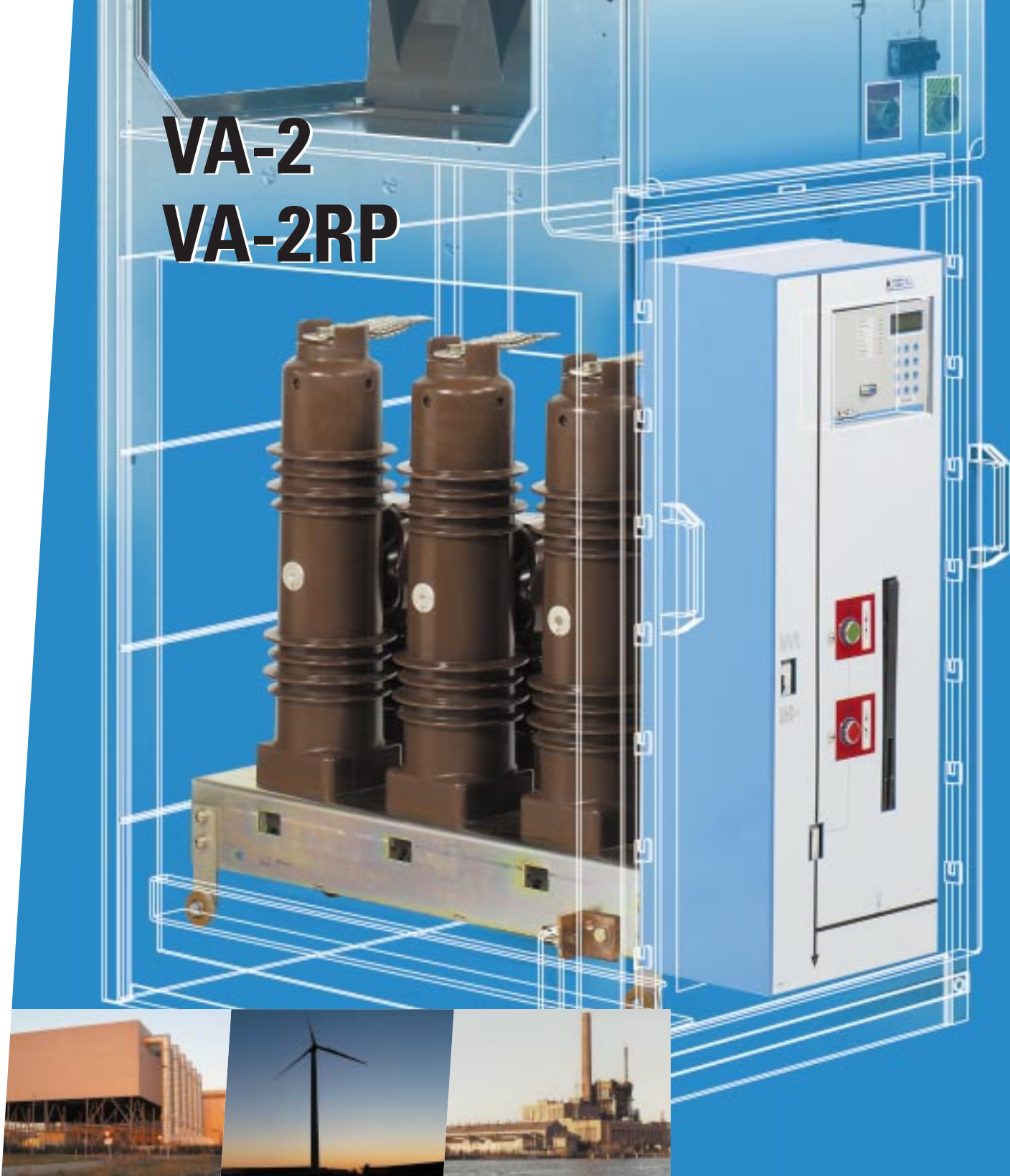


VA-2 VA-2RP



Deba Vacuum Circuit Breakers

The reliable protection of your distribution network

WITH THE DEVELOPMENT OF THE NEW VA-2 VACUUM CIRCUIT BREAKER GENERATION, DEBA IS SHOWING ONCE MORE ITS CAPABILITIES AS A FULL LINE PRODUCER IN THE FIELD OF MEDIUM VOLTAGE DISTRIBUTION SWITCHGEAR.



