

# Technical Data Sheet

Compressor model **L76TN**  
 Voltage **115-127V 60Hz ~1**  
 Refrigerant **R22**

## APPLICATION

## COMPRESSOR

## MOTOR

Application	High-Medium Back Pressure	Displacement	7,57 cm <sup>3</sup>	Nominal Power	3/8 hp
Refrigerant	R22	Diameter	25,40 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	14,92 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	10,20 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 46 MINER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	470 cm <sup>3</sup>	Locked Rotor Amps (LRA)	30,00 A
				Max. Cont. Current (MCC)	9,30 A
				Main W. resist. at 25°C	1,21 Ω
				Start W. resist. at 25°C	7,14 Ω

## NOMINAL PERFORMANCE

## APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	1.008 kCal/h	999 W
COP	2,02 W/W	1,77 W/W
EER	1,74 kCal/Wh	1,53 kCal/Wh
Input Power	580 W	563 W
Current	6,20 A	6,07 A

## TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T <sub>e</sub> )	7,2 °C	5,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	46,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	35,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	35,0 °C	32,0 °C
Voltage/Frequency	115 V 60 Hz	115 V 60 Hz

## ELECTRICAL COMPONENTS

Starting capacitor	250 µF 160 V			
Relay	Option 1			
Reference	2014 180.			
Pick-Up	16,70 A			
Drop-Out	14,00 A			
Protector	Option 1	Option 2		
Reference	MRA38152	T0260		
Current	27,50 A	22,00 A		
Time check	2,8-5,2 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 52,00 °C	105,00 / 52,00 °C		

## ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	312	291	4,02	1,25	1,07
40	-20	406	319	4,22	1,48	1,27
40	-15	521	348	4,43	1,74	1,50
40	-10	656	378	4,65	2,02	1,73
40	-5	812	409	4,88	2,31	1,98
40	0	988	442	5,13	2,60	2,24
40	5	1.185	475	5,38	2,90	2,49
40	7,2	1.278	490	5,50	3,03	2,61
40	10	1.402	509	5,65	3,20	2,75

45	-25	288	294	4,04	1,14	0,98
45	-20	372	326	4,27	1,33	1,14
45	-15	476	360	4,51	1,54	1,33
45	-10	601	394	4,77	1,78	1,53
45	-5	747	429	5,03	2,02	1,74
45	0	913	466	5,31	2,28	1,96
45	5	1.099	503	5,60	2,54	2,19
45	7,2	1.188	520	5,73	2,66	2,28
45	10	1.306	542	5,90	2,80	2,41

50	-25	264	297	4,06	1,03	0,89
50	-20	338	333	4,32	1,18	1,01
50	-15	432	371	4,60	1,35	1,16
50	-10	547	409	4,88	1,55	1,34
50	-5	682	449	5,18	1,77	1,52
50	0	838	490	5,49	1,99	1,71
50	5	1.014	531	5,82	2,22	1,91
50	7,2	1.098	550	5,96	2,32	2,00
50	10	1.211	574	6,15	2,45	2,11

55	-25	240	300	4,08	0,93	0,80
55	-20	304	341	4,37	1,04	0,89
55	-15	388	382	4,68	1,18	1,01
55	-10	492	425	5,00	1,35	1,16
55	-5	617	469	5,33	1,53	1,32
55	0	762	514	5,68	1,73	1,48
55	5	928	559	6,04	1,93	1,66
55	7,2	1.008	580	6,20	2,02	1,74
55	10	1.115	606	6,41	2,14	1,84

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	341	293	4,03	1,17	1,01
40	-20	445	321	4,23	1,39	1,20
40	-15	571	350	4,44	1,63	1,41
40	-10	719	380	4,67	1,89	1,63
40	-5	889	412	4,90	2,16	1,86
40	0	1.081	444	5,15	2,43	2,10
40	5	1.294	478	5,40	2,71	2,34
40	7,2	1.396	493	5,52	2,83	2,44
40	10	1.530	513	5,67	2,98	2,58

45	-25	313	296	4,05	1,06	0,92
45	-20	406	328	4,28	1,24	1,07
45	-15	520	362	4,53	1,44	1,24
45	-10	656	396	4,78	1,66	1,43
45	-5	814	432	5,05	1,88	1,63
45	0	994	469	5,33	2,12	1,83
45	5	1.196	506	5,62	2,36	2,04
45	7,2	1.292	523	5,75	2,47	2,13
45	10	1.420	545	5,93	2,60	2,25

50	-25	286	299	4,07	0,96	0,83
50	-20	366	335	4,34	1,09	0,94
50	-15	469	373	4,61	1,26	1,09
50	-10	593	412	4,90	1,44	1,24
50	-5	739	452	5,20	1,64	1,41
50	0	907	493	5,52	1,84	1,59
50	5	1.097	535	5,84	2,05	1,77
50	7,2	1.188	554	5,99	2,15	1,85
50	10	1.309	578	6,18	2,27	1,96

