

# B60CBL Technical Data Sheet



Compressor model **B60CBL**  
 Voltage **220-240V 60Hz ~1**  
 Refrigerant **R600a**

APPLICATION		COMPRESSOR	MOTOR
Application	Low Back Pressure	Displacement 6,00 cm <sup>3</sup>	Nominal Power 1/8 hp
Refrigerant	R600a	Diameter 21,00 mm	Voltage/Frequency 220-240V 60Hz
Evaporating Temp.	-35,0 °C to -15,0 °C	Stroke 17,30 mm	Voltage range 187-255 V
Expansion	Capillar	Net Weight 4,60 Kg	Type RSIR
Comp. Cooling	Static	Oil type ISO VG 10 MINER	Phase number 1 PH
Max. ambient temp.	43,0 °C	Oil charge 130 cm <sup>3</sup>	Locked Rotor Amps (LRA) 3,40 A
			Main W. resist. at 25°C 32,04 Q
			Start W. resist. at 25°C 15, 10 Q

## NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	95 kCal/h	83 W
COP	1,32 W/W	1,03 W/W
EER	1,13 kCal/Wh	0,89 kCal/Wh
Input Power	84 W	80 W
Current	0,61 A	0,60 A

## TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T <sub>e</sub> )	-23,3 °C	-25,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	32,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	32,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	32,0 °C	32,0 °C
Voltage/Frequency	220 V 60 Hz	220 V 60 Hz

## ELECTRICAL COMPONENTS

Relay	Option 1	Option 2		
Reference	JPQII-15 (019)	QP2-15 (019)		
Voltage	V	V		
Resistance	Q	Q		
Protector	Option 1	Option 2	Option 3	
Reference	BT37-120 (126)	BT37-120A61D3 (126)	DRB15N61A1 (126)	
Current	3,70 A	3,70 A	3,70 A	
Time check	7-16 seg	7-16 seg	7-16 seg	
Disc temp. (Open/Close)	120,00 / 61,00 °C	120,00 / 61,00 °C	120,00 / 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	52	61	0,54	0,99	0,85
40	-30	70	68	0,56	1,19	1,02
40	-25	93	76	0,59	1,42	1,22
40	-23,3	102	79	0,60	1,50	1,29
40	-20	122	85	0,61	1,66	1,43
40	-15	156	95	0,64	1,92	1,65
40	-10	196	105	0,67	2,17	1,87

45	-35	51	61	0,54	0,97	0,84
45	-30	68	69	0,57	1,15	0,99
45	-25	91	78	0,59	1,36	1,17
45	-23,3	100	81	0,60	1,44	1,23
45	-20	119	87	0,62	1,59	1,36
45	-15	153	98	0,65	1,82	1,57
45	-10	192	109	0,69	2,06	1,77

50	-35	49	60	0,54	0,95	0,82
50	-30	66	69	0,57	1,11	0,96
50	-25	89	79	0,60	1,30	1,12
50	-23,3	97	82	0,61	1,37	1,18
50	-20	116	89	0,63	1,51	1,30
50	-15	150	101	0,66	1,73	1,49
50	-10	189	112	0,70	1,95	1,68

55	-35	48	60	0,54	0,93	0,80
55	-30	64	70	0,57	1,07	0,92
55	-25	86	80	0,60	1,25	1,08
55	-23,3	95	84	0,61	1,32	1,13
55	-20	114	91	0,63	1,45	1,24
55	-15	147	103	0,67	1,65	1,42
55	-10	185	116	0,71	1,85	1,59

60	-35	47	60	0,54	0,91	0,78
60	-30	63	70	0,57	1,04	0,89
60	-25	84	82	0,60	1,20	1,03
60	-23,3	93	86	0,61	1,26	1,08
60	-20	111	94	0,64	1,38	1,19
60	-15	143	106	0,68	1,57	1,35
60	-10	181	120	0,72	1,76	1,52

## CECOMAF

Tc	Te	Cooling Capacity	Consumption	Current	COP	EER
°C	°C	W	W	A	W/W	kCal/Wh
40	-35	57	61	0,54	0,93	0,81
40	-30	78	68	0,56	1,14	0,98
40	-25	104	76	0,59	1,36	1,18
40	-23,3	114	79	0,60	1,44	1,24
40	-20	136	85	0,61	1,59	1,37
40	-15	172	95	0,64	1,82	1,57
40	-10	214	105	0,67	2,04	1,76

