



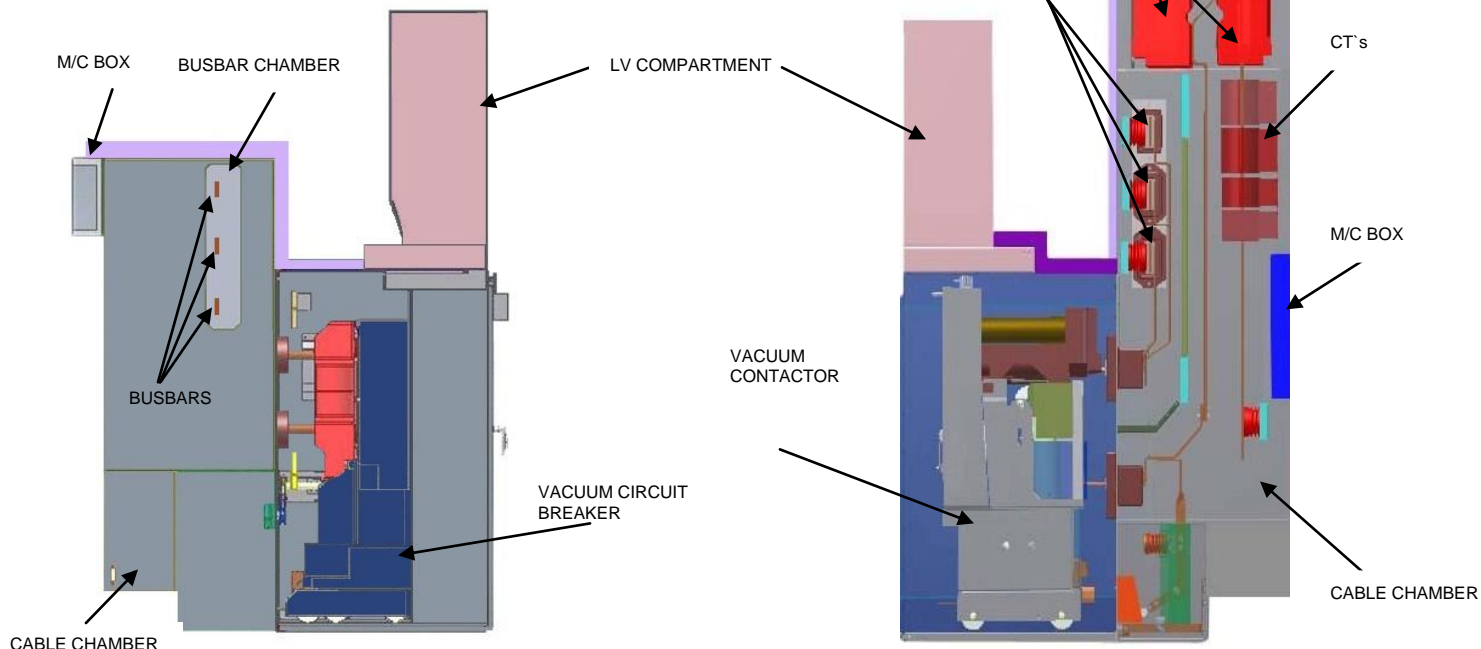
AL-AHLEIA SWITCHGEAR CO. K.S.C.C.
STATE OF KUWAIT

AIR INSULATED SWITCHGEAR TYPE AH12

AH12 SWITCHGEAR is fully type tested air insulated extensible switchgear consisting of horizontal isolation and horizontal draw out Vacuum Circuit Breaker, / Vacuum contactor, CTs / PTs (as applicable), Earthing Switch and Cable box.

SALIENT FEATURES

- Loss of service continuity category : **LSC2B** (AS PER IEC 62271-200)
- Partition class : PM (METALLIC) (AS PER IEC 62271-200)
- Accessibility of compartment :
- Busbar compartment : Tool based.
- Cable compartment : Tool based.
- Switching device : Interlock Controlled.
- Robust metal enclosed with cubicle construction
- All operations of the switchgear can be carried out from the front of the cubicle with cubicle door closed.
- Fully interlocked VCB trolley and Earthing Switch.
- Pressure relief flap for all HV compartments.
- Fully insulated / shrouded busbars & bus connections.
- Cable box suitable for heat shrinkable XLPE cable termination.



