

Pressure Switches MCS, MCSN



xCommand

Command and signalling – ergonomic shape, attractive design. Switching control circuit currents reliably and precisely.

Pressure Switches

Control circuit devices RMQ

Foot and palm switches FAK

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Fingerprint system

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Timing relays ETR

Measuring relays EMR

Safety relays ESR

Technical Information Pressure Switches

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Pressure Switches

Pressure Switches

Pressure switches are control devices that monitor the pressure of a medium and convert it into an electrical signal. They are used to monitor the pressure of liquid and gaseous media in installations. Pressure switches from Moeller have two adjustable switching points (On and Off). The contact system switches when they are attained. This can be used either as a signal for actuation of an auxiliary circuit (contactor control system, PLC) or for direct switching of a load (pump, compressor).

Single-pole pressure switches are built as electromechanical auxiliary switches to IEC/EN 60 947-5-1/10.91, the 3-pole motor load switches comply with IEC/EN 60 947-4-1/12.91 for direct operation of contactors and motor-starters.

Application

Pressure switches are used for a broad range of applications in industry and trade. They function as regulators, monitors or limiters:

- Monitoring and regulating the pressure conditions of liquid or gaseous media in pipelines, containers, tanks apparatus
- In process control, cooling, pneumatics and hydraulics

- For controlling the pressure in cooling systems and lubrication systems of a wide range of machines.

Apart from the automatic monitoring and limitation of pressure, their task is also for example to keep a certain pressure constant, to initiate and end various control and regulating processes, as well as to enable functional sequences and generate signals.

Pressure switches are used for automatic switching, On and Off, of motors on pumps and compressors in building supply installations, pressure booster systems, extinguishing systems and oil or compressed air supply systems.

Versions

- ▶ 1-pole pressure switches (Figure 1)

These are used in control circuits and switched Off indirectly via a contactor control system.

- ▶ 3-pole pressure switches (Figure 2)

These are used in main circuits, switching, On and Off, e.g. of a compressor, is effected directly.

- ▶ 3-pole pressure switches with relief valve (Figure 3)

