MindCore Technologies

MCSi

Intelligent
CIRCUIT SWITCHER



72.5 TO 145kV / 1200A

MINDCORETECH.COM



SWITCH IN...

TO THE FUTURE!

The MCSi is a high quality intelligent circuit switcher designed for modern power systems, delivering reliable performance and advanced operational efficiency.

Built with robust engineering and lightweight construction, it ensures long-term durability and seamless integration across various applications.

THE MINDCORE "EDGE"

- Real-time pressure monitoring, remotely or localy
- Extremely robust design, engineered to withstand any conditions.
- Best-in-class phase synchronization
- Customizable to fit any mounting requirements
- One-time setup: no need for adjustments from site to site

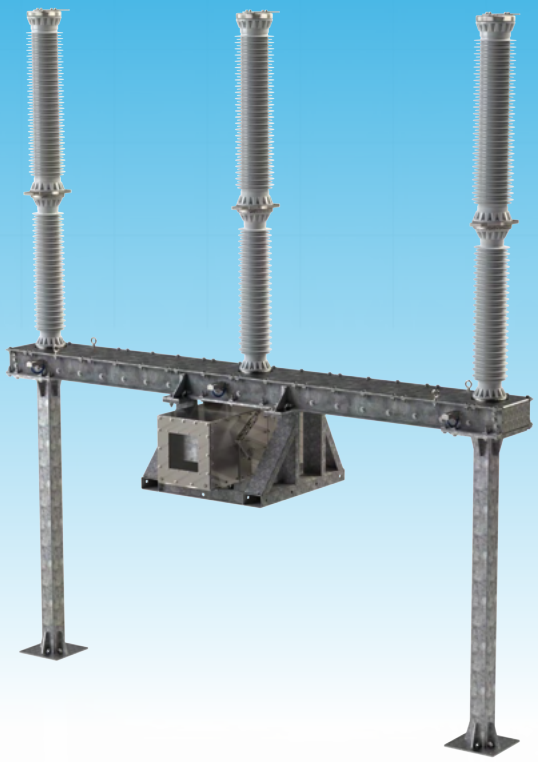
The MCSi is perfect for mobile applications with an easy rack-in/rack-out design





PRODUCT FEATURES

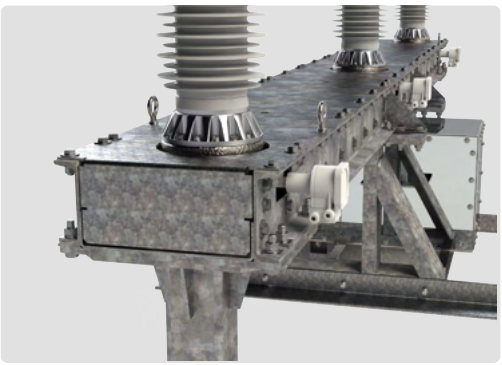
- Lightweight construction
- Design for mobiles and substations
- Using silicone hollow insulator for greater safety
- Rotating linkages, so no on-site adjustment required
- One robust operating mechanism for gang operation
- Sensors for real-time monitoring of gas density and pressure, contact displacement, speed of operation, and synchronicity of the three phases
- DNP 3.0 and/or IEC 61850 communication capabilities
- Using AVX proven design for disconnect switch portion
- Automatic interlock between interrupter and disconnect
- EHT operator used for disconnect operation



TECHNICAL SPECIFICATIONS

MindCore Technologies

Rated Maximum Voltage		145	kV
Rated Lightning Impulse Withstand Voltage	(Disconnect Switch)	650	kV BIL
Rated Lightning Impulse Withstand Voltage	(Interrupter)	650	kV BIL
Continuous Current		1200	A
Temperature Range		-35 to +40	˚C
Transformer Limited Fault (TLF)	@145kV	2.5	kA
	@72.5kV	4.6	kA
Primary Bus Fault Interrupting (T100)		25	kA
Short Time Withstand	1 sec	40	kA
Peak Withstand		108	kA
First Pole to Clear Factor	(kpp)	1.5	
Frequency		60	Hz
Interruption time	@ Rated Control Voltage	3	Cycles
		50	ms
Operating Sequence		O-0.3s-CO	
Mechanism Type		Spring Powered	
Number of Mechanismes	(Gang Operated)	1	
Individually adjustable		YES	
Dielectric Medium	(Gas)	SF6	
Mass of the Gas	(Single Phase)	2.6	kg
Rated Pressure		83	psig
Alarm Pressure		73	psig
Lock out Pressure		63	psig
Pressure Safety Protection Limit		150	psig
Rated Control Voltage		48	V DC
Range of Control Voltage		28 - 56	V DC
Disconnect Switch Type		AVX	







MINDCORE TECHNOLOGIES

TCO

UNRIVALED TOTAL COST OF OWNERSHIP

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