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## Low-Voltage Power Distribution and Electrical Installation Technology

Transfer Switching Equipment and Load Transfer Switches

Catalog Extract LV 10 Edition 04/2019

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Low-Voltage Power Distribution and LV 10 Electrical Installation Technology SENTRON • SIVACON • ALPHA Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems PDF (E86060-K8280-A101-A9-7600) Print (E86060-K8280-A101-A6-7600)	The second	Catalog PDF Digital versions of the catalogs are available in the Siemens Industry Online Support.
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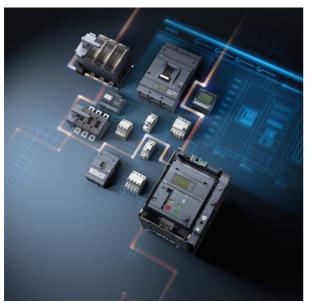
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## Low-Voltage Power Distribution and Electrical Installation Technology Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems

Protection, Switching, Measuring and Monitoring Devices

Switchboards and Distribution Systems

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Catalog LV 10 · 04/2019

You can find the updated catalog valid from October 2019 in the Siemens Industry Online Support under www.siemens.com/lowvoltage/catalogs

Supersedes: Catalog LV 10 · 10/2018

Refer to the Industry Mall for current prices: www.siemens.com/industrymall

The products in this catalog can also be found in the Interactive Catalog CA 01: www.siemens.com/ca01download

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The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with EN ISO 9001:2008.

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### **Opening Information**

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#### Overview

#### Ordering special versions

When ordering products that differ from the standard versions listed in the catalog, "-Z" must be added to the Article No. indicated and the required features must be specified using alphanumeric order codes or plain text.

Explanations of Selection and ordering data

#### Ordering very small quantities

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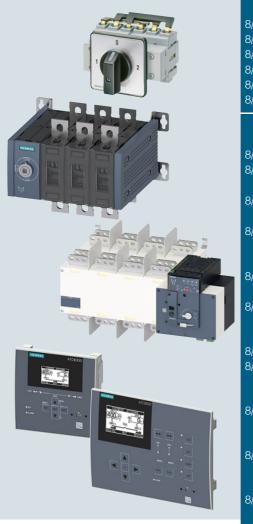
When very small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than  $\notin$  250 we charge a  $\notin$  20 supplement to cover our order processing and invoicing costs.

#### Standard delivery time (SD) Preferred type Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours. Price units (PU) The price unit defines the number of units, sets or meters to which the specified price applies. Packaging size (PS) The packaging size defines the number of units, sets or meters, for example, for outer packaging Only the quantity defined by the packaging size or a multiple thereof can be ordered. Price group (PG) Each product is allocated to a price group Example 5TT3400 SD Article No Price PU PS' PG SD: Preferred type per PU (UNIT, PG 13C Ordering quantity 1 unit or a multiple thereof SÈT, M) d 5TT3400 1 unit 1BK 1 8US1923-5CA02 10 units 1CU 8US1923-5CA02 1 8WH9000-1GA00 100 50 units 1BT PG: 140 Ordering quantity 10 units or a multiple thereof Note: 8WH9000-1GA00 The article numbers shown here and the specifications regarding PG: 12X selection and ordering data are examples only. When ordering, always Ordering quantity 50 units or a multiple thereof use the selection and ordering data in the product chapters. Metal surcharges/export markings To compensate fluctuating prices of raw materials Each product's metal factor dictates for which raw materials the metal (for example silver, copper, aluminum, lead, gold, surcharges are calculated, from which quotation and with which dysprosium and neodymium), surcharges are calculation method (weight or percentage method) calculated on a daily basis for products containing An exact explanation of the metal factor can be found at: these raw materials using the metal factor. www.siemens.com/automation/salesmaterial-as/catalog/en/ A surcharge for the particular raw material is added terms of trade en.pdf to the price of a product if the basic quotations for A product's export markings/metal surcharges are updated daily at this raw material are exceeded

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### **Transfer Switching Equipment and Load Transfer Switches**





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	(RTSE) and 3KC8 (ATSE)
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-50	Accessories and spare parts

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Introduction

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- 3KC ATC6300 transfer control
- device NEW
- 8/64 3KC ATC6500 transfer control device **NEW**
- 8/65 Accessories for 3KC ATC6300 and ATC6500 transfer control devices
  - 3KC ATC3100 transfer control device

For further technical product information: Configuration Manual

Switch disconnectors Article No.: 3ZW1012-3NP11-0AC1

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→ Entry type: Application example Certificate Characteristic Download FAQ Manual Product note Software archive Technical data

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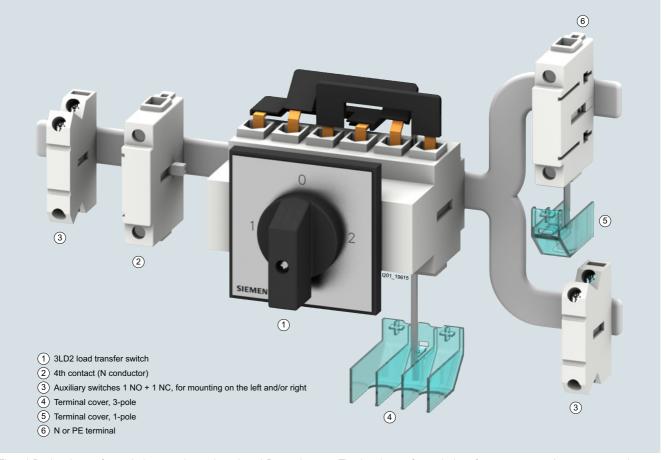
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#### **Transfer Switching Equipment and Load Transfer Switches**

3LD2 Load Transfer Switches up to 250 A

#### Introduction

#### Overview



The 3LD2 load transfer switches are based on the 3LD2 main control and EMERGENCY-STOP switches and are manually operated switch disconnectors according to IEC 60947-3 / VDE 0660 Part 107 (EN 60947-3) and comply with the conditions for switch disconnectors.

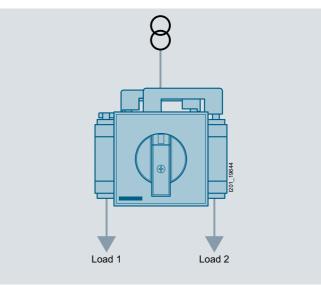
#### Application

The 3LD2 load transfer switches are used for alternate switching between two loads with an incoming power supply. They have the switch position I-0-II which means that one of the two loads can be switched on alternately. This means it is possible to switch between two three-phase motors and other loads.

The load transfer switches from 25 to 250 A are approved according to UL 508 and can be used as "manual motor controllers" and "motor disconnects".

In addition, the 3LD load transfer switches have CCC certification.

