

E³-HighPerformance, the efficient solution for high demands

Power dissipation is an issue of increasing importance in today's power distribution systems. Compact systems and the conditions for smooth operation are in the focus. Efen's HighPerformance line represents the optimal solution in the area of NH fuse-switches. They are particularly suitable for biogas plants and industrial applications where overcurrents must be controlled in a reliable manner.



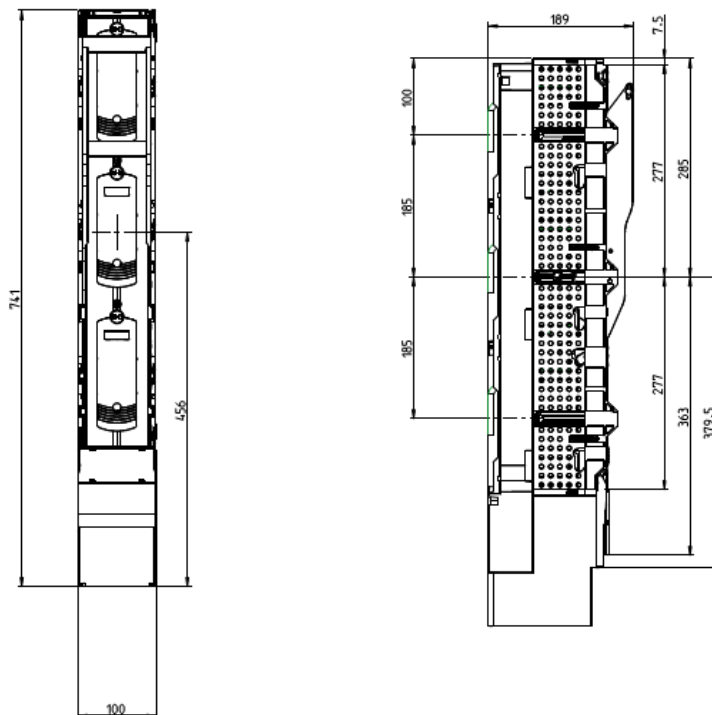
- **20% less power dissipation:** Less power dissipation means a less thermal load on the system, which in turn extends operating periods and reduces costs.
- **Excellent electrical operating behaviour:** E³ HighPerformance fuse-switches provide a short-term resistance of 120kA, meaning more safety for the user.
- **Cost-effective products:** The dimensions of the HighPerformance fuse-switches are identical with those of standard devices of size 1 to 3. Accordingly, the corresponding NH fuse size will always fit, and there is no need to change to the next larger variant.

Drop-in transformers and electronic fuse monitoring are available to upgrade Efen HighPerformance fuse-switches, making them perfectly suitable for use in state-of-the-art power grids. The products are marked for visual identification.

E³-NH fuse-switches size 1-3, 3 poles, switchable, with M12 universal terminals, HighPerformance version					
	Size	Amps	Item no.	PU	PG
E ³ NH-LA-LEI 1 3P HP U6	1	250	38016-0460	1	E ³ 1-3
E ³ NH-LA-LEI 2 3P HP U6	2	400	38026-0460	1	E ³ 1-3
E ³ NH-LA-LEI 3 3P HP U6	3	630	38036-0460	1	E ³ 1-3

Sales start:	Delivery time:	Documentation:
Available	From stock, subject to prior sale	Product information 014, gross price sheet

Dimensions drawings



Technical data

Technical data of NH fuse-switches (according to VDE 0660 T-107 / IEC/EN 60947-1/-3)

For NH Fuse-links acc. to DIN 43210/1

				Size 1	Size 2	Size 3
			Unit			
Rated operational current	400 V	I_e	A	250	400	630
	500 V			250	400	630
	690 V			200	315	500
Conventional free-air thermic current with fuses		I_{th}	A	250	400	630
Rated operational voltage		U_e	V	AC690	AC 690	AC 690
Rated insulation voltage		U_i	V	1000	1000	1000
Rated insulation voltage		U_{imp}	kV	12	12	12
Rated conditional short-circuit current (when protected by NH Fuse-Links)	400 V		kA	120	120	120
	500 V			120	120	120
	690 V			100	100	100
Utilisation category VDE 0660 T107/EN/IEC 60947-3	400 V			AC-23B	AC-23B	AC-23B
	500 V			AC-22B	AC-22B	AC-22B
	690 V			AC-21B	AC-21B	AC-21B
Mechanical service life (switching cycles)		Cycles		800	800	800
Electrical service life (switching cycles)		Cycles		200	200	200
Permissible ambient air temperature		°C		-25 bis +55	-25 bis +55	-25 bis +55
Type of protection acc. DIN/EN 60529/VDE 0470 T1		IP		20	20	20
Max. permissible power dissipation of the NH fuse-link		P_v	W	23	34	48
Total power dissipation (devices without fuse-link)		P_v	W	22	45	100
Degree of pollution		-	-	3	3	3
Overvoltage category		-	-	IV	IV	IV
Rated frequency		Hz		50-60	50-60	50-60
Weight without NH Fuse-Links		kg		4,71	5,41	6,10