



- HVDC 55A at 450VDC
- PCB mounting
- Max. switching current = 500A
- Contacts sealed in inert gas
- Magnet arc blowout
- Pre-charge relay

Contacts			Ordering Code			
Contact arrangement		SPST-NO-DM				
Contact material		T2+Ag	DEVR05-5061-S8-1012-PC			
Max. switching voltage	AC/DC	900VDC				
Rated load (resistive, cos φ=1)	DC1	55A 450VDC	Series Coil code:			
Max. continuous thermal current	30s	150A	See table 1			
	10s	250A	Contact material			
Max switching current	1 time only	500A 350VDC	50: T2+Ag			
Initial contact resistance	max.	1mΩ (at 1A)				
Coil			Contact arrangement			
Nominal voltage (see page 2)	DC	672VDC	61: SPST-NO			
Rated power consumption	approx.	3.2W @ 12VDC	81: SPST-NO (no polarity)			
Insulation						
Insulation resistance	initial	100MΩ (min.)	Body style			
	life end	50MΩ (min.)	S8: PCB with M4 Female power terminals			
Dielectric strength	coil to contact	2500Vrms / 1mA / 1 min (at sea level)				
C	ontact to contact	2500Vrms / 1mA / 1 min (at sea level)	Mounting & terminations			
General Data			PCB: PCB mounting, coil & power contacts			
Operate time at 20°C	max.	25ms				
Bounce time at 20°C	max.	7ms				
Release time at 20°C	max.	12ms				
Electrical life	ops.	Voltage and current dependent - see fig. 1				
Mechanical life	ops.	1 x 10 ⁶				
Environmental						
Environmental sealing		Contacts & coil inside a hermetically sealed can				
Ambient temperature	operating	-40 to +85°C				
Relative humidity		5 to 85%RH				
Shock resistance		20G peak, 11ms ½ sine				
Vibration resistance		20G sine peak (80 to 2000Hz)				
Dimensions	L x W x H	49.5 x 51 x 37.7mm approx. (above PCB)				
Weight	approx.	150g±5g				

(1)

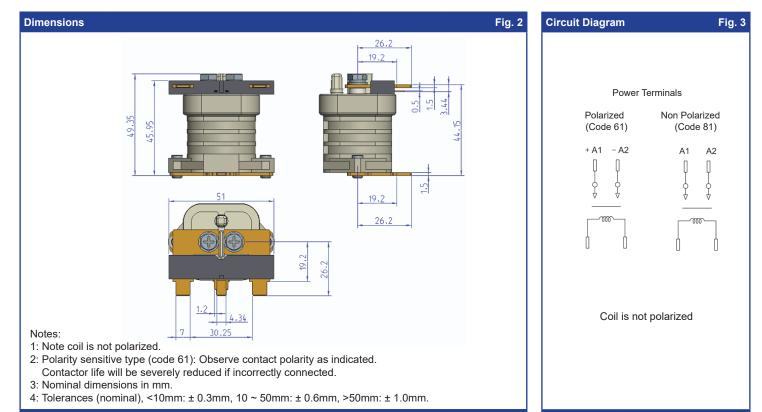
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DEVR05 PCB Series HVDC Contactor 55A / 900VDC

vil Data Table										
Coil code	Nominal voltage (VDC)	Must operate voltage max. (VDC at 20°C)	Maximum allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance Ω ±5% (at 20°C)	Coil Current (mA)	Coil Power (W at 20°C)			
1006	6	4.8	7.2	0.6	11	545.5	3.3			
1012	12	9.6	14.4	1.2	45	266.7	3.2			
1024	24	19.2	28.8	2.4	167	143.7	3.45			
1028	28	22.4	33.6	2.8	240	116.7	3.3			
1036	36	28.8	43.2	3.6	400	90.0	3.2			
1048	48	38.4	57.6	4.8	630	76.2	3.66			
1072	72	57.6	86.4	7.2	1600	45.0	3.2			

Electrical Performance

Estimated Life - polarized contacts Estimated Life - non polarized contacts DEVR05 900Vdc 750Vdc 600Vdc 450Vdc 250Vdc 900Vdc 750Vdc 600Vdc 450Vdc 250Vdc 100,000 100,000 100,000 10,000 10,000 10,000 Estimated Life (cycles) Estimated Life (cycles) 1000 1000 Time (seconds) 1,000 100 100 100 10 10 10 2 20 30 50 20 30 50 100 10 100 30 50 100 200 10 10 Current (amps) Current (amps) Carry current (amps) Extrapolated from actual test data



DEVR05 PCB 012524JHM

Specifications are subject to change without notice. E&OE

Fig. 1