Low-Voltage Switchgear Accessories manufactured by Richge Technology Co., Ltd Summaries and Technical Parameters

I. Product Overview

As a professional manufacturer of low-voltage switchgear accessories, Richge Technology Co., Ltd. (Richge Technology) offers a wide range of product series and models, suitable for low-voltage switchgears of different specifications and application scenarios. With high quality, reliability, and innovative design, and are widely used in power systems, industrial automation, building electrical engineering, and other fields.

The low-voltage switchgear accessories of Richge have the following characteristics:

- **Full-series coverage**: More than 1,000 product types, compatible with various switchgear systems such as MNS, GCS, GCK, R-Blokset, R-Okken, and R-8PT.
- **High reliability**: Strictly compliant with international and domestic standards to ensure stable operation under various working conditions.

1. **Modular design**: Facilitates installation, maintenance, and upgrading.
   - **Strong compatibility**: Compatible with low-voltage switchgears of multiple brands.

II. Main Product Types and Technical Parameters

2.1 Main Circuit Connector Series

Main circuit connectors are core components of low-voltage switchgears, responsible for the electrical connection and mechanical support of the main circuit. Richge

provides a variety of main circuit connector models, suitable for different current ratings and installation requirements.

2.1.1 CJZ6 Series Main Circuit Connectors

The CJZ6 series main circuit connectors are suitable for current ratings from 125A to 630A, with the following features:

- Rated current: 125A, 250A, 400A, 630A
- Rated voltage: AC 660V
- Pole number: 3 poles, 4 poles
- Protection class: IP40 (with protective cover)
- Temperature rise: ≤60K (at rated current)
- Material: Copper alloy conductor, flame-retardant plastic shell
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Rated Current (A)	Pole Number	Protection Class	Application Scenario
CJZ6-125A/3	125	3	IP40	Small drawer cabinets
CJZ6-250A/3	250	3	IP40	Medium drawer cabinets
CJZ6-400A/3	400	3	IP40	Large drawer cabinets
CJZ6-630A/3	630	3	IP40	High-capacity

				circuits
CJZ6-125A/4	125	4	IP40	Three-phase four-wire systems
CJZ6-250A/4	250	4	IP40	Three-phase four-wire systems
CJZ6-400A/4	400	4	IP40	Three-phase four-wire systems
CJZ6-630A/4	630	4	IP40	High-capacity three-phase four-wire systems

2.1.2 CJZ10 Series Main Circuit Connectors

The CJZ10 series main circuit connectors are high-performance products, suitable for scenarios with higher requirements:

- Rated current: 125A, 250A, 400A, 630A
- Rated voltage: AC 660V
- Pole number: 3 poles
- Protection class: IP40 (with protective cover)
- Special design: Equipped with IP40 protective door
- Operation method: Crank-type operation mechanism
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Rated Current (A)	Pole Number	Protection Class	Special Function
CJZ10-125A/3	125	3	IP40	With protective door
CJZ10-250A/3	250	3	IP40	With protective door
CJZ10-400A/3	400	3	IP40	With protective door
CJZ10-630A/3	630	3	IP40	With protective door

2.1.3 CJZ11 Series Dual Connectors

The CJZ11 series dual connectors are suitable for special scenarios requiring dual-circuit connection:

- Rated current: 250A, 400A, 630A
- Rated voltage: AC 660V
- Pole number: 3 poles
- Special design: Dual connectors with valves
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Rated Current (A)	Pole Number	Feature
CJZ11-250A/3	250	3	Dual connectors with valves
CJZ11-400A/3	400	3	Dual connectors with valves
CJZ11-630A/3	630	3	Dual connectors with valves

2.2 Auxiliary Circuit Connector Series

Auxiliary circuit connectors are used for secondary circuit connection to realize control, protection, and signal transmission functions.

2.2.1 JCF10 Series Auxiliary Circuit Connectors

The JCF10 series auxiliary circuit connectors have the following features:

- Rated current: 10A
- Rated voltage: AC 380V/DC 250V
- Number of contacts: 3, 5, 6, 8, 10, 13, 15, 16, 18 points
- Connection method: Plug-in type
- Material: Flame-retardant plastic shell, silver-plated contacts
- Applicable switchgears: Various cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Number of Contacts	Rated Current (A)	Rated Voltage (V)	Application Scene
JCF10-10/3	3	10	AC 380/DC 250	Simple control circuits
JCF10-10/5	5	10	AC 380/DC 250	Medium-complexity control
JCF10-10/6	6	10	AC 380/DC 250	Multi-function control
JCF10-10/8	8	10	AC 380/DC 250	Complex control circuits
JCF10-10/10	10	10	AC 380/DC 250	Multi-function signal transmission
JCF10-10/13	13	10	AC 380/DC 250	Extended control functions
JCF10-10/15	15	10	AC 380/DC 250	Complex signal systems
JCF10-10/16	16	10	AC 380/DC 250	High-integration control systems
JCF10-10/18	18	10	AC 380/DC 250	Ultra-complex control systems

