Single <mark>Packs</mark>

SECCP

Single Pack BD80CN 12/24V DC, 100-240V AC 50/60Hz PM

Single pack code number: 195B4200

Position	Title	Code	Amount
1	Compressor BD80CN	101Z0403	1
2	Electronic unit 12/24V DC, 100-240V AC 50/60Hz	101N0510	1
3	Bolt joint for one compressor M6 ø16mm	118-1917	1

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SECCP

BD80CN Direct Current Compressor R290, 12/24V DC, 10-45V DC Solar & 100-240V AC 50/60Hz



General

Code number (without electronic units)	101Z0403	Approvals	SECOP	
Electronic unit 12/24V DC - Standard	101N0242, 30 pcs: 101N0243	-	c FL us	
Electronic unit 12/24V DC - AEO	101N0340, 30 pcs: 101N0341	CB / UL / VDE	BD80CN	
Electronic unit 10-45V DC - Solar	101N0420, 30 pcs: 101N0421	CB / UL / VDE	12/24V DC	
Electronic unit 12/24V DC & 100-240V AC 50/60Hz	101N0510, 28 pcs: 101N0511	UL	PROTECTED	R290
Electronic unit 12/24V DC - Automotive	101N0680, 30 pcs: 101N0681	CB / UL	Approval mark	Yellow warning I
Compressors on pallet	150			8560
Amplication		BD800		SECO
Application		only with E	3D controller	

LBP

S

S

S

MBP

 F_1

 F_1

 F_1

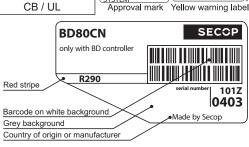
HBP

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Application		LBP/MBP
Evaporating temperature	°C	-40 to -5 (5)
Voltage range DC	VDC	9.6 - 17 / 21.3 - 31.5
Voltage range AC	V/Hz	100 - 240 / 50 - 60
Voltage range for solar applications	VDC	10 - 45
Max. condensing temperature continuous (short)	°C	55 (65)
Max. winding temperature continuous (short)	°C	125 (135)



- S = Static cooling normally sufficient
- O = Oil cooling
- $F_1 = Fan \text{ cooling } 1.5 \text{ m/s}$
- (compressor compartment temperature equal to ambient temperature)
 - F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficent
- = not applicable in this area

Motor

32°C

38°C

43°C

Cooling requirements

Remarks on application:

Application

Motor type		variable speed
Resistance, all 3 windings (25°C)	Ω	1.8

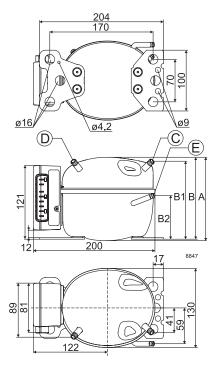
Design

Displacement	cm ³	2.00
Oil quantity (type)	cm ³	150 (polyolester)
Maximum refrigerant charge	g	120
Free gas volume in compressor	cm ³	870
Weight - Compressor/Electronic unit	kg	4.3 / 0.19 (Standard)

Standard battery protection settings (r	efer to electronic	unit Instructions for	optional settings)
Voltage		12V	24V
Cut out	VDC	10.4	22.8
Cut in	VDC	11.7	24.2

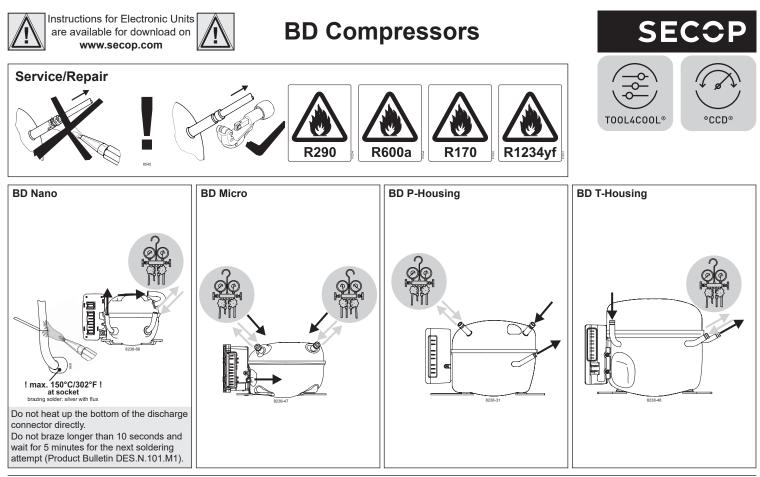
Dimensions

Height	mm	А	137
		В	135
		B1	128
		B2	73
Suction connector	location/I.D. mm angle	С	6.2 40°
	material comment		Cu-plated steel Al cap
Process connector	location/I.D. mm angle	D	6.2 45°
	material comment		Cu-plated steel Al cap
Discharge connector	location/I.D. mm angle	Е	5.0 21°
	material comment		Cu-plated steel Al cap
Connector tolerance	I.D. mm	£	£0.09, on 5.0 +0.12/+0.20
Remarks			