#### Load transfer (schematic representation)



Load transfer switches (IEC 60947-3)

3LD2 Load Transfer Switches up to 250 A

Technical features

### Technical specifications

Rated insulation voltage $U_i$ V6Rated operational voltage $U_e$ V AC66Rated operational voltage $U_{imp}$ kV6Rated impulse withstand current (1 s current, rms value)A64Short-circuit protection, max. back-up fuse (gL)A22Rated conditional short-circuit current with upstream fuses at 690 V AC 50/60 HzkArms56Maximum permissible let-through $I^2t$ valuekA^2s4Permissible let-through current of the fusekA3.Rated uninterrupted current $I_u$ A22AC-21A load-break switchRated operational current $I_e$ A2.23 motr load switchRating At 220 240 VkWNc -23A main control switchRating At 380 440 VkWRepair switchRating At 660/690 VKWPower loss per current path at $I_e$ W1.Endurance mechanicalOperating cycles10Switching frequency1/h50Solid or strandedCu cableAWGFinely stranded with end sleeve (max.)Cu cableAWGConductor cross-sections for main conductors $^1$ 22Solid or strandedCu cableAWGInductor protection according to EN 50274VAuxiliary switchesAt 120 VARated operational current $I_u$ A10Rated operational current $I_u$ A10Rated operational current $I_u$ A10Rated operational current $I_u$ A10Rated in	DIN VDE 0660, IEC 60947								
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Permissible ambient temperature       °C       -2         Isolating features       Up to max.       V       68         Conductor cross-sections for main conductors <sup>1)</sup> mm <sup>2</sup> 1         Solid or stranded       mm <sup>2</sup> 1         Finely stranded with end sleeve (max.)       mm <sup>2</sup> 1         Conductor cross-sections       Cu cable       AWG       14         Torque for terminal       Nm       2       10         Touch protection according to EN 50274       Ye       4         Auxiliary switches       Rated insulation voltage $U_{\rm I}$ V       50         Rated operational voltage $U_{\rm e}$ V AC       50         Rated operational current $I_{\rm u}$ A       10         Rated operational current $I_{\rm e}$ , AC-15       At 120 V       A       3         At 380 415 V       A       1       At 380 415 V       A       1         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       10	100 000								
Isolating features       Up to max.       V       65         Conductor cross-sections for main conductors <sup>1)</sup> mm <sup>2</sup> 1.         Solid or stranded       mm <sup>2</sup> 1.         Finely stranded with end sleeve (max.)       mm <sup>2</sup> 1.         Conductor cross-sections       Cu cable       AWG       14         Torque for terminal       Nm       2         Touch protection according to EN 50274       Ye         Auxiliary switches       Ye       50         Rated insulation voltage $U_{l}$ V       50         Rated operational voltage $U_{e}$ V AC       50         Rated operational current $I_{u}$ A       10         Rated operational current $I_{e}$ , AC-15       At 120 V       A       3         At 380 415 V       A       1.       At 500 V       A       1.         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       10	50								
Conductor cross-sections for main conductors <sup>1)</sup> mm <sup>2</sup> 1.         Solid or stranded       mm <sup>2</sup> 1.         Finely stranded with end sleeve (max.)       mm <sup>2</sup> 10         Conductor cross-sections       Cu cable       AWG       14         Torque for terminal       Nm       2         Touch protection according to EN 50274       Ye         Auxiliary switches       Ye         Rated insulation voltage $U_i$ V       50         Rated operational voltage $U_e$ V AC       50         Rated operational current $I_u$ A       10         Rated operational current $I_e$ , AC-15       At 120 V       A       3         At 380 415 V       A       1.       At 500 V       A       1.         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       10	-25 +55								
Solid or stranded $mm^2$ 1.         Finely stranded with end sleeve (max.) $mm^2$ 1.0         Conductor cross-sections       Cu cable       AWG       1.4         Torque for terminal       Nm       2         Touch protection according to EN 50274       Yet         Auxiliary switches       Yet         Rated insulation voltage $U_i$ V       50         Rated operational voltage $U_e$ V AC       50         Rated operational current $I_u$ A       10         Rated operational current $I_e$ , AC-15       At 120 V       A       3         At 220 240 V       A       3       1.         At 380 415 V       A       1.       1.         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       10	690								
Finely stranded with end sleeve (max.) $mm^2$ 10         Conductor cross-sections       Cu cable       AWG       14         Torque for terminal       Nm       2         Touch protection according to EN 50274       Yet         Auxiliary switches       Yet         Rated insulation voltage $U_i$ V       50         Rated operational voltage $U_e$ V AC       50         Rated operational voltage $U_e$ V AC       50         Rated operational current $I_e$ , AC-15       At 120 V       A       10         Rated operational current $I_e$ , AC-15       At 120 V       A       3       11         Rated operational current $I_e$ , AC-15       At 120 V       A       3       1         Rated operational current $I_e$ , AC-15       At 120 V       A       3       1         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       1									
Torque for terminal       Nm       2         Touch protection according to EN 50274       Ye         Auxiliary switches       Ye         Rated insulation voltage $U_i$ V       50         Rated operational voltage $U_e$ V       50         Rated operational current $I_u$ A       10         Rated operational current $I_e$ , AC-15       At 120 V       A       6         At 220 240 V       A       3       1         At 380 415 V       A       1       1         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       1	1.5 16 10	1.5 16 10	2.5 35 16	4 50 35	16185 150	16 185 150			
Touch protection according to EN 50274       Ye         Auxiliary switches         Rated insulation voltage $U_i$ V       50         Rated insulation voltage $U_i$ V       50         Rated operational voltage $U_e$ V AC       50         Rated operational voltage $U_e$ V AC       50         Rated operational current $I_u$ A       10         Rated operational current $I_e$ , AC-15       At 120 V       A       3         At 220 240 V       A       3         At 380 415 V       A       1         At 500 V       A       1         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       10	14 8	14 8	14 6	12 1					
Auxiliary switches       V       50         Rated insulation voltage $U_i$ V       50         Rated operational voltage $U_e$ V AC       50         Rated uninterrupted current $I_u$ A       10         Rated operational current $I_e$ , AC-15       At 120 V       A       3         At 220 240 V       A       3       At 380 415 V       A       1         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       10	2 2.5	2 2.5	2.5 3	2.5 3	9.5 10	9.5 10			
Rated insulation voltage $U_i$ V       50         Rated operational voltage $U_e$ V AC       50         Rated uninterrupted current $I_u$ A       10         Rated operational current $I_e$ , AC-15       At 120 V       A       3         At 220 240 V       A       3         At 380 415 V       A       1.         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       10	Yes								
Rated operational voltage $U_e$ V AC       50         Rated uninterrupted current $I_u$ A       10         Rated operational current $I_e$ , AC-15       At 120 V       A       30         At 220 240 V       A       3       3       3       3       1         Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)       A       10       10									
Rated uninterrupted current $I_{u}$ A10Rated operational current $I_{e}$ , AC-15At 120 VA6At 220 240 VA3At 380 415 VA1At 500 VA1Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)A10	500								
Action         Action<	500								
At 220 240 V         A         3           At 380 415 V         A         1.           At 500 V         A         1.           Short-circuit protection, aux. switch, max. back-up fuse (gL/gG)         A         10	10								
Conductor cross-sections for auxiliary conductors	10								
Connection type So	Screw termi	inals							
	2 × (0.75 2 × (0.75								
Torque for terminal Nm 0.	0.8								

 Depending on the cable infeed, only small cross-sections are possible with devices in molded-plastic enclosures.

