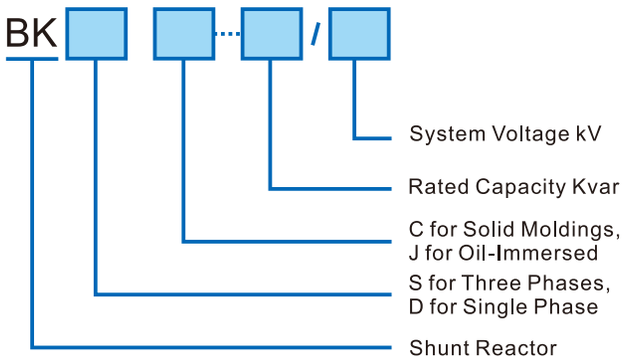
Iron Core Reactor

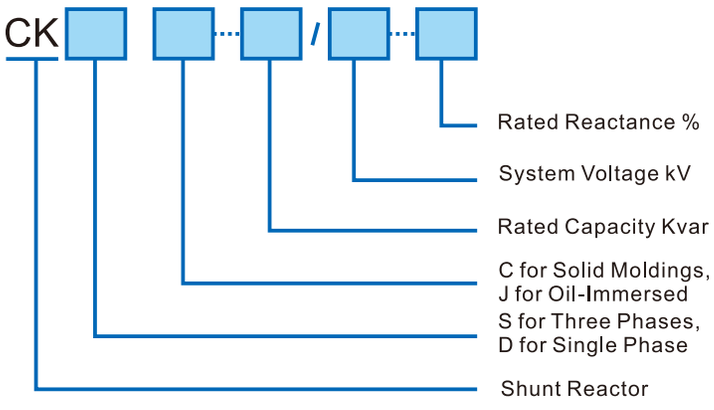
Introduction

Beijing Power Equipment Group Co., Ltd. (BPEG) is the earliest domestic iron core reactors manufacturer, and has accomplished development of serialized products of 34 specifications including resin-cast dry-type iron-core reactors, oil-immersed iron-core shunt reactors, etc. We're leading in designing methods, manufacturing level, and testing capabilities in this industry.

The first 35kV 15000kvar dry-type iron-core shunt reactors with the maximum capacity developed independently by BPEG has passed the product certification of China Electric Power Research Institute. The product is proved to be stable in operation with low noise, and temperature rise is superior to the national standard.

Model Definition





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Characteristics

According to different insulation methods, iron core reactors are divided into resin-cast dry-type and oil-immersed-type. Based on coil arrangements, iron core reactors have two forms of three-phase in a line and three-phase in a triangle. Oil-immersed reactor achieves voltage level of 110kV, while voltage level of resin-cast dry-type reactors is under 35kV.

Dry-type Iron Core Reactor

They adopt the epoxy cast insulation system with no oil medium. This type of reactors suits indoor transformer substation in cities with their advantages of small vibration during operation, low noise, small size, light weight, and nice appearance.

Oil-Immersed Iron Core Reactor

Strengths include small size, nice appearance, low loss, economical, no electromagnetic pollution to the surroundings, low noise,low vibration, low temperature rise, great adaptability to surroundings, and suitable for outdoors.

Projects

Zhanjiang 500kV Donghaidao Substation (BKSJ–60000/35)

Zhejiang Hangzhou 220kV Yueya Substation (BKSC–10000/35)

Hunan Changsha 220kV Dongtundu Substation (CKSC–480/10–12)

Shanxi Yuci 500kV Substation (CKSQ–7200/35)

Achievements

Project	Customer	Model	Quantity	Year
Beijing Wenquan, Yongding, Yuanda Substation Project	State Grid Beijing Electric Power Corporation	Dry-type Iron-Core Shunt Reactor	20	2013
Shenzhen 220kV Minsheng Substation Project	Shenzhen Power Supply Bureau Co., Ltd.	Dry-type Iron-Core Shunt Reactor	4	2014
Linyi 220kV Transmission and Distribution Project	Shandong Electric Power Company Materials Company	Dry-type Iron-Core Shunt Reactor	6	2014
Guanyinyan Power Station DC Project	Yunnan Power Grid Company	Oil-Immersed Iron-Core Shunt Reactor	4	2014
Jiangsu 500kV Substation Project	Jiangsu Province Electric Power Company Material Supply Company	Oil-Immersed Iron-Core Shunt Reactor	9	2015