

HD4

Gas insulated medium voltage circuit-breaker for primary distribution

- Very compact dimensions
- Fixed and withdrawable versions
- Mechanical safety locks to prevent incorrect operations
- Soft quenching without chopping currents
- Fast recovery of the quenching media dielectric properties. Quenching technique free of re-strike and re-ignition
- Poles sealed for life
- Stored energy operating mechanism with standard anti-pumping device
- Reduced and easy maintenance
- SF6 pressure control set (on request)
- Rated voltage withstanding at zero SF6 relative pressure (*)



(*) Up to 17.5 kV.

Technical characteristics

Circuit-breaker		HD4 12	HD4 17	HD4 24	HD4 36
Rated voltage / Rated insul. voltage	[kV]	12	17,5	24	36
Withstand voltage at 50 Hz	[kV]	28	38	50	70
Impulse withstand voltage	[kV]	75	95	125	170
Rated frequency	[Hz]	50-60			
Rated normal current (40 °C)	[A]	630...4000 (*)		630...3600	630...2500
Rated breaking capacity / Rated short-time current (3 s)	[kA]	16 - 50	16...50	16...40	16...31.5
Making capacity	[kA]	40...125		40...100	40...80
Operation sequence		O-0.3s-CO-15s-CO			O-0.3s-CO-15s-CO (‡)
Opening time	[ms]	35...60			35...50
Arcing time	[ms]	10...15			10-15
Total breaking time	[ms]	45...75			45...65
Closing time	[ms]	≤ 85			
Phase distance	[mm]	150-210-275	210-275		275-350
Weight	Fixed	114...165		119...165	124...190
	Withdrawable	120...230		125...220	280...300
SF6 gas pressure	[kPa]	380 (‡)		380 (*)	380 (‡)
Technical catalogue	No.	1VCP000004			

(1) Forced ventilation in the back of the panel

(2) O-0.3s-CO-3min-CO for 630A, 1250A, and 1600A at 20kA

(3) 430 kPa at 31,5 kA

(4) 480 kPa at 40 kA

(5) 450 kPa for ≥ 2000 A and/or ≥ 25 kA

Main components



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