

## CHV800 Series HVDC Contactor 800A / 1000VDC



- HVDC 1000A carry current (600s)
- Max. switching current = 3000A / 800VDC
- · Contacts sealed in inert gas
- Magnet arc blowout
- Non-polarized power terminals
- Ceramic arc chamber
- Dual coil economiser as standard

			UK CE CEROSES		
Contacts			Ordering Code		
Contact arrangement		SPST-NO-DM			
Contact material		Oxygen Free Copper	C H V 8 0		
Max. switching voltage	AC/DC	1000VDC			
Rated load (resistive, co		800A 1000VDC (break only above 350A)	Series		
Max. continuous thermal		1000A (with 300mm² conductors)			
t 23°C ambient tempera	ature	3000A (with 300mm² conductors)	Power terminal options		
		8000A (with 300mm² conductors)	0: Female, with busbars (std.)		
		3000A / 800VDC	1: Male, no busbars *		
		160mV @ 800A	2: Female, no busbars *		
oil					
		12VDC, 24VDC (with dual coil economiser)	Coil voltage (see Table 1)		
Rated power consumption hold		<9W	1: 12VDC		
nsulation			2: 24VDC		
nsulation resistance	initial	≥ 1000MΩ (Min.) (1500VDC, 1 minute)			
Dielectric strength	coil to contact	3000Vrms / ≤1mA / 1 min (at sea level)	* Consult factory		
	between main contacts	4000Vrms / ≤1mA / 1 min (at sea level)			
General Data					
Operate time at 20°C	max.	50ms			
Release time at 20°C	max.	30ms			
Sounce time at 20°C	max.	10ms			
Electrical life	300A 750VDC	≥ 6000 ops.			
On: 1s / Off: 9s)	600A 750VDC	≥ 600 ops.			
	600A 1000VDC	≥ 150 ops			
lectrical life	ops.	Voltage and current dependent - see also fig. 1			
Mechanical life	ops.	≥ 2 x 10 <sup>5</sup>			
invironmental					
Ambient temperature	operating	-40 to +85°C			
Relative humidity		5 to 85% RH (No icing, no condensation)			
ltitude		≤4000m (derate by 0.83 between 3000 & 4000m)			
<u></u>		>50G, 590m/s <sup>2</sup>			
		On: >20G, 196m/s², 11ms ½ sine			
		Off: >10G, 98m/s², 11ms ½ sine			
/ibration resistance	sine wave	>5G, 49m/s², 10Hz ~ 500Hz (malfunction <10µs)			
Dimensions L x W x H		145.2 x 66.6 x 132.8mm (max.)			
Veight	approx.	1800g			

Specifications are subject to change without notice. E&OE.



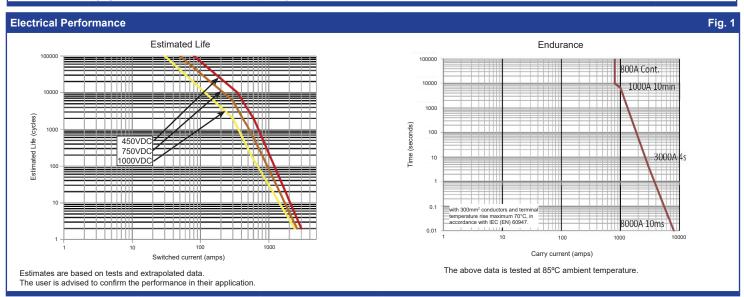
## CHV800 Series

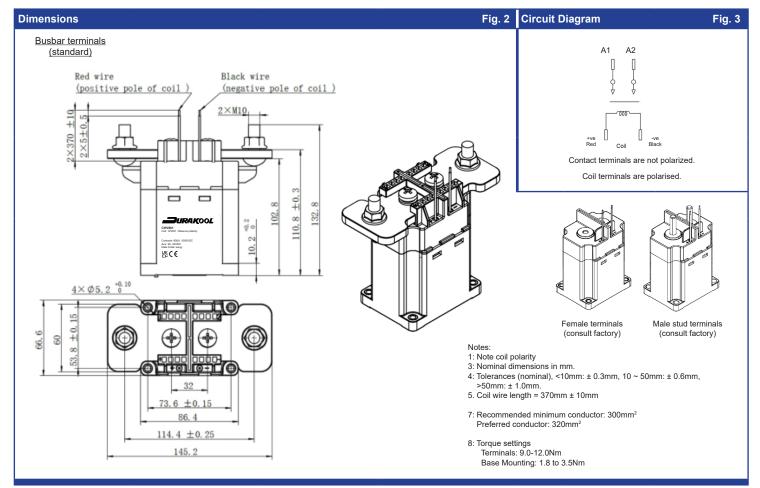
**HVDC Contactor 800A / 1000VDC** 

Coil Data									
Order code	Nominal voltage (VDC)	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)	Must hold voltage max.* (VDC)	Must release voltage min. (VDC)	Inrush Current ±10% (A)	Hold Current ± 10%(A)	Rated Coil Power	
CHV801 CHV811 CHV821	12	9	16	7.8	1.0	4.2	0.75	9W (Hold)	
CHV802 CHV812 CHV822	24	18	32	15.6	2.0	2.1	0.375	50W, 0.2s (Operate)	

Twin coil economiser standard. No additional coil back emf suppresion required. Other coils available upon special request.

\* Max. Non-release voltage @ 85°C and max. continuous current load, pre-energized at 1.1Un





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