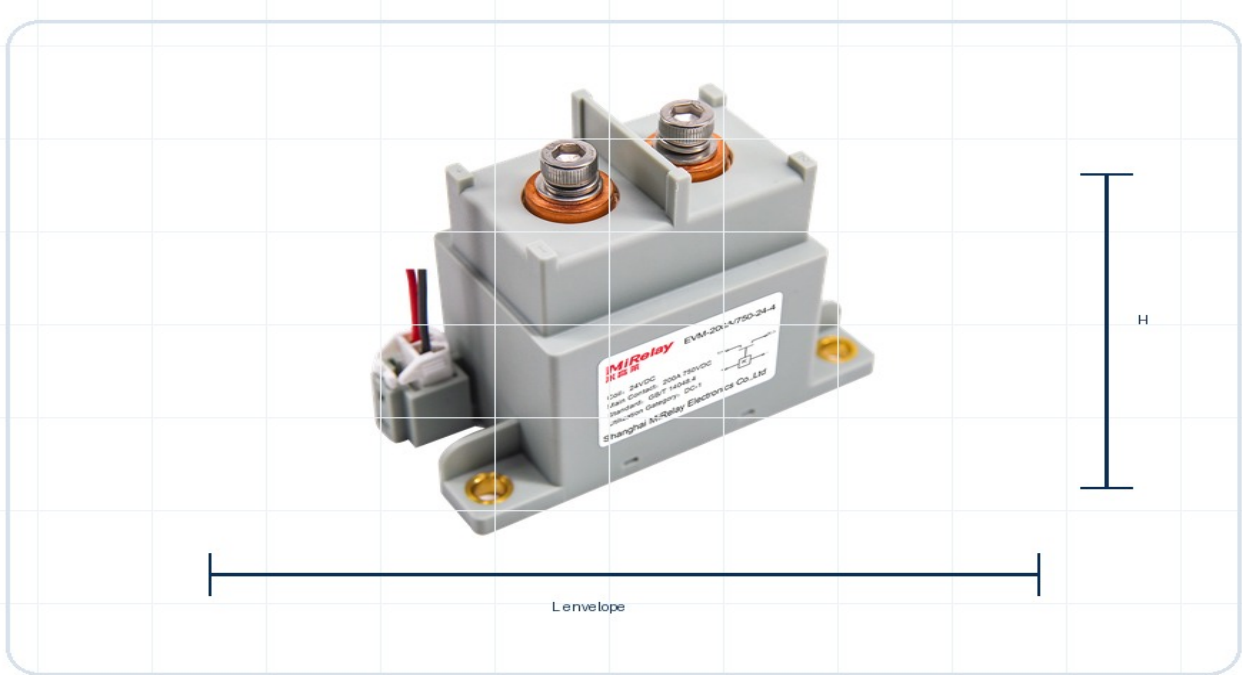


Family Datasheet: High Voltage DC Contactors

Selection catalog and model-code guide for EVI epoxy sealed and EVM ceramic sealed DC contactors.



Reference basis: MiRelay internal product samples, local specification files, product images and public-format review of comparable supplier catalogs such as Pickering, Standex/Meder, Coto, Toward and Littelfuse. Content is rewritten into MiRelay style; exact production ratings and drawings are confirmed by RFQ.

Selection overview

Selection item	What to check
Continuous current	Choose 30 A to 400 A class by thermal rise and conductor design
Voltage system	1000 V / 1500 V DC system selection depends on application and breaking duty
Sealing	Epoxy EVI for compact applications; ceramic EVM for higher duty / harsh DC bus use
Coil/control	12 V / 24 V / 48 V options and economizer/dual-coil behavior by model
Use cases	EV main contactor, precharge, ESS, PV inverter, charger, industrial DC bus

Representative models

Model / series	Selection role
EVI-30A	Representative model / family member for comparison and RFQ discussion. Confirm exact voltage, contact form, package and drawing before ordering.
EVI-100A	Representative model / family member for comparison and RFQ discussion. Confirm exact voltage, contact form, package and drawing before ordering.
EVI-250A	Representative model / family member for comparison and RFQ discussion. Confirm exact voltage, contact form, package and drawing before ordering.

