Single <mark>Packs</mark>



Single Pack BD100CN 12/24V DC PM

Single pack code number: 195B4439

Position	Title	Code	Amount
1	Compressor BD100CN	101Z0401	1
2	Electronic unit High Speed	101N0391	1
3	Bolt joint for one compressor M6 ø16mm	118-1917	1

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BD100CN Direct Current Compressor R290 12/24V DC

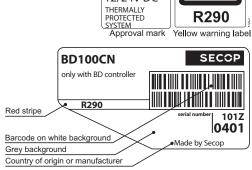


General

Code number (without electronic units)	101Z0401	Approvals	SECOP
Electronic unit - High Speed	101N0390, 30 pcs: 101N0391	_	c AV us
Electronic unit - ULT High Speed	101NULT1, 30 pcs: 101NULT2	UL/CB	BD100CN 12/24V DC
Compressors on pallet	150		THERMALLY

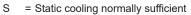


	LBP/MBP
°C	-40 to -5 (5)
VDC	9.6 - 17 / 21.3 - 31.5
hort) °C	55 (65)
t) °C	125 (135)
	VDC hort) °C



Cooling requirements

Application	LBP	MBP	HBP
32°C	S	S	_
38°C	S	S	_
43°C	S	S	_
Remarks on application:		•	



- 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

Resistance, all 3 windings (25°C)

Motor type

Motor

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	4.3/0.32

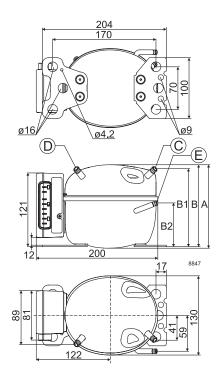
Ω

Standard battery protection settings (refer 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

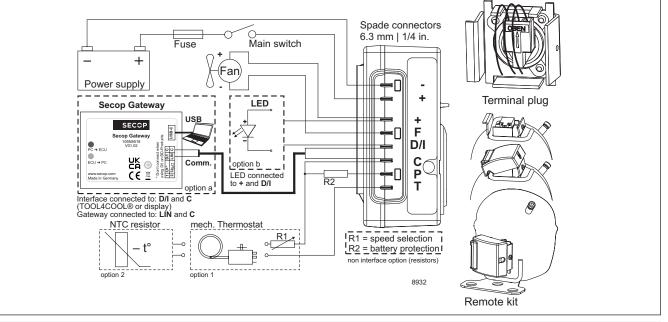
Height	mm	А	137	
		В	135	
		B1	128	
		B2	73	
Suction connector	location/I.D. mm angle	С	6.2 40°	
	material comment	C	Cu-plated steel Al cap	
Process connector	location/I.D. mm angle	D	6.2 45°	
	material comment	C	Cu-plated steel Al cap	
Discharge connector	location/I.D. mm angle	Е	5.0 21°	
	material comment	C	Cu-plated steel Al cap	
Connector tolerance	I.D. mm	±0	0.09, on 5.0 +0.12/+0.20	
Remarks:				



