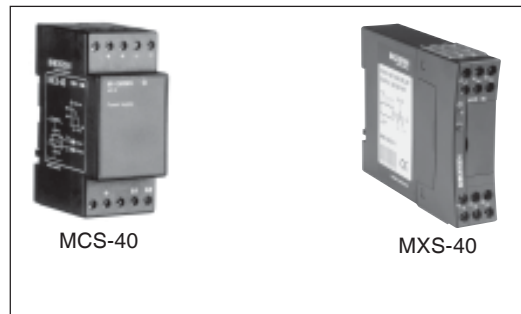


## INTRODUCTION

This section includes switch mode power supplies and charger. Consult the selection guide below to quickly find the relevant data sheet with detailed technical information. All the power supplies meet the requirements to isolation from main to output. Furthermore the product meets the hardest environmental level in the generic EMC-standards.



## SELECTION GUIDE

	Input/Supply	Output	Housing	Description	Type	Page
	110-240V AC/DC	Charger output-12v DC 12V DC 24V DC	36mm installation design for DIN Rail or plug-in 22,5mm Industrial Housing for Din Rail Mounting 11 pole plug-in. 54mm Installation/Industrial design Housing (standard System 2000 profile)			
Switch mode Power supplies	• • •	• • • • • •	•  •  •	Power supply Power supply Power supply	MCS-40 MCS-340 MXS-40	110 110 111

## Power Supplies

### Power Supply MCS-40/340



## DESCRIPTION

Switch mode power supply with regulated 12 or 24V DC output. The power supply can be connected to any mains voltage within the range 110-240V AC/DC. The output has short circuit and overload protection and LED indication of output voltage. Versions available for DIN rail or 11-pole plug-in mounting.

## VERSIONS/ORDERING CODES

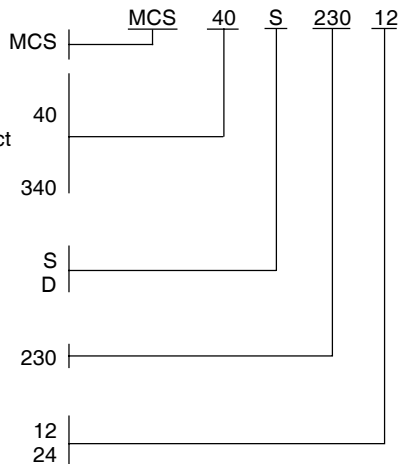
**Type:**  
Power supply.

**DIN/PLUG-IN standard type:**  
PLUG-IN type to direct replacement of MC-320/340

**Mounting:**  
11-pole plug-in.  
DIN rail.

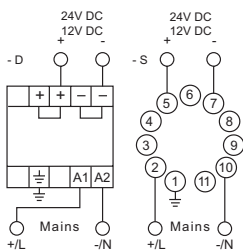
**Mains voltage:**  
110/240V AC/DC

**Output:**  
12V DC/1.0A DC  
24V DC/0.5A DC

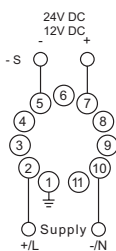


## WIRING DIAGRAM

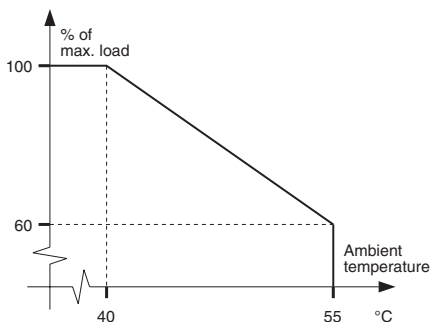
MCS-40



MCS-340



## OUTPUT LOAD DIAGRAM



## TECHNICAL DATA

**Output:** 12V DC  $\pm$  0.5V, max. 1.0A continuously.  
24V DC  $\pm$  0.5V, max. 0.5A continuously.  
Electronic short circuit and overload protection.

**Ripple/noise:** Max. 100mV pp.

**Efficiency:** 50-75%, depend on ambient temperatur.  
Typically: 70%.

**Mounting:** S: 11-pole plug-in.  
D: Directly on 35 mm DIN rail (EN50022).

**Terminals (D only):** Max. conductor size 4 mm<sup>2</sup>.  
Screw type terminals with self-lifting clamps schrouded in accordance with VDE0106 (finger and back of hand protection).  
Doubled output terminals.

