PVM9
Signal converter / power amplifier 32 W

The PVM9 proportional signal converter / power amplifier is used to drive magnetic valves from a DC 0 ...10 V or DC 0 ... 20 V phase cut control signal.

PVM9

Technical data

Power supply Supply voltage – Max. tolerance	Extra low voltage (SELV, PELV) AC 24 V, 50 ... 60 Hz +15 /–10 %
Controller fuse	T 2 A (slow blow)
Controller consumption	max. 3 VA
Control voltage	DC 0 ...10 V or DC 0 ... 20 V phase cut
Output voltage	DC 0 ... 20 V phase cut
Output power	32 W max.
Connection terminals	Screw terminals for max. 2.5 mm^2 wire
Protection class	II (⧈)
Protection standard	IP30 to IEC529
Ambient temperature Operation Storage	 0 ... 50 °C – 25 ... 50 °C
Weight (incl. packaging)	0.66 kg

⚠ Warning

- **Controller and power amplifier PVM9 must be supplied from the same phase**
- **Where the DC 0 ...10 V signal is derived from controllers, an isolated AC 24 V supply from a separate transformer must be provided**
- **Switch off electricity supply before removing the power amplifier or plugging it into the baseplate**
- **Do not touch the PCB. Electronic components can be damaged by electrostatic discharge.**

Principle of operation

The PVM9 functions as a signal converter and / or power amplifier to give a phase cut output rated at 32 W (max.). There is provision for two alternative signal inputs:

– DC 0 ...10 V for the control of magnetic valves which can only accept a phase cut signal

or

– DC 0 ... 20 V phase cut, for use when the total power required by the valve(s) exceeds the power rating of a controller having a phase cut output.

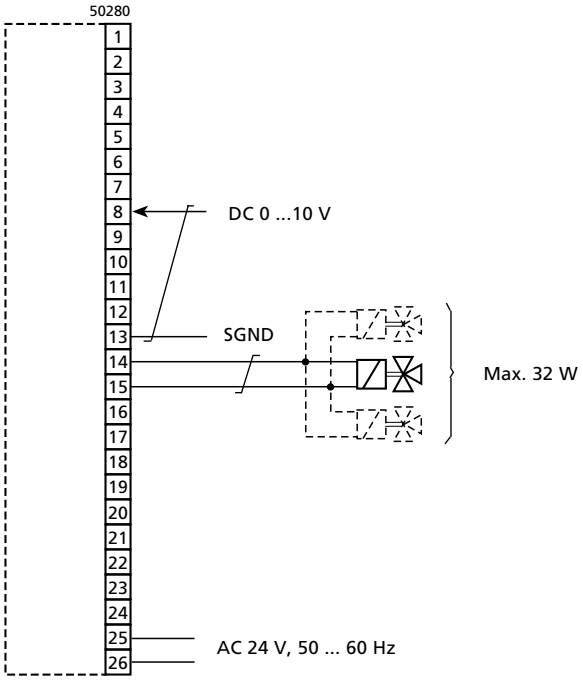
Construction, mounting and dimensions

See data sheet 5559

Terminal layouts

PVM9

Control voltage DC 0 ...10 V



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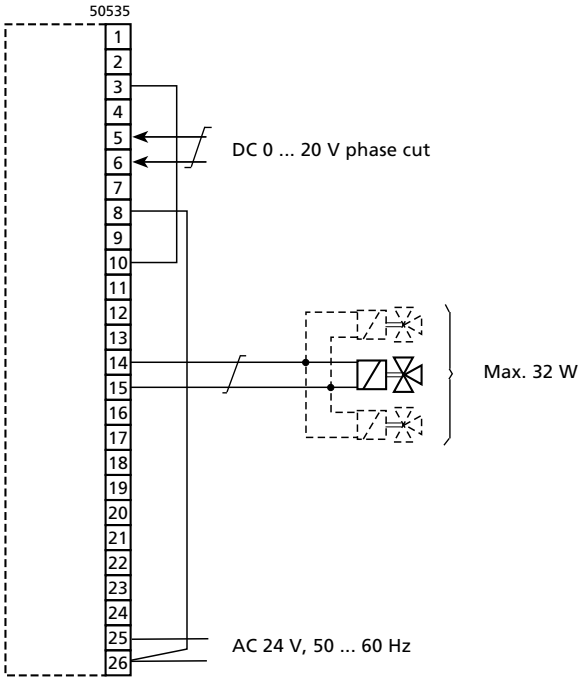
Control voltage DC 0 ... 20 V phase cut

Note:
Links 3 to 10 and 8 to 26
to be made at time of installation.



⌠ twisted pairs