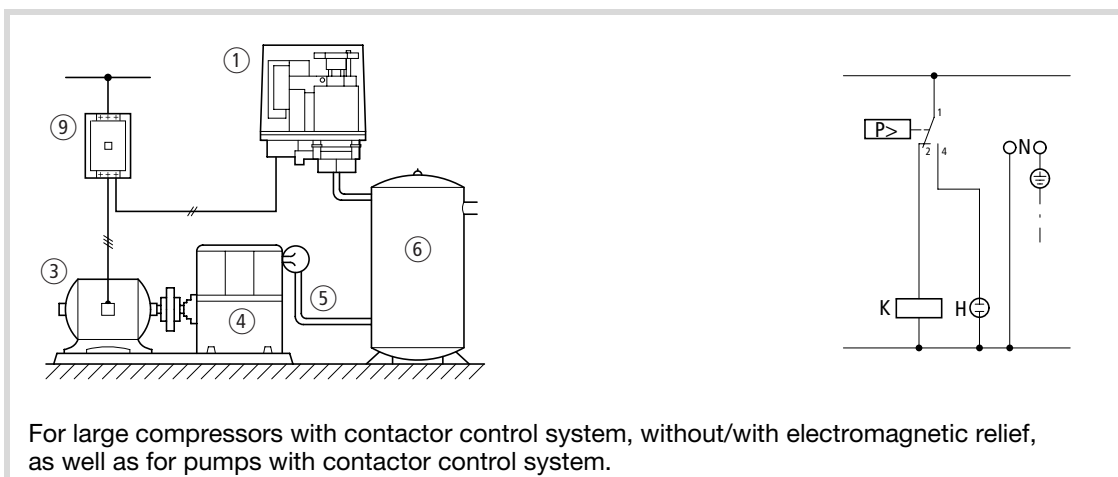


Figure 1: 1-pole pressure switch

Pressure Switches

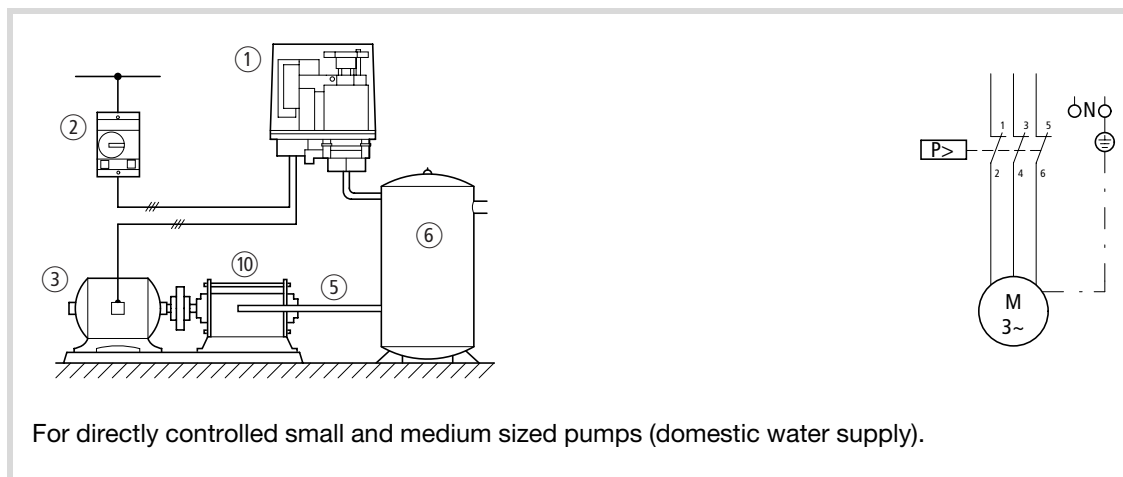


Figure 2: 3-pole pressure switch

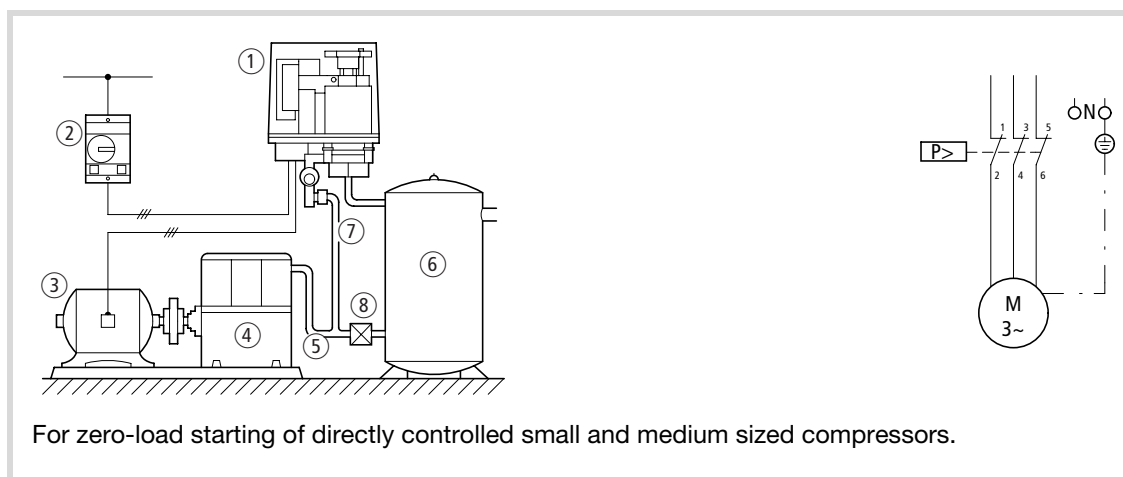


Figure 3: 3-pole pressure switch with relief valve
Legend to Figures 1 to 3

- | | | |
|------------------------------------|-----------------|----------------------------|
| ① Pressure switch | ⑤ Pressure pipe | ⑧ Back-pressure valve |
| ② Motor-protective circuit-breaker | ⑥ Pressure tank | ⑨ Contactor control system |
| ③ Motor | ⑦ Relief pipe | ⑩ Pump |
| ④ Compressor | | |

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