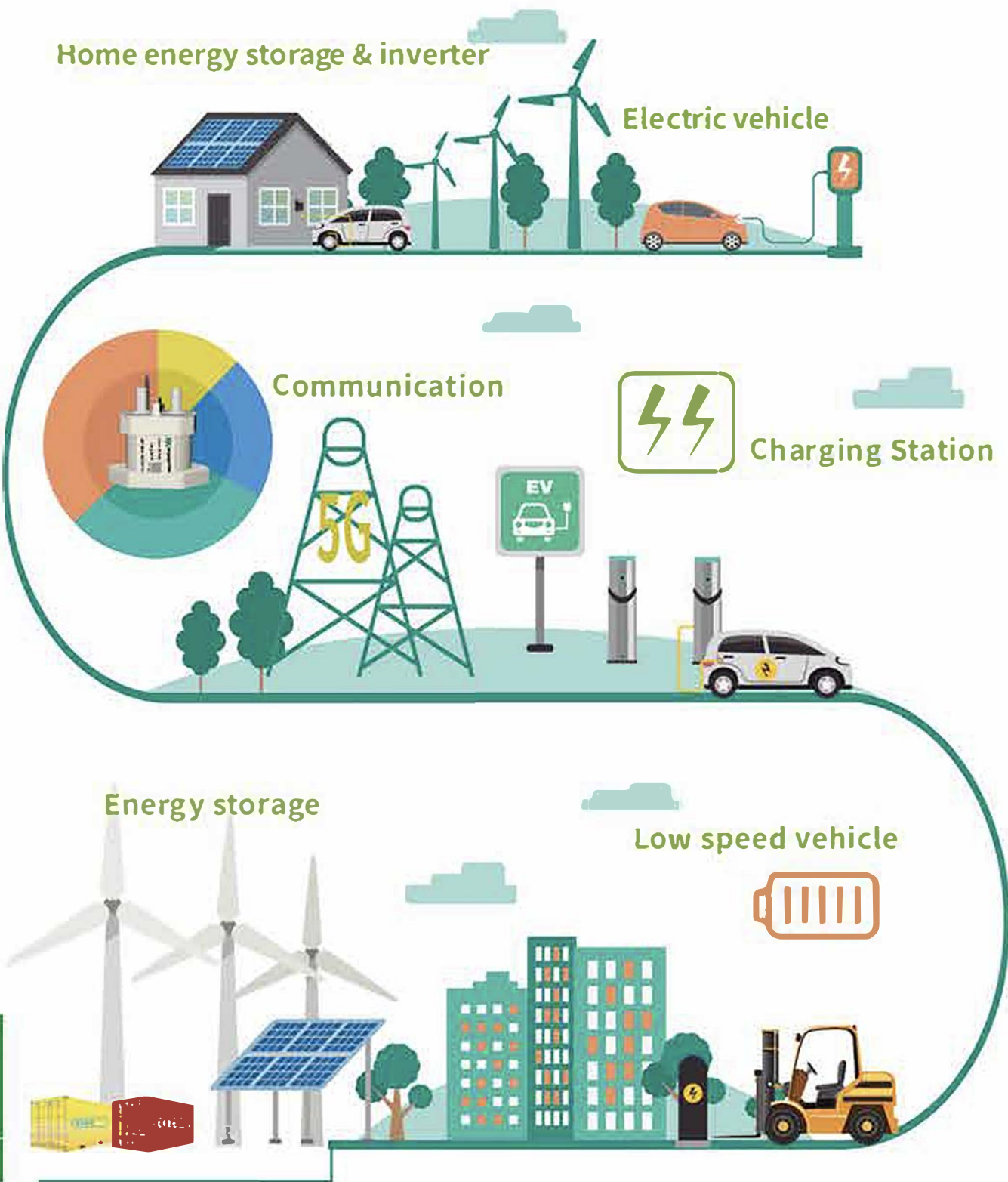


Application Area



DC contactor selected guides



Voltage Rating		Ue: DC200V	Ue: DC1000V	Ue: DC1500V
Current Rating	50A Case	10-50A	10-50A	10-50A
	100A Case	50-150A	50-150A	50-150A
	300A Case	200-600A	150-500A	150-400A
	600A Case	800-1000A	400-1000A	400-1000A
Application Area		Industrial vehicles Low speed vehicle Household energy storage Telecom Power System	Charging piles electric automobiles Electric trucks Energy storage system	Energy storage system Heavy-duty trucks
illustration				

DC HIGH VOLTAGE EV RELAY

EVD10



EVD10

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		--			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-10A			
Current Endurance		10A Cont. ; 50A 10min. ; 100A 180sec. ; 200A 50sec.			
Break Current, Max (only 1 time)		150A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 10A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		Aftertest: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80- 2000Hz,Sinewave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 115g			
Certification		UL、CE、CCC			

COIL DATA

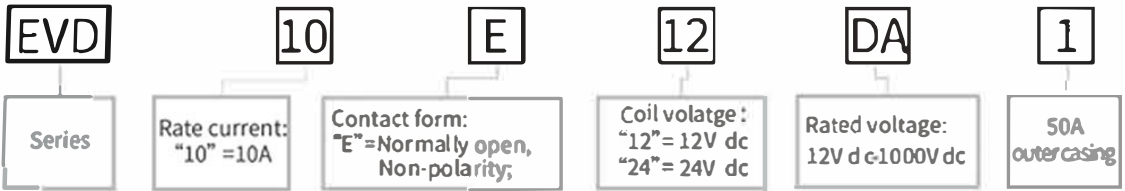
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	≤9Vdc	≥1Vdc	40Ω×(1±7%)	approx. 3.6W	non-polarized
	24Vdc	≤18Vdc	≥2Vdc	152Ω×(1±7%)	approx. 3.8W	non-polarized

DC HIGH VOLTAGE EV RELAY

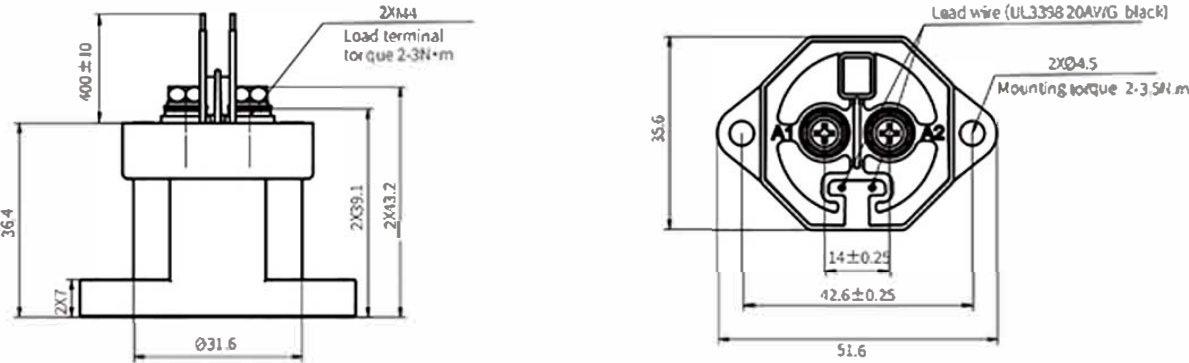
EVD10



PART CODE

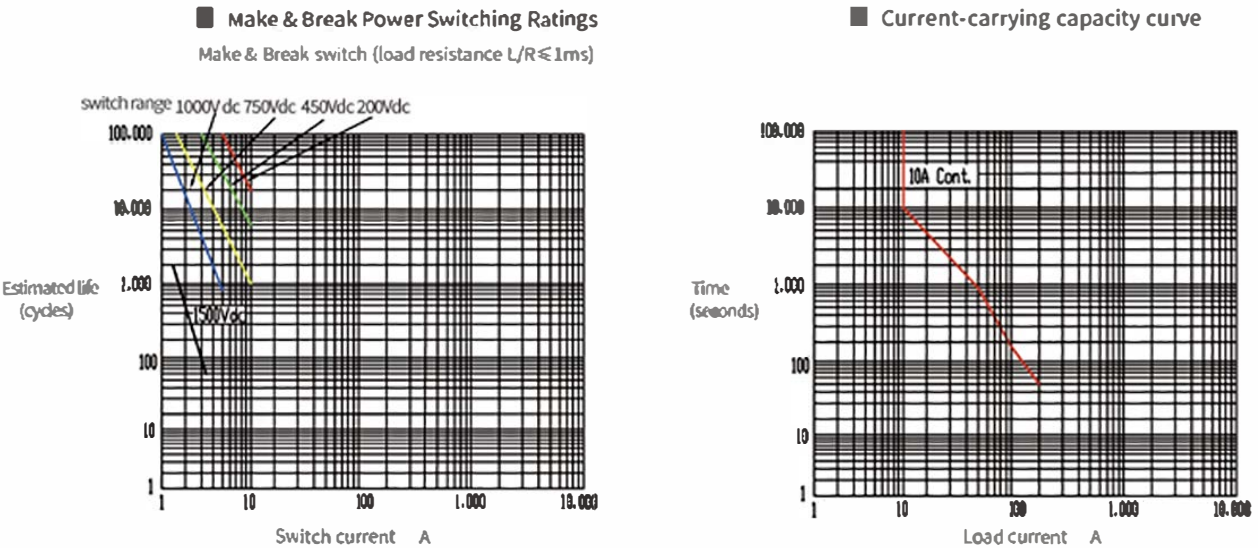


DIMENSIONS



Note: 1.fastener:2xM4x8mm; 2.Mounting hardware M 4, torque 2-3.5N·m;
3.Main contact hardware M 4, torque 2-3N·m; 4.Main contact to copper area≥2mm²;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD20



EVD20

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		--			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-20A			
Current Endurance		20A Cont. ; 50A 10min. ; 100A 180sec. ; 200A 50sec.			
Break Current, Max (only 1 time)		200A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 20A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 115g			
Certification		UL、CE、CCC			

COIL DATA

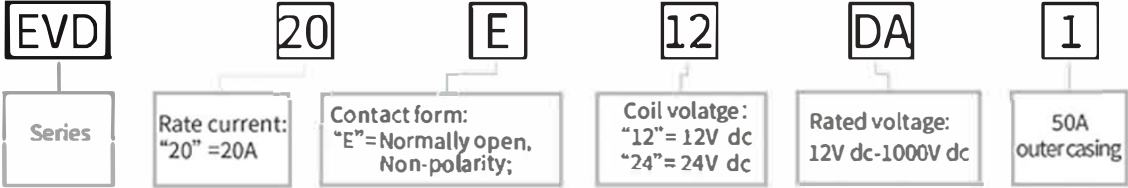
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	≤9Vdc	≥1Vdc	40Ω×(1±7%)	approx. 3.6W	non-polarized
	24Vdc	≤18Vdc	≥2Vdc	152Ω×(1±7%)	approx. 3.8W	non-polarized

DC HIGH VOLTAGE EV RELAY

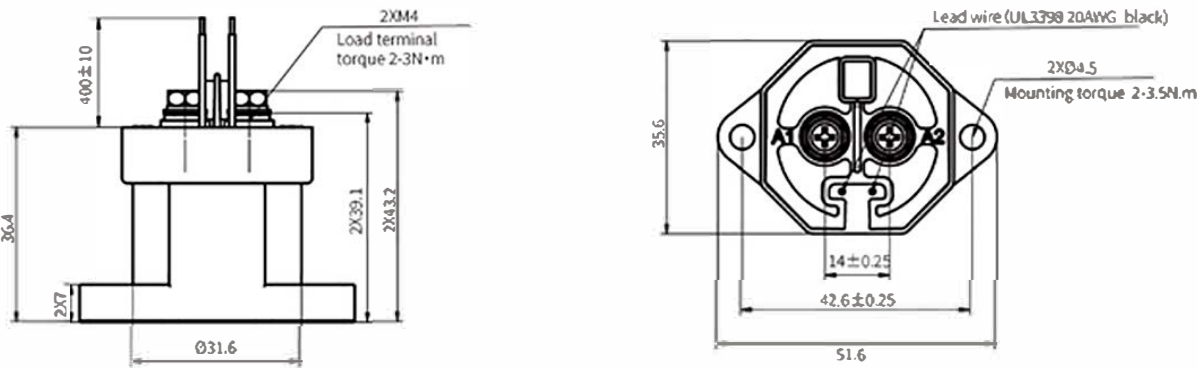
EVD20



PART CODE

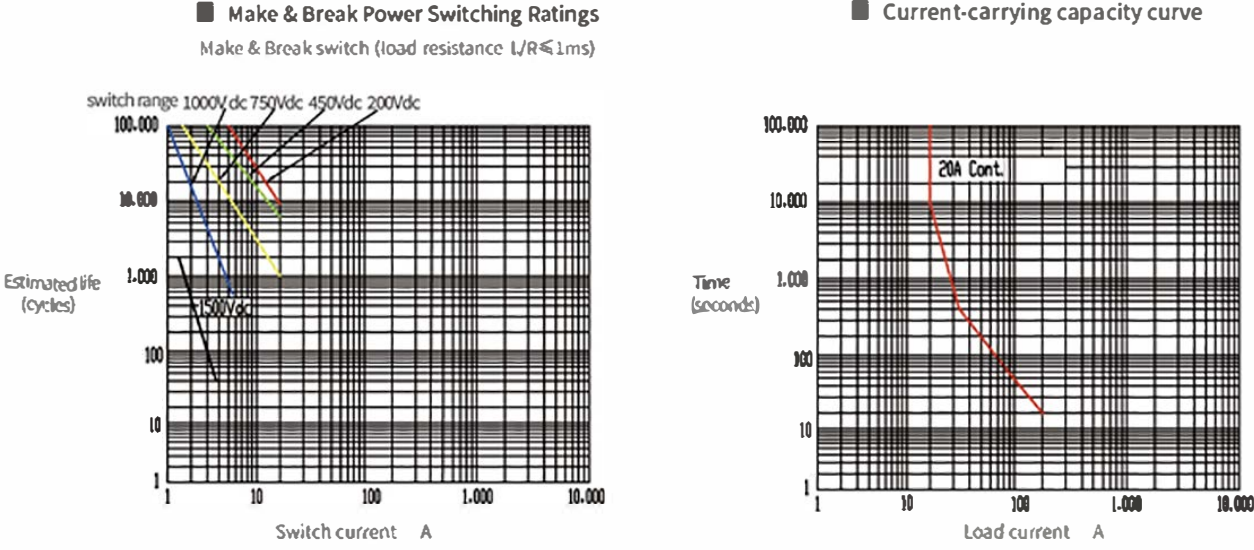


DIMENSIONS



Note: 1.fastener:2xM4x8mm; 2.Mounting hardware M 4, torque 2-3.5N·m;
3.Main contact hardware M 4, torque 2-3N·m; 4.Main contact to copper area≥4mm²;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD30



