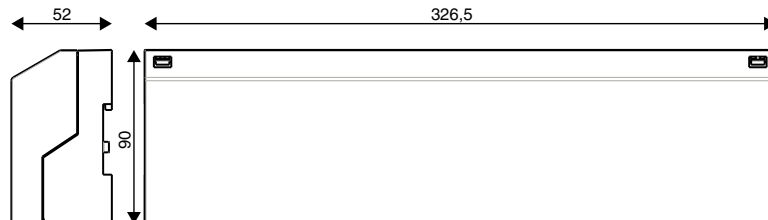


HERZ Electric distributor for positioning signals

Datasheet 3 **F798** 02-04, Issue 1118

☑ Dimensions in mm



☑ Models

3 F798 02	Heating, with set-back. Channels: 6	24V~ / 230V~	482 g
3 F798 03	Heating/cooling, with set-back and pump control, Channels: 10	230 V~	515 g
3 F798 04	Heating/cooling, with set-back and pump control, Channels: 10	24 V~	515 g

☑ Application field

Distribution of the power supply, the positioning signals and a shared time programme for room devices (analogue or with display) and thermal actuators.

☑ Technical data

Power supply

Power supply 230 V~	±10%, 50...60 Hz
Power supply 24 V~	±20%, 50...60 Hz
Distributor fuse	230 V = T4AH 24 V = T2A

Parameters

Circuits/zones	6 or 10
Timer channels/set-back	2

Ambient conditions

Admissible ambient temperature	0...50 °C
Admissible storage temperature	-20...70 °C
Admissible ambient humidity	5...80% rh without condensation

Inputs

Set-back	Potential-free contact input
Heating/cooling	Potential-free contact input
t°C limiter or dew point	Potential-free NC contact

Outputs

Number of actuators	6 channels: Max. 15 pcs. 10 channels: Max 18 pcs.
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Pump connection Max. 6 (2) A

Construction

Housing material Flame-retardant ABS plastic, black RAL9005
Cover Transparent grey plastic

Connection terminals / cable

Connection terminals Terminals with spring technology for 0.2 to 1.5 mm² vertical cable entry
Mounting Wall mounting or DIN-beam
Power cable Solid:
NYM-J/NYM-O (max. 5 x 1,5 mm²)
Flexible:
H03V2V2H2-F / H05V2V2H2-F
Cable clamping device Integrated in housing

Standards, guidelines

Type of protection IP 20 (EN 60529)
Protection class II (EN 60730)
EMC Directive 2014/30/EU EN 60730-1 Type 1C
Low-Voltage Directive 2014/35/EU EN 60730-1 & -2-9 Type 1C

Description of functions

The electric distributor is utilised with an underfloor-heating distributor and serves as a distributor for the power supply, for the individual positioning signals and for a shared time programme (max. 2 channels). The distributor communicates the room controller command and the decrease signal to the thermal actuators. Terminals A and B serve as time channels for decreasing the set temperature. The time programme can be defined either using HERZ 3 F799 15-18 or via an external timer. The corresponding connection can be used to reduce all the other zones depending on the time.

A pump can be activated directly via the two terminals provided. The pump logic is used to activate the pump according to requirements. The pump starts operating as soon as an actuator is active. So if none of the connected actuators are activated (i.e., valves are closed), the pump is switched off.

A temperature limiter can be connected via the two TB terminals.

The thermal actuators are switched off when the water temperature is too high or the dew point has been reached. The pump continues running.

Models 3 F798 03 & 3 F798 04:

Actuators are switched off when the water temperature is too high or the dew point has been reached. The pump continues to run.

A dew point sensor (only at 24 V) can be connected as an alternative to the temperature limiter or in addition. As soon as the dew point is reached, the pump and the thermal actuators are switched off. If no device is connected to these terminals, the existing bridge must be maintained, otherwise the pump logic will not work and the outputs of the thermal actuators will be interrupted.

Overview of functions for each type

Functions	3 F798 02	3 F798 03	3 F798 04
230V	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
24V	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
Number of channels	6	10	10
Heating	<input checked="" type="checkbox"/>	-	-
Heating/ Cooling	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Set-back in 2 zones	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pump control	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heating/cooling input	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TB or rH% input	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Number of connection terminals for thermal actuators

Type / Chanel	1	2	3	4	5	6	7	8	9	10
3 F798 02	5	0	2	0	1	1	0	2	0	4
3 F798 03	5	2	2	1	1	1	1	2	2	4
3 F798 04	5	2	2	1	1	1	1	2	2	4

Depending on the version, there are up to 21 connection terminals. It is possible to connect from 15 up to a maximum of 18 thermal actuators.