45	-35	53	61	0,54	0,88	0,76
45	-30	72	69	0,57	1,05	0,91
45	-25	97	78	0,59	1,25	1,08
45	-23,3	106	81	0,60	1,32	1,14
45	-20	127	87	0,62	1,45	1,25
45	-15	162	98	0,65	1,66	1,43
45	-10	202	109	0,69	1,86	1,60

50	-35	50	60	0,54	0,82	0,71
50	-30	67	69	0,57	0,97	0,84
50	-25	90	79	0,60	1,14	0,98
50	-23,3	99	82	0,61	1,20	1,03
50	-20	118	89	0,63	1,32	1,14
50	-15	151	101	0,66	1,50	1,30
50	-10	189	112	0,70	1,69	1,46

55	-35	46	60	0,54	0,77	0,66
55	-30	62	70	0,57	0,88	0,76
55	-25	83	80	0,60	1,03	0,89
55	-23,3	91	84	0,61	1,08	0,94
55	-20	109	91	0,63	1,19	1,03
55	-15	140	103	0,67	1,36	1,17
55	-10	177	116	0,71	1,53	1,32

60	-35	42	60	0,54	0,71	0,61
60	-30	56	70	0,57	0,80	0,69
60	-25	76	82	0,60	0,93	0,80
60	-23,3	83	86	0,61	0,97	0,84
60	-20	100	94	0,64	1,07	0,92
60	-15	130	106	0,68	1,22	1,05
60	-10	165	120	0,72	1,38	1,19

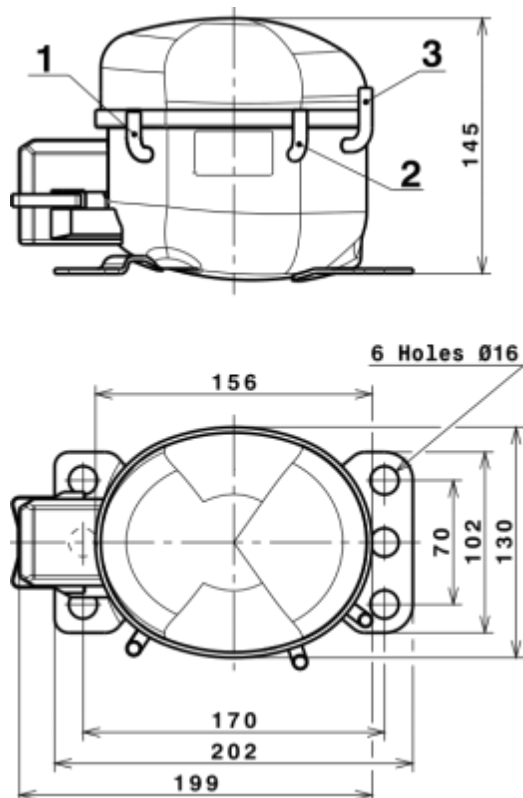
## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	436,5853709404	87,4591608710	0,6206269196	4,3279266965942
2	13,6088546592	1,1562105765	0,0041411520	0,15194661520223
3	-3,2543179608	1,0769800238	0,0034592359	-0,012081677455655
4	0,1017026734	0,0147091841	0,0000641107	0,0014726873563726
5	-0,0719974764	0,0327158254	0,0001043602	-0,00024624401531993

