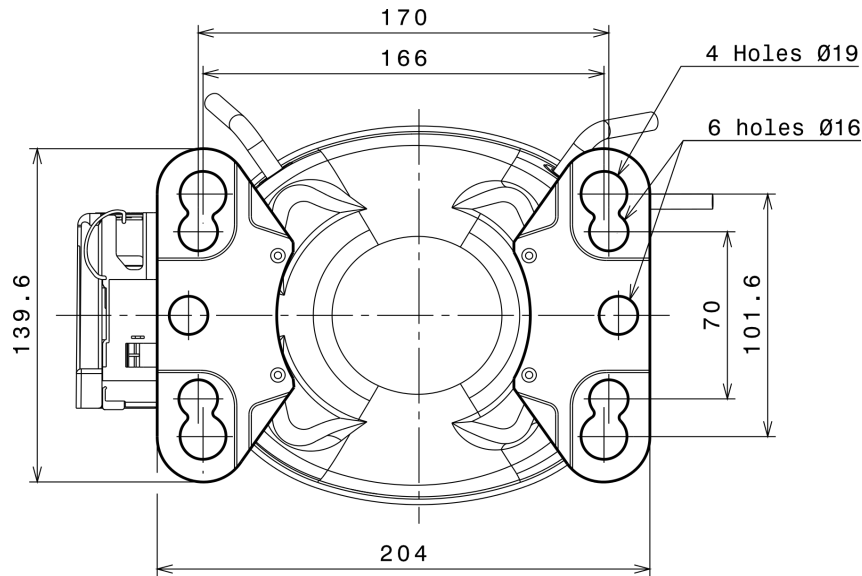
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



Technical Data Sheet

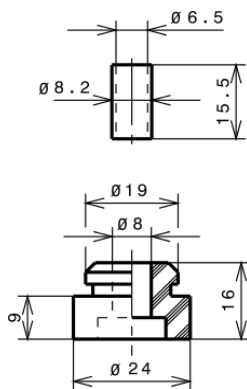
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

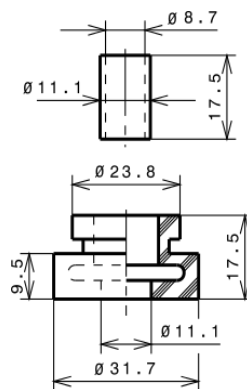
STANDARD

Ø16 holes (170x70 net)



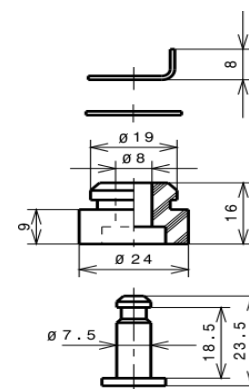
AMERICAN FEET

Ø19 holes (166x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 LMBP