VA-2 Concept

The Deba vacuum circuit breaker, like all the other components of the product range, is based on the DF-2 modular switchgear concept, synonym of high reliability and safety.

The VA-2 concept offers the security of the "one stop shopping" with a large spectrum of possibilities in the range of 12 to 24 kV.

The Deba vacuum circuit breaker is available in two main versions:

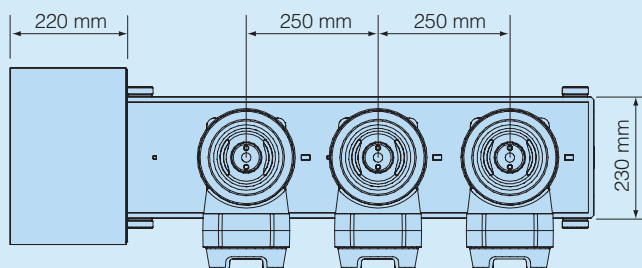
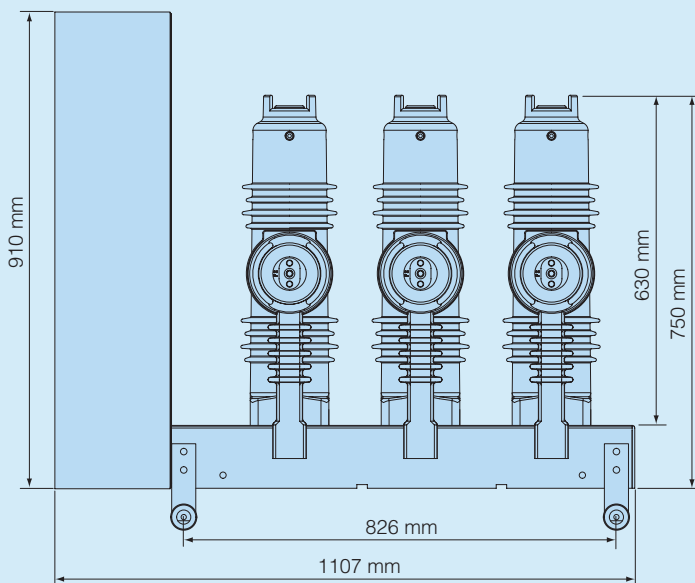
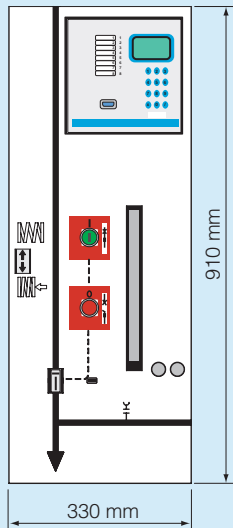
- VA-2 with lateral arrangement;
- VA-2RP with lateral arrangement and integrated digital protection

Key Features

- Complete switching device for distribution switchgear
- Made for integration in the DF-2 range and in the switchgears of other manufacturers
- Available in a great spectrum of possibilities
- Vacuum interrupters of the latest generation
- Great withstand to extreme temperatures
- Long live mechanical spring drive
- Maintenance free