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

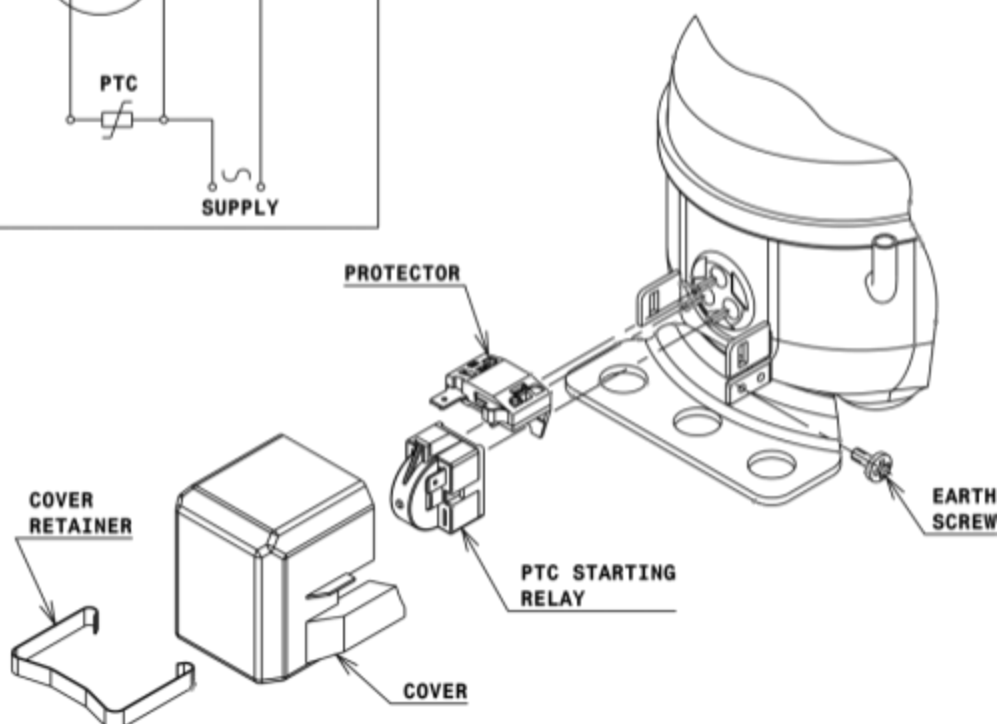
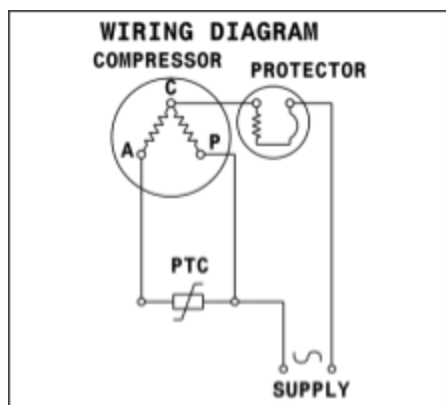


## DESIGNATION INTERNAL DIAM.

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

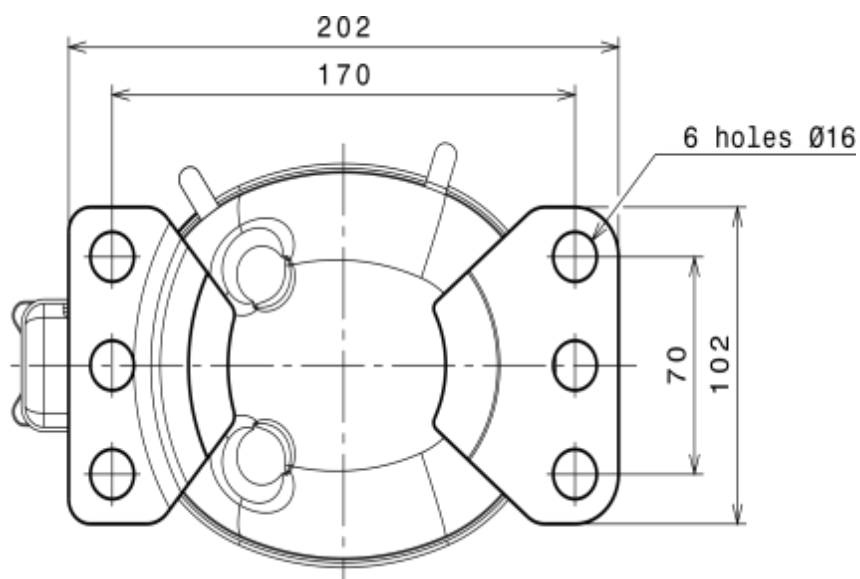
## WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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



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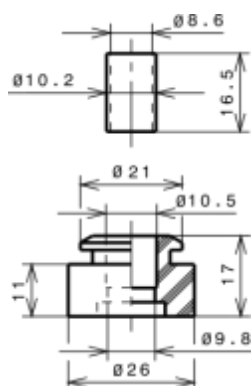
## FIXINGS



## SILENT BLOCKS ( MOUNTING ACCESSORIES)

### STANDARD

Ø16 holes (170x70 net)



## SOA

SOA R600a LBP