EVD30

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		--			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-30A			
Current Endurance		30A Cont. ; 100A 10min. ; 150A 180sec. ; 200A 50sec.			
Break Current, Max (only 1 time)		300A 320Vdc			
Contact Resistance (Initial)		≦1mΩ (at 30A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ 次			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Maincontact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≦4000m			
Weight		approx. 115g			
Certification		UL、CE、CCC			

COIL DATA

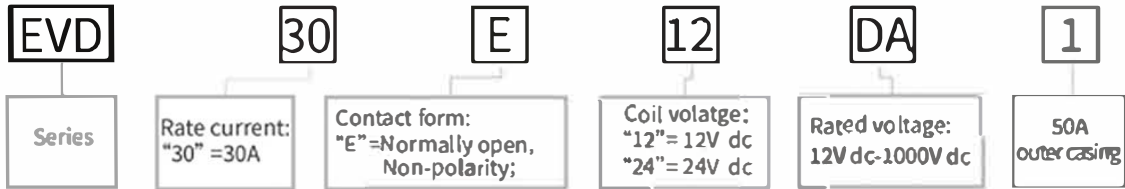
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	≤9Vdc	≥1Vdc	40Ω × (1±7%)	approx. 3.6W	non-polarized
	24Vdc	≤18Vdc	≥2Vdc	152Ω × (1±7%)	approx. 3.8W	non-polarized

DC HIGH VOLTAGE EV RELAY

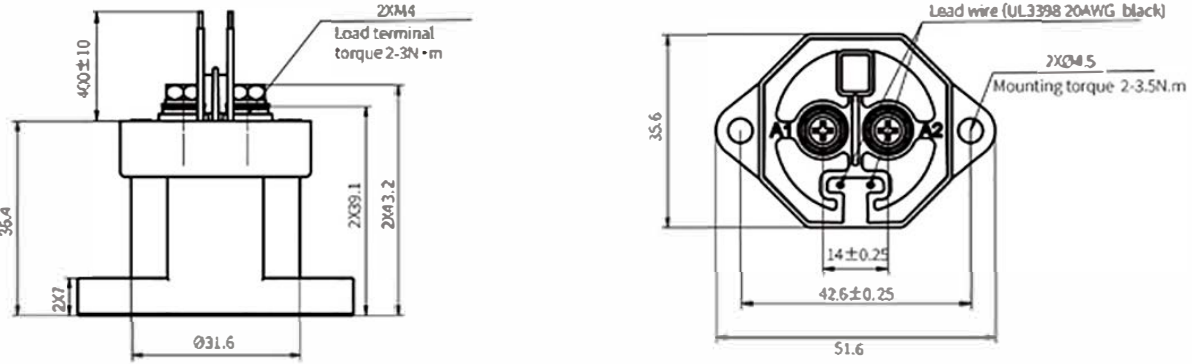
EVD30



PART CODE

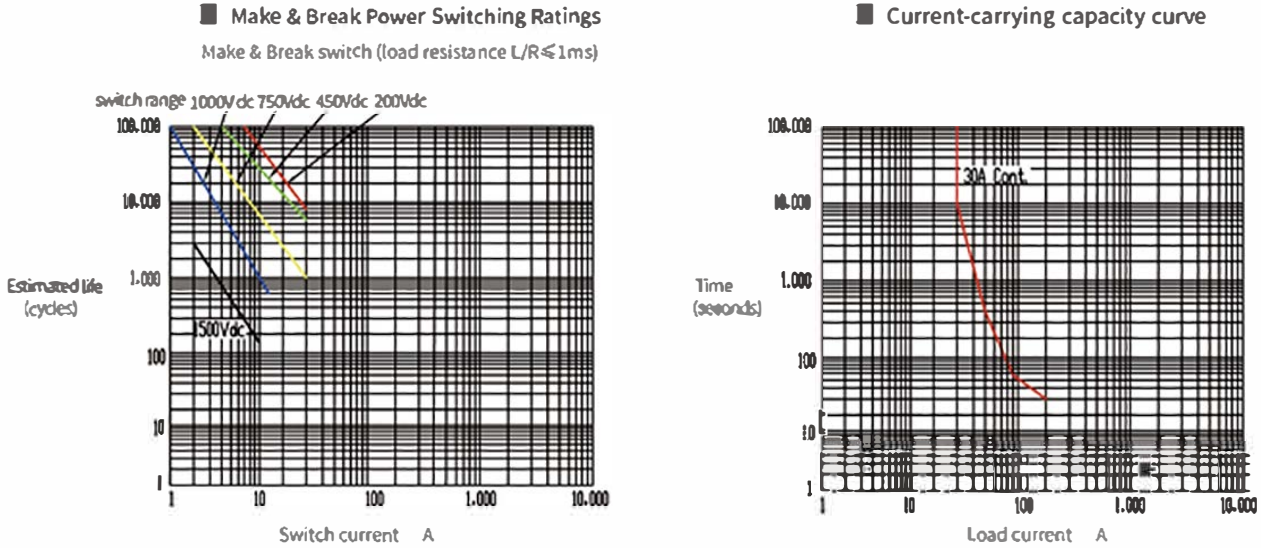


DIMENSIONS



Note: 1.fastener:2xM4x8mm; 2.Mounting hardware M 4, torque 2-3.5N·m;
3.Maincontact hardware M 4, torque 2-3N·m; 4.Main contact to copper area≥6mm²;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD50



EVD50

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		--			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-50A			
Current Endurance		50A Cont. ;100A10min. ; 150A 180sec. ; 200A 50sec.			
Break Current, Max (only 1 time)		500A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 50A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacitycurve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC3500Vrms			
	Maincontact & coil1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 115g			
Certification		UL、CE、CCC			

COIL DATA

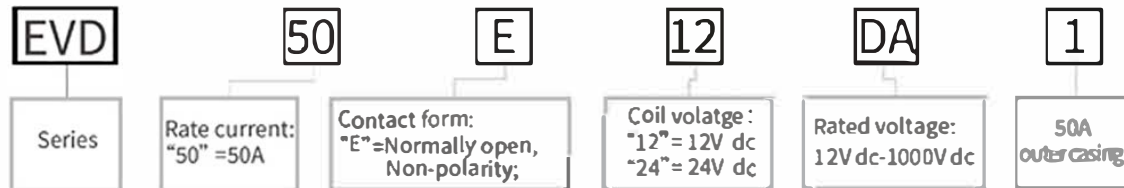
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	≤9Vdc	≥1Vdc	40Ω×(1±7%)	approx. 3.6W	non-polarized
	24Vdc	≤18Vdc	≥2Vdc	152Ω×(1±7%)	approx. 3.8W	non-polarized

DC HIGH VOLTAGE EV RELAY

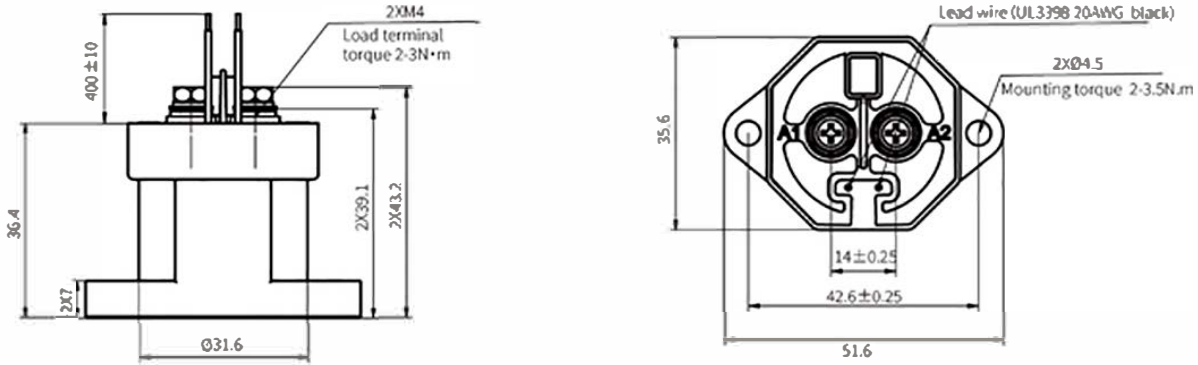
EVD50



PART CODE

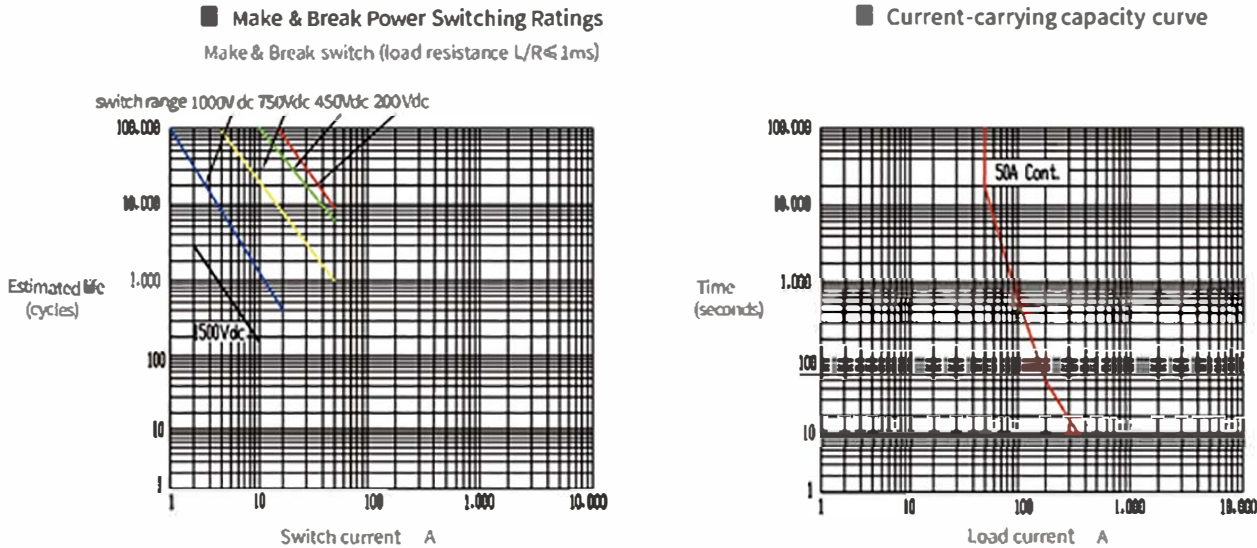


DIMENSIONS



Note: 1.fastener:2xM4x8mm; 2.Mounting hardware M 4, torque 2-3.SN·m;
3.Main contact hardware M 4, torque 2-3N·m; 4.Main contact to copper area≥10mm²;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD50



EVD50

PERFORMANCE

	ITEM	PARAMETER			
	Contact Arrangement	SPST-NO			
	Auxiliary Contact	SPST NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
	Voltage Rating	12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
	Current Rating	1-50A			
	Current Endurance	50A Cont. ; 100A 10min. ; 200A 180sec. ; 300A 50sec.			
	Break Current, Max (only 1 time)	1000A 320Vdc			
	Contact Resistance (Initial)	≤1mΩ (at 50A)			
	Operate Time (at 20°C)	30ms Max.			
	Bounce Time (at 20°C)	5ms Max.			
	Release Time (at 20°C)	10 ms Max.			
	Mechanical Life (0.5s:0.5s)	2×10 ⁵ Cycles			
	Electrical Life	See graph			
	Current-carrying capacity curve	See graph			
	Insulation resistance	Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Maincontact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85°C			
	Humidity	5~95% RH.			
	Altitude	≤4000m			
	Weight	approx. 160g			
	Certification	UL、CE、CCC			

COIL DATA

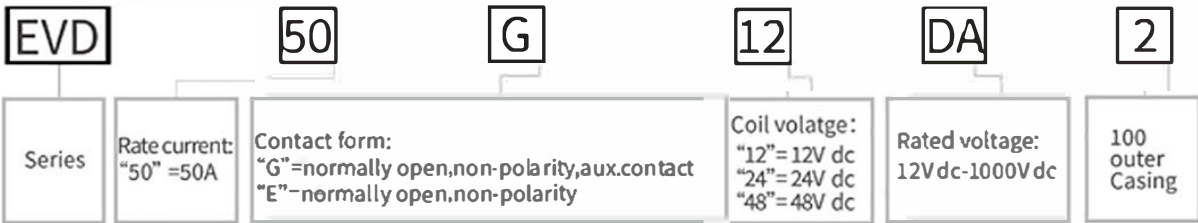
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6Vdc$	$\geq 1Vdc$	$26\Omega \times (1 \pm 7\%)$	approx. 5.5W	non-polarized
	24Vdc	$\leq 19.2Vdc$	$\geq 2Vdc$	$96\Omega \times (1 \pm 7\%)$	approx. 6.0W	non-polarized
	48Vdc	$\leq 38.4Vdc$	$\geq 4Vdc$	$392\Omega \times (1 \pm 7\%)$	approx. 5.9W	non-polarized