2.2.2 Side-Wiring Auxiliary Circuit Connectors

Side-wiring auxiliary circuit connectors are suitable for special installation requirements that need side connection:

- Rated current: 10A
- Rated voltage: AC 380V/DC 250V
- Number of contacts: 12, 16, 20, 24, 26, 30 points
- Connection method: Side-wiring type
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Number of Contacts	Rated Current (A)	Rated Voltage (V)	Feature
JCF2-6/12	12	10	AC 380/DC 250	Side-wiring
JCF2-8/16	16	10	AC 380/DC 250	Side-wiring
JCF2-10/20	20	10	AC 380/DC 250	Side-wiring
JCF2-12/24	24	10	AC 380/DC 250	Side-wiring
JCF2-13/26	26	10	AC 380/DC 250	Side-wiring
JCF2-15/30	30	10	AC 380/DC 250	Side-wiring

2.3 Operating Mechanism Series

Operating mechanisms are used for pushing, pulling out, and locking drawer-type switchgears to ensure safe and reliable operation.

2.3.1 MD Propulsion Mechanism Series

MD propulsion mechanisms are suitable for drawer units of different sizes:

- Rated current: Determined by application
- Operation method: Manual propulsion
- Structural design: Sturdy and durable
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Applicable Drawer Size	Feature
CXJG-9-69-8	Standard size	Propulsion mechanism
CXJG-9-82-8	Standard size	Propulsion mechanism
CXJG-9-82-10	Standard size	Propulsion mechanism
CXJG-9-119-8	Standard size	Propulsion mechanism
CXJG-9-119-10	Standard size	Propulsion mechanism
CXJG-9-145-10	Standard size	Propulsion mechanism

2.3.2 Swing Handle Series

Swing handles are used for operating and positioning drawers:

- Material: High-quality steel
- Surface treatment: Anti-corrosion treatment
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Application Scenario
CXJG-9 Crank	Swing handle	Drawer operation

2.3.3 F-Type Handle Series

F-type handles are suitable for drawer units of different heights:

- Material: High-strength plastic
- Surface treatment: Anti-slip design
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Applicable Drawer Height
F2 L=65	F-type handle	1-unit drawer
F3 L=80	F-type handle	2-unit drawer

F4 L=120	F-type handle	3-unit drawer

2.4 Busbar Support Series

Busbar supports are used for fixing and supporting busbars to ensure the stability of electrical connections and mechanical strength.

2.4.1 Vertical Busbar Support Series

Vertical busbar supports have the following features:

- Material: High-strength insulating material
- Rated voltage: AC 660V
- Rated current: Determined by busbar specifications
- Applicable busbar sizes: 6×30, 6×40, 6×50, 6×60, 6×80, 6×100, 6×120 mm²
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Applicable Busbar Size (mm)	Material	Feature
ZMJ3-6×30	6×30	High-strength insulating material	Vertical busbar support
ZMJ3-6×40	6×40	High-strength insulating material	Vertical busbar support
ZMJ3-6×50	6×50	High-strength	Vertical busbar

		insulating material	support
ZMJ3-6×60	6×60	High-strength insulating material	Vertical busbar support
ZMJ3-6×80	6×80	High-strength insulating material	Vertical busbar support
ZMJ3-6×100	6×100	High-strength insulating material	Vertical busbar support
ZMJ3-6×120	6×120	High-strength insulating material	Vertical busbar support

2.5 Switchgear Accessory Series

Switchgear accessories include hinges, door locks, guide rails, etc., which ensure the structural integrity and operational convenience of switchgears.

