TAVRIDA ELECTRIC
Excellence in Engineering

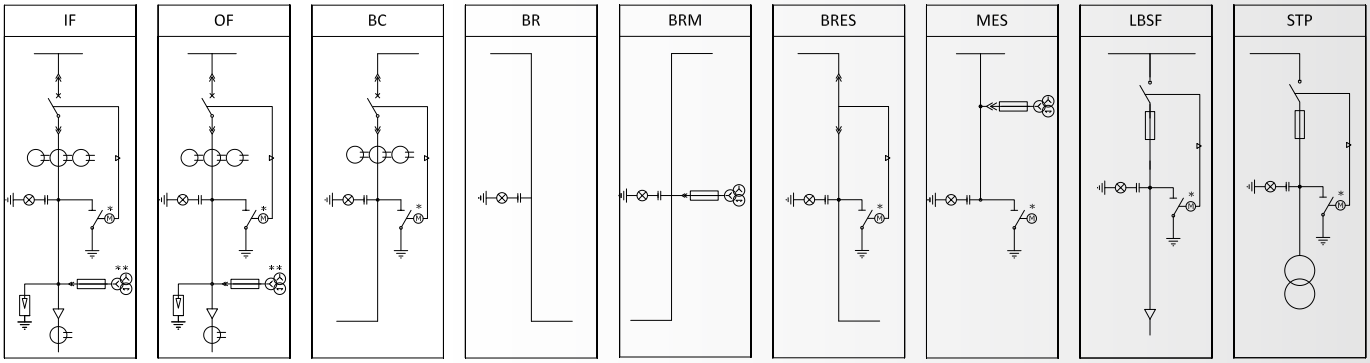
FLEXIBLE AND RELIABLE SOLUTION
FOR PRIMARY AND SECONDARY DISTRIBUTION SYSTEMS

SG_MILE AIS

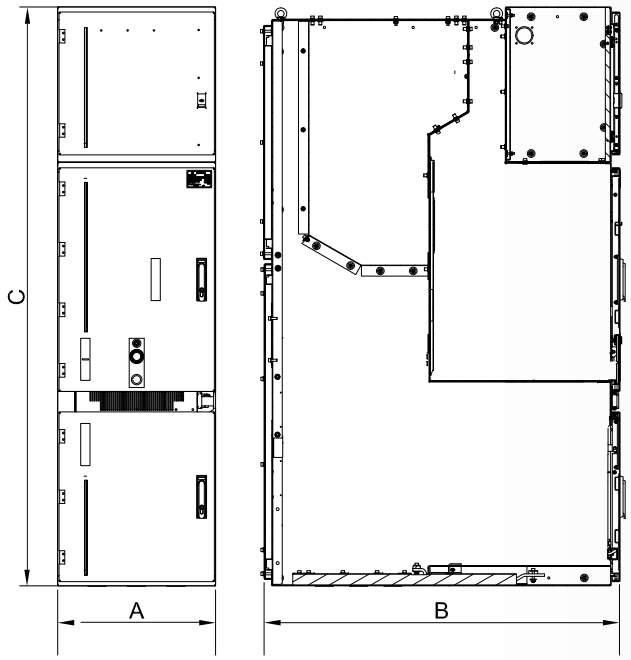
TECHNICAL DATASHEET

ISO 9001:2015 certification
ISO 14001:2015 certification

PANEL CONFIGURATIONS



DIMENSIONS AND WEIGHTS



Voltage	Width A, mm	Depth B, mm	Height C, mm
12kV	600, 750, 1000	1350	2348
17,5kV	600, 750, 1000	1350	2348
24kV	750, 1000	1590	2348

12-17,5 kV

Depth (mm)	1350					
Height (mm)	2348					
Width (mm)	1000					
	750					
	600					
Weight (kg)	780		930		1050	
Rated current (A)	630	1250	1600	2000	2500	3150*
IF						
OF						
BC						
BR						
BRES						
M						
MES						
LBSF*						
STP*						

24 kV

Depth (mm)	1590				
Height (mm)	2348				
Width (mm)	1000				
	750				
Weight (kg)	1010		1100		
Rated current (A)	630	1250	1600	2000	2500
IF					
OF					
BC					
BR					
BRES					
M					
MES					
LBSF**					
STP**					

