

# VD4-AF

Circuit breaker for safe and relentless steel furnace operation and protection



Ensures safety and protection of personnel and assets



Guarantees continuous and reliable operation of critical processes



Reduces maintenance and logistic efforts

ABB offers its new vacuum circuit breaker with servomotor actuation up to 38kV, 2500A, 31.5kA and 150,000 operations to support your business needs in steel manufacturing.

### Maximize your productivity

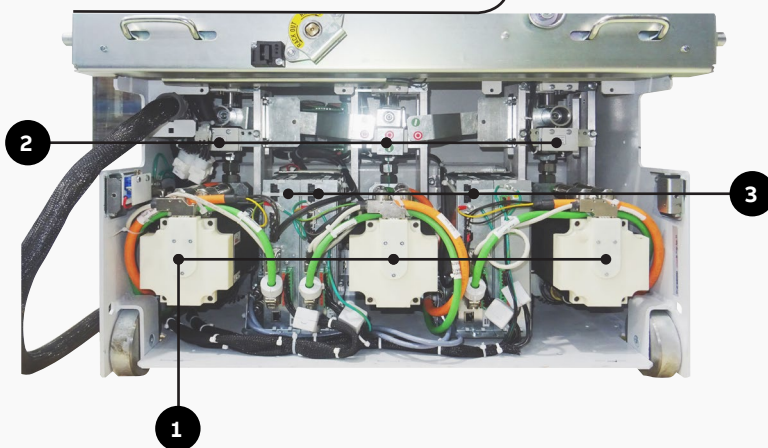
- 150,000 operations without refurbishment
- No downtimes for breaker overhaul
- Fastest replacement with roll on floor drawout solution

### Optimize your investment

- Lowest total cost per operation
- Reduced spare inventories
- Enabled for Service monitoring offer

### Safeguard your personnel and assets

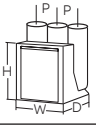
- Embedded advanced diagnostics
- Built-in interlocks
- Prevention of incorrect operations and hazards



1. Servo motor
2. Phase position contact (mechanical and electrical)
3. Phase controller

# Technical Characteristics

Type tested according to IEC 62271-100

<b>VD4-AF</b>				
Rated and Insulation voltage	kV	<b>36</b>	<b>38</b>	
Withstand voltage (1min)	kV	<b>95</b>	<b>95</b>	
Impulse withstand voltage	kVp	<b>185</b>	<b>185</b>	
Rated frequency	Hz	<b>50-60</b>	<b>50-60</b>	
Rated normal current	A	<b>1250-2000-2500</b>	<b>1250-2000-2500</b>	
Rated breaking capacity and rated short-time withstand current (3s)	kA	<b>31.5</b>	<b>31.5</b>	
Making capacity	kAp	<b>82</b>	<b>82</b>	
Mechanical endurance	<b>Close-Open operations</b>	<b>150,000</b>	<b>150,000</b>	
Operating sequence		<b>O-0.3s-CO-15s-CO</b>	<b>O-0.3s-CO-15s-CO</b>	
Opening time	ms	<b>35</b>	<b>35</b>	
Arc time	ms	<b>10 ... 15</b>	<b>10 ... 15</b>	
Total interruption time	ms	<b>45 ... 50</b>	<b>45 ... 50</b>	
Closing time	ms	<b>50</b>	<b>50</b>	
Overall dimensions (withdrawable version)		<b>H mm (inches)</b>	<b>1575 (60)</b>	<b>1575 (60)</b>
		<b>W mm (inches)</b>	<b>945 (32)</b>	<b>945 (32)</b>
		<b>D mm (inches)</b>	<b>750 (29,5)</b>	<b>750 (29,5)</b>
		<b>P mm (inches)</b>	<b>280 (11)</b>	<b>280 (11)</b>
Weight	Fixed	<b>Kg (lbs) (approx.)</b>	<b>230 (507)</b>	<b>230 (507)</b>
	Withdrawable	<b>Kg (lbs) (approx.)</b>	<b>250 (551)</b>	<b>250 (551)</b>

H = Height of the circuit-breaker  
W = Width of the circuit-breaker  
D = Depth of the circuit-breaker  
P = Pole horizontal centre distance

For more information please contact:



More product information:  
[abb.com/mediumvoltage](http://abb.com/mediumvoltage)  
Your contact center:  
[abb.com/contactcenters](http://abb.com/contactcenters)  
More service information:  
[abb.com/service](http://abb.com/service)

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