

DISTRIBUTION SOLUTIONS

AMVAC

Medium Voltage Magnetic Vacuum Circuit Breaker for IEEE Standards



The AMVAC is the next generation of IEEE medium voltage vacuum circuit breaker, utilizing magnetic actuation technology to provide a more reliable and longer lasting solution to the industry. This is made possible by the simplicity of the magnetic actuator design features such as one moving part and built-in safety features and three position electric racking.

Help keep personnel safe

- Safety and protection of personnel and equipment with enclosed mechanism housing and embedded pole technology
- Roll-on-floor (ROF) caster design offers ease of use
- Three position remote motorized racking options available
- Increases safety by reducing personnel time in front of switchgear lineups

Protect your assets

- Built-in truck interlocks for a compact and robust solution
- Pole-embedded vacuum interrupter for enhanced shock, dust, and humidity resistance

Optimize investment

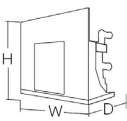
- 5-year warranty
- Lowest maintenance requirements
- Highest quality and short lead times thru automated production process
- 75% lower power consumption accessories for reduced battery bank systems
- Global 24hour Service and support
- Breaker + cassette solutions available for a faster engineering design

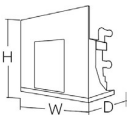
Maximize your output

- High number of operations between breaker servicing
- Actuator with a single moving part for increased reliability
- The integrated racking mechanism (truck) is designed to 180 ftlbs of torque for increased reliability and reduced maintenance costs

AMVAC

Technical characteristic

Circuit breaker	AMVAC 05			AMVAC 08				
Rated insulation voltage	[kV]	4.76			8.25			
Impulse withstand voltage	[kV]	60			95			
Rated frequency	[Hz]	60			60			
Execution		Fixed / ADVANCE / Safegear			Fixed / ADVANCE / Safegear			
Rated normal current (40 °C)	[A]	1200	2000	3000	1200	2000	3000	
Rated breaking capacity and rated short-time withstand current (3s)	[kA]	25	25	25	40	40	40	
		32	32	32				
		40	40	40				
		50	50	50				
Making capacity	[kA]	65	65	65	140	140	140	
		82	82	82				
		104	104	104				
Operation sequence		[O - 0.3 s - CO - 3 min - CO]			[O - 0.3 s - CO - 3 min - CO]			
Interrupting time	[ms]	50-83	50-83	50-83	50-83	50-83	50-83	
Closing time	[ms]	35 ... 60	35 ... 60	35 ... 60	35 ... 60	35 ... 60	35 ... 60	
Overall dimensions (fixed version)		H	18.68 ...	23.68 ...	23.68 ...	23.17 ...	23.68 ...	23.68 ...
		[inches]	25.1	26.4	27	25.1	26.2	27
		W	27.55 ...	27.55 ...	29.53 ...	27.56 ...	29.53 ...	29.53 ...
		[inches]	31	31	31	31	31	31
D	[inches]	15.16 ...	15.16 ...	15.93 ...	15.16 ...	15.93 ...	15.93 ...	
		26	26	26.1	25.9	26	23.1	
Weight	[lb]	410	410	420	410	420	460	

Circuit breaker	AMVAC 15			AMVAC 27			
Rated insulation voltage	[kV]	15			27		
Impulse withstand voltage	[kV]	95			125		
Rated frequency	[Hz]	60			60		
Execution		Fixed / ADVANCE / Safegear / Safegear HD			Fixed / ADVANCE		
Rated normal current (40 °C)	[A]	1200	2000	3000	1200	2000	
Rated breaking capacity and rated short-circuit withstand current (3s)	[kA]	25	25	25	16	16	
		32	32	32	25	25	
		40	40	40	-	-	
		50	50	50	-	-	
Making capacity	[kA]	65	65	65	42	42	
		82	82	82	65	65	
		104	104	104	-	-	
130	130	130	-	-			
Operation sequence		[O - 0.3 s - CO - 3 min - CO]			[O - 0.3 s - CO - 3 min - CO]		
Interrupting time	[ms]	50	50	50	83	83	
Closing time	[ms]	35 ... 60	35 ... 60	35 ... 60	35 ... 60	35 ... 60	
Overall dimensions (fixed version)		H	18.68 ...	23.68 ...	23.68 ...	24.72 ...	25.47 ...
		[inches]	25.1	26.4	27	26.8	27.4
		W	27.55 ...	27.55 ...	29.53 ...	29.53 ...	29.53 ...
		[inches]	31	31	31	31	31
D	[inches]	15.16 ...	15.16 ...	15.93 ...	15.93 ...	15.93 ...	
		26	26	26.1	25.9	26.1	
Weight	[lb]	360 ...	410 ...	430 ...	-	-	
		510	510	510	410	410	

* For more details check the overall dimension

More product information:
abb.com/mediumvoltage
 Your contact center:
abb.com/contactcenters
 More service information:
abb.com/service

Data and illustration are not binding. We reserve the right to make changes in the course of technical development.