

## CHV400 Series HVDC Contactor 400A / 1500VDC



- HVDC 900A carry current (120s)
- Max. switching current = 2500A / 800VDC
- · Contacts sealed in inert gas
- Magnet arc blowout
- Non-polarised power terminals
- Ceramic arc chamber
- Dual coil economiser as standard
- Auxiliary contact as standard

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				TR C C	UK CE CA
Contacts				Ordering Code	Loui
Contact arrangement		SPST-NO-DM			
Contact material		Oxygen Free Copper		С	C H V
Max. switching voltage	AC/DC	1500VDC	I	_	
Rated load (resistive, cos φ=1)	DC1	400A 1500VDC (break only above 350A)	I	Series ———	Series
Max. continuous thermal current at 23°C ambient temperature	120s	750A (with 185mm² conductors)	ı		
	60s	900A (with 185mm² conductors)	۱	Power Terminal Op	Power Terminal Options
_	5ms	8000A (with 185mm² conductors)		0: Female M6 (Star	0: Female M6 (Standard)
Max switching current (1 time only)	V DC	800V: 2500A / 1000V: 2000A / 1500V: 1000A	ı	1: Male M8 stud*	1: Male M8 stud*
Initial contact volt drop	max.	0.3mΩ @ 20A / 6VDC	۱		
Auxiliary contact	arrangement	SPST-NO (1 Form A) (SPST-NC by request)	۱	Coil voltage	Coil voltage
_	max. current	2A @ 24VDC / 3A @ 125VAC	ı	1: 12VDC	1: 12VDC
_		100mA @ 8VDC		2: 24VDC	2: 24VDC
Coil			1		
Nominal voltage (see page 2)	DC	12VDC, 24VDC (with dual coil economiser)	ı		
Rated power consumption		<5W			
Insulation					
Insulation resistance	initial	≥ 1000MΩ (Min.) (1000VDC, 1 minute)	١		
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 au	ixiliary contacts	750Vrms / ≤1mA / 1 min (at sea level)			
General Data					
Operate time at 23°C	max.	50ms (+ 5ms bounce time)	ı		
Release time at 23°C	max.	30ms			
Electrical life	ops.	Voltage and current dependent - see fig. 1			
Mechanical life	ops.	>2 x 10 <sup>5</sup>			
Capacitive make	(RC=1ms)	10,000 cycles, 500A peak at 50V			
Environmental					
Ambient temperature	operating	-40 to +85°C			
Relative humidity		5 to 85% RH			
Altitude		≤4000m (derate by 0.83 between 3000 & 4000m)	ı		
Shock resistance	impact	>50G, 490m/s² 6ms ½ sine			
_	stabilty	>20G, 11ms ½ sine (malfunction <10μs)			
Vibration resistance		>5G, 49m/s², 10Hz ~ 500Hz (malfunction <10µs)			
Dimensions		104 x 70 x 108.1mm (max.)		* Not UL approved	* Not UL approved
		1100g	ı		- 11

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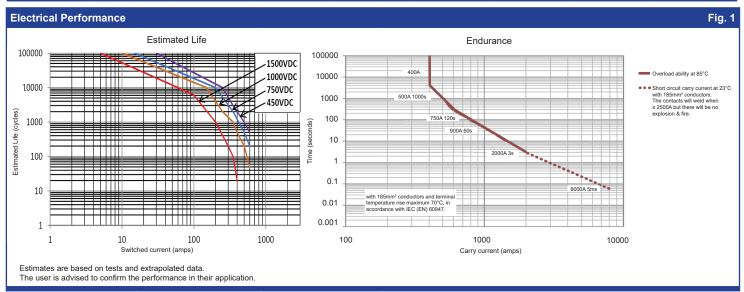
## **CHV400 Series**

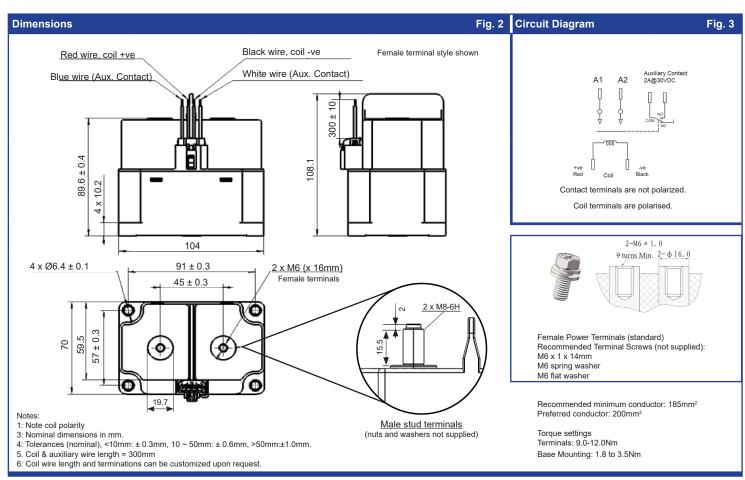
**HVDC Contactor 400A / 1500VDC** 

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		
CHV401 CHV411	12	9	16	7.8	1.2	4.2	0.42	5W (Hold)		
CHV402 CHV412	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

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





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