3LD2 Load Transfer Switches up to 250 A

#### **Technical features**

#### 3LD switches for UL/CSA as "manual motor controllers" 1)

Standards			UL/CSA					
Switches		Туре	3LD21	3LD22	3LD25	3LD27	3LD23	3LD24
Rated operational voltage $U_{\rm e}$ Rated uninterrupted current $I_{\rm u}$	Current rating Pilot duty	V AC A	600 20 A 600 P 600	600 30 A 600 P 600	600 60 	600 100  	600 160 	600 250  
Conventional thermal current Ith	,	А	25	32	63	100	160	250
Maximum rated power (AC-3) Alternating current motors 40 60 Hz (HP = PS)	3 ~ 120 V 240 V 480 V 600 V	HP HP HP HP	3 7.5 10 15	3 10 (7.5) <sup>2)</sup> 20 (15) <sup>2)</sup> 30 (20) <sup>2)</sup>	5 15 40 50	10 30 60 75	 40 75 75	 50 100 75
	1 ~ 120 V 240 V	HP HP	2 3	2 3	3 10			
Conductor cross-sections Cu cable Torque			14 8 2 2.5	14 8 2 2.5	14 6 2.5 3	12 1 2.5 3	1 MCM 10	400

 The 3LD switches for UL/CSA are approved in accordance with UL/CSA as "manual motor controllers", and they can be used as repair switches in the molded-plastic enclosure, for example. However, they do not have UL approval as main control switches.

<sup>2)</sup> Values in brackets apply to devices in molded-plastic enclosure.

3LD2 Load Transfer Switches up to 250 A

Front mounting

	Number and contacts	version of the	Rated data 50 60 Hz	at , 380 440 V		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Main contact elements	Aux. cont. elements	P/AC-3	P/AC-23A	I <sub>u</sub>				,		
			kW	kW	А	d					
		witches with rated mecha		erating mechan	ism						
	<ul> <li>Black actual</li> </ul>	ator									
	- on 3LD23 shackle c	ated mechanis 3, 3LD24 lockal liameter from 4 er versions nor	ble with up to to 6 mm	3 padlocks,							
	Degree of r	protection at fro	ont side IP65								
	о ,	ars already pre									
Four-hole mountir		,									
	3		7.5	9.5	25		3LD2123-7UK01		1	1 unit	1C
-1-7-13,51-			9.5	11.5	32		3LD2223-7UK01		1	1 unit	1C
0	1		18.5	22.0	63		3LD2524-7UK01		1	1 unit	1C
1.000			30.0	37.0	100		3LD2724-7UK01		1	1 unit	1C
	İ		50	75	160		3LD2305-7UK01		1	1 unit	1CI
area			110	132	250		3LD2405-7UK01		1	1 unit	1CI
3LD2123-7UK01	3 + N		50	75	160		3LD2305-7UL01		1	1 unit	1C
A P P R R P P P	0111		110	132	250		3LD2405-7UL01		1	1 unit	1C
			. 10	102	200				1	, unit	10

3LD2405-7UL01

3LD2 Load Transfer Switches up to 250 A

#### Floor mounting

Selection and orde	ering data										
	Number and version of the contacts			Rated data at SD 50 Hz 60 Hz, 380 V 440 V				Price er PU	PU (UNIT, SET, M)	PS	PG
	Main contact elements	Aux. cont. elements	P/AC-3	P/AC-23A	I <sub>u</sub>						
			kW	kW	А	d					
	Transfer switc mechanism	hes with do	or-coupling	rotary opera	ating						
	<ul> <li>Lockable in 0 p shackle diameter</li> </ul>										
	<ul> <li>Handle and cov</li> </ul>	ver black									
	<ul> <li>Door-coupling r</li> </ul>	otary operating	g mechanism a	as a knob							
	<ul> <li>Degree of prote</li> </ul>	ction at front s	ide IP65								
	<ul> <li>Bridging bars a</li> </ul>	Iready pre-mou	unted								
Four-hole mounting	g										
	3		50	75	160		3LD2318-7UK01		1	1 unit	1CL
			110	132	250		3LD2418-7UK01		1	1 unit	1CL
	3 + N		50	75	160		3LD2318-7UL01		1	1 unit	1CL
· finition			110	110 132 250			3LD2418-7UL01		1	1 unit	1CL
R											

3LD2 Load Transfer Switches up to 250 A

Molded-plastic enclosures

Selection and order	ring data											
			Base terminal	50 60	50 60 Hz, v			Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Main contac elements	Aux. contact elements		P/AC-3	P/AC-23A	I <sub>u</sub>						
				kW	kW	А	d					
	Transfer s (knob-ope	witches with rated mecha	direct o <sub>l</sub> nism)	perating	mechanis	sm						
	<ul> <li>With N and</li> </ul>	I PE base termi	nal									
	<ul> <li>Black actu</li> </ul>	ator										
		n 0 position with ameter from 4 to			32 A)							
	<ul> <li>Metric screet</li> </ul>	ew connection										
	<ul> <li>Degree of</li> </ul>	protection IP65										
	<ul> <li>Bridging b</li> </ul>	ars already pre	-mounted									
	3		PE + N	7.5	9.5	25		3LD2165-7UB01		1	1 unit	1CL
			PE + N	9.5	11.5	32		3LD2265-7UB01		1	1 unit	1CL
• 0			PE + N	18.5	22.0	63		3LD2566-7UB01		1	1 unit	1CL
			PE + N	30.0	37.0	100		3LD2766-7UB01		1	1 unit	1CL

