

Technical Data Sheet

Compressor model **L45TN**
Voltage **220-240V 50Hz ~1**
Refrigerant **R22**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	4,56 cm ³	Nominal Power	1/5 hp
Refrigerant	R22	Diameter	19,09 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	15,93 mm	Voltage range	198-264 V
Expansion	Capillar/Valve	Net Weight	10,04 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	295 cm ³	Locked Rotor Amps (LRA)	9,00 A
				Max. Cont. Current (MCC)	2,80 A
				Main W. resist. at 25°C	11,42 Ω
				Start W. resist. at 25°C	45,53 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	500 kCal/h	497 W
COP	1,91 W/W	1,67 W/W
EER	1,64 kCal/Wh	1,44 kCal/Wh
Input Power	305 W	298 W
Current	1,70 A	1,67 A

TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V			
Relay	Option 1			
Reference	2014 125.			
Pick-Up	4,55 A			
Drop-Out	3,90 A			
Protector	Option 1	Option 2		
Reference	MRP61HK	T0322		
Current	7,50 A	7,20 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 61,00 °C	110,00 / 61,00 °C		

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	146	162	1,23	1,05	0,90
40	-20	195	177	1,27	1,28	1,10
40	-15	253	193	1,32	1,53	1,31
40	-10	320	208	1,37	1,79	1,54
40	-5	395	223	1,41	2,07	1,78
40	0	479	237	1,46	2,35	2,02
40	5	572	251	1,51	2,65	2,28
40	7,2	616	257	1,53	2,79	2,39
40	10	673	265	1,55	2,96	2,54

45	-25	133	162	1,23	0,95	0,82
45	-20	178	180	1,28	1,15	0,99
45	-15	233	198	1,33	1,37	1,17
45	-10	295	216	1,39	1,59	1,37
45	-5	367	233	1,45	1,83	1,58
45	0	447	249	1,50	2,08	1,79
45	5	535	266	1,56	2,34	2,01
45	7,2	577	273	1,58	2,46	2,11
45	10	633	282	1,62	2,61	2,24

50	-25	121	163	1,23	0,86	0,74
50	-20	162	183	1,29	1,03	0,88
50	-15	212	203	1,35	1,21	1,04
50	-10	271	223	1,41	1,41	1,21
50	-5	338	243	1,48	1,62	1,39
50	0	414	262	1,54	1,84	1,58
50	5	499	281	1,61	2,06	1,78
50	7,2	539	289	1,64	2,17	1,86
50	10	592	299	1,68	2,30	1,98

55	-25	108	163	1,23	0,77	0,66
55	-20	145	186	1,30	0,91	0,78
55	-15	191	209	1,37	1,07	0,92
55	-10	246	231	1,44	1,24	1,06
55	-5	309	253	1,51	1,42	1,22
55	0	381	275	1,59	1,62	1,39
55	5	462	296	1,67	1,82	1,56
55	7,2	500	305	1,70	1,91	1,64
55	10	551	317	1,74	2,02	1,74

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	159	162	1,23	0,98	0,85
40	-20	213	178	1,27	1,20	1,03
40	-15	277	194	1,32	1,43	1,24
40	-10	350	209	1,37	1,68	1,45
40	-5	433	224	1,42	1,93	1,67
40	0	524	238	1,46	2,20	1,90
40	5	625	253	1,51	2,47	2,14
40	7,2	672	259	1,53	2,60	2,24
40	10	735	266	1,56	2,76	2,38

45	-25	145	163	1,23	0,89	0,77
45	-20	195	181	1,28	1,07	0,93
45	-15	254	199	1,34	1,27	1,10
45	-10	322	217	1,39	1,48	1,28
45	-5	399	234	1,45	1,71	1,47
45	0	486	251	1,51	1,94	1,67
45	5	582	268	1,56	2,18	1,88
45	7,2	627	275	1,59	2,28	1,97
45	10	687	284	1,62	2,42	2,09