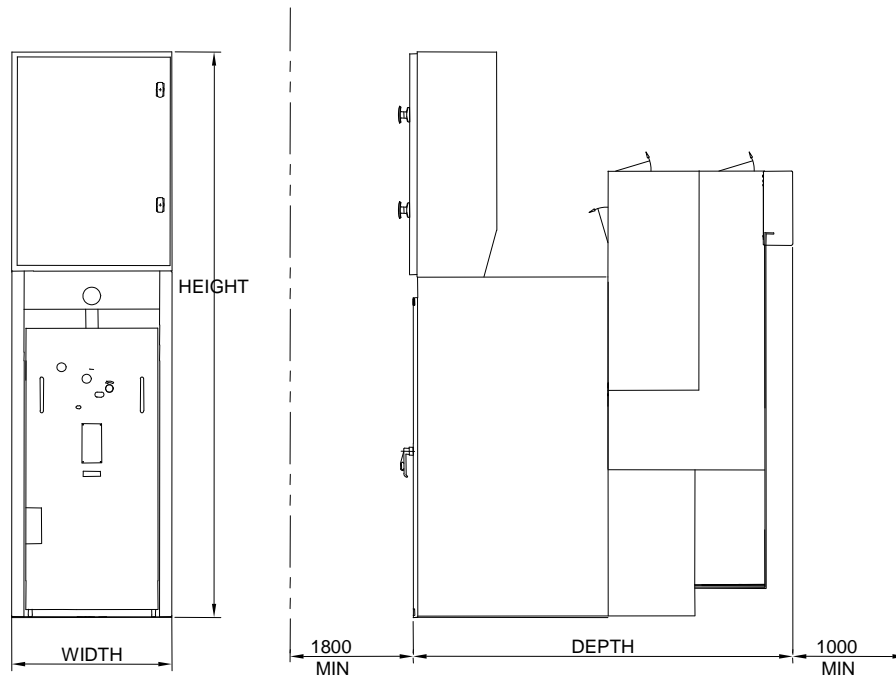
TYPICAL SIDE VIEWS OF AH12 SWITCHGEAR

TECHNICAL DATA

			VCB PANEL	CONTACTOR	STARTER	COMBINATION
1	Rated voltage	Ur [KV]	7.2	7.2	7.2	7.2
2	Power frequency withstand voltage	Ur [KV]	20	20	20	20
3	Impulse withstand voltage	Up [KV]	60	60	60	60
4	Rated frequency	fr [Hz]	50/60	50/60	50/60	50/60
5	Rated operational current	Ie [A]	2000	400	400	400
6	Rated short- time withstand current	Ik [KA]	Up to 40kA	6	6	Up to 40 KA
7	Rated peak withstand current	Ip [KA]	Up to 40kA	15	15	Up to 100 KA
8	Rated duration of short circuit current	Tk [sec]	-	1	1	1
9	Rated short circuit breaking capacity	Isc [KA]	Up to 40kA	6	6	Up to 40 KA
10	Rated short circuit making capacity	Ima [KA]	Up to 40kA	6	6	Up to 40 KA
11	Utilization category	-	-	AC4	AC4	AC4
12	Rated supply of auxiliary And control circuit	Ua [Vac/Vdc]	110V DC	230AC	230AC	230AC
13	Degree of protection	-		AS REQUIRED		
14	Opening time	[msec]	-	100-120	100-120	100-120
15	Closing time [msec]	[msec]	-	150-240	150-240	150-240
16	Highest rating for motor starter	[KW]	[see note-1]			
17	Electrical life	[No. of operation]	-	1000000	1000000	1000000
18	Mechanical life	[No. of operation]	-	1000000	1000000	1000000

**Note-1:- Consult ASC for motor starter rating. It depends upon number of starts per hour and run up time.
Typical value: for 1100 KW motor starter for 12 starts per hour and 6 sec run up time.**

OVERALL DIMENSIONS AND WEIGHT



FLATNESS OF FLOOR = $\pm 2\text{mm/ME}$

UNIT WEIGHT INCLUDING SWITCHING DEVICE = 2000 KG

	TYPICAL FOR 7.2 KV,25 KA, VCB PANEL		TYPICAL FOR 7.2 KV,40 KA, VCB PANEL		VACUUM CONTACTOR PANEL
BUSBAR / FEEDER RATINGS	2000A / UPTO 800 A	2000A /1250A/1600A UPTO 2000A	2000A / UPTO 1250A	2000A / 1600A UPTO 2000A	2000A / 400A
WIDTH (mm)	584	800	TO SUIT RELAYS AND METERS	800	435
HEIGHT(mm)	TO SUIT RELAYS AND METERS	TO SUIT RELAYS AND METERS	1540	TO SUIT RELAYS AND METERS	TO SUIT RELAYS AND METERS
DEPTH (mm)	1540	1540	1540	1540	1540