3LD2165-7UB01

3LD2 Load Transfer Switches up to 250 A

#### Accessories

### Selection and ordering data

						_
	Version	SD	3LD21 (25 A) and 3LD22 (32 A)	PU (UNIT, SET, M)	PS	PG
		d	Article No. Price www.siemens.com/ per PU product?Article No.	Э		
For front mounting						
	4th contact (N conductor)		3LD9220-0B	1	1 unit	1CL
	<ul> <li>Leading switch-on, lagging switch-off</li> </ul>					
	Bridging bars for the switchable N pole are not included in the scope of supply					
N. N	N or PE terminals		3LD9220-2B	1	1 unit	1CL
3LD9220-0B (left) 3LD9220-2B (right)	Through-type					
	Auxiliary switches					
	For mounting on the left and/or right, lagging switch-on, leading switch-off					
21	For 3-pole load transfer switches only					
3LD9200-5B	Indicate the switch position of the respective switch disconnector (I or II) to which the auxiliary switch is connected					
3LD9200-3B	• 1 NO + 1 NC		3LD9200-5B	1	1 unit	1CL
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information					
	• 1 NO + 1 NC		3LD9200-5BF	1	1 unit	1CL
	Terminal covers as additional touch protection					
A.M.M. A. A.	Can be snapped on at top and bottom					
	• 1-pole		3LD9221-2A	100	4 units	1CL
	• 3-pole		3LD9221-0A	1	4 units	1CL
3LD9221-2A (left) 3LD9221-0A (right)						
For molded-plastic	enclosures			_		
B	4th contact (N conductor)		3LD9220-0C	1	1 unit	1CL
	<ul> <li>Leading switch-on, lagging switch-off</li> </ul>					
	<ul> <li>Bridging bars for the switchable N pole are not included in the scope of supply</li> </ul>					
3LD9220-0C						
	N or PE terminals Through-type		3LD9220-2C	1	1 unit	1CL
_	Auxiliary switches					
	For mounting on the left and/or right, lagging switch-on, leading switch-off					
17 -	For 3-pole load transfer switches only					
	Indicate the switch position of the respective switch disconnector (I or II) to which the auxiliary switch is connected					
3LD9200-5C or	• 1 NO + 1 NC		3LD9200-5C	1	1 unit	1CL
3LD9200-5CF (left) 3LD9200-6C (right)	• 2 NO		3LD9200-6C	1	1 unit	1CL
GED9200-00 (light)	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information					
	• 1 NO + 1 NC		3LD9200-5CF	1	1 unit	1CL

3LD2 Load Transfer Switches up to 250 A

Accessories

	Version	SD	3LD25 (63 A)	PU (UNIT, SET, M)	PS	PG
		d				
For front mounting	)			_		
	4th contact (N conductor)		3LD9250-0BA	1	1 unit	1Cl
C and	<ul> <li>Leading switch-on, lagging switch-off</li> </ul>					
And Carlot	N or PE terminals		3LD9250-2BA	1	1 unit	1C
LD9250-0BA (left) LD9250-2BA (right)	Through-type					
( <b>P</b> )	Auxiliary switches					
	For mounting on the left and/or right, lagging switch-on, leading switch-off					
	For 3-pole load transfer switches only					
3LD9200-5B	Indicate the switch position of the respective switch disconnector (I or II) to which the auxiliary switch is connected	ad       Article No.       Price         ductor)       Imaging switch-off       Price         he switchable N pole are not included in the scope       SLD9250-BBA       1       1 unit       1 Cl         Pleft and/or right, lagging switch-on, leading       Sfer switches only       SLD9250-2BA       1       1 unit       1 Cl         Pleft and/or right, lagging switch-on, leading       Sfer switches only       SLD9200-5B       1       1 unit       1 Cl         Pleft and/or right, lagging switch-on, leading       SLD9200-5B       1       1 unit       1 Cl         Pleft and/or right, lagging switch-on, leading       SLD9200-5B       1       1 unit       1 Cl         Pleft and/or right, lagging switch-on, leading       SLD9200-5BF       1       1 unit       1 Cl         Plated contacts for requesting electronic       3LD9251-2A       100       4 units       1 Cl         I at top and bottom       3LD9250-0CA       1       1 unit       1 Cl         Pleft and/or right, lagging switch-on, leading       StD9250-0CA       1       1 unit       1 Unit         Pleft and/or right, lagging switch-on, leading       StD9250-0CA       1       1 unit       1 Unit       1 Unit         Pleft and/or right, lagging switch-on, leading       StD9250-0CA       1				
200200 00						
	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information					
	• 1 NO + 1 NC		3LD9200-5BF	1	1 unit	1C
	Terminal covers as additional touch protection	a       Article No.       Price Markow Siemens.com/ per PD       Price Price Markow Siemens.com/ per PD         a are not included in the scope       3LD9250-0BA       1       1       1       1         are not included in the scope       3LD9250-2BA       1       1       1       1       1         aging switch-on, leading requesting electronic       3LD9200-5B       1       <				
A.A. A.M.M.	N or PE terminals       3LD9250-2BA       1       1         Through-type       Auxiliary switches       1       1         For mounting on the left and/or right, lagging switch-on, leading switch-off       For 3-pole load transfer switches only       1       1         Indicate the switch position of the respective switch disconnector (I or II) to which the auxiliary switch is connected       3LD9200-5B       1       1       1         • 1 NO + 1 NC       3LD9200-5BF       1       1       1       1         • Through-type       3LD9200-5BF       1       1       1         • 1 NO + 1 NC       3LD9200-5BF       1       1       1         • 1 NO + 1 NC       3LD9200-5BF       1       1       1         • 1 NO + 1 NC       3LD9200-5BF       1       1       1         • 1 NO + 1 NC       3LD9200-5BF       1       1       1         • 1 NO + 1 NC       3LD9250-5BF       1       1       1         • 1 NO + 1 NC       3LD9250-5BF       1       1       1         • 1 NO + 1 NC       3LD9251-2A       100       4       1         • 1 Stice enclosures       3LD9251-0A       1       1       4         • 1 Leading switch-on, lagging switch-off       • <t< td=""><td></td><td></td></t<>					
	• 1-pole		3LD9200-5BF       1       1 unit         3LD9251-2A       100       4 units         3LD9251-0A       1       4 units         3LD9250-0CA       1       1 unit	1C		
	• 3-pole		3LD9251-0A	1	4 units	1C
3LD9251-2A (left) 3LD9251-0A (right)						
For molded-plastic	enclosures					
-	4th contact (N conductor)		3LD9250-0CA	1	1 unit	1C
C et	<ul> <li>Leading switch-on, lagging switch-off</li> </ul>					
1 et 1 m	of supply					
a a			3LD9250-2CA	1	1 unit	1C
3LD9250-0CA (left) 3LD9250-2CA (right)	Through-type					
<u> </u>	Auxiliary switches					
	For mounting on the left and/or right, lagging switch-on, leading switch-off					
	For 3-pole load transfer switches only	tch-off       N pole are not included in the scope         3LD9250-2BA       1       1 unit         ght, lagging switch-on, leading       3LD9200-5B       1       1 unit         ght, lagging switch-on, leading       3LD9200-5BF       1       1 unit         ouch protection       3LD9200-5BF       1       1 unit         ouch protection       3LD9200-5BF       1       1 unit         ouch protection       3LD9250-2CA       100       4 units         tch-off       N pole are not included in the scope       1       1 unit         ght, lagging switch-on, leading       3LD9250-2CA       1       1 unit         ght, lagging switch-on, leading       3LD9200-5C       1       1 unit         ght, lagging switch-on, leading       3LD9200-5C       1       1 unit				
	(I or II) to which the auxiliary switch is connected					
	d       Article No.       Price         M)       d       Article No.       Price         M       Leading switch-onig and switch-off       SLD9250-0BA       1         Fridging bars for the switchable N pole are not included in the scope of supply       SLD9250-2BA       1         N or PE terminals       SLD9250-2BA       1         Through-type       SLD9250-2BA       1         Auxiliary switches       SLD9250-2BA       1         For mounting on the left and/or right, lagging switch-oni, leading switch-off       SLD9200-5B       1         For mounting on the left and/or right, lagging switch-oni, leading switch-off, with giola-plated contacts for requesting electronic information       3LD9200-5B       1         Terminal covers as additional touch protection       SLD9200-5BF       1         Can be snapped on at top and bottom       3LD9250-2CA       1         • 1 NO + 1 NC       SLD9250-2CA       1         • 1 colosures       SLD9250-2CA       1         Minicate the switch position of the respective switch disconnector (for II) to which the switchable N pole are not included in the scope of supply       SLD9250-2CA       1         • 1 pole       3LD9250-2CA       1       1         • 1 pole       3LD9250-2CA       1       1         • 1 pole       3					
3LD9200-5C or			3LD9200-6C	1	1 unit	1C
8LD9200-5C or 8LD9200-5CF (left) 8LD9200-6C (right)	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic					