DC HIGH VOLTAGE EV RELAY

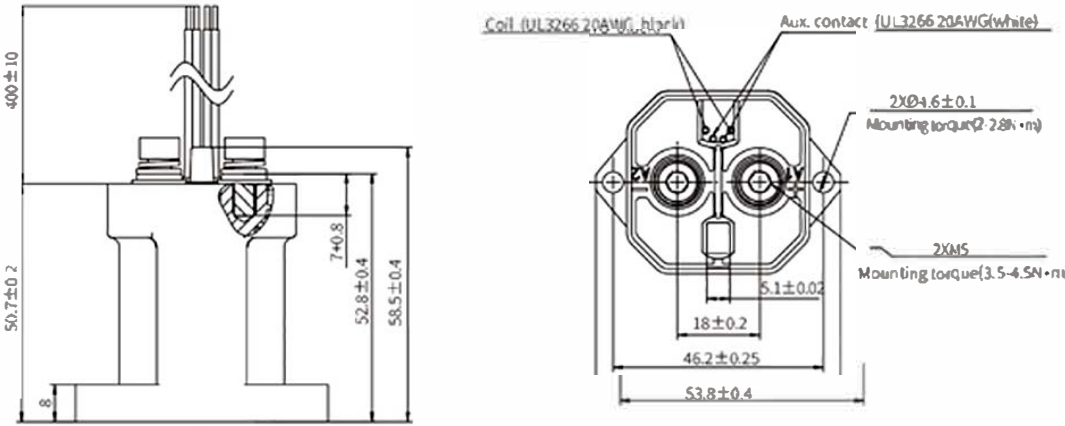
EVD50



PART CODE

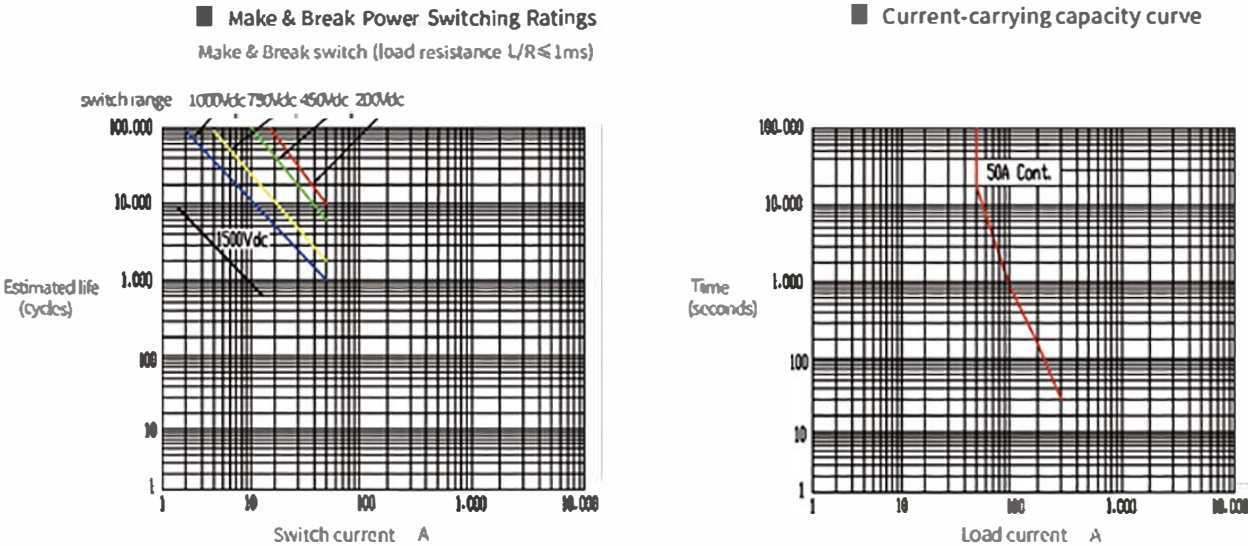


DIMENSIONS



Note: 1.fastener:2xM5x8mm; 2.Mounting hardware M 4, torque 2-2.8N·m;
3.Main contact hardware M 5, torque 3.5-4.5N·m; 4.Main contact to copper area $\geq 10mm^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD100



EVD100

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-100A			
Current Endurance		100A Cont. ; 150A 10min. ; 200A 180sec. ; 300A 50sec.			
Break Current, Max (only 1 time)		1000A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 100A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Maincontact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 160g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6\text{Vdc}$	$\geq 1\text{Vdc}$	$26\Omega \times (1 \pm 7\%)$	approx. 5.5W	non-polarized
	24Vdc	$\leq 19.2\text{Vdc}$	$\geq 2\text{Vdc}$	$96\Omega \times (1 \pm 7\%)$	approx. 6.0W	non-polarized
	48Vdc	$\leq 38.4\text{Vdc}$	$\geq 4\text{Vdc}$	$392\Omega \times (1 \pm 7\%)$	approx. 5.9W	non-polarized

DC HIGH VOLTAGE EV RELAY

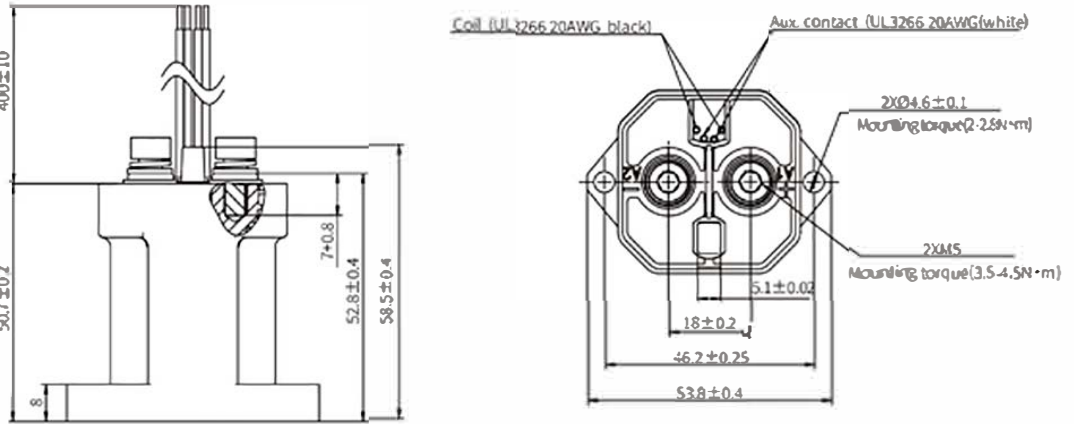
EVD100



PART CODE

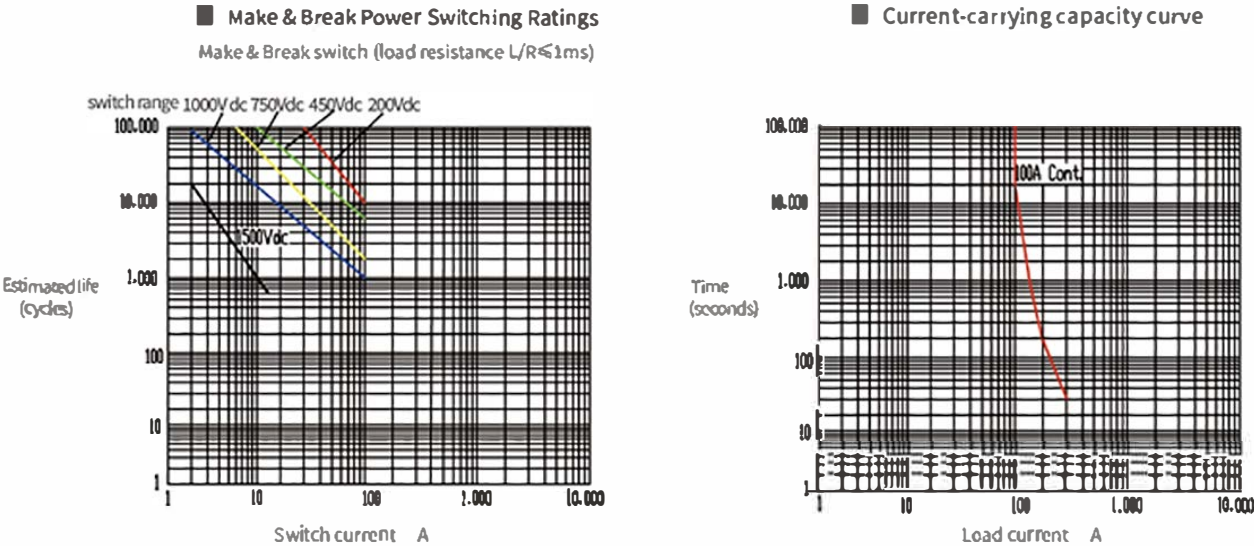


DIMENSIONS



Note: 1.fastener:2xM5x8mm; 2.Mounting hardware M 4, torque 2-2.8N·m;
3.Main contact hardware M 5, torque 3.5-4.5N·m; 4.Main contact to copper area $\geq 35\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD135



EVD135

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load : 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-135A			
Current Endurance		135A Cont. ; 150A 10min. ; 200A 180sec. ; 300A 50sec.			
Break Current, Max (only 1 time)		1000A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 135A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 160g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6Vdc$	$\geq 1Vdc$	$26\Omega \times (1 \pm 7\%)$	approx. 5.5W	non-polarized
	24Vdc	$\leq 19.2Vdc$	$\geq 2Vdc$	$96\Omega \times (1 \pm 7\%)$	approx. 6.0W	non-polarized
	48Vdc	$\leq 38.4Vdc$	$\geq 4Vdc$	$392\Omega \times (1 \pm 7\%)$	approx. 5.9W	non-polarized

DC HIGH VOLTAGE EV RELAY

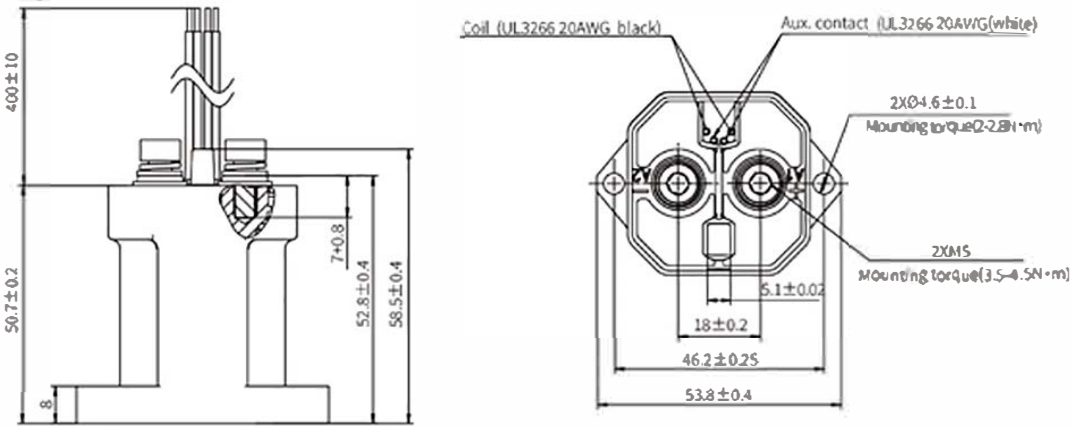
EVD135



PART CODE

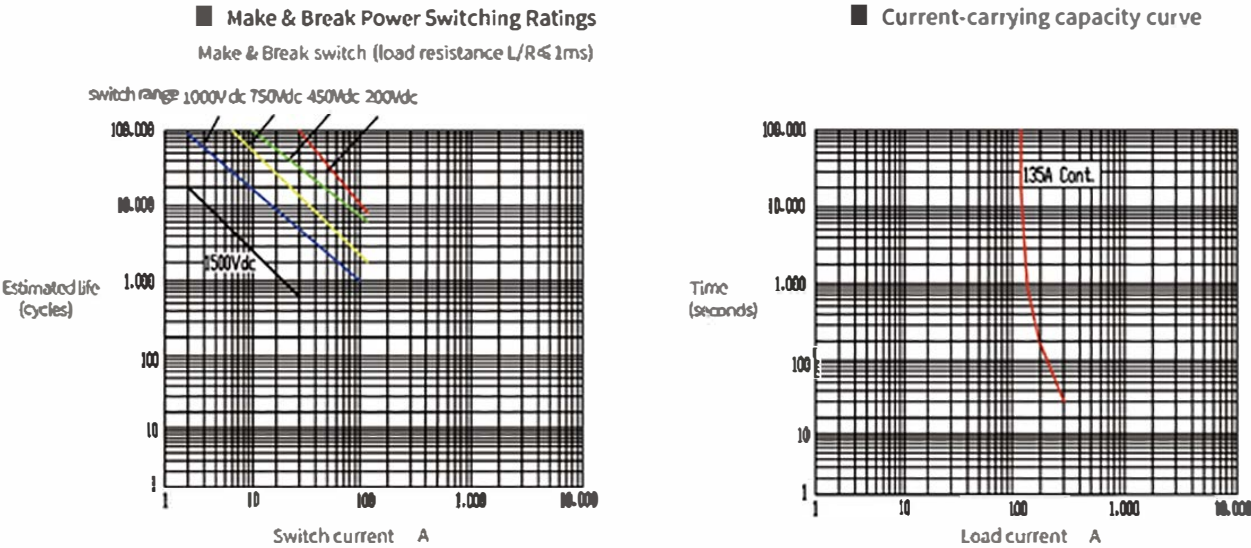
EVD	135	G	12	DA	2
Series	Rate current: "135"=135A	Contact form: "G"=normally open,non-polarity,aux.contact "E"=normally open,non-polarity	Coil volatge: "12"= 12V dc "24"= 24V dc "48"= 48V dc	Rated voltage: 12V dc-1000V dc	100 outer Casing

DIMENSIONS



Note: 1.fastener:2xM5x8mm; 2.Mounting hardware M 4, torque 2-2.8N·m;
3.Main contact hardware M 5, torque 3.5-4.5N·m; 4.Main contact to copper area $\geq 50mm^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD150



EVD150

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-150A			
Current Endurance		150A Cont. ; 180A 10min. ; 250A 180sec. ; 300A 50sec.			
Break Current, Max (only 1 time)		1000A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 150A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave(coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 160g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6\text{Vdc}$	$\geq 1\text{Vdc}$	$26\Omega \times (1 \pm 7\%)$	approx. 5.5W	non-polarized
	24Vdc	$\leq 19.2\text{Vdc}$	$\geq 2\text{Vdc}$	$96\Omega \times (1 \pm 7\%)$	approx. 6.0W	non-polarized
	48Vdc	$\leq 38.4\text{Vdc}$	$\geq 4\text{Vdc}$	$392\Omega \times (1 \pm 7\%)$	approx. 5.9W	non-polarized