50	-25	131	163	1,23	0,80	0,69
50	-20	176	184	1,29	0,95	0,82
50	-15	230	205	1,35	1,12	0,97
50	-10	293	225	1,42	1,31	1,13
50	-5	366	244	1,48	1,50	1,29
50	0	448	264	1,55	1,70	1,47
50	5	539	283	1,62	1,91	1,65
50	7,2	583	291	1,65	2,00	1,73
50	10	640	301	1,69	2,12	1,83

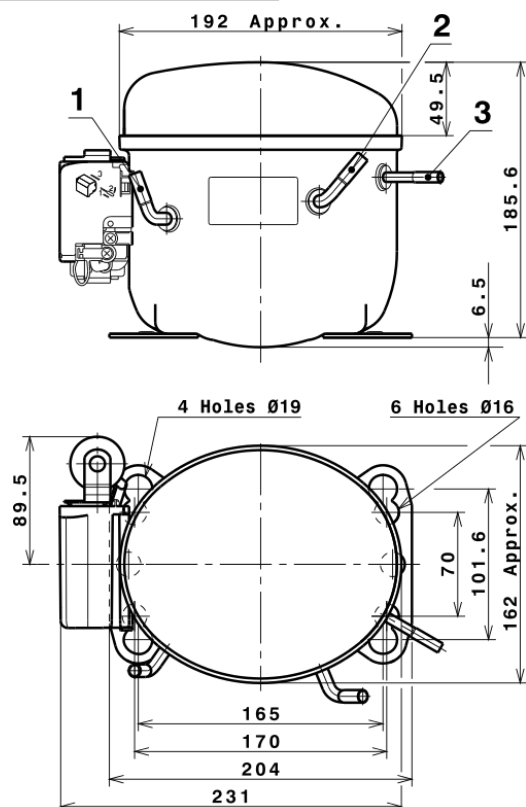
55	-25	116	164	1,23	0,71	0,61
55	-20	157	187	1,30	0,84	0,72
55	-15	206	210	1,37	0,98	0,85
55	-10	265	232	1,44	1,14	0,98
55	-5	333	254	1,52	1,31	1,13
55	0	410	276	1,60	1,48	1,28
55	5	497	298	1,67	1,67	1,44
55	7,2	538	307	1,71	1,75	1,51
55	10	592	319	1,75	1,86	1,61

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	839,4482836992	140,9400846288	1,0940254843	14,351011545316
2	27,2832111287	-0,9709883930	-0,0041582611	0,50648084931717
3	-7,8336407552	2,5975821815	0,0095982480	-0,08120572647252
4	0,1867351189	-0,0052062234	0,0000463128	0,0050752644576227
5	-0,1980492040	0,0997899944	0,0003719637	-0,0016750426946677