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# **Transfer Switching Equipment and Load Transfer Switches** 3LD2 Load Transfer Switches up to 250 A

### Accessories

	Version	SD	3LD27 (100 A)		PU (UNIT, SET, M)	PS	PG
		d	Article No. www.siemens.com/ product?Article No.	Price per PU			
For front mountir	g						
	<ul> <li>4th contact (N conductor)</li> <li>Leading switch-on, lagging switch-off</li> <li>Bridging bars for the switchable N pole are not included in the scope of supply</li> </ul>	-	3LD9280-0B		1	1 unit	1CL
N N N	N or PE terminals		3LD9280-2B		1	1 unit	1CL
3LD9280-0B (left) 3LD9280-2B (right)	Through-type						
	Auxiliary switches						
	For mounting on the left and/or right, lagging switch-on, leading switch-off						
1	For 3-pole load transfer switches only						
	Indicate the switch position of the respective switch disconnector (I or II) to which the auxiliary switch is connected						
	• 1 NO + 1 NC		3LD9200-5B		1	1 unit	1CL
LD9200-5B or LD9200-5BF	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic information						
	• 1 NO + 1 NC		3LD9200-5BF		1	1 unit	1CL
	Terminal covers as additional touch protection						
	Can be snapped on at top and bottom						
10	• 1-pole (1 pack = 4 units)		3LD9281-2A		1	4 units	1CL
3LD9281-2A							

3LD2 Load Transfer Switches up to 250 A

Α				

	Version	SD	3LD23 (160 A) and 3LD24 (250 A)	PU (UNIT,	PS	PG
			anu 3LD24 (250 A)	SET,		
				M)		
		d	Article No. Price www.siemens.com/ per PL			
		_	product?Article No.			
For front mounting				_		
	4th contact (N conductor)		3LD9240-0B	1	1 unit	1CL
·	Leading switch-on, lagging switch-off					
	N or PE terminals		3LD9240-2B	1	1 unit	1CL
1	Through-type					
3LD9240-0B (left)						
3LD9240-2B (right)						
	Auxiliary switches					
2	For mounting on the left and/or right, lagging switch-on, leading switch-off					
	For 3-pole load transfer switches only					
21	Indicate the switch position of the respective switch disconnector					
	(I or II) to which the auxiliary switch module is connected					16
3LD9200-5B or	• 1 NO + 1 NC		3LD9200-5B	1	1 unit	1CL
3LD9200-5BF	For mounting on the left and/or right, lagging switch-on, leading switch-off, with gold-plated contacts for requesting electronic					
	information					
	• 1 NO + 1 NC		3LD9200-5BF	1	1 unit	1CL
For front and floor						
4	Terminal covers as additional touch protection Can be snapped on at top and bottom					
	1-pole		3LD9241-2A	1	4 units	1CL
11	1 2010				1 drifto	IOL
0						
3LD9241-2A						
For floor mounting						
	Shaft coupling					
0 . 0	No ON-lock		3LD9242-4F	1	5 units	1CL
2 m						
3LD9242-4F						
	4th contact (N conductor)		3LD9240-0C	1	1 unit	1CL
• •	Leading switch-on, lagging switch-off					
· · ·	N or PE terminals Through-type		3LD9240-2C	1	1 unit	1CL
and a set	mough-type					
21 D0240 0C (loft)						
3LD9240-0C (left) 3LD9240-2C (right)						
	Auxiliary switches					
6	For mounting on the left and/or right, lagging switch-on, leading switch-off					
	For 3-pole load transfer switches only					
	Indicate the switch position of the respective switch disconnector					
	(I or II) to which the auxiliary switch module is connected		21 D0200-50		1 unit	10
3LD9200-5C or	• 1 NO + 1 NC • 2 NO		3LD9200-5C 3LD9200-6C	1	1 unit 1 unit	1CL 1CL
3LD9200-5CF (left) 3LD9200-6C (right)	For mounting on the left and/or right, lagging switch-on, leading		0100200-00		i unit	IUL
	switch-off, with gold-plated contacts for requesting electronic information					
	• 1 NO + 1 NC		3LD9200-5CF	1	1 unit	1CL

3KC Transfer Switching Equipment up to 3200 A

## Introduction

### Overview

#### 3KC0 manual transfer switching equipment (MTSE) for 16 to 160 A

 Rated current I<sub>n</sub> (A)
 16
 32
 63
 80
 100
 125
 160

 Image: Second colspan="4">Image: Second c

Manual transfer switching	g equipment (M	TSE)								
Size (MTSE type)	1 (3KC0	M)		2 (3KC0	2 (3KC0N)					
Number of poles										
• 3-pole	1	1	1	1	1	1	1			
• 4-pole	1	1	1	1	1	1	✓			
Connection										
<ul> <li>Flat terminals</li> </ul>										
<ul> <li>Box terminals</li> </ul>	1	1	1	1	1	1	1			

3KC3/6 transfer switching equipment with motorized operating mechanism (RTSE/ATSE) for 40 to 160 A

