

B52C0L Technical Data Sheet

Compressor model **B52C0L**
 Voltage **100V 50/60Hz ~1**
 Refrigerant **R600a**

APPLICATION

Application Low Back Pressure
 Refrigerant R600a
 Evaporating Temp. -35,0 °C to -15,0 °C
 Expansion Capillar
 Comp. Cooling Static
 Max. ambient temp. 43,0 °C

COMPRESSOR

Displacement 5,20 cm³
 Diameter 21,00 mm
 Stroke 15,20 mm
 Net Weight 4,80 Kg
 Oil type ISO VG 10 MINER
 Oil charge 130 cm³

MOTOR

Nominal Power 1/8 hp
 Voltage/Frequency 100V 60Hz
 Voltage range 90-110 V
 Type RSIR
 Phase number 1 PH
 Max. Cont. Current (MCC) 1,94 A
 Main W. resist. at 25°C 5,10 Q
 Start W. resist. at 25°C 6,40 Q

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	82 kCal/h	71 W
COP	1,34 W/W	1,06 W/W
EER	1,15 kCal/Wh	0,92 kCal/Wh
Input Power	71 W	67 W
Current	1,23 A	1,20 A

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	100 V 60 Hz	100 V 60 Hz

ELECTRICAL COMPONENTS

Relay	Option 1	Option 2		
Reference	JPQII-4.7 (010)	QP2-4R7 (010)		
Voltage	110-115 V	110-120 V		
Resistance	Q	Q		
Protector	Option 1	Option 2		
Reference	BT68-135 (043)	DRB243S61A2 (043)		
Current		6,80 A		
Time check		7-16 seg		
Disc temp. (Open/Close)	135,00 / 61,00 °C	135,00 / 61,00 °C		

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ASHRAE

Tc	Te	Cooling Capacity	Consumption	Current	COP	EER
°C	°C	kCal/h	W	A	W/W	kCal/Wh
40	-35	49	49	1,04	1,16	1,00
40	-30	60	57	1,11	1,23	1,06
40	-25	76	66	1,19	1,34	1,15
40	-23,3	82	69	1,21	1,38	1,19
40	-20	96	76	1,27	1,47	1,26
40	-15	119	86	1,36	1,61	1,39
40	-10	147	97	1,46	1,76	1,52

45	-35	46	48	1,03	1,11	0,95
45	-30	59	57	1,11	1,20	1,03
45	-25	75	66	1,19	1,32	1,13
45	-23,3	82	70	1,22	1,37	1,18
45	-20	96	77	1,28	1,46	1,26
45	-15	121	87	1,37	1,61	1,39
45	-10	150	99	1,48	1,77	1,52

50	-35	43	48	1,03	1,05	0,90
50	-30	57	57	1,11	1,16	1,00
50	-25	75	67	1,19	1,30	1,12
50	-23,3	82	70	1,22	1,35	1,16
50	-20	97	78	1,29	1,46	1,25
50	-15	123	89	1,39	1,61	1,39
50	-10	154	101	1,49	1,77	1,52

55	-35	40	47	1,02	0,99	0,85
55	-30	55	57	1,11	1,13	0,97
55	-25	75	67	1,20	1,29	1,11
55	-23,3	82	71	1,23	1,34	1,15
55	-20	98	78	1,30	1,45	1,25
55	-15	125	90	1,40	1,61	1,39
55	-10	157	103	1,51	1,77	1,52

60	-35	37	46	1,01	0,93	0,80
60	-30	53	57	1,10	1,10	0,94
60	-25	74	68	1,20	1,27	1,09
60	-23,3	82	72	1,24	1,33	1,15
60	-20	99	79	1,30	1,45	1,24
60	-15	127	92	1,41	1,61	1,39
60	-10	160	105	1,53	1,78	1,53

CECOMAF

Tc	Te	Cooling Capacity	Consumption	Current	COP	EER
°C	°C	W	W	A	W/W	kCal/Wh
40	-35	54	49	1,04	1,09	0,94
40	-30	67	57	1,11	1,17	1,02
40	-25	85	66	1,19	1,28	1,11
40	-23,3	92	69	1,21	1,32	1,14
40	-20	106	76	1,27	1,40	1,21
40	-15	131	86	1,36	1,53	1,32
40	-10	161	97	1,46	1,66	1,43

