



- HVDC 1000A carry current (90s)
- Max. switching current = 2500A / 800VDC
- Contacts sealed in inert gas
- Magnet arc blowout
- Non-polarized power terminals
- Ceramic arc chamber
- Dual coil economiser as standard
- Auxiliary contact as standard

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Contacts				Ordering Code	Ordering Code	Ordering Code
Contact arrangement		SPST-NO-DM	1			
Contact material		Oxygen Free Copper		(	СНV-6	CHV-601
Max. switching voltage	AC/DC	1500VDC		-		————————— —
Rated load (resistive, cos φ=1)	DC1	600A 1500VDC (break only above 350A)		Series	Series	Series
Max. continuous thermal current	360s	800A (with 320mm <sup>2</sup> conductors)				
at 23°C ambient temperature	90s	1000A (with 320mm <sup>2</sup> conductors)		Power Terminal	Power Terminal Options	Power Terminal Options
	5ms	8000A (with 320mm <sup>2</sup> conductors)		0: Female M6 (s	0: Female M6 (standard)	0: Female M6 (standard)
Max switching current (1 time only)	V DC	800V 2500A /1000V: 2000A / 1500V: 1000A		1: Male M8 stud	1: Male M8 stud*	1: Male M8 stud*
Initial contact volt drop	max.	0.3mΩ @ 20A / 6VDC				
Auxiliary contact	arrangement	SPST-NO (1 Form A) (SPST-NC by request)		Coil voltage	Coil voltage	Coil voltage
	max. current	2A @ 24VDC / 3A @ 125VAC		1: 12VDC	1: 12VDC	1: 12VDC
	min. current	100mA @ 8VDC		2: 24VDC	2: 24VDC	2: 24VDC
Coil						
Nominal voltage (see page 2)	DC	12VDC, 24VDC (with dual coil economiser)	l			
Rated power consumption	hold	<5W				
Insulation						
nsulation resistance	initial	≥ 1000MΩ (Min.) (1000VDC, 1 minute)	I			
Dielectric strength	coil to contact	4000Vrms / ≤1mA / 1 min (at sea level)				
between main contacts, main & aux contacts		4000Vrms / ≤1mA / 1 min (at sea level)				
between open auxiliary contacts		750Vrms / ≤1mA / 1 min (at sea level)				
General Data						
Operate time at 23°C	max.	50ms (+ 5ms bounce time)	1			
Release time at 23°C	max.	30ms	1			
Electrical life	ops.	Voltage and current dependent - see fig. 1				
Mechanical life	ops.	>2 x 10 <sup>5</sup>	1			
Capacitive make	(RC=1ms)	10,000 cycles, 500A peak at 50V	1			
Environmental						
Ambient temperature	operating	-40 to +85°C	1			
Relative humidity		5 to 85% RH	1			
Altitude		≤4000m (derate by 0.83 between 3000 & 4000m)	1			
Shock resistance	impact	>50G, 490m/s <sup>2</sup> 6ms ½ sine	1			
_	stabilty	>20G, 11ms ½ sine (malfunction <10µs)	1			
Vibration resistance	sine wave	>5G, 49m/s², 10Hz ~ 500Hz (malfunction <10µs)	1			
Dimensions	L x W x H	104 x 70 x 108.1mm (max.)		* Not UL approved	* Not UL approved	* Not UL approved
Weight	approx.	1100g	1			
V/600 072723 IHM				Specifications	Specifications are subject to	Specifications are subject to change wi

## DURAKOOL

## **CHV600 Series** HVDC Contactor 600A / 1500VDC

Coil Data Table 1												
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				
CHV-601	12	9	16	7.8	1.2	4.2	0.42	5W (Hold)				
CHV-602	24	18	32	15.6	2.4	2.1	0.21	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

## **Electrical Performance**





CHV600 072723.IHM