Rated current I <sub>n</sub> (A)	40	63	80	100	125	160	

Remote transfer switching	ng equipment (RTSE)						
RTSE type	3KC3424	3KC3426	3KC3428	3KC3430	3KC3432	3KC3434	
Number of poles							
• 3-pole							
• 4-pole	1	1	1	1	1	1	
Connection							
<ul> <li>Flat terminals</li> </ul>							
<ul> <li>Box terminals</li> </ul>	1	✓	1	✓	1	1	



Automatic transfer switching	equipment (ATSE)					
ATSE type	3KC6424	3KC6426	3KC6428	3KC6430	3KC6432	3KC6434
Number of poles						
• 3-pole						
• 4-pole	1	1	1	1	1	1
Connection						
<ul> <li>Flat terminals</li> </ul>						
<ul> <li>Box terminals</li> </ul>	1	1	✓	✓	1	1

✓ Available

-- Not available

3KC Transfer Switching Equipment up to 3200 A

Introduction

3KC0 manual transfer switching equipment (MTSE) for 200 to 1600 A 0 - 0 0.0 3 (3KC0...-.P) 4 (3KC0...-.Q) 5 (3KC0...-.R) 

3KC4/8 transfer switching equipment with motorized operating mechanism (RTSE/ATSE) for 250 to 3200 A

250	400	630	800/1000	1250	1600	2000/2500/3200

3KC4.38	3KC4.42	3KC4.46	3KC4.48/50	3KC4.52	3KC4.54	3KC4.56/58/60
1	1	1	1	1	1	1
✓	1	✓	1	1	1	1
1	✓	✓	1	✓	✓	✓

3KC8.38	3KC8.42	3KC8.46	3KC8.48/50	3KC8.52	3KC8.54	3KC8.56/58/60
1	1	1	1	1	,	/
✓ ✓	✓ ✓	✓ ✓	✓ ✓	✓ ✓	v V	✓ ✓
,	,	,	,	,	,	,
						• 

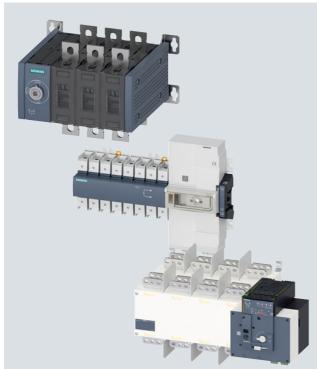
🗸 Available

-- Not available

3KC Transfer Switching Equipment up to 3200 A

#### **General data**

#### Overview



3KC transfer switching equipment: top left MTSE up to 1600 A, center RTSE up to 160 A, bottom right ATSE up to 3200 A

3KC transfer switching equipment of class PC offers a convenient and safe solution for switching over from one supply network to an alternative network in the event of network fluctuations.

Systems are switched over with an interruption of the power supply during the switching operation. Fast transfer switching in the case of the ATSE ensures a short load downtime. Integration of transfer switching and control in one single unit enables the combination of high performance and easy installation.

#### Features

Common features

- · Simple installation
- Conformity with IEC 90947-6-1 and IEC 90947-3

#### Integrated solution

• Particularly easy installation of a complete solution with an integrated ATSE for the entire 40 ... 3200 A current range

Modular design for the MTSE and the RTSE/ATSE from 250 A and higher

- Controller (electronic module) and motorized operating mechanism can be replaced individually on the RTSE/ATSE
- MTSE can be expanded by an additional pole

#### Maximum safety

- Maximum safety thanks to electrical and mechanical interlocking of switches (I, II)
- RTSE/ATSE: Supplied as standard with a manual emergency handle to enable fast intervention in an emergency
- Switching position indication
- Shutting off with a padlock in position 0 enables safe maintenance work
- In the case of RTSE/ATSE transfer switches up to 160 A, locking with a padlock can be configured for every position before installation: I, 0 or II
- Ensuring device availability by means of constant monitoring of the device's operating conditions

Easy installation in the case of transfer switches up to 160 A

- Compact design of the ATSE with integrated controller, already wired ready for operation (including power supply)
- Easy access to network connection thanks to an extremely low overall depth
- Fast and easy mounting on a DIN rail or a mounting plate
- Easy wiring thanks to box terminals and the bridging bars provided for them, enabling a common outgoing assembly point. Thanks to the bridging bars, the connection capacity of the box terminal is not reduced

#### High switching capacity

- Closing and opening under load, also for inductive loads (AC-33)
- Resilient to voltage fluctuations in the supply system thanks to stable switch positions. The switching operations are faulttolerant by a fail-safe power supply that is either integrated in the controller or is connected separately
- High dynamic strength for enhanced safety when switching to a short-circuit
- For RTSE up to 160 A: Extremely low load downtimes (< 90 ms) thanks to electromagnetic operating mechanism

#### Note

The 3KD switch disconnector can be used as a disconnecting means in compliance with IEC 60204-1, see chapter "Switch Disconnectors".

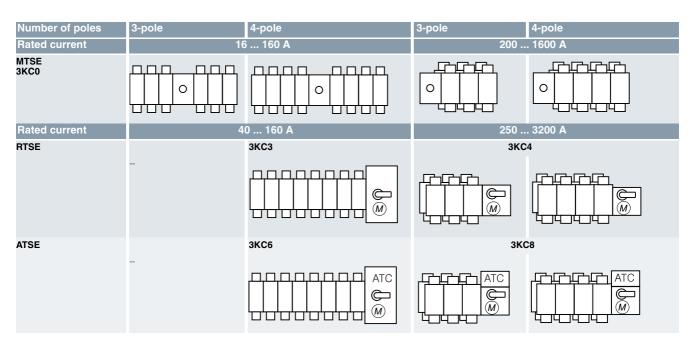
3KC Transfer Switching Equipment up to 3200 A

General data

#### Switch versions

The following versions of the 3KC transfer switching equipment are available:

- Manual transfer switching equipment (MTSE)
- Remote transfer switching equipment (RTSE)
- Automatic transfer switching equipment (ATSE)



3KC Transfer Switching Equipment up to 3200 A

#### General data

#### Benefits

- 3-/4-pole version
- Transfer switching equipment up to 3200 A (MTSE up to 1600 A)
- Very short switching time (for transfer switches up to 160 A)
- Compact design in the case of transfer switches up to 160 A
- Switching from network to network and from network to generator for ATSE from 250 A
- No additional software needed for parameterization
- Auto-configuration of voltage and frequency levels
- Watchdog relay ensures operability of the switch
- Direct control of the generator via a control signal for ATSE from 250 A
- Integrated dual power supply for ATSE from 250 A
- Resistant to shock and vibrations
- · Additionally fail-safe mechanical interlock
- · External display for installation in control cabinet door

### Application

### Industries

Residential/non-residential:

- · Safety devices in high buildings
- Computing centers (banks, insurance companies, etc.)
- · Fire pumps, air conditioning systems, cold rooms
- · Lighting systems in shopping malls