SPECIFICATIONS VA-2 / VA-2RP (12 - 17.5 - 24 kV)	UNIT	400A	630A	800A	1250A
Applicable standards	-				
Rated voltage	kV	12 - 17.5 - 24	12 - 17.5 - 24	12 - 17.5 - 24	12 - 17.5 - 24
Rated power frequency withstand voltage 1 min	kV	28 - 38 - 50	28 - 38 - 50	28 - 38 - 50	28 - 38 - 50
Rated lightning impulse withstand voltage 1.2/50 μ s	kV	75 - 95 - 125	75 - 95 - 125	75 - 95 - 125	75 - 95 - 125
Rated frequency	Hz	50/60	50/60	50/60	50/60
Rated current	A	400	630	800	1250
Rated short time current	kA	12.5 - 20 - 25	12.5 - 20 - 25	12.5 - 20 - 25	12.5 - 20 - 25
Rated duration of the short circuit	s	3	3	3	3
Rated peak withstand current	kA	31.5 - 50 - 63	31.5 - 50 - 63	31.5 - 50 - 63	31.5 - 50 - 63
Short circuit breaking current at $\leq U_n$	kA	12.5 - 20 - 25	12.5 - 20 - 25	12.5 - 20 - 25	12.5 - 20 - 25
DC Component	%	36	36	36	36
Short circuit making current	kA	31.5 - 50 - 63	31.5 - 50 - 63	31.5 - 50 - 63	31.5 - 50 - 63
Rated operating sequence		0-0.3s-CO-15s-CO	0-0.3s-CO-15s-CO	0-0.3s-CO-15s-CO	0-0.3s-CO-15s-CO
Rated single capacitor bank breaking current at U_n en $f_n = 50$ [Hz]	A	400	400	400	400
Over voltage factor		< 2.5	< 2.5	< 2.5	< 2.5
Rated breaking cable charging current	A	25	25	25	25
Over voltage factor	%	< 4	< 4	< 4	< 4
Rated off load transformer breaking current	A	12.5	12.5	12.5	12.5
Over voltage factor		< 4	< 4	< 4	< 4
Rated closing time	ms	50	50	50	50
Rated opening time	ms	42	42	42	42
Rated breaking time	ms	60	60	60	60
Mechanical life time in number of CO operations		30,000	30,000	30,000	30,000
Life time of the vacuum interrupter	years	30	30	30	30
Electrical life time of the vacuum interrupter		10,000	10,000	10,000	10,000
Weight	kg	118	121	121	124



Explanation of the used codification

Ex: VA-2/12-25/12L and
VA-2RP/12-25/12L

- VA-2: Type of the circuit breaker
- RP Protection relay
- 12 Voltage in kV
- 25 Rated short time current 1 sec
- 8 Abbreviation of the nominal current
- L Lateral arrangement

Characteristics of the VA-2

- Epoxy casted housing with protected ventilation openings, developed to be used in the more severe climatic conditions (IEC 60932 method A – Level 2)
- State of the art vacuum interrupters
- Spring drive mechanism
- Developed and manufactured in line with the ISO9001 standards
- IEC Type tested at KEMA, according the latest IEC 62271-100

Characteristics of the VA-2RP

- Replace a MV circuit breaker with a direct relay protection
- Multiple function digital protection with a large spectrum of functionalities
- Without auxiliary source. Energy is provided by the CT's that can be mounted on the left or on the right side of the circuit breaker.
- Opening release mechanically winded up at the end of the opening cycle of the circuit breaker



AVAILABLE RANGE

Type	Rated Voltage (kV)	Rated Current (A)	Breaking capacity (kA)
VA-2 12-25/8L	12	800	25
VA-2 12-25/12L	12	1250	25
VA-2 17.5-25/8L	17.5	800	25
VA-2 17.5-25/12L	17.5	1250	25
VA-2 24-20/8L	24	800	20
VA-2 24-20/12L	24	1250	20
VA-2RP 12-25/8L	12	800	25
VA-2RP 12-25/12L	12	1250	25
VA-2RP 17.5-25/8L	17.5	800	25
VA-2RP 17.5-25/12L	17.5	1250	25



DEBA, the name of permanent safety in medium voltage
Deba supplies since more than 20 years reliable products for the distribution of electricity. Innovative thinking and environment sensibility are at Deba the most important drive. The use of a minimum of components is targeting in the development of efficient complete solutions having all an exceptional life expectancy.

The Deba organisation stays for high valuable quality and customer orientated strategy, whereby the customer specificities and his targets are our main concerns.

With the use of an exclusive machine park and production lines with a high automation degree, we are developing "state of the art" components and systems of which the DF-2, RV 44, VA-2 and RP600 are answering the highest quality standards.

We are making true what we are promising in the field of delivery times, prices and products.

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