

## Datasheets

# BD250GH.2 Direct current Compressor

## R134a, 48V DC

## General

Code number (without electronic units)	101Z0405
Electronic unit - Telecom	101N0732, 36 pcs: 101N0733
Approvals	UL
Compressors on pallet	150

## Application

Application	LBP/MBP/HBP
Evaporating temperature °C	-25 to 15
Voltage range VDC	32 - 60
Max. condensing temperature continuous (short) °C	60 (70)
Max. winding temperature continuous (short) °C	125 (135)

## Cooling requirements

Application	LBP	MBP	HBP
32°C	S	S	S
38°C	S	S	S
43°C	S	S	F <sub>1</sub>
Remarks on application:			

## Motor

Motor type	variable speed
Resistance, all 3 windings (25°C) Ω	1.03

## Design

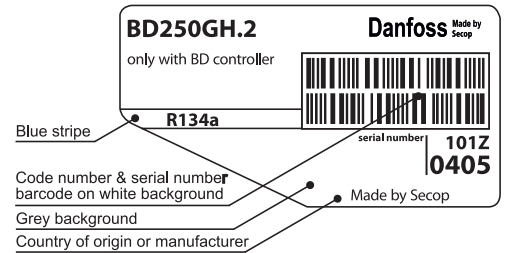
Displacement cm <sup>3</sup>	2.50
Oil quantity (type) cm <sup>3</sup>	150 (polyolester)
Maximum refrigerant charge g	300
Free gas volume in compressor cm <sup>3</sup>	870
Weight - Compressor/Electronic unit kg	4.4/0.24

## Battery protection settings

Voltage	Min. value	Default	Max. value
Cut out (0.1 steps) VDC	32	36	60
Cut in diff. (0.1 steps) VDC	0.5	4.0	10.0

## Dimensions

Height mm	A	137
	B	135
	B1	128
	B2	73
Suction connector location/I.D. mm   angle	C	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	E	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:	Clearance between electronic unit and baseplate does not allow the snap-on option for mounting.	



- S = Static cooling normally sufficient  
 O = Oil cooling  
 F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)  
 F<sub>2</sub> = Fan cooling 3.0 m/s necessary  
 SG = Suction gas cooling normally sufficient  
 - = not applicable in this area

