

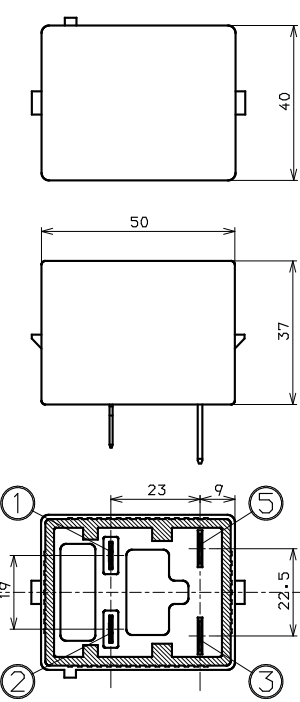
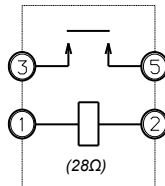
Main Relay			Model : HE																																																																
Dimensions	Contact	Basic Performance																																																																	
	—	<table><tr><td rowspan="4">Contact</td><td colspan="2">Operating voltage</td><td colspan="2">Max. DC400V</td></tr><tr><td colspan="2">Contact current (Fig.1)</td><td colspan="2">0.1~60A</td></tr><tr><td colspan="2">Voltage drop loss between contacts</td><td colspan="2">Max. 0.15V (at60A)</td></tr><tr><td colspan="2">Short circuit</td><td colspan="2">4500A</td></tr><tr><td rowspan="7">Coil</td><td colspan="2">Rated voltage</td><td colspan="2">DC12V</td></tr><tr><td colspan="2">Rated coil current</td><td colspan="2">0.43±0.09A (at 20℃)</td></tr><tr><td colspan="2">Coil resistance</td><td colspan="2">28Ω</td></tr><tr><td rowspan="3">Operating temp. and voltage range</td><td colspan="2">Operating voltage</td><td colspan="2">10~16V (at20℃)</td></tr><tr><td colspan="2">Pull-in voltage</td><td colspan="2">Max. 8.0V (at20℃)</td></tr><tr><td colspan="2">Drop-out voltage</td><td colspan="2">1.0~3.5V (at20℃)</td></tr><tr><td colspan="2">Time rating</td><td colspan="2">Continuous operation</td></tr><tr><td colspan="2">Insulation resistance</td><td colspan="2">Min. 100MΩ <div>With 1000V megger under normal temp. and normal humidity</div></td></tr><tr><td colspan="2">Installation position</td><td colspan="2">Cabin</td></tr><tr><td colspan="2">Application</td><td colspan="2">Main, Charge</td></tr><tr><td colspan="2">Note</td><td colspan="2">The specifications are initial value.</td></tr></table>			Contact	Operating voltage		Max. DC400V		Contact current (Fig.1)		0.1~60A		Voltage drop loss between contacts		Max. 0.15V (at60A)		Short circuit		4500A		Coil	Rated voltage		DC12V		Rated coil current		0.43±0.09A (at 20℃)		Coil resistance		28Ω		Operating temp. and voltage range	Operating voltage		10~16V (at20℃)		Pull-in voltage		Max. 8.0V (at20℃)		Drop-out voltage		1.0~3.5V (at20℃)		Time rating		Continuous operation		Insulation resistance		Min. 100MΩ <div>With 1000V megger under normal temp. and normal humidity</div>		Installation position		Cabin		Application		Main, Charge		Note		The specifications are initial value.	
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Wiring Diagram																																																																			

Fig.1 Operating temp. and current range

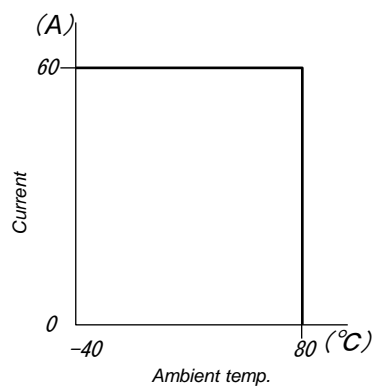


Table 1. Durability Performance (Coil voltage : at14±0.5V)

Operation time	100,000
Maximum contact current	1A @ DC400V , 100,000 time
	550A @ DC400V , 1 time