#### Industry:

- Production lines in continuous operation
- Engine rooms
- Auxiliary facilities in essentially important thermal power stations
- Pumps
- Cooling systems
- Fans
- Infrastructure:
- · Installations in ports and loading stations
- Airports
- Lighting

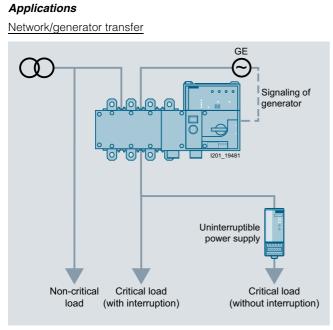
#### Network configurations

All versions of the 3KC transfer switching equipment can be used for all conventional network configurations, including:

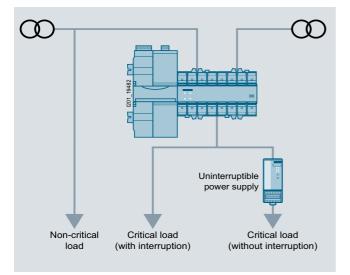
- TT systems
- TN systems
- TN-C systems
- TN-C-S systems
- TN-S systems
- IT systems

3KC Transfer Switching Equipment up to 3200 A

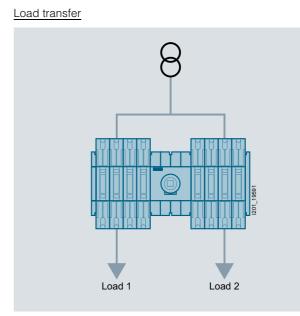
General data



Network/generator operation (IEC 60947-6-1) Network/network transfer



Network/network operation (IEC 60947-6-1)



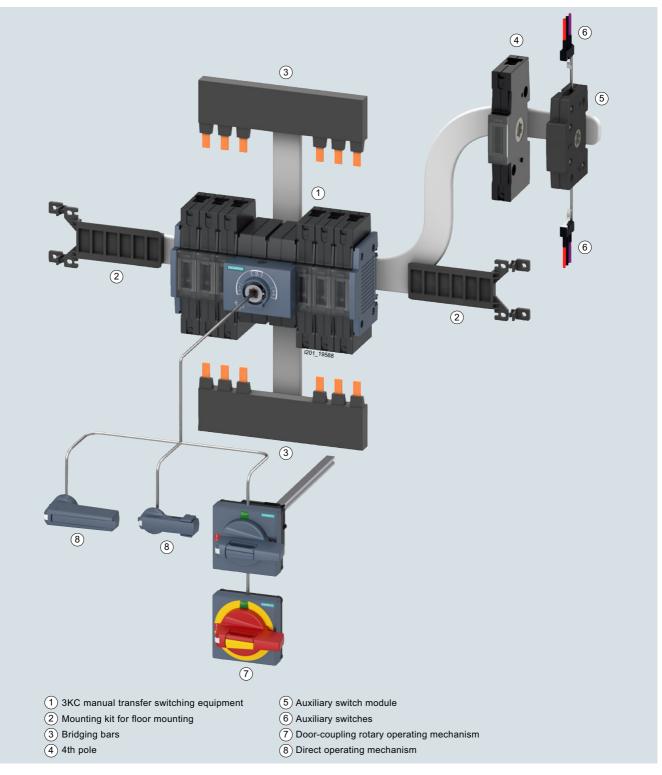
Load transfer switches (IEC 60947-3)

3KC Transfer Switching Equipment up to 3200 A

### General data

8

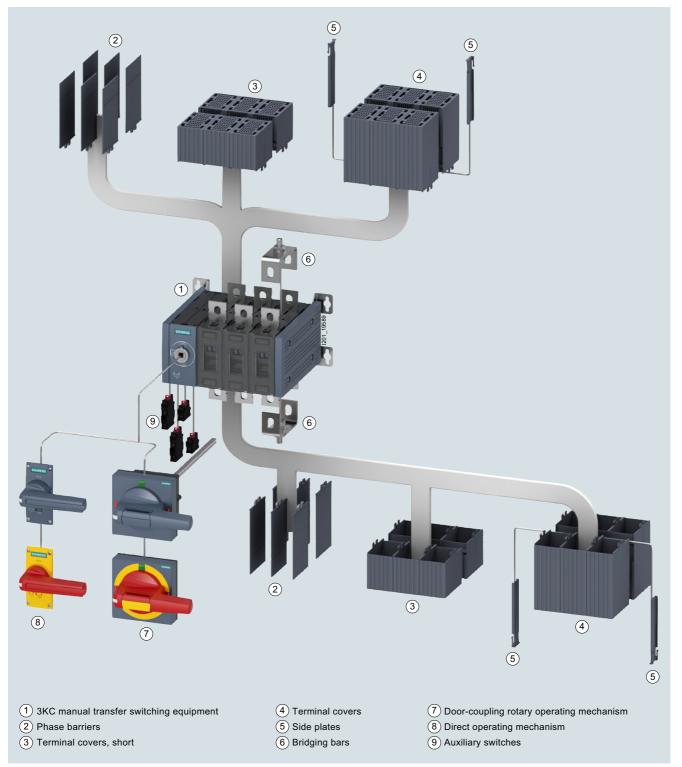
Overview of components and accessories: 3KC0 manual transfer switching equipment (MTSE) for 16 to 160 A, 3/4-pole



3KC Transfer Switching Equipment up to 3200 A

**General data** 

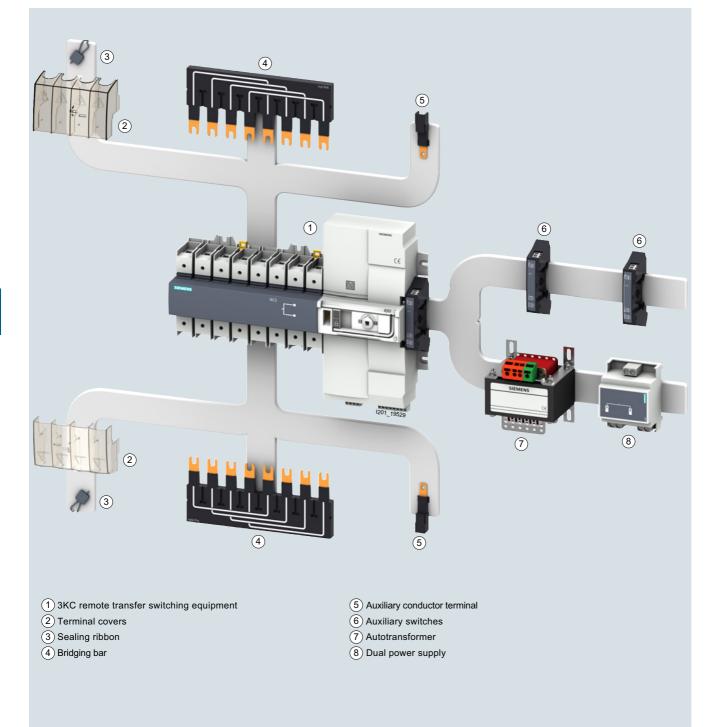
Overview of components and accessories: 3KC0 manual transfer switching equipment (MTSE) in sizes 3 to 5, for 200 to 1600 A, 3/4-pole



