

## Desigo® Fire Safety Modular system

### Zone-Amplifier Card (40-Watt) Model ZAC-40

#### Architect & Engineer Specifications

- 40-Watt, plug-in audio amplifier
- Selectable audio levels
  - 25VRMS 40 Watts
  - 70VRMS 40 Watts
- Local audio input
- Speaker lines supervised when active or inactive
- Style "Y" or "Z", power-limited wiring
- Split-zone (A / B) wiring on Style "Y"
- Plugs into either a Model CC-5 or Model CC-2 Card Cage
- Supports and switches up to eight (8) digital-audio channels
- Internal amplifier supervision
- Back-up amplification available
- UL864 & CAN / ULC-S576 Listed

#### Product Overview

The Zone-Amplifier Card (Model ZAC-40) is a combination 40-Watt, amplifier / speaker zone for use with Desigo Fire Safety Modular panels. Style Y, Z or "A / B" speaker-zone wiring configurations are supported. Model ZAC-40 is power limited, and can be configured to provide 40 Watts of audio at 25VRMS or 70VRMS.

Model ZAC-40 is a plug-in card that mounts in a Model CC-5 or CC-2 card cage. Model ZAC-40 is capable of amplifying any of the (8) eight digital-audio channels that are transmitted from the Digital Audio Card (Model DAC-NET), via the digital-audio bus Audio Serial Interface (Model ASI). Model ZAC-40 amplifier is supervised for functionality.

Model ZAC-40 can be used as a single, 40-Watt speaker zone for (1) one-to-eight (8) channel applications, or as a bulk amplifier for one-or-two-channel applications - feeding high-level audio to Models ZIC-4A and ZIC-8B, or for single-channel applications – feeding high-level audio to Model HCP. Model ZAC-40 can also send audio to additional speaker zones, via the use of the Model EBA2004-A1 booster amplifier.

The speaker lines are supervised for open, short-circuit and ground fault. The speaker lines are also supervised in both the active and inactive states.

To provide amplifier backup, additional Model ZAC-40 cards can be used to achieve the desired amplifier backup ratio of 1 to 1 or 1 to-many.

Model ZAC-40 takes one (1) sub-module address of Model DAC-NET, and receives control and communication data from Model DAC-NET, via the CAN bus on Model DAC-NET.

Model ZAC-40 contains an inherent 'Degrade Mode' backup tone (Slow Whoop) that serves as a secondary backup to the primary backup tone or digital message provided by Model DAC-NET.



**Zone – Amplifier  
Card  
Model ZAC -40**



## Product Overview – (continued)

A local audio input is provided to connect an external audio source. The local audio input is activated via an external contact, and has the lowest priority of all signals. Model ZAC-40 is FM (#3015946, #3026902); CSFM (#6812-0067:237), and FDNY (#6160) Approved.

Additionally, the Zone Amplifier Card meets the UL 464 requirement for 520 Hz low-frequency signal tone, as described in the section for **Determination of Low Frequency Signal Format** in the **Standard for Audible Signal Appliances** – when used with Models 'SEH' and 'SEFH' series of Siemens high-fidelity notification appliances.

### Typical Applications

#### Emergency

- Fire Evacuation
- Tornado Alert
- Terror Alert
- Building Emergency

#### Non-Emergency

- Convenience Paging
- Background Music

## Temperature and Humidity Range

Model ZAC-40 is UL864 9<sup>th</sup> Edition Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

## Electrical Ratings

INPUT POWER		
24V CURRENT DRAW [Back Plane]		0mA
24V CURRENT DRAW [Screw Terminal]	@ 40W	2.3A
	@ 20W	1.2A
	@ 10W	0.7A
	@ 0W	0.15
6.2V CURRENT DRAW [Back Plane]		0mA
24V CURRENT DRAW [Standby]		150mA
DRY CONTACT INPUT		24V / 10mA, power limited

## Product Compatibilities

MODEL OR TYPE	DATA SHEET
HiFi Notification Appliances: 'SEH' Series'	<b>2589</b>
HiFi Notification Appliances: 'SEFH' Series'	<b>2590</b>
Desigo Fire Safety Booster Amplifier	<b>6823</b>

## Details for Ordering

MODEL	PART NUMBER	PRODUCT
ZAC-40	500-035400	40-Watt Zone Amplifier

**NOTICE** – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

**SIEMENS**

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July - 2019  
(Rev. 1)