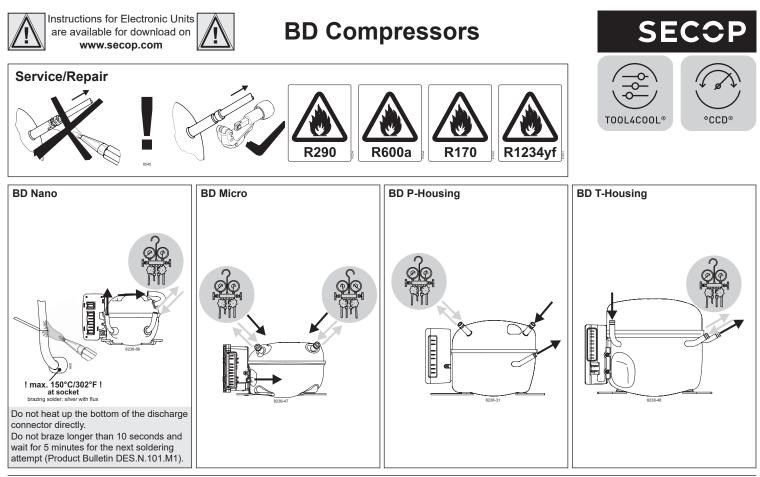
Variable speed

1.8

Capacity	(EN 12	2900 H	louse	hold/C	ECON	IAF)		24V	DC, s	tatic c	ooling	watt	Compr	essor sp	eed			
rpm \ °C	-40	-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2		onit unit	Resistor (F	21) [0]	Motor s	sneed
2,500	20.2	31.8	50.9	67.6	73.0	83.7	101	121	146	178	217		LIECU	Jint unit			Motor speed	
3,100	27.2	43.9	64.0	84.1	91.2	106	130	159	194	236	287		Carla		umber coloulated			
3,800	42.9	58.5	77.0	98.6	107	124	153	185	223	264			Code number		calculated		[rp]	m1
4,400	47.2	61.3	83.4	108	118	137	169	207	250						values		[rpr	-
Capacity							· · -		DC, s		<u> </u>	watt	101	N0390	0		AE	-
rpm \ °C		-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	with	AEO	203		2,5	00
2,500	22.5	35.5	56.7	75.4	81.5	93.4	113	135	163	199	243				451		3,1	00
3,100	29.3	49.0	71.4	93.8	102	118	145	177	216	264	321		1011	NULT1	867		3,8	0
3,800 4,400	47.8 52.7	65.2 68.4	85.9 93.1	110	119 131	138 153	170 189	207 231	249 280	296			with	AEO	1700		,	
. ,			95.1	121	131	155	109	-						(4,4	
Power co			00	05		00	45		<u>' DC, s</u>						Energy Optimi adapt its spee			
rpm \ °C		-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	165501 0	nii aiways	adapt its spee		tual cooling	uemanu.
2,500	33.6 36.9	38.3	43.3	48.5	50.3	53.8	58.9	63.7	68.1	-	75.2							
3,100 3,800	36.9 44.8	45.5 55.5	53.8 65.7	61.5 75.5	64.1 78.7	68.9 84.7	75.9 93.2	82.7	89.2 108	95.5 115	102		Wire d	imensior	ıs			
4,400	44.0 51.7	65.4	77.8	89.3	93.0	99.9	110	119	129	115				Size	Max I	ength*	Max I	ength*
								-					Cros			eration	24V operation	
Current o										, <u> </u>	-	A				oration		
rpm \ °C 2,500	-40 1.26	-35 1.53	-30 1.79	-25 2.03	-23.3 2.11	-20 2.26	-15 2.47	-10 2.66	-5 2.84	0	5 3.14	7.2	sectio	n				
3,100	1.20	1.55	2.25	2.03	2.11	2.20	3.17	3.45	3.72	3.97	4.21		[mm ²] [Gaug	je] [m]	[ft.]	[m]	[ft.]
3,800	2.00	2.37	2.25	3.14	3.27	3.52	3.89	4.22	4.52		4.21		-					
4,400	2.80	3.03	3.32	3.69	3.82	4.09	4.53	4.96	5.35	4.11				10	0.5	0		10
COP (EN						1.00	1.00		'DC, s	tatic c	ooling	W/W	6	10	2.5	8	5	16
rpm \ °C	-40	-35	-30	-25	-23.3	-20	-15	-10	-5		5	7.2						
2,500	0.60	0.83	1.17	1.39	1.45	1.56	1.72	1.90	2.15	-	2.89	1.2	*Length between battery and electronic un				ctronic unit	
3,100	0.74	0.96	1.19	1.37	1.42	1.53	1.71	1.92	2.17	2.47	2.82							
3,800	0.96	1.05	1.17	1.31	1.36	1.46	1.64	1.83		2.30			Operat	ional err	ors			
4,400	0.91	0.94	1.07	1.21	1.26	1.37	1.54	1.73	1.95				Error code		E	Error type		
COP (AS	HRAE	LBP)						24V	DC, s	static c	ooling	W/W	or LED			d out in the		
rpm \ °C	-40	-35	-30	-25	-23.3	-20	-15	-10	-5	0	5	7.2	flashes		то	OL4COOL@	B	
2,500	0.67	0.93	1.31	1.55	1.62	1.74	1.92	2.13	2.40		3.23		6	Thermost	tat failure			
3,100	0.79	1.08	1.33	1.52	1.59	1.71	1.91	2.15	2.43		3.16			(If the NTC	thermistor is s	hort-circuit	or has no co	nnection).
3,800	1.07	1.18	1.31	1.46	1.51	1.63	1.83	2.05	2.30	2.58				-				
4,400	1.02	1.05	1.20	1.35	1.41	1.53	1.72	1.94	2.18				5		cut-out of ele eration system			dad ariftha
Test con		-			EN 1	2900/		MAF*	A		E LBF)*			nperature is hig			
Condens			ure				5°C				°C				motor speed			
Ambient							<u>2°C</u>			-	°C				geration system		avily loaded	the motor
Suction g			ure			 no sub	2°C	a			°C				ntain minimum			
					I		0000111	9					3	Motor sta	rt error			
							numb				is blocked o			sure in the				
Bolt joint for one comp.Ø:16 mmBolt joint in quantitiesØ:16 mm							8-1917			refrigeratio	n system is too	high (>5 ba	ar)).					
								Ø:16 r			8-1918		2	-	start attemp			
Snap-on			able)				,	Ø:16 r	nm		8-1919				compressor		ts in short	time or fan
	Remote kit (without cable)105N9210One Wire/LIN gateway105N9518								current hig	her than 0.5A _{av}	_{'g}).							
One Wire/LIN gateway Automobile fuse, DIN 7258 12V: 30A 24V: 15 A					5 A				1	Battery p	rotection cut	-out						
		, DIN	1230			121:	SUA				elivera			(The voltag	ge is outside the	e cut-out se	tting).	
Main switch min. 30A from Secop																		



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