

Technical leaflet

Cartridge pressure controls ACB series



Introduction

ACB is a small disc type pressure control for use in refrigeration and air conditioning systems.

ACB is as standard equipped with a 6 amp contact system with automatic or manual reset.

The control is robust and reliable in operation in many types of units.

The small size, lightness and high degree of protection means that it can be mounted directly on the refrigeration systems where pressure regulation is required.

The control is available with different pressure settings and pressure connections to suit customer requirements.

All these features reduce installation costs and save space.



Application

To be used in refrigeration and air conditioning systems with CFC, HCFC, HFC.

High and low pressure safety cut in and cut out as well as fan cycling.

Features

- Contact load up to 6A
- Small size and light weight suitable for direct mounting
- Hermetically sealed sensor
- Pressure ranges from -0,5 to 45 bar
- Enclosure IP 40 or IP 65
- Corrosion resistant housing
- Tamper-proof, factory preset setpoints
- UL approved in the USA and Canada
- Excellent setpoint repeatability and stability

Function

ACB contains one or more stainless steel discs. Each disc reverses its curvature when pressurized to a customer specified value.

When the disc "snaps", electrical contacts open (or close) by means of a push rod. The pressure control resets automatically when pressure drops below (or rises above) a preset value.

Ordering

Standard versions listed in table no. 2 are available in **20 pcs** industrial packs. Other versions are available on request (minimum order size **200 pcs**)

Technical data

Tableno. 1

Media	CFC, HCFC, HFC
Range	-0,5 bar to 45 bar
Reset	Automatic, Manual
Contact function	SPST-NO, SPST-NC, SPDT
Electrical connections	AWG18 cables Double insulated cables Spade terminals (6.35 x 0.81 mm)
Contact load	1A @ 250V AC 6A @ 250V AC 0,05A @ 12/24V DC (gold contacts)
Pressure connections	1/4" ODM solder 6 mm ODM solder 1/4" SAE female flare with depressor pin
Max. working pressure MWP	45 bar
Burst pressure	300 bar
Media temperature	-35 to 135°C
Ambient temperature	-30 to 85°C
Enclosure	Cable version: IP 65 Spade version: IP 40
Approvals	CE, TÜV, VDE, UL & C-UL

Cartridge pressure controls, ACB series

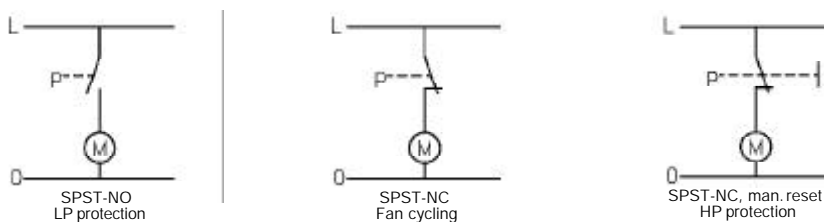
Ordering of Standard CCs

Tablono.2

Pressure	Cut out bar	Cut in bar	Reset	Contact system	Code no.		
					Solder		7/16-20 UNF for flare with depressor pin
					6mm	1/4"	
High pressure cut out (High pressure controller) (EN 378)	18 ± 0,7	13 ± 1,2	aut	SPST-NC	061F7504		
	18 ± 0,7	13 ± 1,2	aut			061F7505	
	18 ± 0,7	13 ± 1,2	aut				061F7506
	26 ± 1	20 ± 2	man		061F9703		
	26 ± 1	20 ± 1,5	aut		061F7507		
	26 ± 1	20 ± 1,5	aut			061F7508	
	26 ± 1	20 ± 1,5	aut				061F7509
	28 ± 1	21 ± 1,5	aut		061F7510		
	28 ± 1	21 ± 1,5	aut			061F7513	
	28 ± 1	21 ± 1,5	aut				061F7514
	42 ± 1,2	33 ± 2	aut		061F7515		
	42 ± 1,2	33 ± 2	aut			061F7516	
	42 ± 1,2	33 ± 2	aut				061F7517
	Low pressure (Compressor Protection)	0,5 ± 0,4	1,5 ± 0,3		aut	SPST-NO	061F7518
0,5 ± 0,4		1,5 ± 0,3	aut		061F7519		
0,5 ± 0,4		1,5 ± 0,3	aut				061F7520
0,7 ± 0,5		1,7 ± 0,4	aut	061F7521			
0,7 ± 0,5		1,7 ± 0,4	aut		061F7522		
0,7 ± 0,5		1,7 ± 0,4	aut				061F7523
1,7 ± 0,5		2,7 ± 0,4	aut	061F7524			
1,7 ± 0,5		2,7 ± 0,4	aut		061F7525		
1,7 ± 0,5		2,7 ± 0,4	aut				061F7526

¹⁾ All standard CCs are available with: 1.5m cable (AWG18) and contact load 6A (250V AC).

Electrical connections of Standard CCs



Dimensions and weights of Standard CCs