DC HIGH VOLTAGE EV RELAY

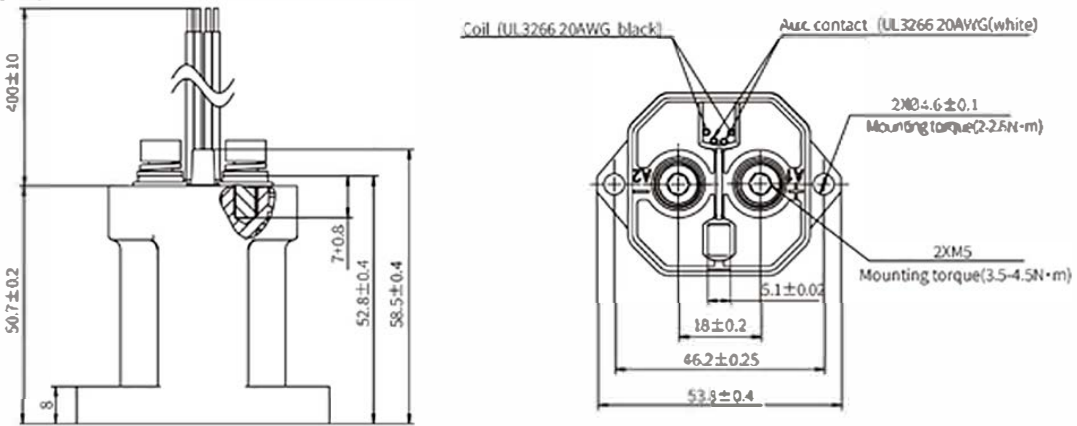
EVD150



PART CODE

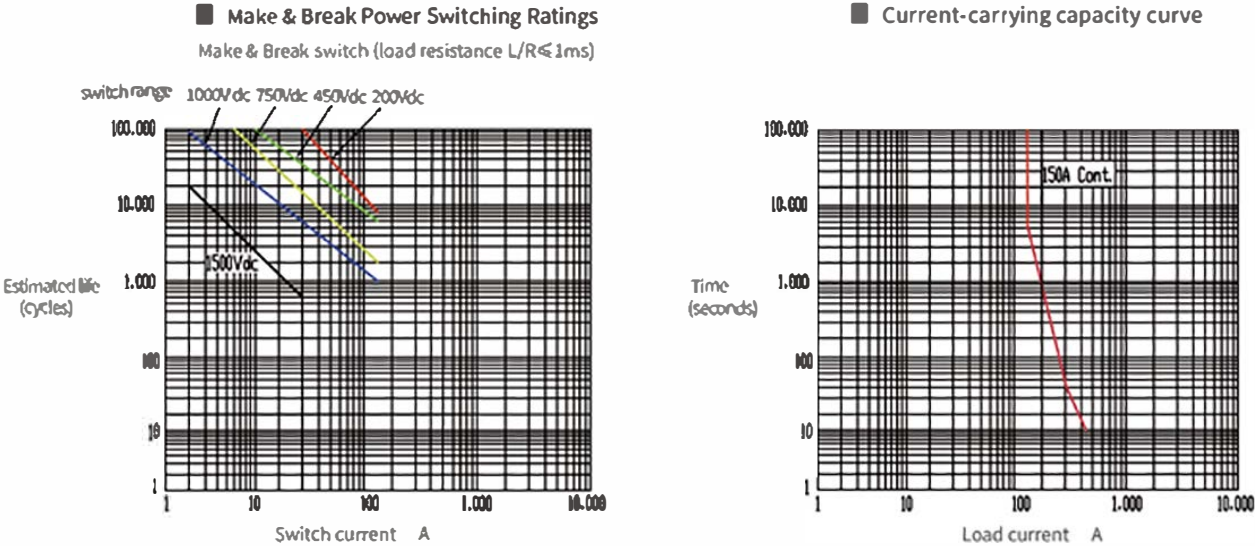


DIMENSIONS



Note: 1.fastener: 2xM5x8mm; 2.Mounting hardware M 4, torque 2-2.8N·m;
3.Main contact hardware M 5, torque 3.5-4.5N·m; 4.Main contact to copper area $\geq 60\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD150



EVD150

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-150A			
Current Endurance		150A Cont. ; 200A 10min. ; 300A 180sec. ; 400A 30sec.			
Break Current, Max (only 1 time)		1500A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 150A)			
Operate Time (at 20°C)		30ms Max.			
Bounce Time (at 20°C)		5ms Max.			
Release Time (at 20°C)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Maincontact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave(coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85°C			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 430g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	≤9Vdc	≥6Vdc	3.2A MAX	approx. 2.5W	non-polarized
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	≤9.6Vdc	≥1Vdc	25Ω × (1 ± 7%)	approx. 5.76W	non-polarized
	24Vdc	≤19.2Vdc	≥2Vdc	100Ω × (1 ± 7%)	approx. 5.76W	non-polarized
	48Vdc	≤38.4Vdc	≥4Vdc	400Ω × (1 ± 7%)	approx. 5.76W	non-polarized

DC HIGH VOLTAGE EV RELAY

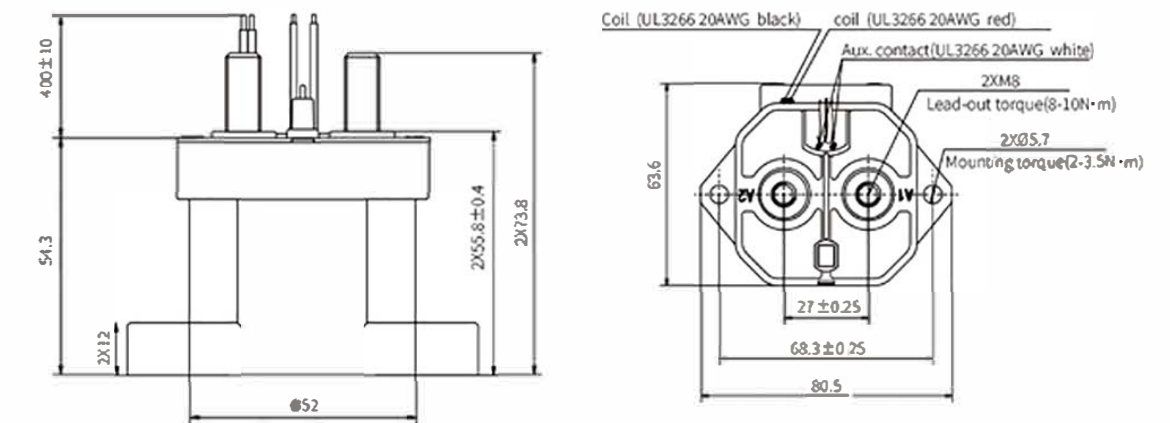
EVD150



PART CODE

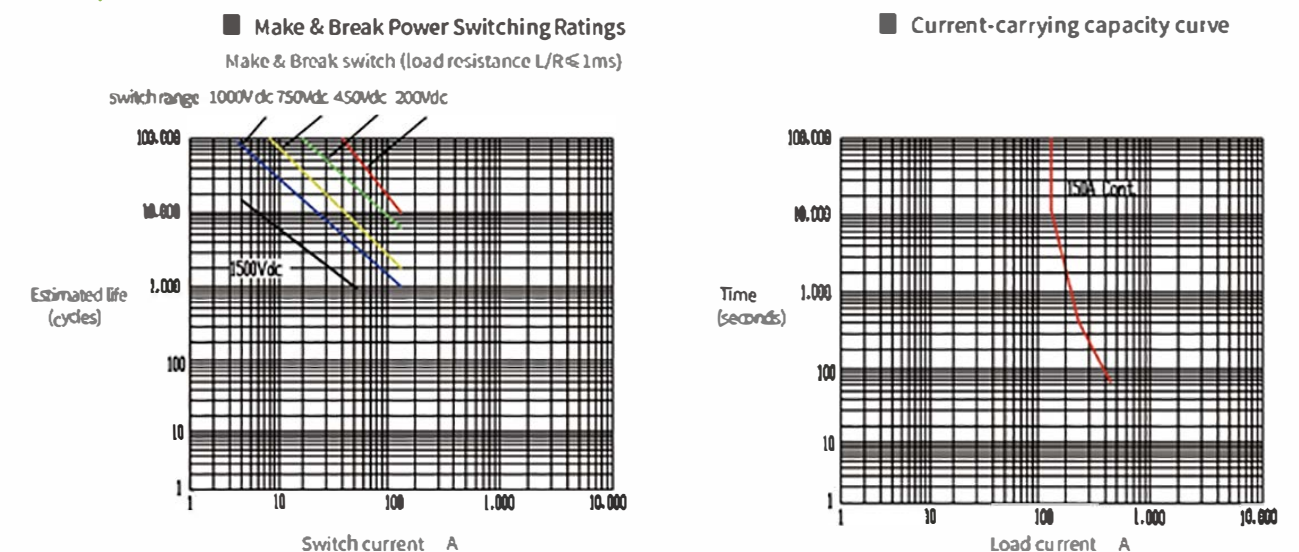


DIMENSIONS



Note: 1.fastener:2xM8x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 8, torque 8-10N·m; 4.Main contact to copper area $\geq 60\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD200



EVD200

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-200A			
Current Endurance		200A Cont. ; 300A 10min. ; 400A 180sec. ; 500A 30sec.			
Break Current, Max (only 1 time)		2000A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 200A)			
Operate Time (at 20°C)		30ms Max.			
Bounce Time (at 20°C)		5ms Max.			
Release Time (at 20°C)		10ms Max.			
MechanicalLife (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC3500Vrms			
	Main contact & coil1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave(coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85°C			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 430g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (20°C)	Coil polarity
PWM	12-36Vdc	$\leq 9\text{Vdc}$	$\geq 6\text{Vdc}$	3.2A MAX	approx. 2.5W	non-polarized
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6\text{Vdc}$	$\geq 1\text{Vdc}$	$25\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	24Vdc	$\leq 19.2\text{Vdc}$	$\geq 2\text{Vdc}$	$100\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	48Vdc	$\leq 38.4\text{Vdc}$	$\geq 4\text{Vdc}$	$400\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized

DC HIGH VOLTAGE EV RELAY

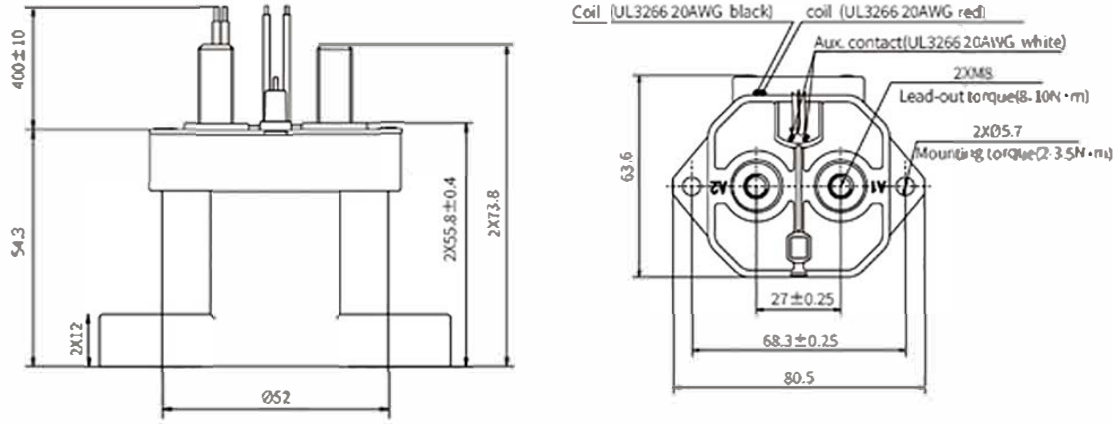
EVD200



PART CODE

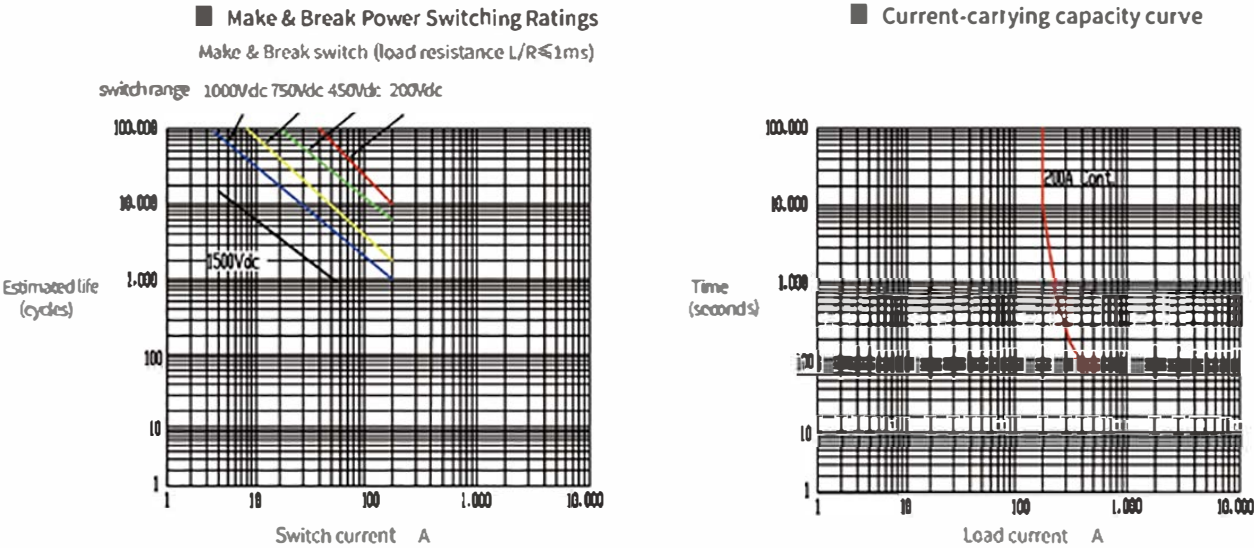


DIMENSIONS



Note: 1.fastener:2xM8x8mm; 2.Mounting hardware M 5, torque 2-3.SN·m;
3.Main contact hardware M 8, torque 8-10N·m; 4.Main contact to copper area $\geq 75\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD250



EVD250

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load：8Vdc 100mA；Contact Resistance：≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-250A			
Current Endurance		250A Cont；300A 10min.；400A 180sec.；500A 30sec.			
Break Current, Max (only 1 time)		2000A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 250A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 430g			
Certification		UL、CE、CCC			

COIL DATA

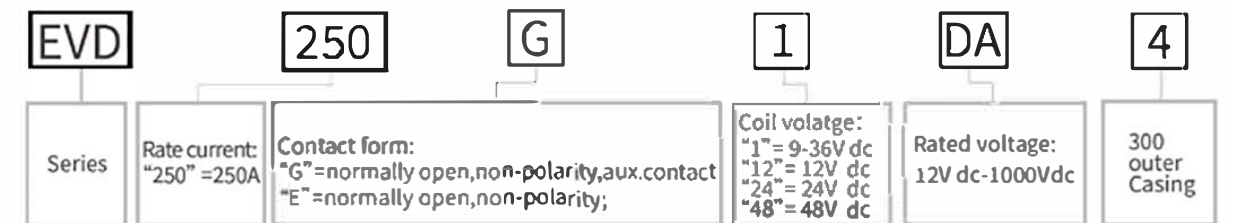
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	≤9Vdc	≥6Vdc	3.2A MAX	approx. 2.5W	non-polarized
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	≤9.6Vdc	≥1Vdc	25Ω × (1 ± 7%)	approx. 5.76W	non-polarized
	24Vdc	≤19.2Vdc	≥2Vdc	100Ω × (1 ± 7%)	approx. 5.76W	non-polarized
	48Vdc	≤38.4Vdc	≥4Vdc	400Ω × (1 ± 7%)	approx. 5.76W	non-polarized

