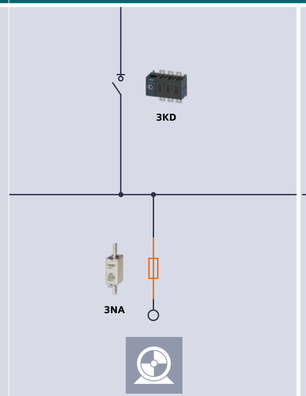
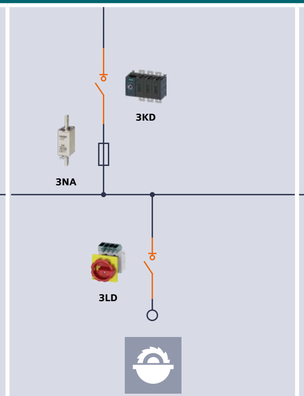
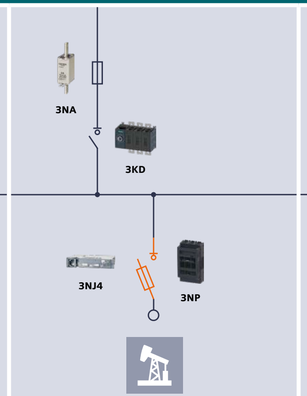
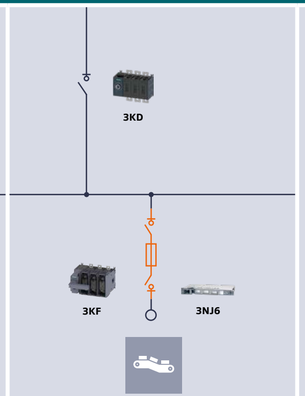
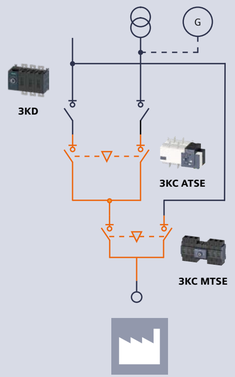
The ideal system protection for every requirement

Possibilities of electrical construction						
		Protection without switch function	**Switch without protection**	**Switch (single-counting) with protection function**	**Switch (double breaker) with protection function**	**Change**
Product description		Fuse holders and fuse links	Switch disconnectors	Fuse switch disconnectors	Switch disconnectors with fuses	Transfer switching equipment
Functions	**Protection function**	■	–	■	■	–
	Switching function	–	■	■	■	■
		If switching and disconnection is not required	If protection is performed in the higher-level distribution	Occasional switching and protection in one device	Frequent switching and protection in one device	Mains or load switching in one device
Business areas		**Infrastructure – Commercial buildings – Industry**				
Example						
		Motor protection	Switching of portable machines (e.g. woodworking machine)	Protection of secondary aggregates for occasional switching (e.g. oil pumps)	Protection and switching of serial machines	Switching between two networks with particularly critical loads (e.g. with additional ATSE bypass)
Further typical applications		Cable and line protection	OEM and Mechanical engineering	Supply of a control cabinet	Power outlets in motor control centers	Cold stores
		Converter and soft starter protection (SITOR)	Power disconnector for maintenance purposes	Main fuse in machine connection boxes	Airports and train stations	Pumps

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The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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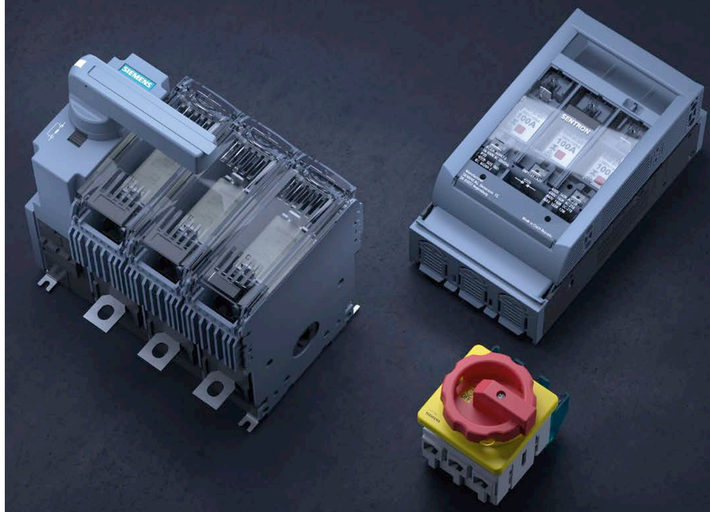
QUICK SELECTION GUIDE

Switch disconnectors and transfer switching equipment

siemens.com/switching-devices



End-to-end safety for users and systems

The ideal system protection for every requirement
Safely disconnecting electrical systems from the power grid is essential to protecting humans as well as the systems themselves. We offer you a comprehensive portfolio of SENTRON switching devices for safe, standardcompliant, and efficient switching of electrical equipment. Humans are protected at all times from electrical accidents, and electrical systems are reliably protected from damage. You benefit additionally from a flexible and more productive engineering process.

