

Mvnex-12 Removable AC Metal-clad Switchgear

Summary

Mvnex-12 removable AC metal-clad switchgear(short for switchgear as below) is developed by Schneider technology, it can instead KYN28-12, KYN18-12, JYN2-12 series products. The switchgear applies to 3.6~12KV, 3 phase AC 50Hz network for receiving and distributing power energy and also for control, monitor and protection. It can be accords to IEC62271-200, GB3906 and so on requirement. It has reliable prevention function against false operation.



Ambient condition

1. Ambient temperature: -5°C~40°C; daily average: 35°C;
2. Altitude: ≤1000m
3. Relative humidity: daly average: ≤95% monthly average: ≤90%;

Electric features

No.	Item	Unit	Data
1	Rated voltage	kVrms	12
2	Rated insulation		
3	1 P.F withstand voltage(50Hz)	kVrms	42
4	Lightning impulse withstand voltage(1./50s)	kV peak	75
5	Rated current		
6	Busbar	A rms	630, 1250, 2500, 3150
7	Circuit breaker	A rms	630, 1250, 2500, 3150
8	Rated thermal stability withstand current(4s)	kA rms	25, 31.5, 40
9	Rated peak withstand current	kA peak	63, 80, 100
10	Protection degree		IP4X
11	Compartment protection degree		IP2X

Intorduction

Mvnex is used in the HV/MV and MV/MV substation
 MV part is indoor type metal-clad switchgear
 Switchgear is removable metal-clad type

Structure

Enclosure: Aluminum-zinc plate
 Painting: High-temperature painting epoxy power
 Insulation components: Flammable resistant

Technical specification

Switchgear

Rated voltage	Ur	KV rms	12
Rated insulation			
1 P.F. withstand voltage(50Hz)	Ud	kV rms	42
Lightning impulse withstand voltage(1./50s)	Up	kV peak	75
Rated short-time withstand current(4s, Virtual value)	Is	kA rms(4s)	31.5
Rated peak withstand current	Ip	kA peak	80
Protection degree	Enclosure(FU)		IP4X
	Compartment		IP2X

Busbar

Rated maximum working current	In	A rms	3150
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Outline dimension

Rated parameter	Outline dimension(mm)				
	Height	Width	Depth		
			Up incoming	Bottom incoming	
			Usual type	Anti-combustion arc counters	
630/1250A	2320	800	2195*	1595	1780
2500A	2320	900	2295**	1595	1780
3150A	2320	900	2245***	1745	1780

*Maximum backpack is 600mm, cable incoming

** Maximum backpack is 700mm, cable incoming

***backpack is for busbar incoming, 500mm

Outline dimension

