

Our focus is on developing and manufacturing high-voltage DC relays, contactors, fuses, and other electrical devices exclusively for EVs, solar energy systems, and energy storage applications. Electric Vehicles. High-voltage DC relays and fuses are key components in ensuring the safety of the battery system.

Why DC and AC Contactors Cannot Be Substituted for One Another? Source: Pinterest. Provided that the rating of the AC contactor is at least 5 times or preferably 6 times than that of the DC contactor. This is primarily due to the ...

A leading manufacturer of long-term energy storage systems was looking for an alternative to gas encapsulated contactors. The solution used so far led to recurring field failures resulting in ...

An increasing number of DC applications, such as battery charge and discharge systems, renewable energy storage etc. require adequate and powerful DC switches. In contrast to AC switching, where zero-crossing of voltage and current facilitates quenching ... the contactor must be able to switch high DC voltages and currents while reducing the ...

main contactor on both positive and negative conductors for many packs in the 12VDC to 1000VDC range at continuous operating currents up to 500A. This can be continuous power levels in the 50kW to 500kW range, including commercial forklifts, buses, trucks, hybrid ships, rail, energy storage and DC fast chargers. It's also suitable as a precharge

400a contactor for high voltage DC switch, gas filled, hermetically sealed, bearing high current and high voltage power. Continuous current 400 amps at DC 12-900Vdc, EVQ Series ... It's widely used as EV contactor in charging station, main contactor in EV, HEV, photovoltaic/ Solar system, energy storage, AGV, UPS, etc. Epoxy sealed. Magnetic ...

o Suitable for use in battery energy storage systems, photovoltaic inverters, warehouse automation, EV charging, DC converter, battery testing equipment, ... TE CONNECTIVITY / INDUSTRIAL / HIGH VOLTAGE DC CONTACTORS 3. Relay Type ECP 40B ECP 150B ECP 250B ECP 350B ECP 600B Features o Gas filled, ceramic hermetically sealed o Maximum ...

HIITIO® was established in 2018 as a result of Hecheng Electric introducing a mature R& D team. HIITIO specializes in producing high-voltage DC electrical devices for EV, solar energy systems, and energy storage applications.

Direct current contactor for DC-1/2/5 to 1000V rating applications - Two normally open main contacts for DC circuits ... Vector Energy and SUNVEC to participate in Solar & Storage Live Barcelona 2024; Vector

Energy signs an agreement with ...

DC Contactor Market valued at \$441 million in 2023 and projected to reach \$846 million by 2032, growing at an 7.8 % CAGR | Analytica Global Home About Us ... The expansion of solar and wind power plants requires efficient DC contactors for energy storage and distribution.

Jennings research has once again enhanced the DC contactor by enabling this new technology to aid in ... from cars, trucks and trains using DC power systems to energy-saving devices like solar inverters and DC charge stations. JEV100-24S-A JEV250-24B-A JEV400-24S-A ... Operating and storage temperature -40° F ~ 185° F (-40° C ~ 85° C ...

GF, GAF and GA contactors are specifically designed for switching DC circuits up to 1500 V. Thanks to the efficient breaking of DC circuits, the product range is one of the most compact on the market for applications such as PV Solar, EV charging, UPS and Energy storage systems. ABBs standard AF contactor range can also be used for switching DC ...

Discover Hiitio's High Voltage DC Contactors: Reliable, high-performance solutions for EV charging, solar energy, and more. Skip to content. WhatsApp +86 132 1617 9977 ... it's the ultimate choice for your Electric vehicle, EV charging, photovoltaic power generation, energy storage system and other HV DC systems. Get A Quote. High Voltage DC ...

Zhejiang Dongya Electronics Co., Ltd. was founded in 1984, is a high-tech enterprise specializing in the research and development, production and sales of high and low voltage DC contactors, relays, shunts, hydraulic circuit breakers, BDUs and other products. We are committed to perfecting energy storage solutions, providing domestic and foreign energy storage customers ...

Home / Electric Vehicle (EV) & ESS / High Voltage DC Relays Contactors Ceramic. High Voltage DC Relays Contactors Ceramic. Built for high performance and reliability, it's the ultimate choice for your Electric vehicle, EV charging, photovoltaic power generation, energy storage system and other HV DC systems. ... energy storage system and ...