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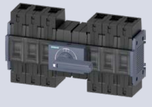
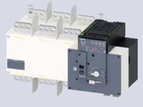
Information	Planning/ Ordering	Operation/ Service	Training

Siemens SENTRON portfolio of switch disconnectors and transfer switching equipment

	Switch disconnectors					Fuse switch disconnectors		Switch disconnectors with fuses			Transfer switching equipment		
Switching characters													
SENTRON Portfolio of switch disconnectors and transfer switching equipment	**3KD switch disconnectors**	**3VA1 switch disconnectors in MCCB design**	**3LD2 main control and EMERGENCY-STOP switches**	**3LD3 main control and EMERGENCY-STOP switches**	**3LD5 UL main control and EMERGENCY-STOP switches**	**3NP1 fuse switch disconnectors**	**3NJ4 fuse switch disconnectors**	**3KF switch disconnectors with fuses**	**3KF SITOR switch disconnectors with fuses**	**3NJ6 switch disconnectors with fuses**	**Manually operated transfer switching equipment (3KC MTSE)**	**Remotely operated transfer switching equipment (3KC RTSE)**	**Automatic transfer switching equipment (3KC ATSE)**
													
Rated current I_n	16 ... 1600 A	63 ... 250 A	16 ... 250 A	16 ... 63 A	30 ... 150 A	63 ... 630 A	160 ... 2000 A	32 ... 800 A	32 ... 800 A	160 ... 630 A	16 ... 1600 A	40 ... 3200 A	40 ... 3200 A
Number of poles	3/4/6-pole	3/4-pole	3/4/6-pole	3/4-pole	3/4-pole	1-pole ... 4-pole	3-pole	3/4-pole	3-pole	3/4-pole	3/4-pole	3/4-pole	3/4-pole
Max. rated impulse withstand voltage U_{imp}	12 kV	8 kV	6 kV	6 kV	6 kV	8 kV	12 kV	12 kV	12 kV	8 kV	12 kV	12 kV	12 kV
Product standards	IEC 60947-3, IEC 60947-1, VDE 0660-107	IEC 60947-2, IEC 60947-3, VDE 0660-101, VDE 0660-107	IEC 60947-3, IEC 60947-1, VDE 0660-107, UL 508	IEC 60947-3, IEC 60947-1, VDE 0660-107, UL 508	UL489, UL 60947-4-1, IEC 60947-3, IEC 60947-1, VDE 0660-107	IEC 60947-3, IEC 60947-1, VDE 0660-107	IEC 60947-3, IEC 60947-1, VDE 0660-107	IEC 60947-3, IEC 60947-1, VDE 0660-107	IEC 60947-3, IEC 60947-1, VDE 0660-107	IEC 60947-3, IEC 60947-1, VDE 0660-107	IEC 60947-6-1, IEC 60947-3, VDE 0660-114, VDE 0660-107	IEC 60947-6-1, IEC 60947-3, VDE 0660-114, VDE 0660-107	IEC 60947-6-1, IEC 60947-3, VDE 0660-114, VDE 0660-107
Max. rated conditional short-circuit current	100 kA	2 kA	50 kA	6 kA	65 kA	120 kA	120 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
Type of electrical connection	Box terminal, flat terminal	Box terminal, flat terminal	Box terminal	Box terminal	Box terminal	Box terminal, flat terminal	Box terminal, flat terminal, V terminal connection, stud connector	Box terminal, flat terminal	Box terminal, flat terminal	Flat terminal, V terminal connection	Box terminal, flat terminal	Box terminal, flat terminal	Box terminal, flat terminal
Switching frequency • **for occasional use** • **for frequent or actuated operation**	■ ■	■ ■	■ ■	■ ■	■ ■	■ –	■ –	■ ■	■ ■	■ ■	■ ■	■ ■	■ ■
Suitable for fuse links	fuseless	fuseless	fuseless	fuseless	fuseless	NH000 up to NH3 *	NH000 up to NH4 *	NH000 up to NH3 *	SITOR fuse links in LV HRC design NH00 up to NH3 *	NH000 up to NH3 *	fuseless	fuseless	fuseless
Mounting	Floor mounting, standard mounting rail	Floor mounting, standard mounting rail	Floor mounting, front mounting, insulated enclosure with/ without EMC plate	Floor mounting, standard mounting rail, front mounting	Floor mounting, standard mounting rail, front mounting	Floor mounting, standard mounting rail, mounting on busbar systems	Mounting on busbar for 60 mm, 100 mm, 185 mm	Floor mounting, standard mounting rail	Floor mounting, standard mounting rail	Draw-out technology for 185 mm busbar system	Floor mounting, standard mounting rail	Floor mounting, standard mounting rail	Floor mounting, standard mounting rail
Additional information	LV10 Chapter 8	LV10 Chapter 2	LV10 Chapter 8	LV10 Chapter 8	LV10 Chapter 8	LV10 Chapter 7	LV10 Chapter 7	LV10 Chapter 7	LV10 Chapter 7	LV10 Chapter 7	LV10 Chapter 8	LV10 Chapter 8	LV10 Chapter 8

* Applicable fuses for fuse switch disconnectors and switch disconnectors with fuses: NH000 to NH4/4a, characteristics gG and aM, 2 to 1,250 A, to AC 690/DC 440 V. Comprehensive range of these and other fuse links as well as fuse holders: LV10 Chapter 5