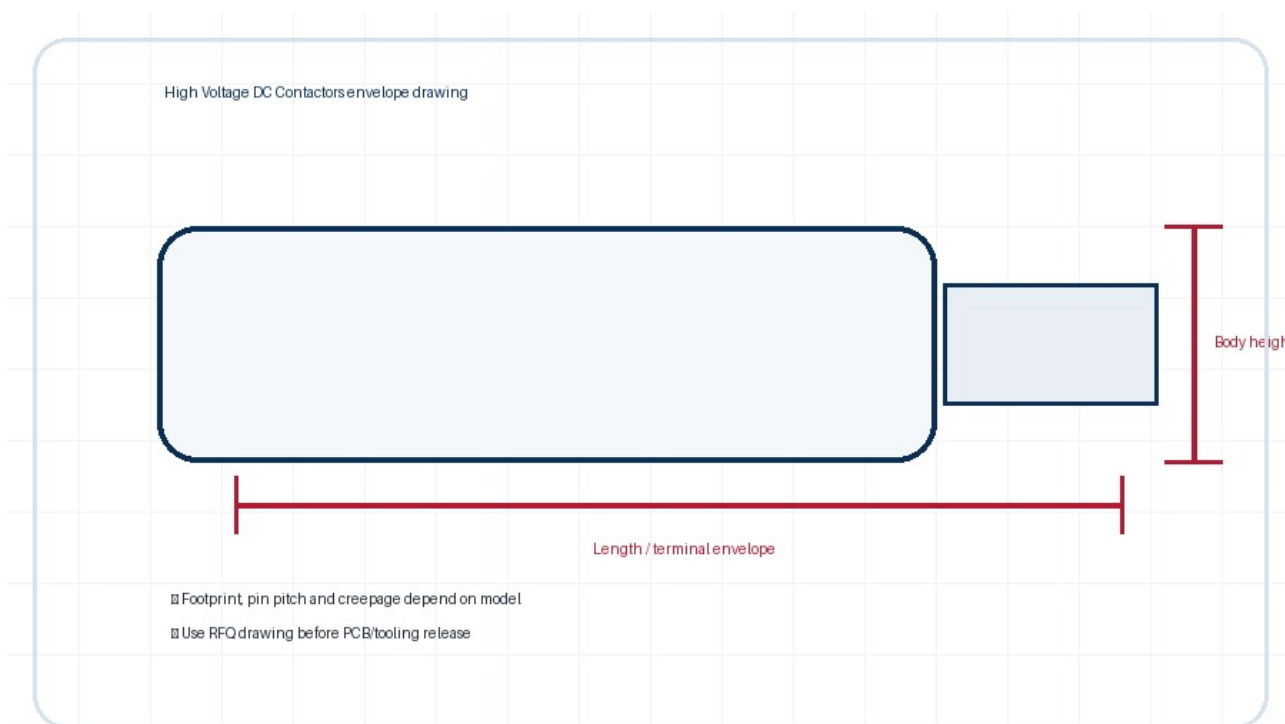
EVI-300A	Representative model / family member for comparison and RFQ discussion. Confirm exact voltage, contact form, package and drawing before ordering.
EVM-40A	Representative model / family member for comparison and RFQ discussion. Confirm exact voltage, contact form, package and drawing before ordering.
EVM-200A	Representative model / family member for comparison and RFQ discussion. Confirm exact voltage, contact form, package and drawing before ordering.
EVM-400A	Representative model / family member for comparison and RFQ discussion. Confirm exact voltage, contact form, package and drawing before ordering.

Ordering code interpretation

Example code: EVM - 200A - 12/24V

Code block	Meaning
EVM	Ceramic sealed high-voltage DC contactor family
200A	Nominal current class
12/24V	Coil/control voltage option
Aux / terminal	Auxiliary contact, polarity and busbar terminals confirmed by drawing

Dimension and drawing guidance



Busbar terminal spacing, mounting hole pattern and arc chamber height must be confirmed from the exact drawing.

Application fit

EV battery disconnect Energy storage system protection PV inverter DC side Megawatt charger switching

RFQ checklist

Send: target model or competitor cross-reference, switching/carry current, voltage, load type, coil/control voltage, contact form/output, mounting limits, environment, sample quantity and annual forecast. Attach PCB/mechanical drawings where available.

Compliance note

For safety-critical, medical, EV, PV or mercury-wetted applications, this guide is not a final approval document. Use the final signed datasheet, drawing and customer validation plan for production release.