



- HVDC 300A carry current
- Max. switching current = 2000A
- Contacts sealed in inert gas
- Magnet arc blowout
- Non-polarised power terminals
- Ceramic arc chamber
- Female M6 power terminals

Contact arrangement	SPST-NO-DM	
Contact material	Oxygen Free Copper	
Max. switching voltage	AC/DC	1000VDC
Rated load (resistive, $\cos \varphi=1$)	DC1	300A 750VDC
Max. continuous thermal current at 23°C ambient temperature	60mins	450A (with 100mm ² conductors)
	20mins	600A (with 100mm ² conductors)
	30s	900A (with 100mm ² conductors)
	0.6s	1000A
Max switching current	1 time only	2000A 750VDC (break only)
Initial contact volt drop	max.	≤ 150mV @ 300A

Nominal voltage (see page 2)	DC	12VDC, 24VDC
Rated power consumption	6.5W	

Insulation resistance	initial	≥ 1000MΩ (Min.) (1000VDC, 1 minute)
Dielectric strength	coil to contact	4000Vrms / 10mA / 1 min (at sea level)
	contact to contact	3000Vrms / 10mA / 1 min (at sea level)

Operate time at 20°C	max.	≤ 30ms (excluding bounce time)
Bounce time	max.	≤ 5ms
Release time	max.	≤ 10ms
Electrical life	ops.	Voltage and current dependent - see fig. 1
	300A / 450VDC	≥ 1000 operations
	300A / 750VDC	≥ 500 operations
Mechanical life	ops.	>2 x 10 ⁵

Ambient temperature	operating	-40 to +85°C
Relative humidity	5 to 85%RH	
Shock resistance	impact	>50G, 490m/s ² 6ms 1/2 sine
	stability (malfunction <10μs)	On: 196m/s ² (20G)
		Off: 147m/s ² (10G)
Vibration resistance	>5G, 49m/s ² , 10Hz ~ 500Hz	
Dimensions	L x W x H	84.5 x 42.5 x 73.5mm (max.)
Weight	approx.	500g

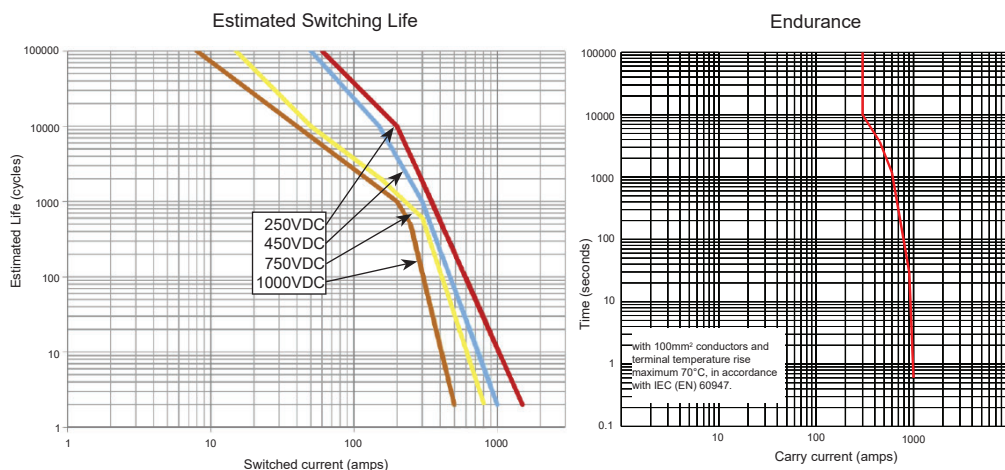
C H V 3 0 1 12VDC Coil - see Table 1

C H V 3 0 2 24VDC Coil - see Table 1

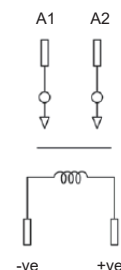
Order code	Nominal voltage (VDC)	Must operate voltage max. (VDC)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Nominal Current $\pm 10\%$ (A)	Rated Coil Power
CHV301	12	9	16	1	0.5	6.5W
CHV302	24	18	32	2	0.25	

For coil back EMF suppression, please use a varistor with a voltage rating 1.5x to 2x the rated coil voltage. Diode is not recommended.

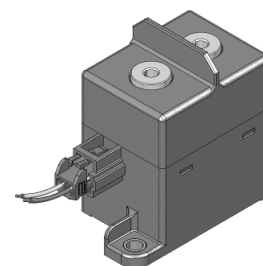
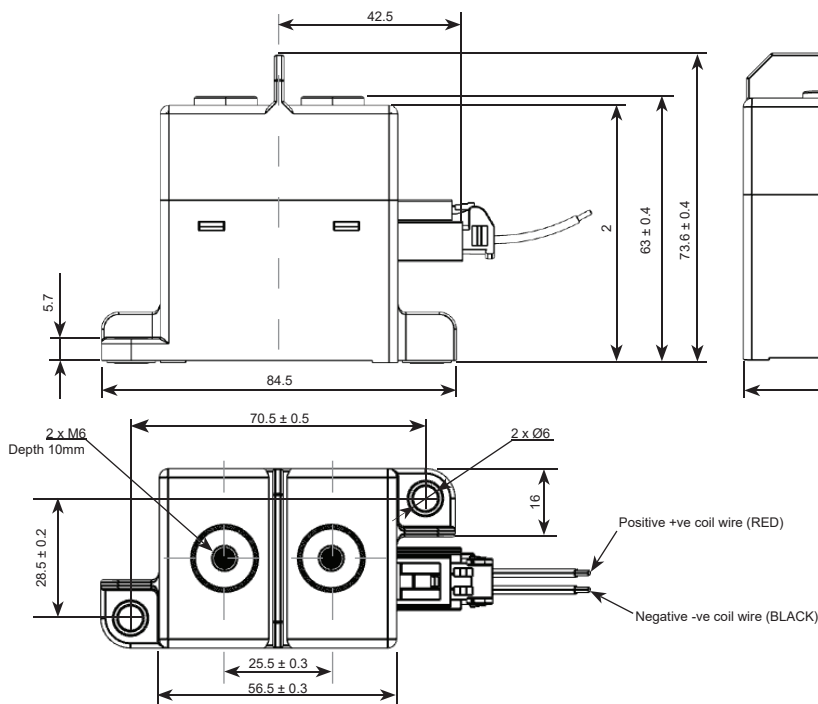
Other coils available upon special request.



Estimates are based on tests and extrapolated data.
The user is advised to confirm the performance in their application.



Contact terminals are not polarised.
Coil terminals are polarised.



Female Power Terminals
Recommended Terminal Screws (not supplied):
M6 x 1 x 10
M6 spring washer
M6 flat washer

Minimum Conductor: $\geq 100\text{mm}^2$.

Torque settings
Terminals: 6 ~ 8Nm
Base Mounting: 3 ~ 4Nm

Notes:
1: Note coil polarity
2: Nominal dimensions in mm.
3: Tolerances (nominal), <10mm: $\pm 0.3\text{mm}$, 10 ~ 50mm: $\pm 0.6\text{mm}$, >50mm: $\pm 1.0\text{mm}$.
4: Coil wire length = 400mm
5: Coil wire length and terminations can be customized upon request.