

sdv-r^m NON-ARC-RESISTANT AND SDV-R-AR^m ARC-RESISTANT Medium-voltage distribution **circuit breakers**

38 kV, up to 40 kA, up to 200 kV BIL usa.siemens.com/sdv

The new types SDV-R[™] non-arc-resistant and SDV-R-AR[™] arc-resistant medium-voltage circuit breakers are an extension of the reliable SDV outdoor distribution circuit breaker family.

They have an integral mechanically- interlocked, fast-acting grounding switch that can reduce total project cost, physical footprint, and environmental impact.

Operator safety can be improved with the arc-resistant option tested to IEEE C37.20.7, accessibility type 2B.

Features:

- Optimal solution for renewable energy
 applications
- Fast switching time to ground, which limits transient voltage excursion to low levels, eliminates the need for grounding transformers saving installation and maintenance costs and physical space, and removes the risk of transformer oil spills
- Pair with Sieemns protective relays to match any application
- Time-proven stored-energy operator design tested to IEEE C37.09-2018
- Highly reliable vacuum interrupters with
 MTTF over 55,000 years

- Moderate and high seismic qualification (Zones 1-4) available
- Porcelain dry-type bushings with extended creep
- 10-year warranty (optional)
- UL Listing will be available
 - Installation and commissioning, maintenance agreements, aftermarket parts, and 24/7 emergency services.

SIEMENS

Technical ratings

Unit Voltage class
kV 38.0 38.0 38.0
kA, rms 25 31.5 40
kV 200/258 200/258 200/258
kV 80 80 80
A, rms 1,200, 2000 1,200, 2,000 1,200, 2,000
ms/cycles 50/3 50/3 50/3
age kV 71.7 71.7 71.7
Itage µs 59 59 59
sec 2 2 2
kA peak 65 82 104
ms <45 <45 <45
ms <30 <30 <30
it breaker open to ms 12-16 12-16 12-16
kA 12.5 12.5 12.5
rrent kA 32.5 32.5 32.5
ms <30 <30 <30 <30 it breaker open to ms 12-16 12-16 12-16 kA 12.5 12.5 12.5

Additional ratings for SDV-R-AR:

Accessibility type 2B

Internal arcing shortcircuit current 25, 31.5, or 40 kA

• Arcing duration 0.5 s.

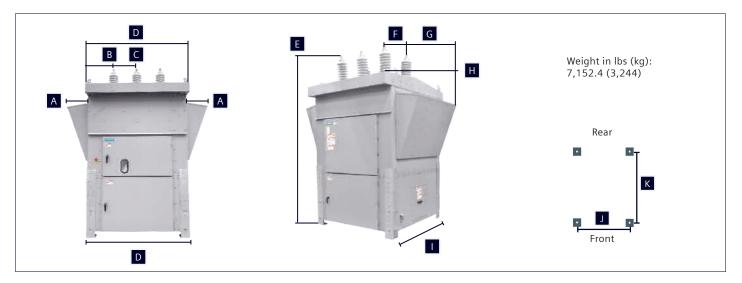
Footnotes:

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- 1. TRV values are in accordance with IEEE C37.04-2018
- First value is full-wave impulse withstand circuit breaker open or closed. Second value is choppedwave impulse withstand, applicable only with circuit breaker closed.

Dimensions in inches (mm)

Rating	Α	В	с	D	E	F	G	н	I	J	к
SDV-R-AR arc resistant	15.6	14.6	19.5	68.2	128.3-149.3	33.1	28.5	82.2	68.5	61.2	61.5
	(395)	(371)	(495)	(1,733)	(3,259-3,792)	(841)	(723)	(2,089)	(1,740)	(1,578)	(1,561)



Legal Manufacturer

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