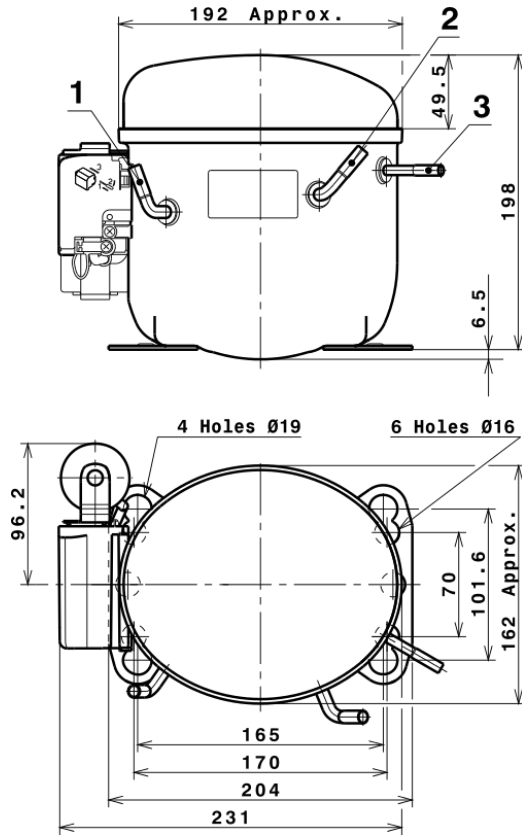
55	-25	259	302	4,09	0,86	0,74
55	-20	327	342	4,39	0,95	0,82
55	-15	417	384	4,70	1,09	0,94
55	-10	530	427	5,02	1,24	1,07
55	-5	664	472	5,35	1,41	1,22
55	0	820	517	5,70	1,59	1,37
55	5	999	563	6,07	1,77	1,53
55	7,2	1.084	584	6,23	1,86	1,60
55	10	1.199	611	6,44	1,96	1,70

## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.798,3345245372	257,8657325273	3,6553630746	31,240624267341
2	60,4283505502	-0,0196938049	-0,0019292112	1,150445525475
3	-17,8380502677	4,9653150350	0,0392552505	-0,20846846191751
4	0,4421239731	0,0259267490	0,0003089918	0,011771146817079
5	-0,4901133787	0,1739328445	0,0013924107	-0,0055451959256974

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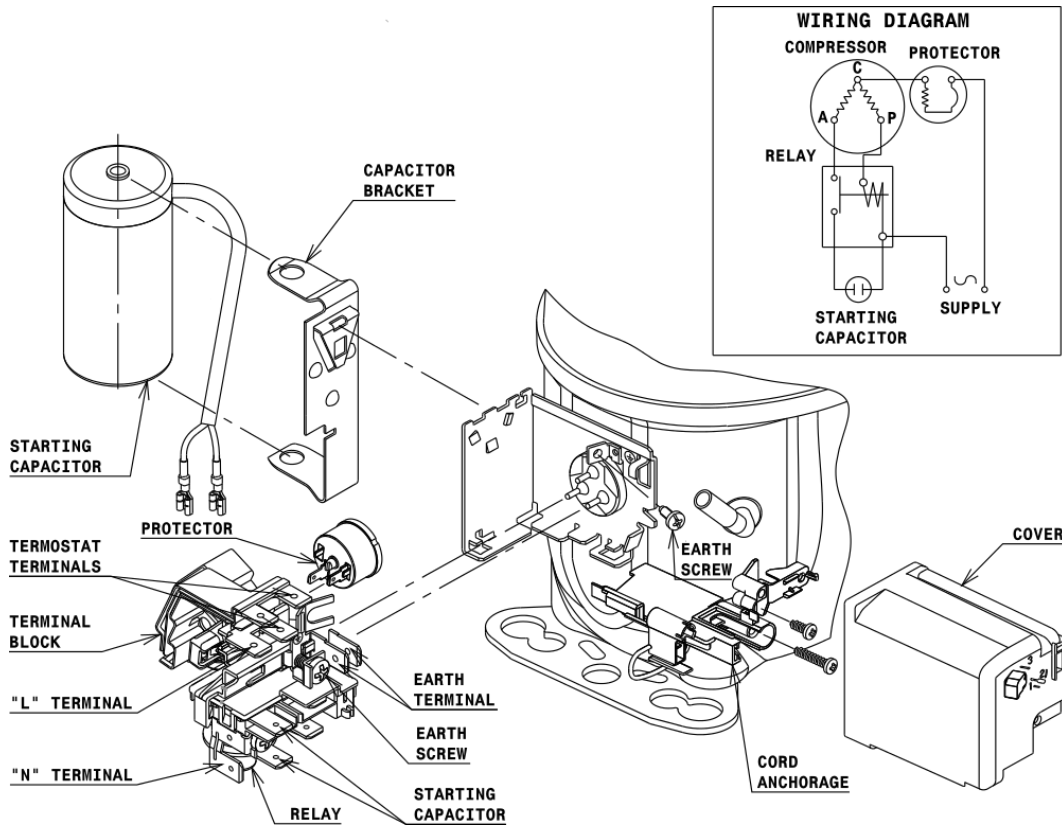
## COMPRESSOR DIMENSIONS



DESIGNATION	INTERNAL DIAM.
1 Suction	8,1 mm
2 Service	8,1 mm
3 Discharge	6,5 mm

## WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

### CSIR CONNECTION (L, P ranges)



# Technical Data Sheet

## FIXINGS



## SILENT BLOCKS (MOUNTING ACCESSORIES)

### STANDARD

Ø16 holes (170x70 net)



### AMERICAN FEET

Ø19 holes (165x101.6 net)



### SNAP-ON

Ø16 holes (170x70 net)



## SOA

SOA R22 HMBP