45	-35	49	48	1,03	1,00	0,87
45	-30	62	57	1,11	1,09	0,95
45	-25	80	66	1,19	1,21	1,04
45	-23,3	87	70	1,22	1,25	1,08
45	-20	102	77	1,28	1,33	1,15
45	-15	128	87	1,37	1,46	1,26
45	-10	157	99	1,48	1,59	1,37

50	-35	43	48	1,03	0,91	0,79
50	-30	58	57	1,11	1,01	0,88
50	-25	76	67	1,19	1,13	0,98
50	-23,3	83	70	1,22	1,18	1,02
50	-20	98	78	1,29	1,26	1,09
50	-15	124	89	1,39	1,39	1,20
50	-10	154	101	1,49	1,52	1,32

55	-35	38	47	1,02	0,82	0,70
55	-30	53	57	1,11	0,93	0,81
55	-25	71	67	1,20	1,06	0,92
55	-23,3	79	71	1,23	1,11	0,96
55	-20	94	78	1,30	1,19	1,03
55	-15	120	90	1,40	1,33	1,15
55	-10	150	103	1,51	1,46	1,26

60	-35	33	46	1,01	0,72	0,62
60	-30	48	57	1,10	0,85	0,73
60	-25	67	68	1,20	0,99	0,85
60	-23,3	74	72	1,24	1,04	0,90
60	-20	90	79	1,30	1,13	0,98
60	-15	116	92	1,41	1,27	1,09
60	-10	147	105	1,53	1,40	1,21

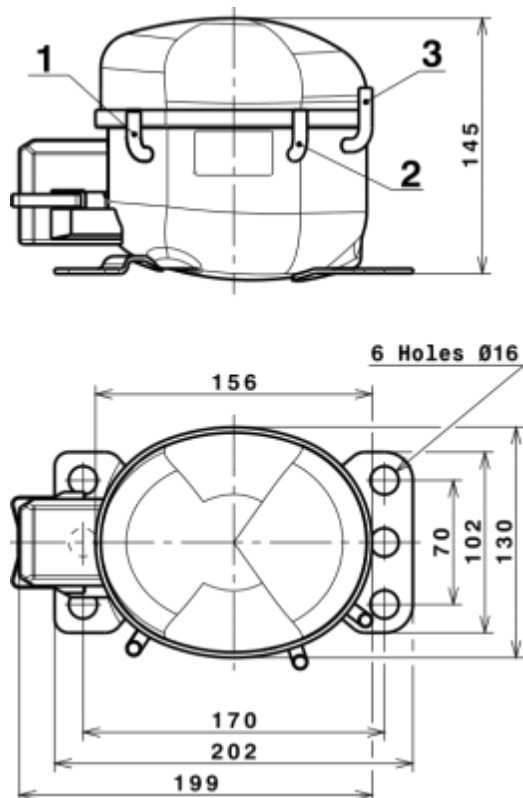
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	252,4875109721	98,9010847101	1,4741344912	2,2161856440042
2	7,2121883059	1,7549419929	0,0153557424	0,074792710327601
3	-0,6780258303	0,6270502618	0,0054866898	0,015359488885183
4	0,0757771875	0,0146955797	0,0001285863	0,0011017085299292
5	0,0096307265	0,0218056569	0,0001907995	0,00066147277011319