DC HIGH VOLTAGE EV RELAY

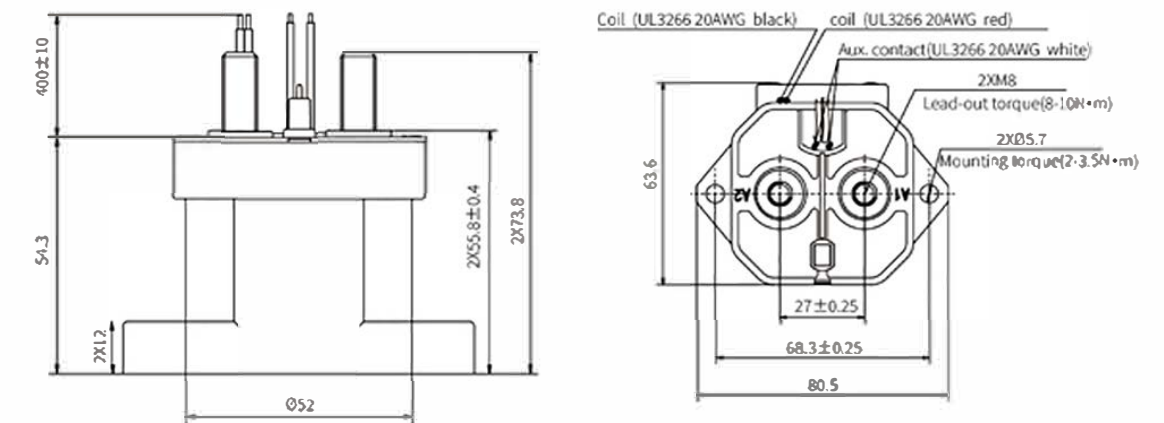
EVD250



PART CODE

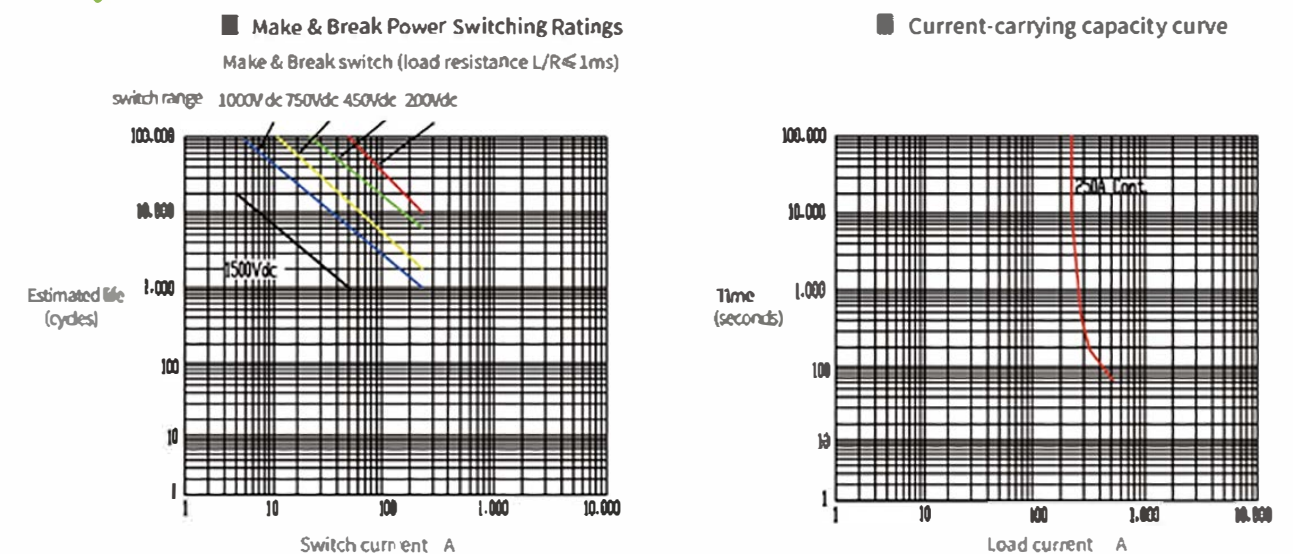


DIMENSIONS



Note: 1.fastener:2xM8x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 8, torque 8-10N·m; 4.Main contact to copper area $\geq 100\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD300



EVD300

PERFORMANCE

ITEM		PARAMETER	
Contact Arrangement		SPST-NO	
Auxiliary Contact		SPST-NO(Optional)	
		MIN Load: 8Vdc 100mA ; Contact Resistance: $\leq 100\text{m}\Omega$	
Voltage Rating		12-200Vdc	12-750Vdc 12-1000Vdc 12-1500Vdc
Current Rating		1-300A	
Current Endurance		300A Cont ; 350A 10min. ; 400A 180sec. ; 500A 30sec.	
Break Current, Max (only 1 time)		2000A 320Vdc	
Contact Resistance (Initial)		$\leq 1\text{m}\Omega$ (at 300A)	
Operate Time (at 20°C)		30ms Max.	
Bounce Time (at 20°C)		5ms Max.	
Release Time (at 20°C)		10ms Max.	
Mechanical Life (0.5s:0.5s)		2×10^5 Cycles	
Electrical Life		See graph	
Current-carrying capacity curve		See graph	
Insulation resistance		Initial: 100M Ω 1000Vdc	
		After test: 50M Ω 1000Vdc	
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms	
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms	AC 3500Vrms
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)	
	Vibration	20G peak,80- 2000Hz,Sine wave (coil energized)	
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.	
Operating & Storage Condition	Ambient Temperature	-40~+85°C	
	Humidity	5~95% RH.	
Altitude		$\leq 4000\text{m}$	
Weight		approx. 430g	
Certification		UL、CE、CCC	

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	$\leq 9\text{Vdc}$	$\geq 6\text{Vdc}$	3.2A MAX	approx. 2.5W	non-polarized
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6\text{Vdc}$	$\geq 1\text{Vdc}$	$25\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	24Vdc	$\leq 19.2\text{Vdc}$	$\geq 2\text{Vdc}$	$100\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	48Vdc	$\leq 38.4\text{Vdc}$	$\geq 4\text{Vdc}$	$400\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized

DC HIGH VOLTAGE EV RELAY

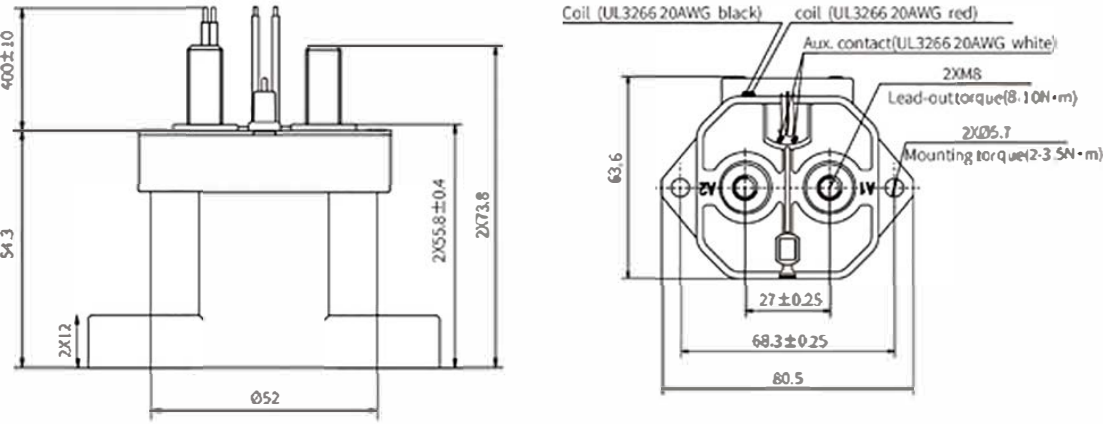
EVD300



PART CODE

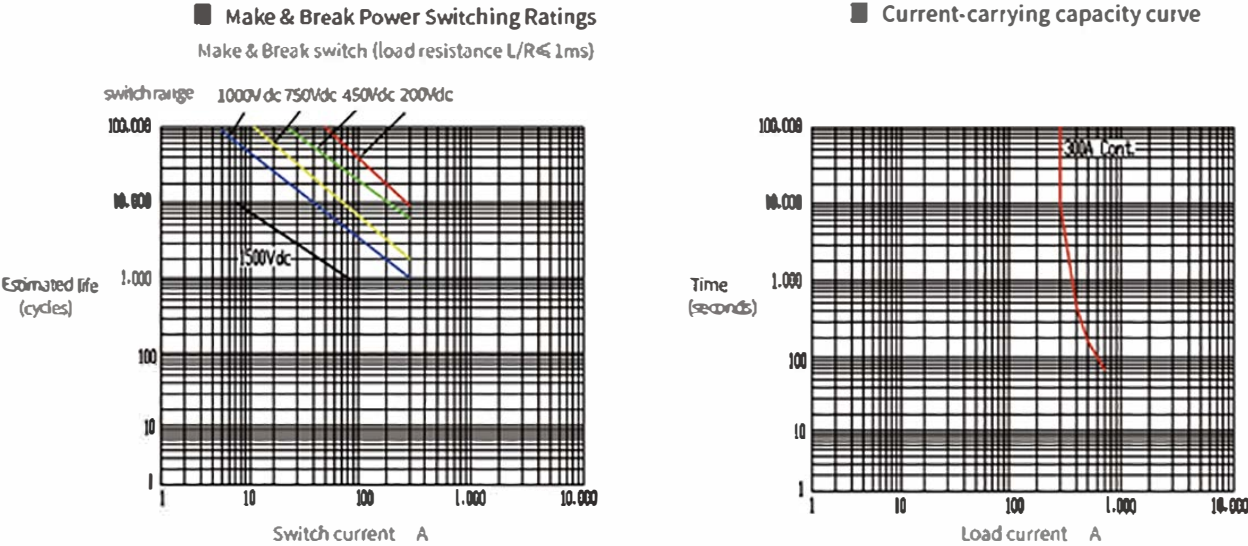


DIMENSIONS



Note: 1.fastener:2xM8x8mm; 2.Mounting hardware M 5, torque 2-3.SN·m;
3.Main contact hardware M 8, torque 8-10N·m; 4.Main contact to copper area $\geq 120\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD350



EVD350

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-350A			
Current Endurance		350A Cont. ; 400A 10min. ; 450A 180sec. ; 500A 30sec.			
Break Current, Max (only 1 time)		2000A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 350A)			
Operate Time (at 20°C)		30ms Max.			
Bounce Time (at 20°C)		5ms Max.			
Release Time (at 20°C)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85°C			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 430g			
Certification		UL、CE、CCC			

COIL DATA

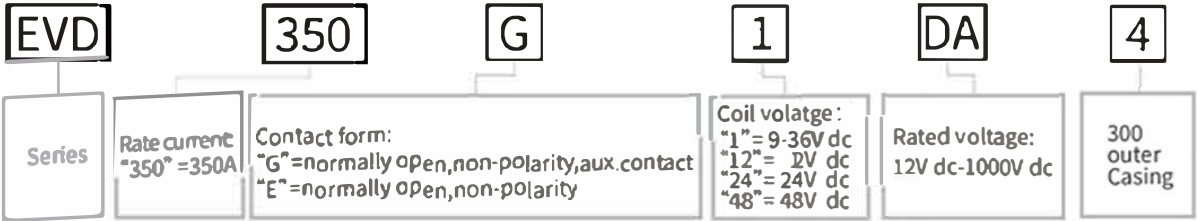
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	$\leq 9\text{Vdc}$	$\geq 6\text{Vdc}$	3.2A MAX	approx. 2.5W	non-polarized
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6\text{Vdc}$	$\geq 1\text{Vdc}$	$25\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	24Vdc	$\leq 19.2\text{Vdc}$	$\geq 2\text{Vdc}$	$100\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	48Vdc	$\leq 38.4\text{Vdc}$	$\geq 4\text{Vdc}$	$400\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized

DC HIGH VOLTAGE EV RELAY

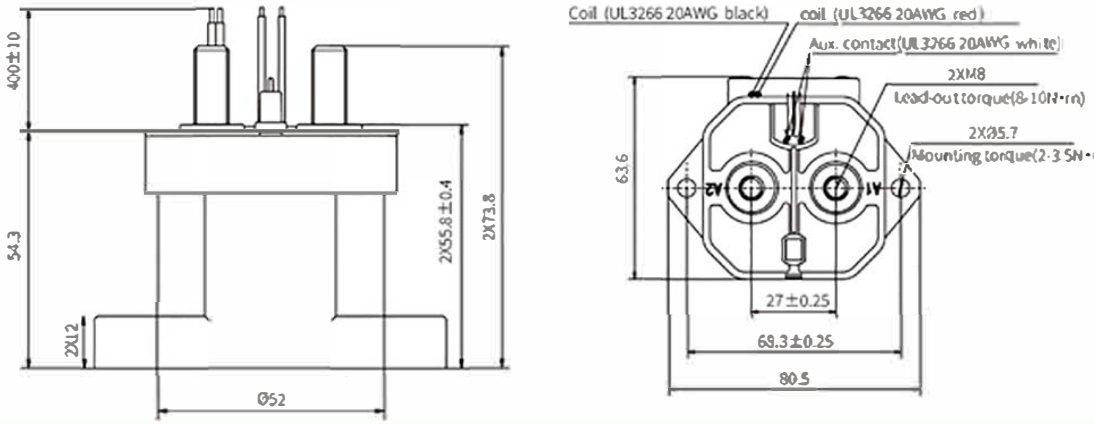
EVD350



PART CODE

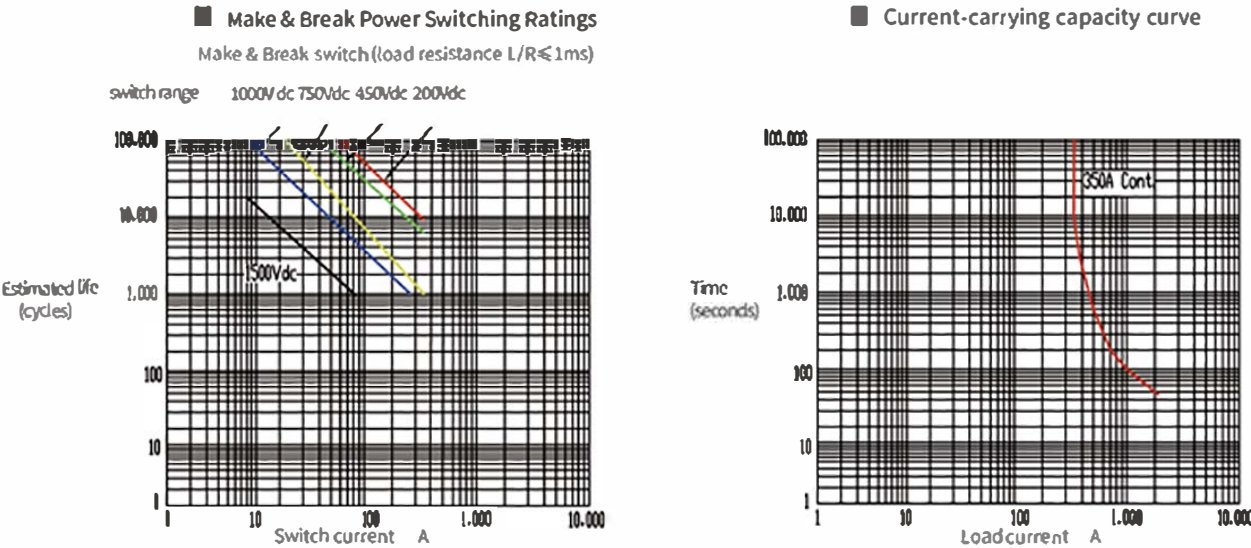


DIMENSIONS



Note: 1.fastener:2xM8x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 8, torque 8-10N·m; 4.Main contact to copper area $\geq 160\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD400



