

ECP-024 is intended to be used with EMERSON EXD drivers which are connected to stepper motor driven valves series EX4/EX5 / EX6 / EX7 / EX8.

In case of power failure, ECP-024 insures that the valve is closed.

Features

- Two outputs for maximum two drivers or controllers
- 24VAC input
- For DIN rail mounting with aluminium housing
- Easy wiring
- Fully tested and ready for operation
- CE marked



ECP-024

Introduction

In event of power failure to the entire system, stepper motor driven valve would not be able to move. Due to the differential pressure between condenser and evaporator, the refrigerant would continue to flow through the electronic valve if the valve is open. For certain applications such as expansion valve or hot gas bypass regulation, it is required to close the valve for protecting compressor against wet running.

With **ECP-024**, EMERSON offers a very simple and reliable solution which is able to close the electronic valve in event of power failure. To bridge the power loss **ECP-024** contains rechargeable batteries and a smart charge control. Optimum

battery life time is achieved through temperature compensated charge cycles.

One **ECP-024** is able to power up to two EMERSON drivers or controllers.

Applicable Driver modules and controllers

- EMERSON EXD-S.. Stand Alone Driver Module
- EMERSON EXD-U00 Universal Driver Module
- EMERSON EXD-C.. Configurable Driver Module (only with special firmware/configuration)

Selection Table

Description	Type	Part Code Nr.
Uninterruptible power supply	ECP-024	804 558
Electrical terminal kit	K09-P00	804 560
Transformer 230V / 24V AC, 25VA	ECT-323	804 424
Transformer 230V / 24V AC, 60VA	ECT-623	804 421

Electrical terminal kit is not included with ECP-024, please order separately.



ECP-024

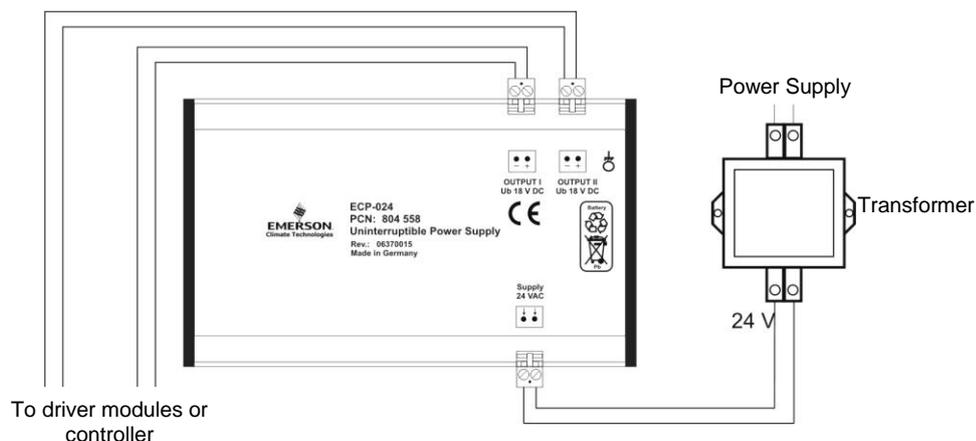


K09-P00



ECT-323

Wiring Diagram



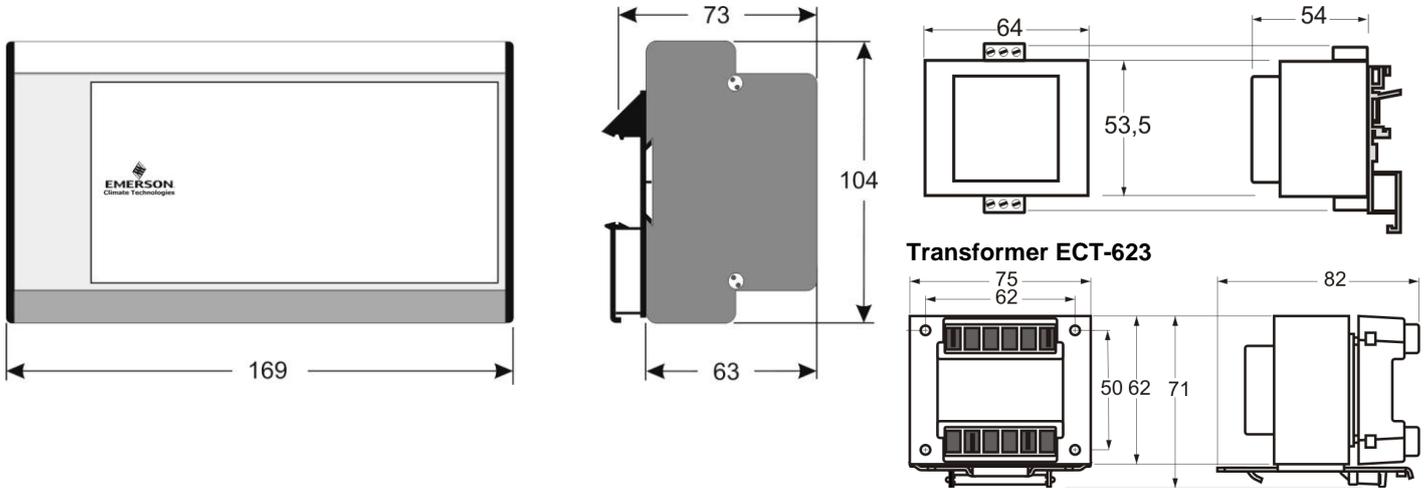
Technical Data

Backup battery type	Rechargeable, sealed acid-lead battery
Supply voltage	24 VAC \pm 10%, 50-60HZ
Number of outputs to drivers/controllers	2 (short circuit protected)
Output voltage, U_b	18 VDC
Number of backup batteries	Two pieces, each 12 VDC, 0.8 Ah
Battery recharging time	Approximately 2 hours
Approval	EMC
Marking	CE

Temperature range: storage operating	Electronic board -20 ... +65°C -10 ... +65°C
Humidity	< 90% r.H. non condensing
Connection (with terminal kit K09-P00)	Screw terminal plugs for wire size 0.5 ... 2.5 mm ²
Mounting	DIN-rail mounted
Protection class	IP20
Housing	Aluminum
Weight	~ 1,1 kg

Dimensions

ECP-024



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use by persons having the appropriate technical knowledge and skills, at their own discretion and risk. Our products are designed and adapted for fixed locations. For mobile applications failures may occur. The suitability for this has to be assured from the plant manufacturer which may include making appropriate tests.

This document replaces all earlier versions.

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