

VD4-AF1

Quantum leap in relentless, hassle-free protection and switching of transformers



ABB offers its new vacuum circuit breaker with servomotor actuation and controlled switching technology up to 38kV, 2500A, 31.5kA and up to 150,000 operations with extremely low inrush, to support your business needs for diverse installations like steel industries applications



Protect your assets

- Enables increased lifespan of transformers by more than 10% in e.g. 3 years
- Reduction of hazards due to improved protection range
- Up to 5-to-10-times higher endurance performance than the market standard



Maximize your output

- Reduced total cost due to elimination of downtime for breaker overhaul and a lifespan 5 times the market standard, with predictive health indication
- Reduced compensation losses up to 10% while increasing power quality
- Fast and reliable support thanks to ABB's global footprint

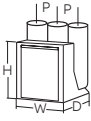


Optimize your investment

- Elimination of inrush limiting reactors and resistances, leading to significant cost and space savings
- Cost saving by as much as 20%, using same ratings, same interfaces of existing MV substation thanks to optimized footprint equivalent to standard distribution breakers

Technical Characteristics

Type tested according to IEC 62271-100

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

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

Technical Characteristics of sensor

Type tested according to IEC 60044-7

Parameters for Application	Value
Rated primary voltage of application	up to 36 kV
Sensor Parameters	Value
Rated primary voltage, U_{pn}/U_{pr}	33 / $\sqrt{3}$ kV
Highest voltage for equipment, U_m	36 kV
Rated power frequency withstand voltage	70 kV
Rated lightning impulse withstand voltage	170 kV
Rated transformation ratio, K_n/K_v for voltage measurement	10 000:1
Voltage accuracy class	0.5/3P
Length of cable	5.5 m

For more information please contact:



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

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