rnm \ °C	(EN 1						15		<u>DC, s</u>	tatic c	<u> </u>			essor spee	ed			
rpm \ °C 2,000	-40 16.4	-35	-30 34.6	-25 46.4	-23.3 50.8	-20 60.2	-15 76.2	-10 94.8	-5 116	0	5 167	7.2	Electror		Resistor (R1) [Ω]		esistor (R1) [Ω] Motor sp	
2,500	20.2		40.7	55.5	61.2	73.0	95.0	119	147	179	215		Code number		calculated values			
3,000	26.3	39.6	54.4	71.6	78.0	92.0	116	144	178	217	_						[rpm]	
3,500	31.1	45.6	62.3	82.0	89.0	105	132	165	203						0		2,0	00
Capacity	<u> </u>	1					·			tatic c	<u> </u>	watt	101N02		277		2,5	00
rpm \ °C	-40	-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	101N05	-	692		3,0	
2,000 2,500	18.2 22.5	27.5	38.6 45.4	51.7 61.9	56.7 68.0	67.2 82.0	85.1 106	106 133	130 165	157 200	187 240		101N06	000	1523		3,5	
3,000	22.5		45.4	80.0	68.0 87.0	82.0	106	133	165	200	240				0	-		
3,500	34.7	50.8	69.5	91.0	100	117	148	184	227	240			404110-		173		2,0	-
Power co	onsum									tatic c	oolina	watt	101N03		450		2,0	
rpm \ °C		-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	with AE	_			,	
2,000	27.3	29	31.8	35.5	36.9	39.8	44.3	48.9	53.3	57.1	60.1				865		3,0	
2,500	31.5		41.1	46.9	49.0	53.0	58.9	64.4	69.2	72.9	75.1				1696		3,5	
3,000	42.9	45.3	51.0	58.8	61.6	67.3	75.2	81.4	85.0	89.0				Adaptive En Il always ad				
3,500	45.3		60.4	69.3	72.4	78.2	87.0	93.0	98.0				165501 WII	ii always au	api iis spee		เนลา coomin	guemanu
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2,000	2.13	2.25	2.47	2.78	2.89	3.13	3.51	3.89 5.36	4.23	4.52	4.73		Cross			eration		eration
2,500 3,000	2.84	3.20	3.60 4.25	4.03	4.18 5.13	4.48	4.93 6.27	6.78	5.76 7.02	6.11	0.40		section		120 00	oration	240 00	cration
3,500	3.31	3.99	4.25	5.08		5.63	6.28	7.10	8.17	1.20					True?	10.3	Free 7	1 10 3
COP (EN						. 0.00	0.20			tatic c	ooling	W/W	[mm ²]	[Gauge]		[ft.]	[m]	[ft.]
rpm \ °C	12900 -40	-35	-30	-25	-23.3	-20	-15	-10	-5	tatic contraction of the second se	5011ng	7.2	2.5	12	2.5	8	5	16
2,000	0.60	0.85	1.09	1.31	1.38	1.51	1.72	1.94	2.18	2.45	2.78	1.2	4	12	4	13	8	26
2,500	0.64		0.99	1.18	1.25	1.39	1.61	1.85	2.13	2.46	2.85		6 10	10	6 10	20 33	12	39 66
3,000	0.61	0.87	1.07	1.22	1.27	1.36	1.54	1.77	2.10	2.43	2.00		10	0		∣ ວວ etween batt		
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COP (AS	HRAE	LBP)						12V	DC. s	static c	oolina	W/W		nensions ection min.			18	
rpm \ °C		-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	01033 30		0.75 11111	01 AVIO	10	
2,000	0.67	0.95	1.21	1.46	1.54	1.69	1.92	2.16	2.43	2.75	3.12			onal error	S			
2,500	0.71	0.90	1.10	1.32	1.40	1.55	1.79	2.07	2.38	2.75	3.20		Error code		E	Frror type		
3,000	0.68	0.97	1.19	1.36	1.41	1.52	1.72	1.98	2.35	2.73			or LED			d out in the		
3,500	0.77	0.97	1.15	1.32	1.38	1.50	1.71	1.97	2.30				flashes			OL4COOL®	B	
Test cond				c units	EN	12900/		IAF*			E LBP	k .		hermostat				
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				<u>5</u> 5			cooling				°C			mbient temp				
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	nperatu	re																
Liquid tem			0CN							Code	num	oer		If the refrige	ration syster	m is too he		
Liquid tem	ries fo	or BD8						Ø:16 r	nm		e numl 8-1917			If the refrige annot mainta	ration syster	m is too he		
Liquid tem	ries for	or BD8 le com	p.					<u>ð:16 r</u> ð:16 r		11	9 numl 8-1917 8-1918	·	3 N	annot mainta	ration system ain minimum error	m is too he speed at ap	proximately	1,850 rpm
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