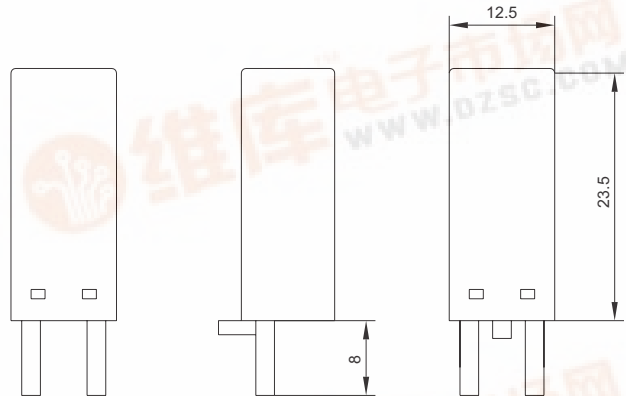


## HFAA to HFHU

## PLUG-IN MODULES

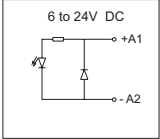
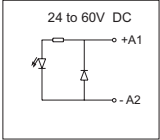
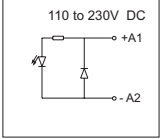
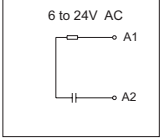
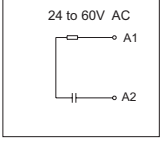
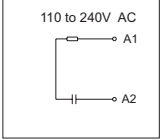
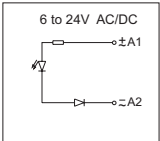
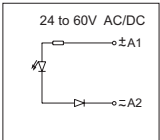
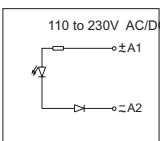
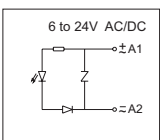


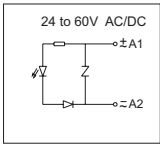
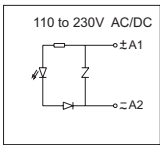
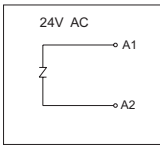
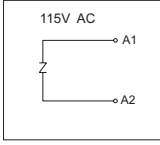
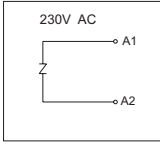
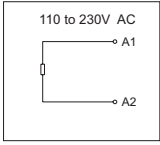
### OUTLINE DIMENSIONS



### SPECIFICATIONS FOR MODULES

Ordering Code <sup>1)</sup>	Circuit Diagram	Voltage	Components	Functions
HFAA		6 to 230VDC	Diode	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> </ul>
HFAB		6 to 230VDC	Diode	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> </ul>
HFBC (R) HFBC (G)		6 to 24VDC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>
HFBD (R) HFBD (G)		24 to 60VDC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>
HFBE (R) HFBE (G)		110 to 230VDC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>

Ordering Code <sup>1)</sup>	Circuit Diagram	Voltage	Components	Functions
HFCE (R) HFCE (G)		6 to 24VDC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>
HFCG (R) HFCG (G)		24 to 60VDC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>
HFCH (R) HFCH (G)		110 to 230VDC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>
HFDE		6 to 24VDC	Capacitor Resistor	<ul style="list-style-type: none"> <li>● With RC to protect the coil and to absorb instant starting surge current</li> </ul>
HFDE		24 to 60VDC	Capacitor Resistor	<ul style="list-style-type: none"> <li>● With RC to protect the coil and to absorb instant starting surge current</li> </ul>
HFDE		110 to 230VDC	Capacitor Resistor	<ul style="list-style-type: none"> <li>● With RC to protect the coil and to absorb instant starting surge current</li> </ul>
HFEE (R) HFEE (G)		6 to 24 VDC / VAC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>
HFEE (R) HFEE (G)		24 to 60 VDC / VAC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>
HFEE (R) HFEE (G)		110 to 230 VDC / VAC	Diode LED Resistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> </ul>
HFEE (R) HFEE (G)		6 to 24 VDC / VAC	Diode LED Resistor Varistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>

Ordering Code <sup>1)</sup>	Circuit Diagram	Voltage	Components	Functions
HFFP (R) HFFP (G)		24 to 60 VDC / VAC	Diode LED Resistor Varistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>
HFFQ (R) HFFQ (G)		110 to 230 VDC / VAC	Diode LED Resistor Varistor	<ul style="list-style-type: none"> <li>● With diode to protect the coil and to eliminate the converse current</li> <li>● With LED to show the coil in voltage</li> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>
HFGR		24VAC	Varistor	<ul style="list-style-type: none"> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>
HFGS		115VAC	Varistor	<ul style="list-style-type: none"> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>
HFGT		230VAC	Varistor	<ul style="list-style-type: none"> <li>● With varistor in parallel connection to absorb instant starting surge current</li> </ul>
HFHU		110 to 230VAC	Resistor	<ul style="list-style-type: none"> <li>● With resistor to protect the coil and to spread around current</li> </ul>

1) When there is LED in the module, please indicate (R) or (G) to show the color of the light, for example HFBC(R) or HFBC (G). (R) means red light while (G) means green light.