EVD400

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-400A			
Current Endurance		400A Cont. ; 450A 15min. ; 500A 180sec. ; 600A 30sec.			
Break Current, Max (only 1 time)		2000A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 400A)			
Operate Time (at 20℃)		30ms Max.			
Bounce Time (at 20℃)		5msMax.			
Release Time (at 20℃)		10ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Maincontact&coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 430g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	$\leq 9\text{Vdc}$	$\geq 6\text{Vdc}$	3.2A MAX	approx. 2.5W	non-polarized
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6\text{Vdc}$	$\geq 1\text{Vdc}$	$25\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	24Vdc	$\leq 19.2\text{Vdc}$	$\geq 2\text{Vdc}$	$100\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	48Vdc	$\leq 38.4\text{Vdc}$	$\geq 4\text{Vdc}$	$400\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized

DC HIGH VOLTAGE EV RELAY

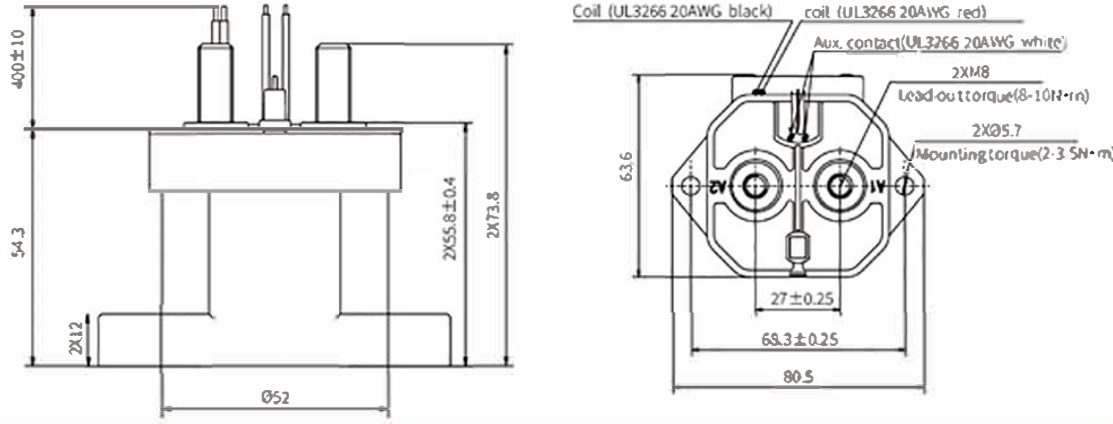
EVD400



PART CODE

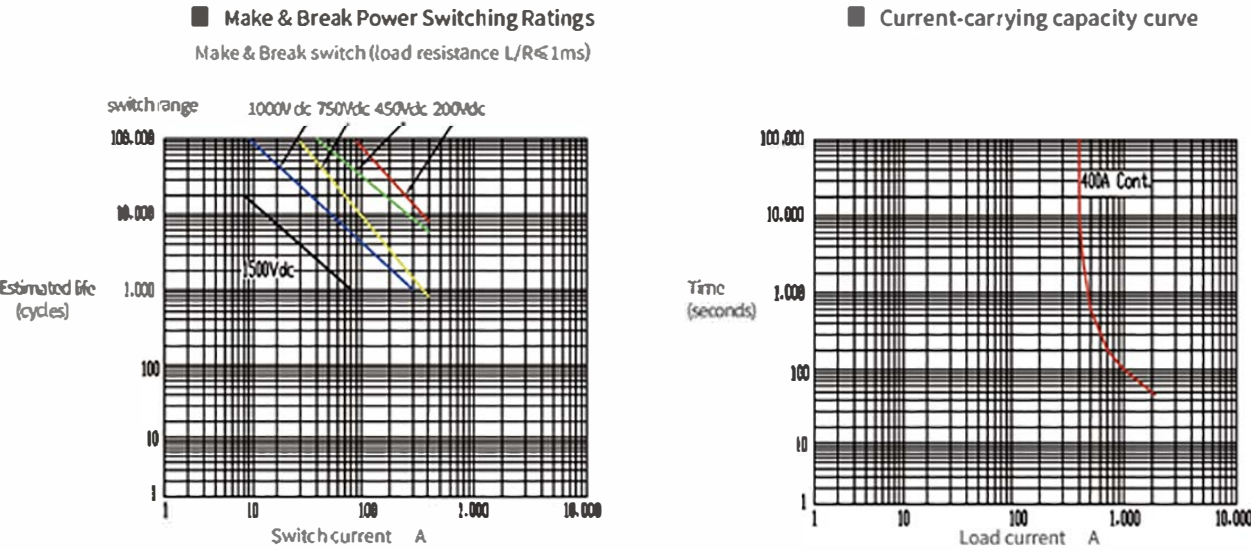


DIMENSIONS



Note: 1.fastener:2xM8x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 8, torque 8-10N·m; 4.Main contact to copper area $\geq 200\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD500



EVD500

PERFORMANCE

ITEM		PARAMETER		
ContactArrangement		SPST-NO		
Auxiliary Contact		SPST-NO(Optional)		
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ		
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc
Current Rating		1-500A		
Current Endurance		500A Cont. ; 550A 15min. ; 600A 150sec. ; 700A 20sec.		
Break Current, Max (only 1 time)		2000A 320Vdc		
Contact Resistance (Initial)		≤1mΩ (at 500A)		
Operate Time (at 20℃)		30ms Max.		
Bounce Time (at 20℃)		5ms Max.		
Release Time (at 20℃)		10ms Max.		
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles		
Electrical Life		See graph		
Current-carrying capacity curve		See graph		
Insulation resistance		Initial: 100MΩ 1000Vdc		
		After test: 50MΩ 1000Vdc		
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms		
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)		
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)		
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.		
Operating & Storage Condition	Ambient Temperature	-40~+85℃		
	Humidity	5~95% RH.		
Altitude		≤4000m		
Weight		approx. 430g		
Certification		UL、CE、CCC		

COIL DATA

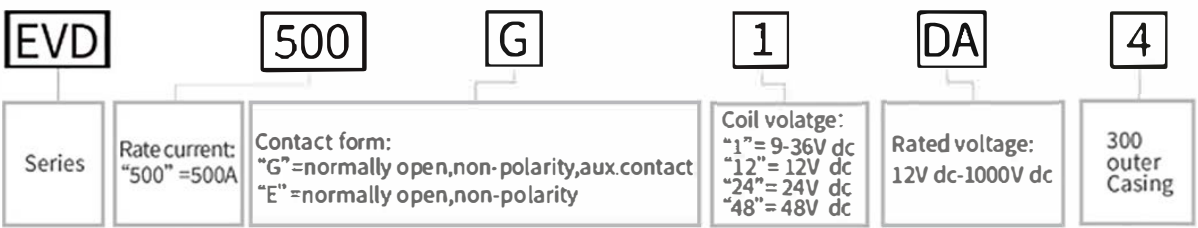
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	$\leq 9Vdc$	$\geq 6Vdc$	3.2A MAX	approx. 2.5W	non-polarized
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6Vdc$	$\geq 1Vdc$	$25\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	24Vdc	$\leq 19.2Vdc$	$\geq 2Vdc$	$100\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	48Vdc	$\leq 38.4Vdc$	$\geq 4Vdc$	$400\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized

DC HIGH VOLTAGE EV RELAY

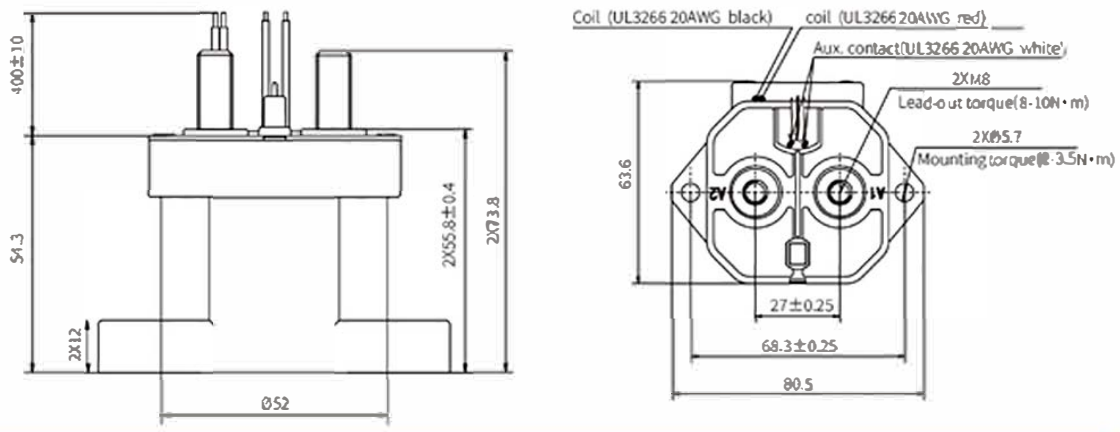
EVD500



PART CODE

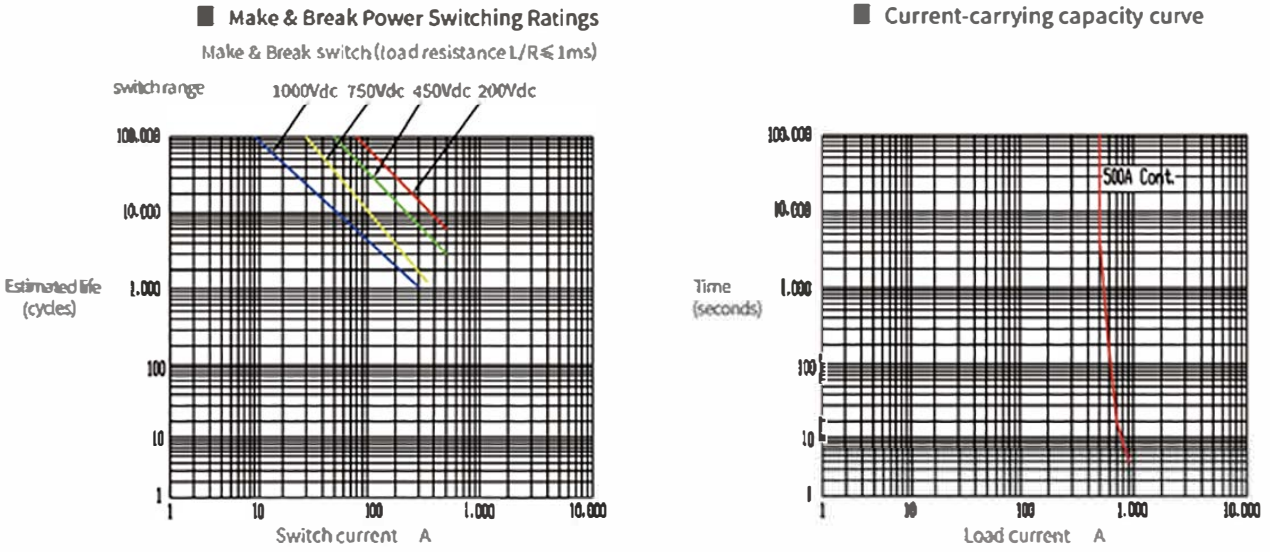


DIMENSIONS



Note: 1.fastener:2xM8x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 8, torque 8-10N·m; 4.Main contact to copper area $\geq 250mm^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD600



EVD600

PERFORMANCE

ITEM				
ContactArrangement		SPST-NO		
Auxiliary Contact		SPST-NO(Optional)		
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ		
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc
Current Rating		1-600A		
Current Endurance		600A Cont. ; 650A 15min. ; 700A 180sec. ; 800A 10sec.		
Break Current, Max (only 1 time)		2000A 320Vdc		
Contact Resistance (Initial)		≤1mΩ (at 600A)		
Operate Time (at 20°C)		30ms Max.		
Bounce Time (at 20°C)		5ms Max.		
Release Time (at 20°C)		10ms Max.		
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles		
Electrical Life		See graph		
Current-carrying capacity curve		See graph		
Insulation resistance		Initial: 100MΩ 1000Vdc		
		After test: 50MΩ 1000Vdc		
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms		
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)		
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)		
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.		
Operating & Storage Condition	Ambient Temperature	-40~+85°C		
	Humidity	5~95% RH.		
Altitude		≤4000m		
Weight		approx. 430g		
Certification		UL、CE、CCC		

