

# Phase Cut Module IOPC1-120

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## Description

The IOPC1-120 is designed to convert a single 0-10Vdc Input Signal to drive a 0-20V 50Hz phase-cut output, at 120VA, to drive larger valve and damper actuators. The IOPC1-120 features opto-isolation, is powered from 24Vac (with common connection to input signal) and has high quality rising clamp screw terminals.

## Features

- 120VA Phase Cut Output
- 0-10Vdc Input
- Opto-Isolated
- High Quality Rising Clamp Terminals
- DIN Rail Mounting (TS35)
- Integral Heatsink



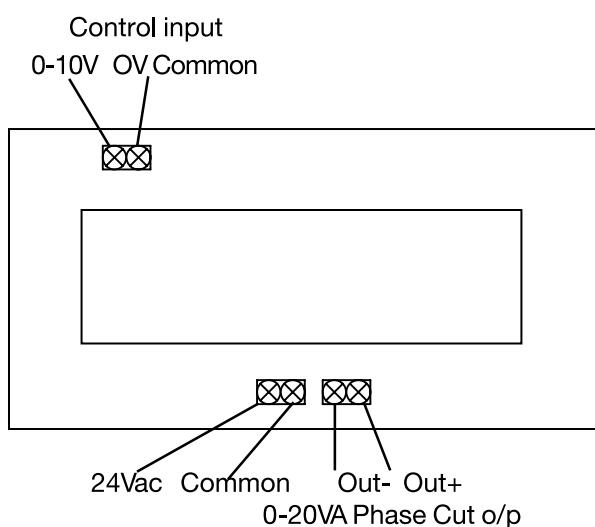
## Technical Specification

<b>Input Signal:</b>	0-10Vdc (2mA)
<b>Output Signal:</b>	0-20V full wave rectified 50Hz phase-cut- 120VA
<b>Power Supply:</b>	24Vac (Common to 0-10Vdc input)
<b>Terminals:</b>	Rising Clamp for 0.5-2.5mm <sup>2</sup> Cable
<b>LED Indicators:</b>	ON when Power on
<b>Ambient Temp.:</b>	0 to 50°C
<b>Dimensions:</b>	139mm(w) x 92.5mm(h) x 78mm (approx.)

## Order Code

**IOPC1-120**      Phase Cut Module 120VA

## Wiring



### Note:

The control input common is connected to the 24Vac supply common

## Installation and Configuration

There is a heatsink fitted on this pcb, other components may also get warm; for this reason the IOPC1-120 must be mounted in such a manner as to ensure free air circulation to provide adequate cooling.

### Notes:

- The transformer used to supply the 24V ac should be dedicated solely to the IOPC1-120. The transformer secondary must not have either end connected to 0V nor to Earth. If the transformer secondary is earthed, and the actuator is also earthed, the IOPC1-120 may be permanently damaged.
- The 24Vac supply must be rated to supply the full phase-cut output load.
- The IOPC1-120 is NOT protected against short circuits - care must be taken during wiring, and suitable external fusing should be fitted. All connections should be made with the power disconnected. Connections are clearly marked on the PCB.

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