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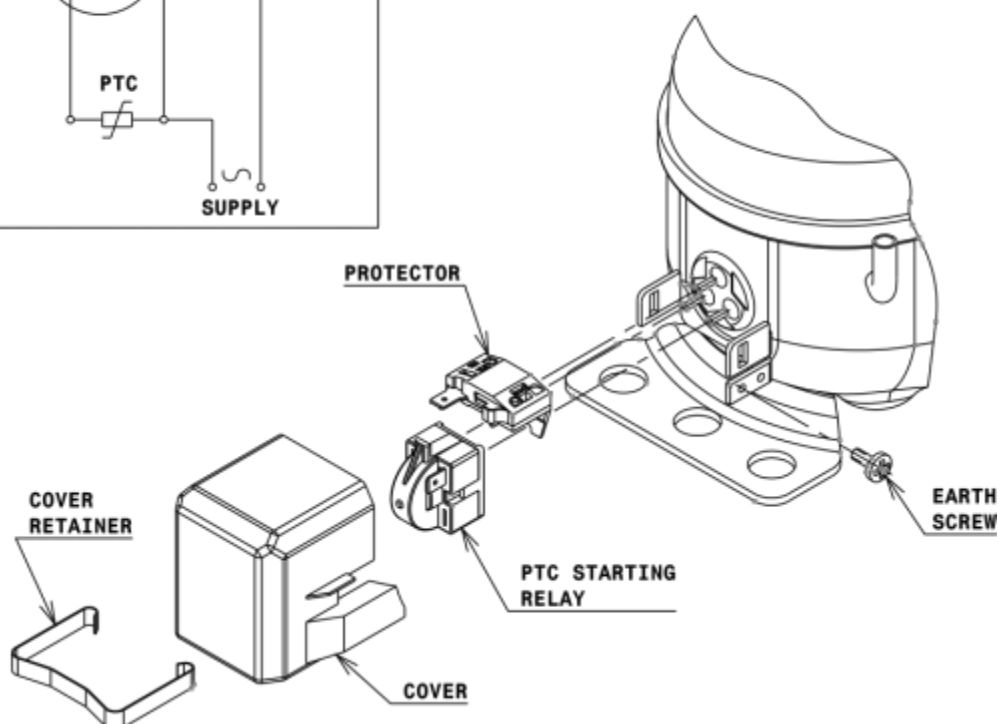
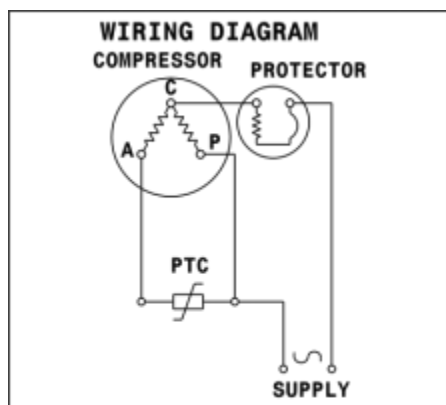
COMPRESSOR DIMENSIONS



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

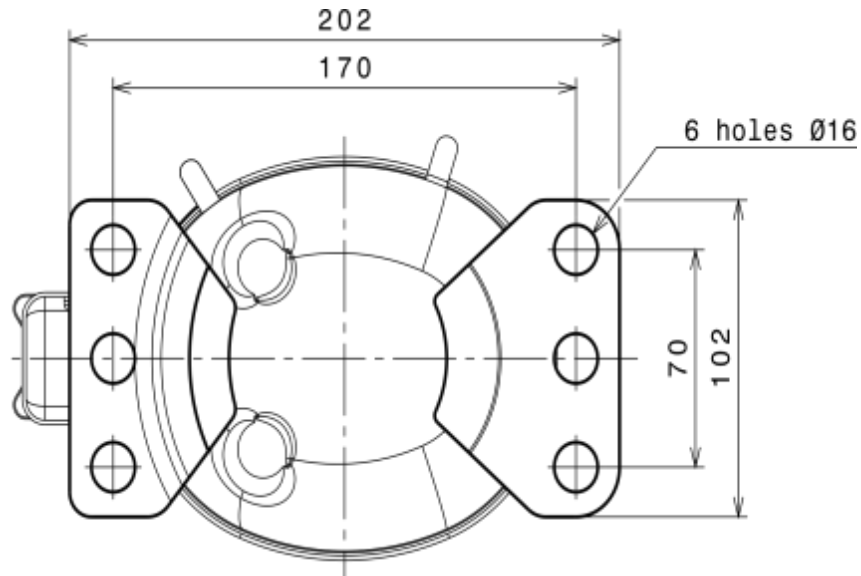
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSIR CONNECTION (PTC) (B, Small L ranges)



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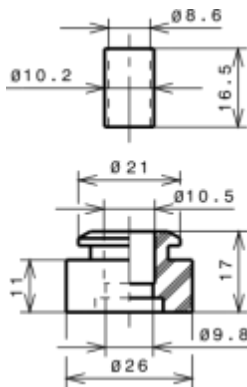
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø16 holes (170x70 net)



SOA

SOA R600a LBP