**Mains voltage:** 110-240V AC/DC (95-265V).

**Mains frequency:** 40-60Hz.

**No-load current:** 12V: 14-16mA~  
24V: 18-20mA~

**Isolation:**  
Primary to secondary: EN 60950 class II, 3,75kV AC.

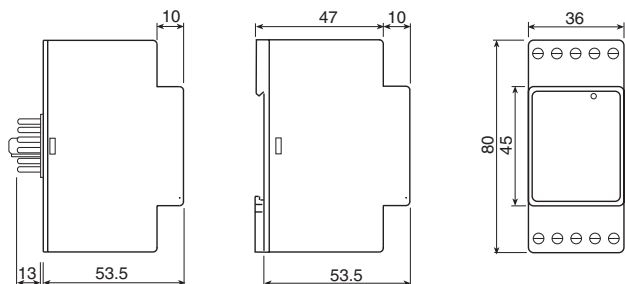
**Ambient temperature:** -20 to 55°C.

**Protection:** S: IP40.  
D: IP20.

**Housing:** Noryl SE-1.

**Weight:** Typically 100 g.

## MECHANICAL DIMENSIONS





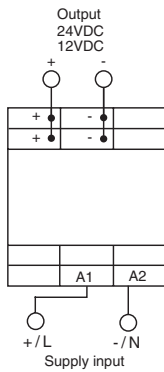
## DESCRIPTION

Switch mode power supply with regulated 12 or 24V DC output. The power supply can be connected to any mains voltage within the range 110-240V AC/DC. The output has short circuit and overload protection and LED indication of output voltage.

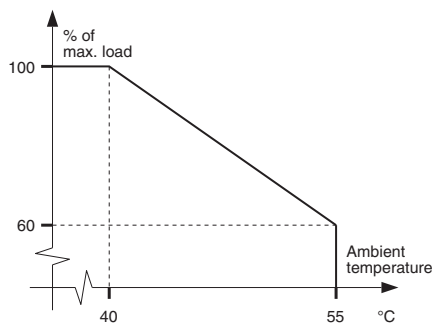
## VERSIONS/ORDERING CODES

<b>Type:</b> Power supply.	MXS-40	MXS- 40	230	12
<b>Mains voltage:</b> 110/240V AC/DC	230			
<b>Output:</b> 12V DC/1.0A DC 24V DC/0.5A DC	12			24

## WIRING DIAGRAM



## OUTPUT LOAD DIAGRAM



## TECHNICAL DATA

**Output:** 12V DC  $\pm$  0.5V, max. 1.0A continuously.  
24V DC  $\pm$  5%, max. 0.5A continuously.  
Electronic short circuit and overload protection.

**Ripple/noise:** Max. 100mV pp.

**Efficiency:** 60-80% depend on ambient temperatur.  
Typically: 75%.

**Supply voltage:** 110-240V AC/DC (95-265V).

**Net frequency:** 40-60Hz.

**No-load current:** 12V: 14-16mA~  
24V: 18-20mA~

### General data:

Ambient temperature: -20 to 55°C.

Storage temperature: -40 to 80°C.

Mounting: 35mm DIN-rail (EN50022).

**Note:** Air space of 3mm on both sides of the power supply is highly recommended at loads above 50%.

**Terminals:** Screw terminals with dual compartment. Terminal screws are combined crosshead/slotted. Up to 2 x 2,5mm<sup>2</sup> wire (2 x 1,5mm<sup>2</sup> inc. ferrule).

Recommended torque, 0,5 Nm., max. 0,7 Nm. (VDE0609-1).

**Indicators:** Green LED = working voltage. Red LED = overload.

**Protection:** IP20.

**Electrical isolation:** 3,75kVAC (1 min.) between supply and output (EN60950).

**Housing:** Noryl (GE), UL94V1.

**Terminal block:** Noryl (GE), UL94V0.

**Weight:** Approx. 200g.

## MECHANICAL DIMENSIONS