Sensata Technologies Introduces GTM400 and GTM500 Bidirectional Contactors for Energy Storage, DC Fast Charging and Heavy-Duty Vehicles. GTM400 and GTM500 contactors can handle applications up to 1500V and are the first products released as a part of Sensata's new GTM contactor family. The products will be showcased for the first time ...

Sensata's Robust High Voltage/High Power Load Break Bi-Directional DC Contactor is the ultimate solution for high voltage power conversion equipment OEMs. ... Energy Storage System; DC fast charging; Photovoltaic controls; Downloads. HX360 Series Contactors Datasheet ... Storage ambient Temperature Range °C ~ °C -55 to +85 -70 to +125. Weight ...

Battery energy storage moving to higher DC voltages For improved efficiency and avoided costs Today, most utility-scale solar inverters and converters use 1500 VDC input from the solar panels. Matching the energy storage DC voltage with that of the PV eliminates the need to convert battery voltage, resulting in greater space efficiency and avoided

Selecting a high voltage DC contactor requires special consideration and attention to the following factors. Determine Voltage and Current Requirements: Determine the voltage and current ratings required for a specific application. Consider switching capacity: HVDC contactors are designed to handle large amounts of power, but their switching capacity may vary by specific model and ...

The production of HIITIO high voltage dc contactors strictly complies with the ISO9001 and IATF16949 systems to ensure product quality. ... Hiitio specializes in producing high-voltage DC electrical devices for EV, solar energy systems, and energy storage applications. CONTACT US. We will contact you within 24 hours; Don't worry, we hate spam ...

DC contactors by Schaltbau are packed with expertise. With excellent isolation parameters they ensure a safe disconnection of the battery unit from the inverter in these storage systems. ...

o Energy storage o Automotive charging infrastructure o DC grids Reliable and flexible o Coil control voltage range of 110 V - 250V AC, ... DC-1 contactor 400A/1000V XTCE400DCM22A MSAA186872 DC-1 contactor 500A/1000V XTCE500DCM22A MSAA186873 DC-1 contactor 600A/1000V XTCE600DCM22A MSAA183315. United States

Civil melting contactors are divided into AC contactors (voltage AC) and DC contactors (voltage DC), which are used in electric power, power distribution and electricity applications. In a broad sense, a contactor refers to an electrical appliance that uses a coil to flow current to generate a magnetic field and close the contact to control the load.

TE Connectivity's (TE) ECP40B High-Voltage DC Contactors are designed for control in high-voltage environments, such as battery energy storage systems, solar inverters, and electric vehicle (EV) charging applications. These contactors are suitable for pre-charge applications and can be used in 1500V DC voltage systems. ECP40B contactors feature ...

ECP Series High Voltage Contactors are designed for battery energy storage systems, photovoltaic inverters, and EV chargers. They are hermetically sealed with ceramic sealing ...

Durakool HVDC contactors spanning the full gamut of currents and voltages from 10A/450VDC to 600A/1000VDC, ... Other applications include energy storage and photovoltaic (solar) power systems. ... High Voltage DC . A magnetic arc blowout ...

Nevertheless, a polarized DC contactor is usually the better choice for HV EV applications of greater than 350

V due to its higher cycle life. More information on this subject and other points of contactor design are available in our application note: "Contactors for High Voltage Electric Vehicles."

ECP Series High Voltage Contactors are designed for battery energy storage systems, photovoltaic inverters, and EV chargers. Rated switching current 150A, 250A, 350A, breaking capability at 1500 VDC They are hermetically sealed with ceramic sealing technology making it safe and reliable, applicable in 1500VDC voltage system.

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How a leading manufacturer of long-term energy storage systems has improved system availability & the total cost of ownership by using Schaltbau contactors. [arrow_back](#). Products. Contactors. ... DC contactors for energy storage. C310 - DC bi-directional switching. 1 pole AC and DC contactor of up to 1,500 volts. Making current up to 2,500 ...

DC contactor C310 - a Schaltbau contactor is fitted in each battery string inverter unit. ... For this reason, a battery storage system for peak shaving is a very attractive investment for energy customers looking to reduce costs. The storage system is also used for primary balancing power, i.e. to compensate for short-term load variations to ...

Designed to IEC specifications, our wide variety of AC and DC contactors in stock range from contactors for low-voltage devices, such as batteries, through to high-voltage power contactors up to 3,000 V and 1,100 A. We develop DC contactors for, among other uses, industrial storage systems, battery test systems, car batteries and electrical bus ...

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