

Pressure controls series CS3 for R744/ CO2

Standard types with fixed settings and special types,

Features

- Pressure range 8/Q
 - Versions with fixed factory cut-out setting available between 60 bar to 140 bar
 - Maximum allowable pressure of 140 bar
 - Factory test pressure of 154 bar
 - Narrow differential (approx. 6 bar) between cut-out and cut-in (in Microswitch version)
- Pressure range 7/P
 - Versions with fixed factory cut-out setting available between 40 bar to 70 bar
 - Maximum allowable pressure of 90 bar
 - Factory test pressure of 100 bar
 - Narrow differential (approx. 4 bar) between cut-out and cut-in (in Microswitch version)
- Manual reset versions available
- Precise switching and repeatability; Snap Action Contacts => Chatter Free (Bounce free) and Accurate Operation
- Contacts are designed as SPDT (Single pole double throw) for control function and alarm/status reporting
- Direct compressor mounting with adapter option
- 2 million cycles reliability (TÜV EN 12263 approved)
- IP65 protection if used with PS3-Nxx with plug (acc. EN 175301-803), no additional gasket required (molded into plug)
- 60 pieces packaging



CS3

Applied standards

- per Low Voltage Directive
- per PED Directive
- US LISTED Underwriter Laboratories (File No. E85974)

Selection table

1. Standard types

Pressure range 8/Q

Type	Part No. (Multi-Pack 60 Pcs)	Fixed Setting		Reset	Electrical Switch	Pressure Connection
		Cut-out	Cut-in			
Pressure Limiter CS3-WQS	0718008M	106 bar	100 bar	Automatic	Micro Switch	7/16"-20 UNF Female Thread with Schrader Opener
Pressure Limiter CS3-W8S	0718009M	106 bar	80 bar		Standard Switch	
Pressure Cut-out CS3-B8S	0718001M	108 bar	Approx. 25 bar below cut-out	External Manual	Standard Switch	
Safety Pressure Cut-out CS3-S8S	0718002M	108 bar	Approx. 25 bar below cut-out	Internal Manual	Standard Switch	

Pressure range 7/P

Type	Part No. (Multi-Pack 60 Pcs)	Fixed Setting		Reset	Electrical Switch	Pressure Connection
		Cut-out	Cut-in			
Pressure Limiter CS3-WPS	0718007M	54 bar	50 bar	Automatic	Micro Switch	7/16"-20 UNF Female Thread with Schrader Opener
Pressure Limiter CS3-W7S	0718006M	54 bar	41 bar		Standard Switch	
Pressure Cut-out CS3-B7S	0718004M	54 bar	Approx. 13 bar Below Cut-out	External Manual	Standard Switch	
Safety Pressure Cut-out CS3-S7S	0718005M	54 bar	Approx. 13 bar Below Cut-out	Internal Manual	Standard Switch	

Note: Cables with plug must be ordered separately (see next page).

2. Pressure controls CS3 special type

According to agreed specification, 60 pieces packaging

Pressure Range 8/Q: Versions with fixed factory cut-out settings available between 60 bar to 140 bar

Pressure Range 7/P: Versions with fixed factory cut-out settings available between 40 bar to 70 bar

Accessories cable assemblies

Type	Part No.	No. of Leads	Diameter of Lead	Temperature Range	Cable Length
PS3-N15	804 580	3	0.75 mm ²	-50...+80 °C	1.5 m
PS3-N30	804 581				3.0 m
PS3-N60	804 582				6.0 m

Note: PS3-M... are not in compliance with EN60335-1/2-40, clause 30 in term of glue wire test

Plug According to EN75301	Part No.
PG9	801 012
PG11	801 013

Technical data

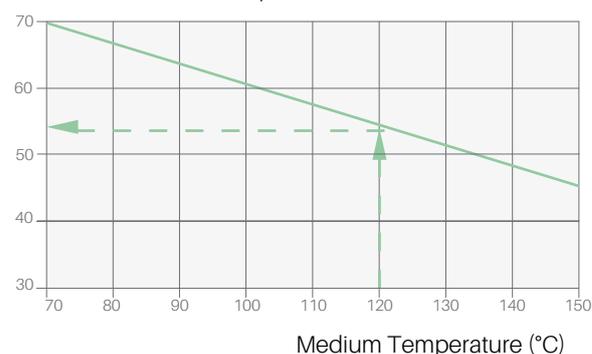
Protection Class Acc. to EN 60529	IP 65 with PS3-Nxx IP00 without Appliance Socket
Max. Allowable Pressure PS	Pressure Range 8/Q: 140 bar Pressure Range 7/P: 90 bar
Factory Test Pressure PT	Pressure Range 8/Q: 154 bar Pressure Range 7/P: 100 bar
Tolerances (As Per EN 12263) - Only for Standard Types (See page 1) Note: Tolerances are Valid Between -20...+55°C.	0 to -8%

Storage and Transportation Temperature	-40 ... +70°C
Ambient Temperature (Housing)*	-40 ... +70°C
Medium Temperature*	-40 ... +150°C

*) Note: For high temperature applications, i.e. medium temperatures between 70°C and 150°C, the maximum ambient temperature must be derated as per drawing.

E.g.: On medium temperature 120°C the ambient temperature of 55°C around the switch housing should not be exceeded.

Maximum Ambient Temperature (°C)



Electrical data

	Standard (SPDT)	Micro Switch (SPDT)
Inductive Load (AC15)	3 A / 230 VAC	1.5 A / 230 VAC
Inductive Load (DC)	0.1 A / 230 VDC	0.1 A / 230 VDC
Motor Rating Amps (FLA)	6 A / 120 / 240 VAC	2.5 A / 120 / 240 VAC
Lock Rotor Amps (LRA)	36 A / 120 / 240 VAC	15 A / 120 / 240 VAC