

Eaton – convincing in terms of safety, performance and operational availability.

IP42



Systematic protection – xEnergy ventilation system in IP42 design



Powering Business Worldwide

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In panel building, the trend in ventilation systems is increasingly going in the direction of IP42 protection degree. As a pioneer in the field of safety, Eaton has developed a new ventilation system in IP42 for its proven xEnergy switchgear system, in addition to its standard range in IP31 and IP55. All xEnergy systems can be executed as type-tested switchgear systems and retrofitted up to 5000A in IP42.



Fine mesh grids can be removed at any time and replaced or cleaned in full operation

More protection – and yet easy to clean

Technical construction measures such as punched gills and fine mesh grids for back walls, doors and roof offer protection against foreign bodies in the IP42 design. At the same time, the main components such as frames and grids on doors and back walls can be removed at any moment and replaced or cleaned even when in full operation.



Back wall

In addition, a trough with punched gills was welded into the back wall. A frame with fine mesh grid is mounted over the trough. Thanks to this replaceable frame, the grid can be removed at any time and easily cleaned (even in full operation).



Door

Doors are executed according to the same principle as back walls. However, a fine mesh grid is mounted on the inside of the door. On the outside, therefore, only the punched gills are visible. Similarly to the back wall, the grid is fixed on a sturdy steel sheet metal frame and, thanks to a quick lock, can be removed and easily cleaned at any time, during operation and without any tools.



Roof

Roof plates are designed in the standard version without grid for IP31 degree of protection. For IP42 degree of protection, roof plates are executed with an additional fine mesh (<1mm), mounted on the inside.



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