Disposal and safety instructions

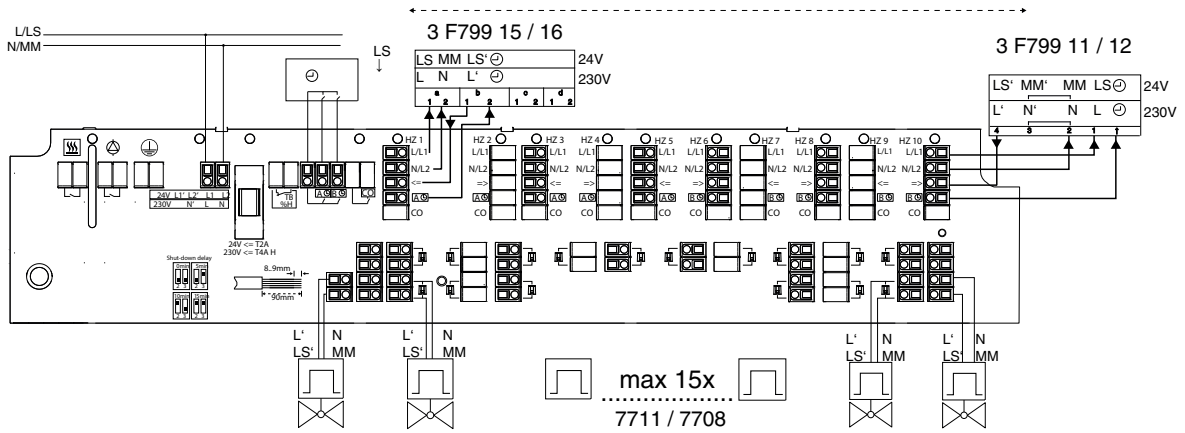
This product is only suitable for the purpose intended by the manufacturer, as described in the “Description of operation” section. All related product documents must also be adhered to. Modifying or converting the product is not admissible.

The devices are not designed for use outdoors, and are only intended for dry, enclosed indoor rooms.

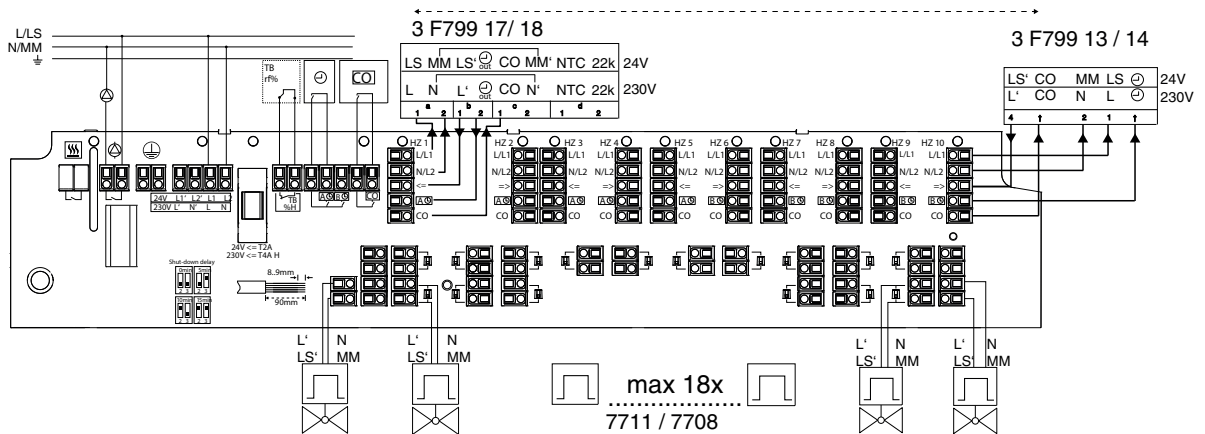
The electrical distributor is tested to standards – the necessary EU standards are taken into account.

Connection diagram

3 F798 02



3 F798 03/04



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