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	$\leq 9\text{Vdc}$	$\geq 6\text{Vdc}$	3.2A MAX	approx. 2.5W	non-polarized
Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Coil resistance (at 20°C)	Holding power (at 20°C)	Coil polarity
Single-coil	12Vdc	$\leq 9.6\text{Vdc}$	$\geq 1\text{Vdc}$	$25\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	24Vdc	$\leq 19.2\text{Vdc}$	$\geq 2\text{Vdc}$	$100\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized
	48Vdc	$\leq 38.4\text{Vdc}$	$\geq 4\text{Vdc}$	$400\Omega \times (1 \pm 7\%)$	approx. 5.76W	non-polarized

DC HIGH VOLTAGE EV RELAY

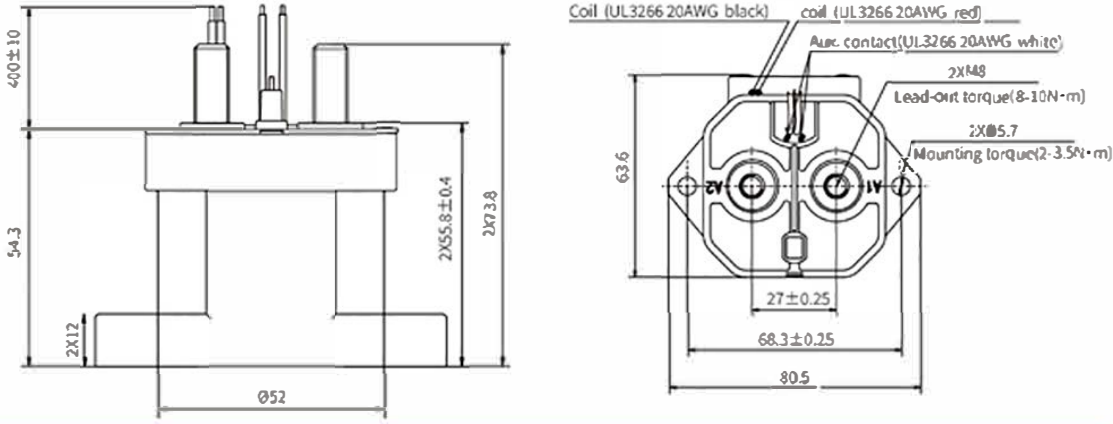
EVD600



PART CODE

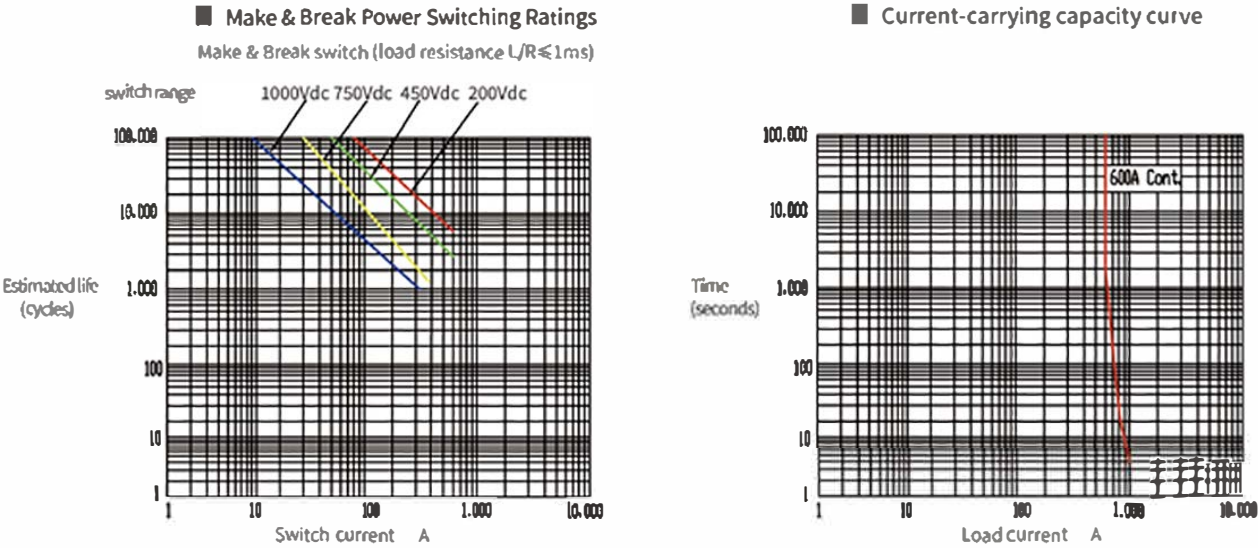


DIMENSIONS



Note: 1.fastener:2xM8x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 8, torque 8-10N·m; 4.Main contact to copper area $\geq 300\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD400



EVD400

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-400A			
Current Endurance		400A Cont. ; 500A 10min. ; 600A 180sec. ; 700A 30sec.			
Break Current, Max (only 1 time)		2500A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 400A)			
Operate Time (at 20°C)		40ms Max.			
Bounce Time (at 20°C)		5ms Max.			
Release Time (at 20°C)		20ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Maincontact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85°C			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 990g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	≤9Vdc	≥6Vdc	3.2A MAX	approx. 3.0W	non-polarized

DC HIGH VOLTAGE EV RELAY

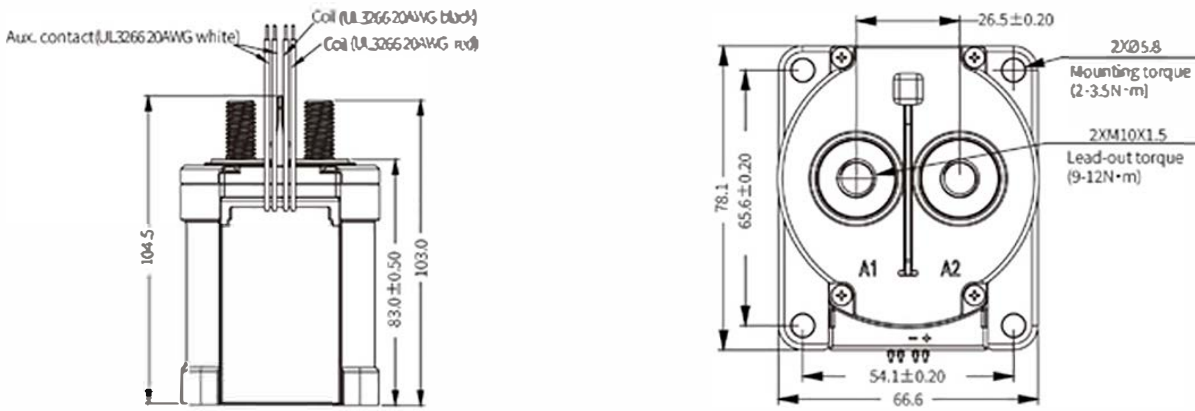
EVD400



PART CODE

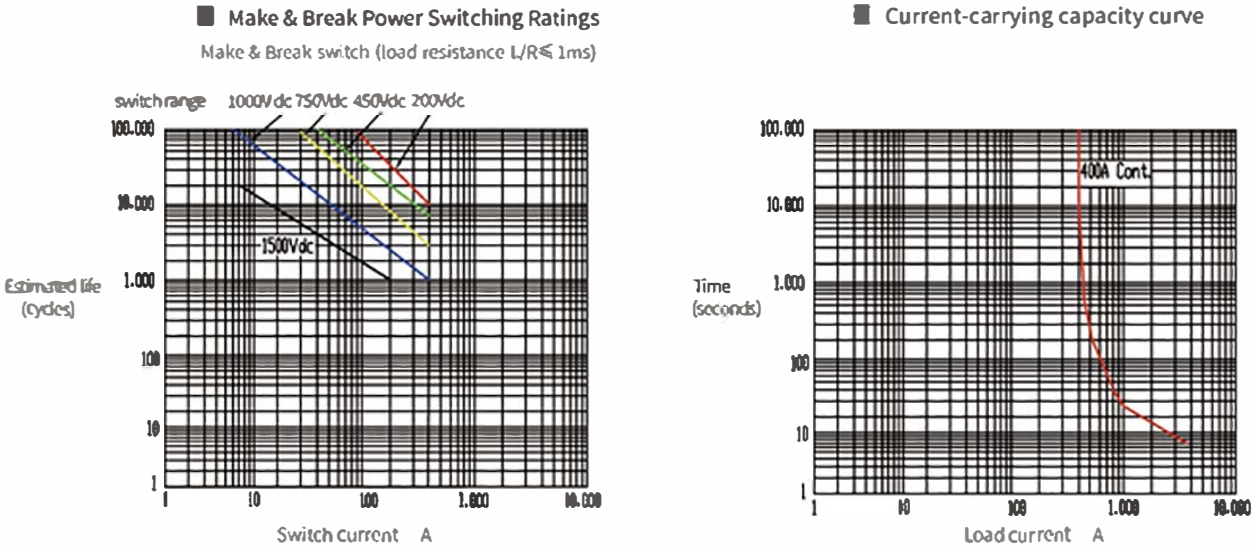


DIMENSIONS



Note: 1.fastener:2xM10x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m; 3.Main contact hardware M 10, torque 9-12N·m; 4.Main contact to copper area≥200mm²;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD500



EVD500

PERFORMANCE

ITEM		PARAMETER	
Contact Arrangement		SPST-NO	
Auxiliary Contact		SPST-NO(Optional)	
		MIN Load: 8Vdc 100mA ; Contact Resistance: $\leq 100\text{m}\Omega$	
Voltage Rating		12-200Vdc	12-750Vdc 12-1000Vdc 12-1S00Vdc
Current Rating		1-500A	
Current Endurance		500A Cont. ; 550A 10min. ; 600A 180sec. ; 700A 30sec.	
Break Current, Max (only 1 time)		2500A 320Vdc	
Contact Resistance (Initial)		$\leq 1\text{m}\Omega$ (at 500A)	
Operate Time (at 20°C)		40ms Max.	
Bounce Time (at 20°C)		5ms Max.	
Release Time (at 20°C)		20ms Max.	
Mechanical Life (0.Ss:0.Ss)		2×10^5 Cycles	
Electrical Life		See graph	
Current-carrying capacity curve		See graph	
Insulation resistance		Initial: 100M Ω 1000Vdc After test: 50 M Ω 1000Vdc	
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms	
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms	AC 3500Vrms
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)	
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)	
	Strength	50G acceleration, half sine wave impulse 6ms, 50 times per axis.	
Operating & Storage Condition	Ambient Temperature	$-40 \sim +85^\circ\text{C}$	
	Humidity	5~95% RH.	
Altitude		$\leq 4000\text{m}$	
Weight		approx. 990g	
Certification		UL, CE, CCC	

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	$\leq 9\text{Vdc}$	$\geq 6\text{Vdc}$	3.2A MAX	approx. 3.0W	non-polarized

DC HIGH VOLTAGE EV RELAY

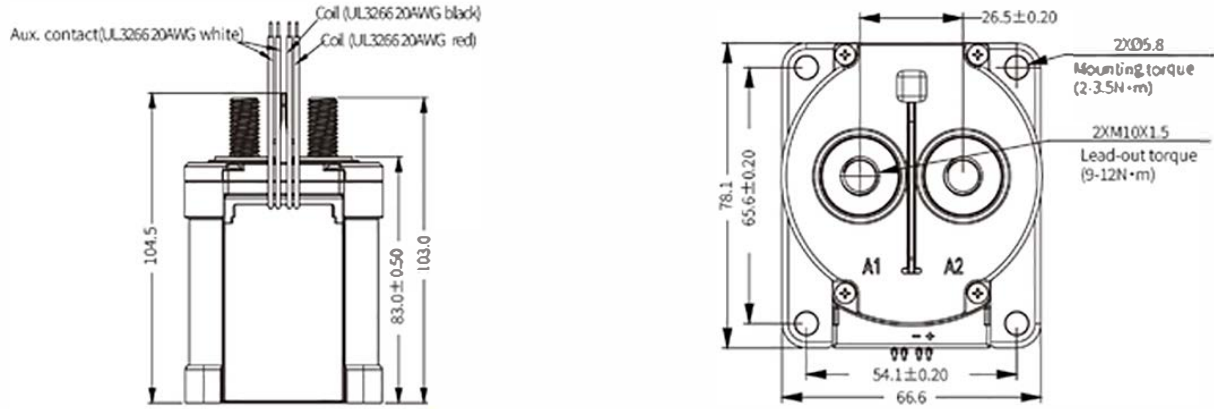
EVD500



PART CODE

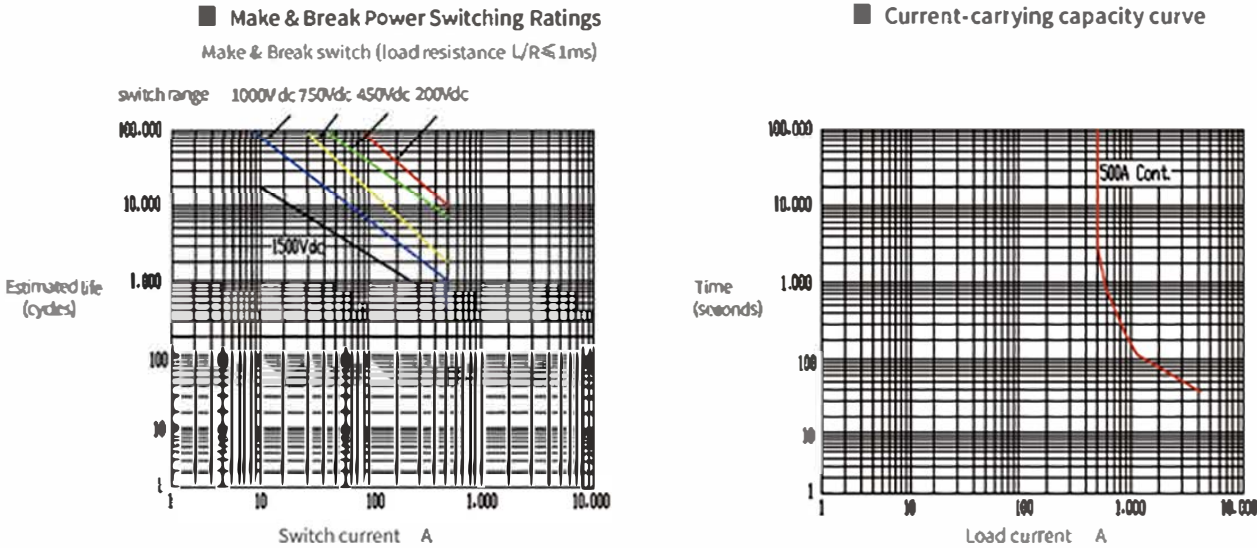


DIMENSIONS



Note: 1.fastener:2xM10x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 10, torque 9-12N·m; 4.Main contact to copper area $\geq 250\text{mm}^2$;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD600



