Nactus
Intelligent Surge Protector

Electrical surges from lightning storms, power disturbances and other exceptional circumstances often cause severe failures in electronic equipment if power lines are not adequately protected.

With Nactus you can protect your power lines against surge pulses up to 30kA.

What is it
Nactus Surge Protector is an intelligent surge protector designed for power lines protection. It provides class II (C, T2) protection for both common and differential mode disturbances. Power line distribution option is also available.

With Nactus Surge Protector the weakened protection level is indicated via an integrated alarm signal feature.

Nactus is designed to protect systems up to 8kW, and protects against surge pulses up to 30kA. Nactus can be used in e.g. telecommunication industry and solar systems.

Where’s the Benefit
Nactus Intelligent Surge Protector protects the electronic equipment all times. The integrated alarm signal is given in case of weakened protection level, but Nactus continues to work even after the alarm signal has been given.

As a separate protection module inside Nactus is also easy and fast to change without power interruptions.

Nactus Surge Protector is compact in size and has various usage possibilities.

More information:
Enics Raahe Oy
Pajuniltyntie 43, 92120 Raahe, FINLAND
e-mail sales.raahe@enics.com

www.enics.com
Technical Data

Technical Details

- Dimensions (l x d x h) 91x160x160mm (3.58x6.3x6.3in)
- Operating temperature -35...+55°C (-31...131°F)
- Operating voltage range 36-57VDC (can be customized)
- Max continuous current 150A
- Cable diameter up to 50mm² (AWG1/0)
- IEC test classification II, T2
- Max discharge current I_max 30kA 8/20us
- Nominal discharge current I_nom 15kA 8/20us
- Protection level, differential mode 400V at I_max
- Protection level, common mode 800V at I_max
- Housing material UP polyester
- IP66

Features

- High current output capacity
- Option to use as power distribution unit
- Fast and easy installation
- Protection module change is quick with no power interruption
- Warning for weakened protection level
- Galvanic isolated alarm signal
- Compact size

Various usage possibilities

- Input 150A → Output 150A
- Input 150A → Output 2x75A
- Input 150A → Output 100+50A

Standards

- IEC 61643-1
- IEC 60364-4-443

Alarm Details

<table>
<thead>
<tr>
<th>Alarm</th>
<th>Full Protection Level</th>
<th>Weakened Protection Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual indicator LED</td>
<td>ON, stable green</td>
<td>OFF, no light</td>
</tr>
<tr>
<td>Alarm relay, mode 1</td>
<td>Closed</td>
<td>Open</td>
</tr>
<tr>
<td>Alarm relay, mode 2</td>
<td>Open</td>
<td>Closed</td>
</tr>
</tbody>
</table>

Functionality

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