*4000A with forced cooling
**STP and LBSF cubicle maximum ratings are 630A

TECHNICAL SPECIFICATIONS

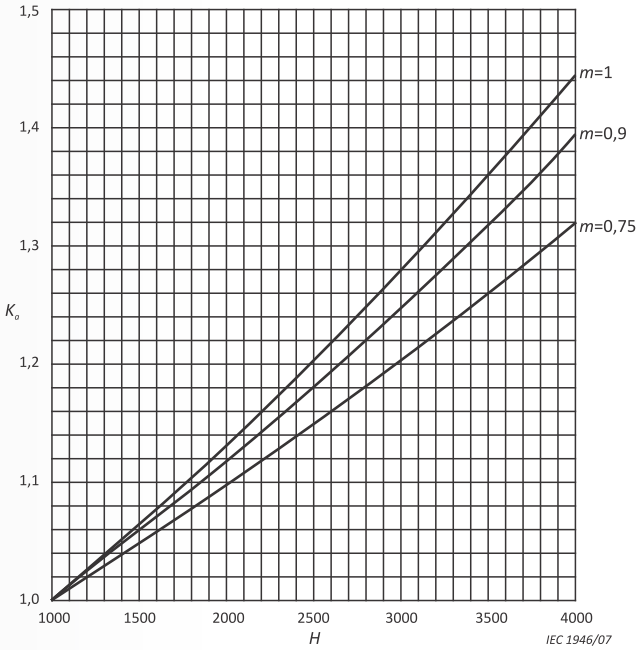
The rated characteristics of the switchgear are guaranteed under the following ambient conditions:

Parameter	Parameter value
Minimum ambient temperature	- 40 °C*
Maximum ambient temperature	+ 40 °C**
Maximum altitude above sea level	3000 m ***
Relative humidity	95%
Ambient atmoshpere	Presence of normal, non-corrosive and uncontaminated atmosphere.

* with selected microprocessor electronics only.
** + 55 °C on request.
*** in accordance with IEC 60721-2-1 for altitudes above 1000 m, it is required to take into consideration the decrease of dielectrical strength applying factor from the table.

The SG_MILE series switchgear are suitable for operation in the climate of Wda type in accordance with IEC 60721-2-1 standard.

The panel operation environment must not have dust, particles, fumes or smoke, corrosive or flammable gases, vapors or salts.



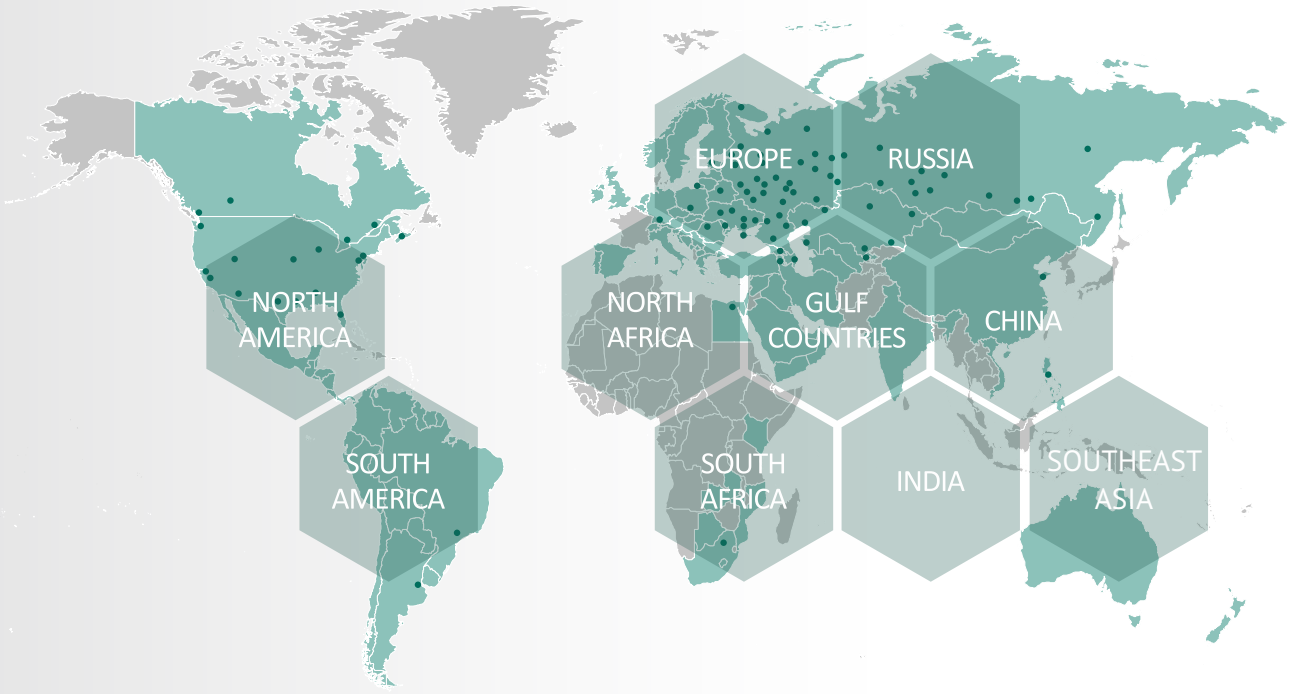
Main technical data:

Rated voltage, kV	12	17,5	24
Rated insulation voltage, kV	12	17,5	24
Rated frequency, Hz	50/60	50/60	50/60
Rated power frequency withstand voltage, 1 min, kV*	28/32	38/45	50/60
Rated lightning impulse withstand voltage, kV*	75/85	95/110	125/145
Rated branch connection current, A	630;1000;1250; 1600;2000;2500;3150**	630;1000;1250; 1600;2000;2500;3150**	630;1000;1250; 1600;2000;2500
Rated main busbar current, A	1250;2000;3150**	1250;2000;3150**	1250;2000; 2500
Rated breaking current, kA	25; 31,5	25; 31,5	25
Rated short-time withstand current (3 s), kA	25; 31,5	25; 31,5	25
Rated peak withstand current, kA	64; 83	64; 83	64
Rated supply voltage for auxiliary circuits, V			
DC	48; 110; 220	48; 110; 220	48; 110; 220
AC	100; 230	100; 230	100; 230
Insulation level	Normal	Normal	Normal
Insulation type	Air	Air	Air
IAC classification (IEC62271-200)	AFLR 31,5kA/1s	AFLR 31,5kA/1s	AFLR 25kA/1s
Busbar insulation	Partly-insulated	Insulated	Insulated
Maintenance version	Front; front/rear access	Front; front/rear access	Front; front/rear access
Control versions	Local and RTU	Local and RTU	Local and RTU
Height	2348	2348	2348
Width, mm			
600	Up to 1250A	Up to 1250A	-
750	630..2000A	630..2000A	630..1250A
1000	2500..3150A**	2500..3150A**	1600..2500A
Depth	1350	1350	1590
Class of protection	IP 4X (IP 41 on request)	IP 4X (IP 41 on request)	IP 4X (IP 41 on request)

* GOST version on request
** 4000A with forced cooling

APPLICABLE STANDARDS

Description	Standard
High-voltage switchgear and control gear – Part 1: Common specifications	IEC 62271-1
High-voltage switchgear and controlgear – Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	IEC 62271-200
High-voltage switchgear and control gear – Part 200: High-voltage alternating current disconnectors and earthing switches	IEC 62271-102
Insulation coordination – Part 2: Application guide	IEC 60071-2
High-voltage switchgear and control gear – Part 100: High-voltage alternating current circuit-breakers	IEC 62271-100
Instrument transformers - Part 2: Additional requirements for current transformers	IEC 61869-2
Instrument transformers - Part 3: Additional requirements for inductive voltage transformers	IEC 61869-3
High-voltage switchgear and control gear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV	IEC 62271-103
Unsealed metal-enclosed switchgear and control gear for voltages up to 10 kV. General specifications	GOST 14693-90
Factory-assembled metal-enclosed switchgear for rated voltages up to and including 35 kV. General specifications	GOST R 55190-2012
Alternating-current circuit-breakers for voltages from 3 to 750kV. General specifications	GOST R 52565-2006
EU LV directive	2014/35/EU
EU EMC directive	2014/30/EU



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