

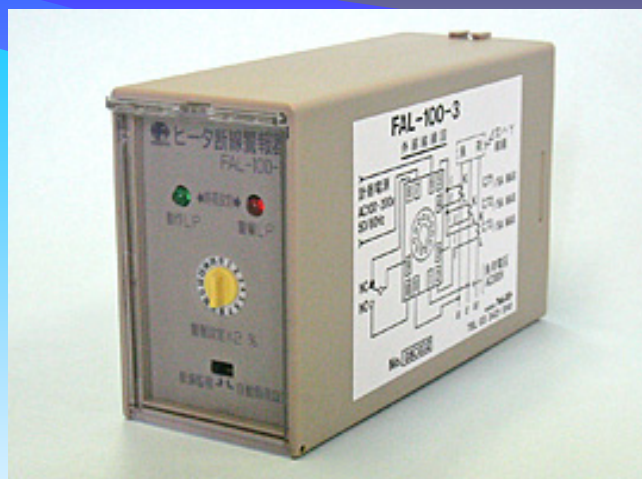
Heater disconnection warning machine

FAL-100-1

FAL-100-3P/Z



FAL-100-1 < for single phase >



FAL-100-3P/Z < for three-phase >



Forest Co., Ltd.

- Goods for **RoHS**
- Automatic load setting by microcomputer
- The alarm setting is a digital method.
- Installation type in board by plug IN method
- Simplification of setting and handling

FAL-100-1

Specification

Meter power supply	Within AC100V-220V \pm 10%
Heater capacity	..1.0KW or less.. connecting directly in case of AC100V and 0.5KW and AC200V(5A or less in load current). External CT and union combination when this capacity is exceeded Please use.
Range of load setting	It sets it an automatic load by 1-5A.
Range of warning setting	It sets it at 0-30%(warning setting value 0-15 \times 2) current decrease rate.
Power supply frequency	50/60Hz
Load setting accuracy	\pm 3%
Warning setting accuracy	\pm 3%
Detection input	Load current and load voltage
Alarm output	Relay point of contact 1ab(ratings 200V1A resistance load)
Category temperature range	0 \sim 50 $^{\circ}$ C
Operating humidity limits	90%RH or less(No do be dewy.)
Installation method	Base socket ..installation type plug-in type (.. optional in board ... Omron 11PFA equivalent goods)
Insulation resistance	500VDC 50M Ω or more between each I/O terminals
Withstand voltage	1500VAC 1 minute between each I/O terminals
Weight	300g

FAL-100-3P/Z

Specification

Controlled object	·FAL-100-3P ... Phase control method ·FAL-100-3Z ... 0 crossing and SSR control methods
Meter power supply	Within AC100V-220V \pm 10%
Heater capacity	5A or less in line current is assumed to be directly connected, and 5A or more is combined with external CT.Please use.
Range of load setting	It sets it an automatic load by 1-5A.
Range of warning setting	It sets it at 0-30%(warning setting value 0-15 \times 2) current decrease rate.
Power supply frequency	50/60Hz
Load setting accuracy	\pm 3%
Warning setting accuracy	\pm 3%
Detection input	Load current and load voltage
Alarm output	Relay point of contact 1ab(ratings 200V1A resistance load)
Category temperature range	0 \sim 50 $^{\circ}$ C
Operating humidity limits	90%RH or less(No do be dewy.)
Installation method	Base socket ..installation type plug-in type (.. optional in board ... Omron 11PFA equivalent goods)
Insulation resistance	500VDC 50M Ω or more between each I/O terminals
Withstand voltage	1500VAC 1 minute between each I/O terminals
Weight	350g

At DIN rail (EN300222) installation

Technical drawing of the E300022 terminal block showing front and side views with dimensions in mm.

Front View Dimensions:

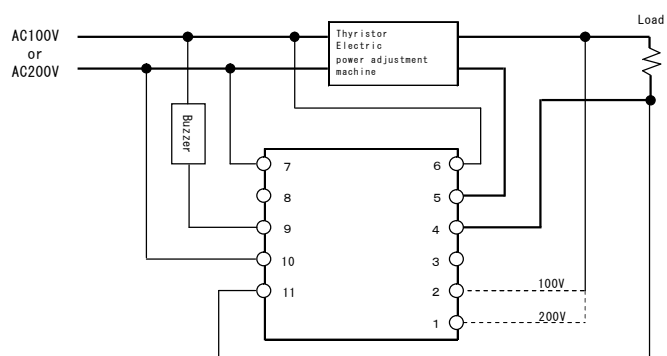
- Width: 50.5 ± 0.2
- Height: 85
- Internal Height: 80.5

Side View Dimensions:

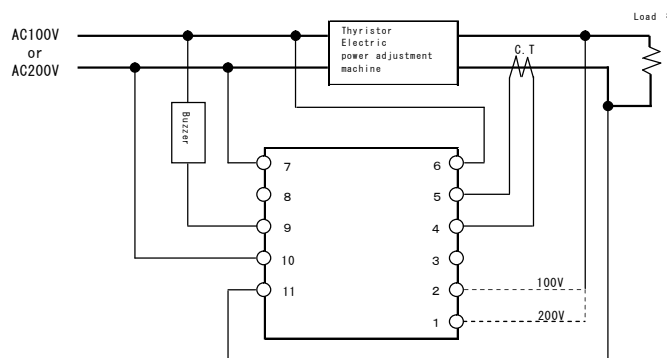
- Top Flange Width: 162
- Top Flange Extension: 130
- Top Flange Thickness: 29
- Top Flange Lip: 3.3
- Mounting Flange Height: 35.4
- Mounting Flange Width: 75
- Internal Height: 115

At DIN rail (EN30022) installation

AC100V 0.5kW } In the following cases
AC200V 1.0kW }



AC100V 0.5kW } In case of the above-mentioned
AC200V 1.0kW }



*External C.T is useless for 5A or less the line current
Please connect the line of R phase and S phase with the base socket in the series.

Business line

Automatic temperature control meter

Various temperature detection edges

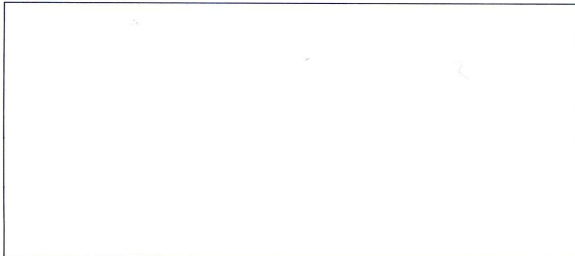
Direct-current ampere-hour meter

Direct-current ampere-hour meter by microcomputer control

Thyristor power controller

Heater disconnection alarm

In addition, electronic application apparatus



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