

MEDIUM VOLTAGE PRODUCTS

ZS8.4 Digital

Improve reliability and efficiency in your electrical network.



With ZS8.4 Digital you gain unprecedented flexibility for any application. The digital solution takes full advantage of well-proven components: current and voltage sensors, protection and control relays with IEC 61850 digital communication to ensure a reliable and efficient electrical network.

— ZS8.4 Digital

ZS8.4 Digital benefits

Safe and reliable

- Increased equipment reliability and safety in your substation
- Extended communication supervision functionality

Intelligent and ready for the future

- Implement changes easily as requirements change
- Flexibility towards varying load flows

Simple and efficient

- Minimized lifetime costs
- Late customizations and changes possible

Lower environmental impact

- Lowers energy consumption up to 250 MWh* which represents saving of 13 000 EUR
- Saves up 150 tons of CO₂*, that is equal to emissions produced by mid-size European car driven for 1 250 000 km

* compared to typical substation with 14 switchgear panels of ZS8.4 type over 30 years of operation

ZS8.4 Digital

represents an advanced switchgear solution as it meets important requirements of the future:

- Unprecedented flexibility
- Increased process efficiency
- Lower cost of operation
- Maximized integration
- Reliability and safety

With ZS8.4 Digital you avoid many of the practical challenges you face in today's complex applications - you simply have less to worry about in your electrical network.

ZS8.4 is an air-insulated switchgear for primary distribution up to 24 kV. It is suitable for indoor installations and it is designed to provide maximum flexibility and the highest possible safety for circuit-breaker systems, switch-disconnector or contactor installations.

Switchgear		12 kV	17.5 kV	24 kV
Rated voltage	[kV]	12	17.5	24
Rated power frequency withstand voltage	[kV 1 min]	28	38	50
Rated lightning impulse withstand voltage	[kV]	75	95	125
Rated frequency	[Hz]	50 / 60	50 / 60	50 / 60
Rated current	[A]	...1 250	...1 250	...1 250
Rated short-time current	[kA x 3 s]	16 / 20 / 25	16 / 20 / 25 ^{*)}	16 / 20 / 25 ^{*)}
Arc proof withstand current (IEC 62271-200)	[kA x 1 s]	16 / 20 / 25	16 / 20 / 25 ^{*)}	16 / 20 / 25 ^{*)}
Internal arc classification - gas exhaust into switchgear room		AFL	AFL	AFL
Internal arc classification - gas evacuation out of switchgear room		AFLR	AFLR	AFLR
Loss of service continuity		LSC-2A/PI	LSC-2A/PI	LSC-2A/PI
Width	[mm]	650	650	800
Depth	[mm]	1 000	1 000	1 200
Height	[mm]	2100 ... 2240 ^{**)}	2100 ... 2240 ^{**)}	2100 ... 2240 ^{**)}
Loss of service continuity		LSC-2A/PM	LSC-2A/PM	LSC-2A/PM
Width	[mm]	650	650	800
Depth	[mm]	1 200	1 200	1 200
Height	[mm]	2100 ... 2240 ^{**)}	2100 ... 2240 ^{**)}	2100 ... 2240 ^{**)}
Loss of service continuity		LSC-2B/PM	-	-
Width	[mm]	650	-	-
Depth	[mm]	1 200	-	-
Height	[mm]	2100 ... 2240 ^{**)}	-	-

*) 17.5 kV switch-disconnector panel only 20 kA / 24 kV switch-disconnector panel only 16 kA

**) With installed exhaust gas duct

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