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

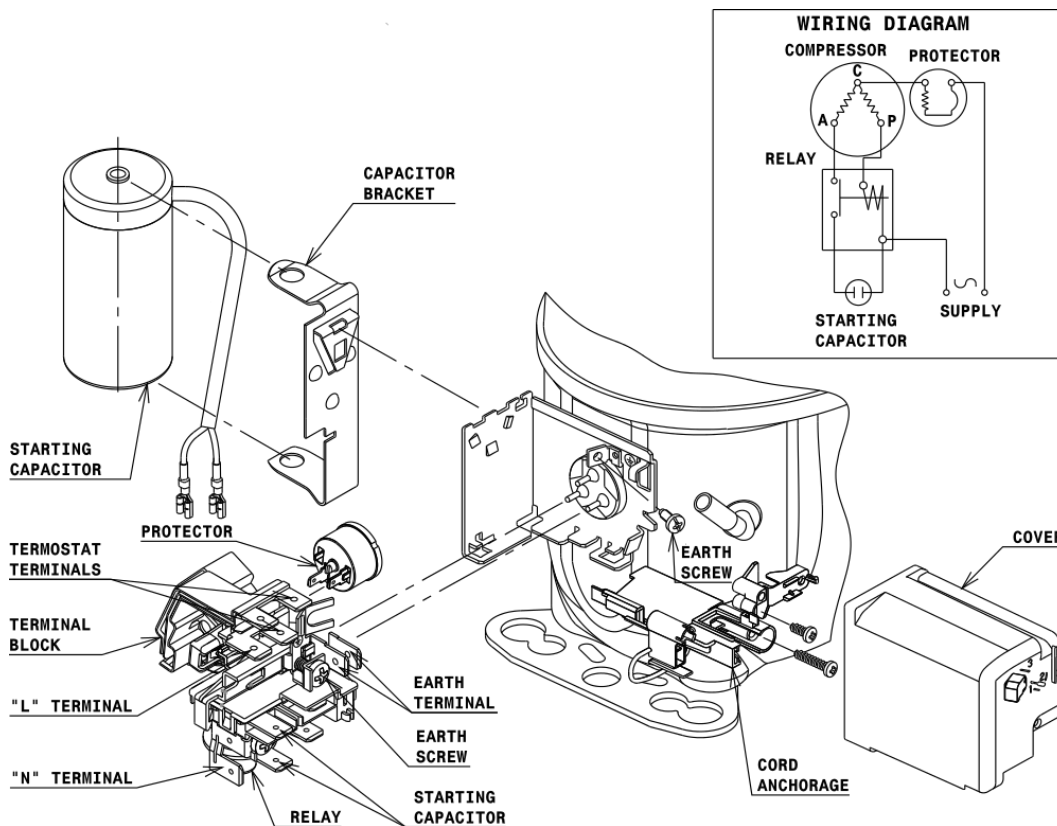


DESIGNATION INTERNAL DIAM.

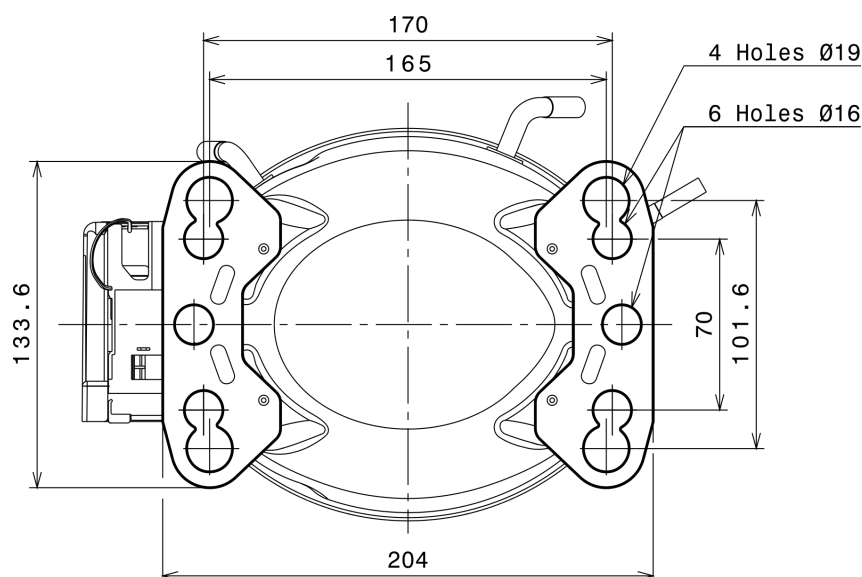
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



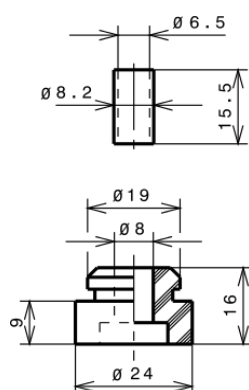
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

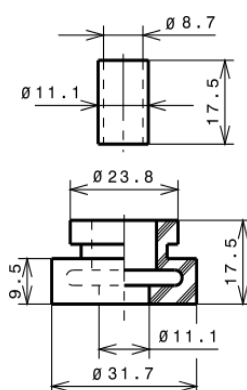
STANDARD

Ø16 holes (170x70 net)



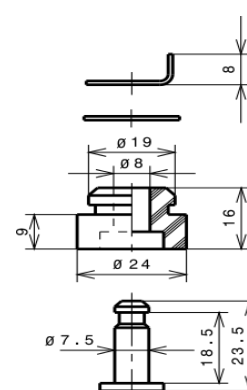
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R22 HMBP