2.5.1 Door Hinge Series

Door hinges are used for connecting and rotating switchgear door panels:

- Material: High-quality steel
- Surface treatment: Anti-corrosion treatment
- Applicable door panel heights: Different models are suitable for door panels of different heights
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Application Scenes
MLBK 300516R	Door Hinge 1	Standard door panels
MLBK 300517R	Door Hinge 2	Standard door panels
MLBK 300518R	Door Hinge 3	Standard door panels
MLBK 300519R	Door Hinge 4	Standard door panels
MLBK 300522R	Door Hinge	Standard door panels
MLBK 300523R	Door Hinge	Standard door panels
MLBK 300525R	Left Door Hinge	Tall door panels (>1m)
MLBK 300526R	Right Door Hinge	Tall door panels (>1m)

2.5.2 Door Lock Series

Door locks are used for the safety protection of switchgears:

- Material: High-quality steel
- Surface treatment: Anti-corrosion treatment
- Applicable switchgears: Standard switchgears such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Feature
MS705 H3	Door Lock	Standard door lock
MS735	Door Lock	Advanced door lock

2.5.3 Guide Rail Series

Guide rails are used for supporting and sliding drawers:

- Material: High-quality steel
- Surface treatment: Anti-corrosion treatment
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Application Scenario
HANL 200022P1G	MNS Left Guide Rail - 420mm	Left guide rail
HANL 200022P2G	MNS Right Guide Rail - 420mm	Right guide rail

2.6 Power Distribution Adapter Series

Power distribution adapters are used for connecting and distributing branch circuits to improve the flexibility and expandability of switchgears.

2.6.1 1/4 Circuit Power Distribution Adapters

1/4 circuit power distribution adapters are suitable for low-capacity branch circuits:

- Rated current: Determined by application
- Connection method: Plug-in type
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Application Scenario
175×549-B-1/4-55S	1/4 Circuit Power Distribution Adapter	Low-capacity branches
175×549-B-1/4-55SC	1/4 Circuit Power Distribution Adapter (Side-wiring)	Low-capacity branches (side-wiring)

2.6.2 1/2 Circuit Power Distribution Adapters

1/2 circuit power distribution adapters are suitable for medium-capacity branch circuits:

- Rated current: Determined by application
- Connection method: Plug-in type
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Application Scenario
175×549-B-283-55S	1/2 Circuit Power Distribution Adapter	Medium-capacity branches
175×549-B-283-55SC	1/2 Circuit Power	Medium-capacity

	Distribution Adapter (Side-wiring)	branches (side-wiring)

2.6.3 Mixed Power Distribution Adapters

Mixed power distribution adapters allow branch circuits of different specifications to be in the same module:

- Rated current: Determined by application
- Connection method: Plug-in type
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Feature
175×549-B - Mixed - 55S	Mixed Power Distribution Adapter	Mixed with multiple specifications
175×549-B - Mixed - 55SC	Mixed Power Distribution Adapter (Side-wiring)	Mixed with multiple specifications (side-wiring)

2.7 Measurement and Display Series

Products in the measurement and display series are used for monitoring and displaying the electrical parameters of switchgears.

2.7.1 Measurement Panel Series

Measurement panels are used for installing measuring instruments and control components:

- Material: High-quality steel
- Surface treatment: Anti-corrosion treatment
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Application Scenario
CFBK-5	Measurement Panel	0.75U height
CFBK-9	1/4 Plastic Panel Strip	Small-size measurement
CFBK-10	1/4 Panel Strip	Small-size measurement
CFBK-9.1	1/4 Plastic Panel Strip	Small-size measurement
CFBK-10.1	1/4 Metal Panel Strip	Small-size measurement
CFBK-7	1/2 Plastic Panel Strip	Medium-size measurement
CFBK-8	1/2 Metal Panel Strip	Medium-size measurement
CFBK-7.1	1/2 Plastic Panel Strip	Medium-size measurement
CFBK-8.1	1/2 Metal Panel Strip	Medium-size measurement

2.8 Other Accessories

In addition to the above main series, Richge also provides a variety of other accessories to meet the different needs of users.

2.8.1 Rubber Fixator Series

Rubber fixators are used for fixing and protecting electrical components:

- Material: High-quality rubber
- Temperature resistance range: -40℃ to +85℃
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Application Scenario
ZSQ-1	MD Rubber Fixator	Component fixation

2.8.2 Aluminum Lower Guide Rail Series

Aluminum lower guide rails are used for supporting and guiding drawers:

- Material: Aluminum alloy
- Surface treatment: Anodization
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Length
XDG2-1	Aluminum Lower Guide Rail	375mm

2.8.3 Shaft Series

Shafts are used for connection and transmission:

- Material: High-quality steel
- Surface treatment: Anti-corrosion treatment
- Applicable switchgears: Standard cabinets such as MNS, GCS, GCK, OKKEN, BLOKSET, and 8PT

Model	Description	Size
DXZ-3	SL - Guide Shaft	8×8L=150

III. Product Selection Guide

3.1 Selection of Main Circuit Connectors

The following factors should be considered when selecting main circuit connectors:

1. Rated current: Select the appropriate rated current level based on the maximum operating current of the circuit.

2. Pole number: Choose 3 poles or 4 poles according to system requirements.
3. Installation method: Select the appropriate installation method based on the switchgear structure.
4. Protection class: Choose the appropriate protection class according to the application environment.