EVD600

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPSTNO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-600A			
Current Endurance		600A Cont. ; 650A 10min. ; 700A 180sec. ; 800A 30sec.			
Break Current, Max (only 1 time)		2500A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 600A)			
Operate Time (at 20°C)		40ms Max.			
Bounce Time (at 20°C)		5ms Max.			
Release Time (at 20°C)		20ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100 MΩ 1000Vdc			
		After test: 50 MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Maincontact&coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85°C			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 990g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-upvoltage (at 20°C)	Drop-outvoltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	≤9Vdc	≥6Vdc	3.2A MAX	approx. 3.0W	non-polarized

DC HIGH VOLTAGE EV RELAY

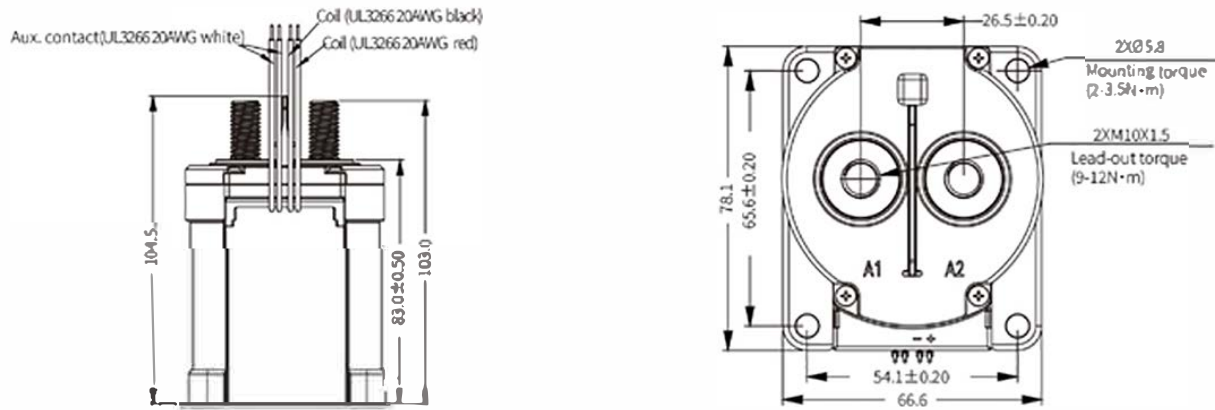
EVD600



PART CODE

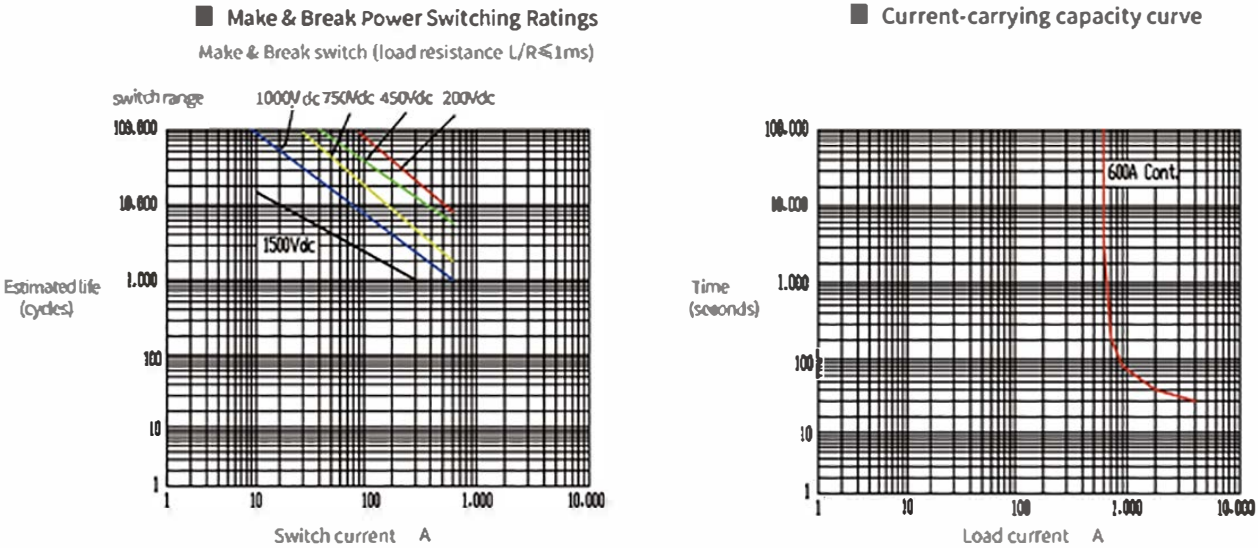
EVD	600	G	1	DA	5
Series	Rate current "600" =600A	Contact form: "G"=normally open,non-polarity,aux.contact "E"=normally open,non-polarity	Coil volatge: "1"=9-36Vdc	Rated voltage: 12V dc-1000V dc	600 outer Casing

DIMENSIONS



Note: 1.fastener:2xM10x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 10, torque 9-12N·m; 4.Main contact to copper area≥300mm²;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD800



EVD800

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1-800A			
Current Endurance		800A Cont. ; 900A 10min. ; 1000A 120sec. ; 1100A 30sec.			
Break Current, Max (only 1 time)		2500A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 800A)			
Operate Time (at 20°C)		40ms Max.			
Bounce Time (at 20°C)		5ms Max.			
Release Time (at 20°C)		20ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Main contact& coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85°C			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 990g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	≤9Vdc	≥6Vdc	3.2A MAX	approx. 3.0W	non-polarized

DC HIGH VOLTAGE EV RELAY

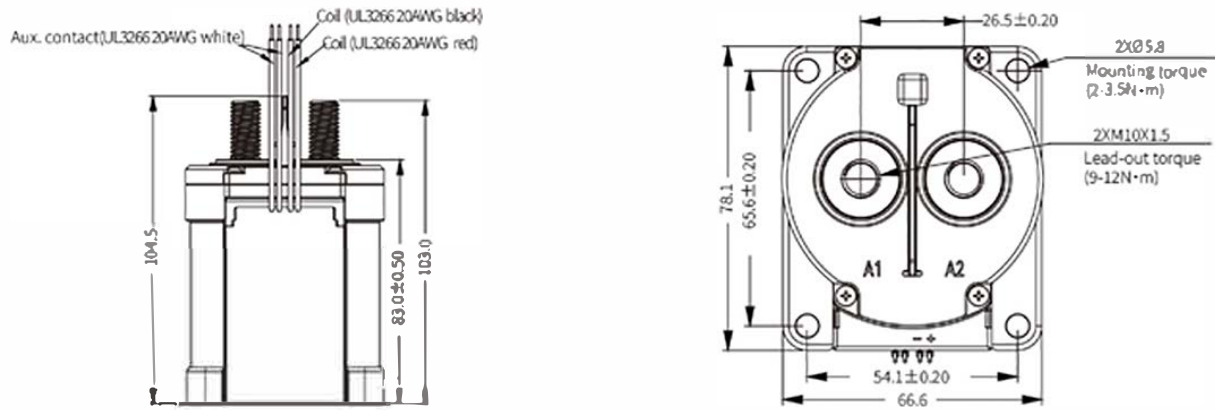
EVD800



PART CODE

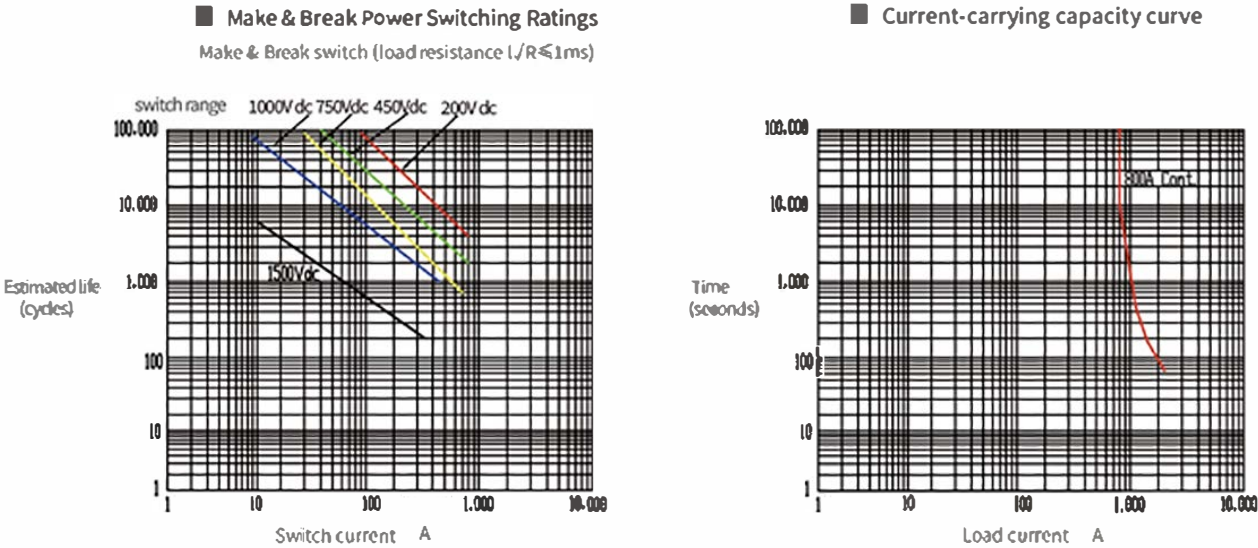
EVD	800	G	1	DA	5
Series	Rate current: "800" =800A	Contact form: "G" =normally open, non-polarity, aux.contact "E" =normally open, non-polarity	Coil voltage: "1" =9-36Vdc	Rated voltage: 12V dc-1000V dc	600 outer Casing

DIMENSIONS



Note: 1.fastener:2xM10x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 10, torque 9-12N·m; 4.Main contact to copper area≥400mm²;

GRAPHS



DC HIGH VOLTAGE EV RELAY

EVD1000



EVD1000

PERFORMANCE

ITEM		PARAMETER			
Contact Arrangement		SPST-NO			
Auxiliary Contact		SPST-NO(Optional)			
		MIN Load: 8Vdc 100mA ; Contact Resistance: ≤100mΩ			
Voltage Rating		12-200Vdc	12-750Vdc	12-1000Vdc	12-1500Vdc
Current Rating		1- 1000A			
Current Endurance		1000A Cont. ; 1100A 10min. ; 1200A 120sec. ; 1400A 30sec.			
Break Current, Max (only 1 time)		2500A 320Vdc			
Contact Resistance (Initial)		≤1mΩ (at 1000A)			
Operate Time (at 20℃)		40ms Max.			
Bounce Time (at 20℃)		5ms Max.			
Release Time (at 20℃)		20ms Max.			
Mechanical Life (0.5s:0.5s)		2×10 ⁵ Cycles			
Electrical Life		See graph			
Current-carrying capacity curve		See graph			
Insulation resistance		Initial: 100MΩ 1000Vdc			
		After test: 50MΩ 1000Vdc			
Impulse withstand voltage (initial)	Main contact 1mA/1min.(sea level)	AC 3500Vrms			
	Main contact & coil 1mA/1min.(sea level)	AC 2500Vrms		AC 3500Vrms	
Mechanical performance	Shock	20G peak,11ms 1/2 Sine wave (coil energized)			
	Vibration	20G peak,80-2000Hz,Sine wave (coil energized)			
	Strength	50G acceleration,half sine wave impulse 6ms, 50 times per axis.			
Operating & Storage Condition	Ambient Temperature	-40~+85℃			
	Humidity	5~95% RH.			
Altitude		≤4000m			
Weight		approx. 990g			
Certification		UL、CE、CCC			

COIL DATA

Coil Type	Nominal voltage (at 20°C)	Pick-up voltage (at 20°C)	Drop-out voltage (at 20°C)	Start-up current	Holding power (at 20°C)	Coil polarity
PWM	12-36Vdc	≤9Vdc	≥6Vdc	3.2A MAX	approx. 3.0W	non-polarized



DC HIGH VOLTAGE EV RELAY

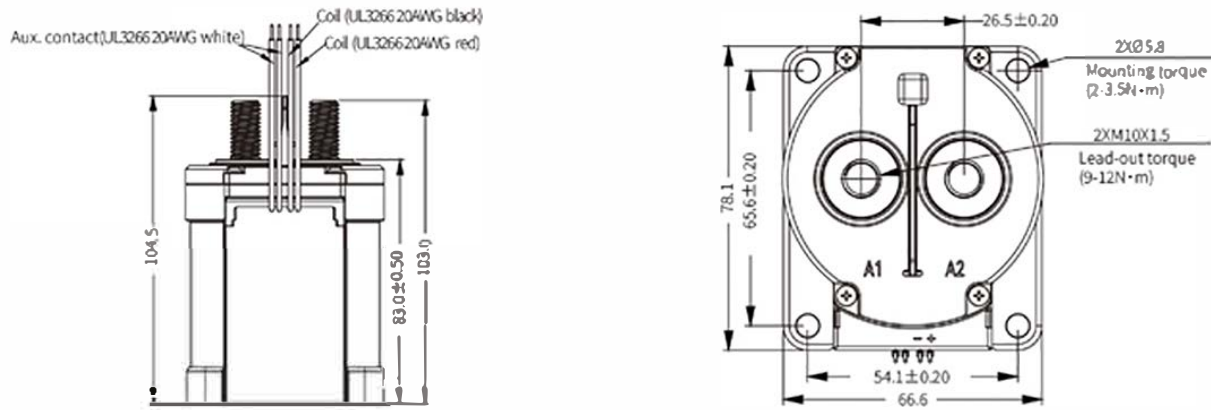
EVD1000



PART CODE

EVD	1000	G	1	DA	5
Series	Rate current: "1000"=1000A	Contact form: "G"=normally open,non-polarity,aux.contact "E"=normally open,non-polarity	Coil volatge: "1"=9-36Vdc	Rated voltage: 12V dc-1000V dc	600 outer Casing

DIMENSIONS



Note: 1.fastener:2xM10x8mm; 2.Mounting hardware M 5, torque 2-3.5N·m;
3.Main contact hardware M 10, torque 9-12N·m; 4.Main contact to copper area ≥500mm²;

GRAPHS