3.2 Selection of Auxiliary Circuit Connectors

The following factors should be considered when selecting auxiliary circuit connectors:

1. Number of contacts: Select the appropriate number of contacts based on the complexity of the control circuit.
2. Rated voltage/current: Choose the appropriate rated value according to the parameters of the secondary circuit.
3. Connection method: Select plug-in type or side-wiring type based on the installation position.
4. Protection class: Choose the appropriate protection class according to the application environment.

3.3 Selection of Operating Mechanisms

The following factors should be considered when selecting operating mechanisms:

1. Drawer size: Select the appropriate operating mechanism based on the drawer height.
2. Operation method: Choose manual or electric operation according to user habits.
3. Environmental conditions: Select the appropriate protection class according to the application environment.

3.4 Selection of Busbar Supports

The following factors should be considered when selecting busbar supports:

1. Busbar size: Select the appropriate support based on the specifications of the busbar.
2. Installation method: Select the appropriate installation method based on the switchgear structure.
3. Rated voltage: Choose the appropriate rated voltage level according to the system voltage.

IV. Technical Standards and Certifications

The low-voltage switchgear accessories of Richge strictly comply with the following standards and specifications:

- GB/T 7251.1-2013 *Low-Voltage Switchgear and Controlgear - Part 1: Type-Tested and Partially Type-Tested Assemblies*
- GB/T 7251.5-2011 *Low-Voltage Switchgear and Controlgear - Part 5: Special Requirements for Assemblies for Power Distribution in Public Networks*
- IEC 61439-1 *Low-Voltage Switchgear and Controlgear - Part 1: General Rules*
- IEC 61439-2 *Low-Voltage Switchgear and Controlgear - Part 2: Power Switchgear and Controlgear Assemblies*
- Other relevant industry standards and specifications

V. Product Advantages and Application Scenarios

5.1 Product Advantages

The low-voltage switchgear accessories of Richge have the following advantages:

1. **High quality**: Adopting high-quality materials and advanced manufacturing processes to ensure reliable product quality.
2. **Modular design**: Facilitates installation, maintenance, and upgrading, and reduces system costs.
3. **Strong compatibility**: Compatible with low-voltage switchgears of multiple brands to improve system flexibility.
4. **Innovative design**: Continuously launching new products and solutions to meet market demands.
5. **Comprehensive product range**: More than 1,000 product types covering various application scenarios.

5.2 Application Scenarios

The low-voltage switchgear accessories of Richge are widely used in the following fields:

1. **Power systems**: Substations, distribution stations, switch stations, etc.
2. **Industrial automation**: Factory automation control systems, production line equipment, etc.
3. **Building electrical engineering**: Commercial buildings, residential buildings, public facilities, etc.
4. **Infrastructure**: Transportation hubs, water conservancy facilities, municipal engineering, etc.
5. **Special environments**: Mines, oil fields, chemical industry, marine environments,

etc.

VI. Ways to Obtain Product Manuals

To obtain the detailed product manuals of Richge's low-voltage switchgear accessories, you can use the following methods:

1. **Visit the company's official website**: Log in to Richge's official website (https://www.richgeswitchgear.com/), and find the relevant product manuals in the technical support or download center section.
2. **Contact the sales department**: Contact the sales department through the contact information provided on the official website to obtain the product manuals.
3. **Send an email**: Send an email to sales@switchgearcn.net, specifying the name and model of the required product manual.
4. **Online consultation**: Use the online consultation function on the official website to apply for the product manuals.

VII. Summary

As a professional manufacturer of low-voltage switchgear accessories, Richge provides a comprehensive product range, covering main circuit connectors, auxiliary circuit connectors, operating mechanisms, busbar supports, power distribution adapters, measurement and display series, and other series, with more than 1,000 product types. These products have the advantages of high quality, modular design, and strong compatibility, and are widely used in power systems, industrial automation, building electrical engineering, and other fields.

Choosing the low-voltage switchgear accessories of Richge not only ensures access to high-quality products but also provides professional technical support and comprehensive after-sales services, offering reliable protection for your power system.

For more product information, please visit Richge's official website or contact our sales team.