3KC Transfer Switching Equipment up to 3200 A

#### General data

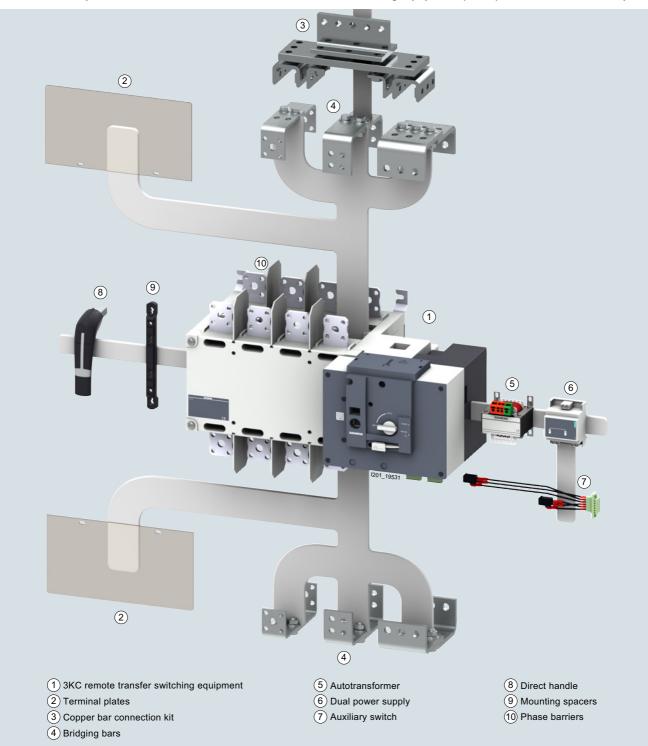
Overview of components and accessories: 3KC3 remote transfer switching equipment (RTSE) for 40 to 160 A, 4-pole



3KC Transfer Switching Equipment up to 3200 A

General data

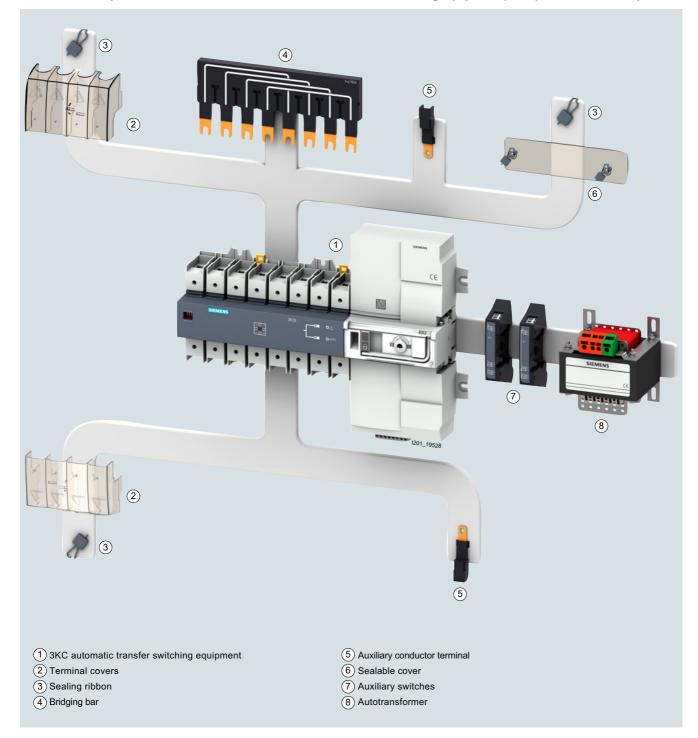
Overview of components and accessories: 3KC4 remote transfer switching equipment (RTSE) for 250 to 3200 A, 3-/4-pole



3KC Transfer Switching Equipment up to 3200 A

#### General data

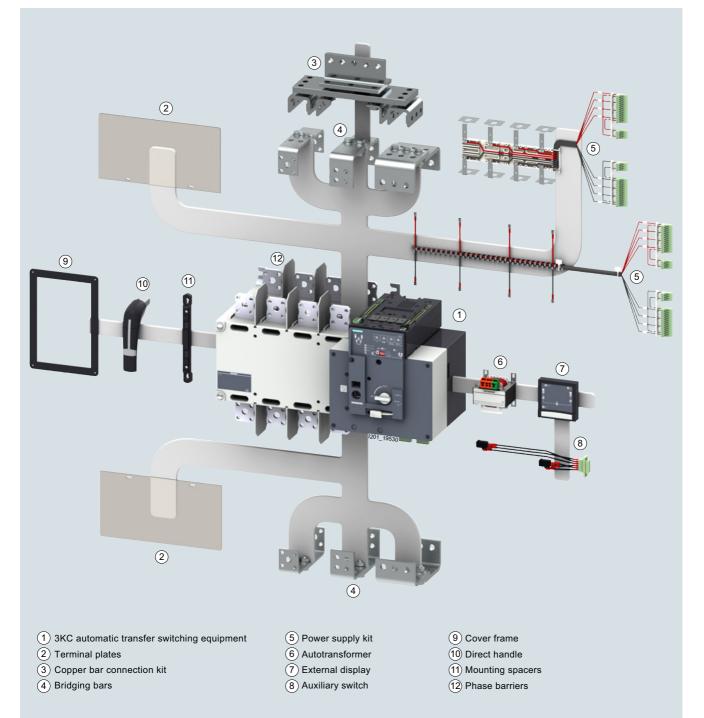
Overview of components and accessories: 3KC6 automatic transfer switching equipment (ATSE) for 40 to 160 A, 4-pole



3KC Transfer Switching Equipment up to 3200 A

**General data** 

Overview of components and accessories: 3KC8 automatic transfer switching equipment (ATSE) for 250 to 3200 A, 3-/4-pole



3KC Transfer Switching Equipment up to 3200 A Technical Features

### Manual transfer switching equipment (MTSE)

### Technical specifications

3KC0 manual transfer switching equipment (MTSE) from 16 to 160 A Size		3KC0.16 1	3KC0.22	3KC0.26	3KC0.28 2	3KC0.30	3KC0.32	3KC0.3
Size Continuous current		16	32	63	2 80	100	125	160
General technical details								
Operating voltage at 50/60 Hz AC in compliance with IEC 60947-6-1	V	415						
Operating voltage at 50/60 Hz AC in compliance with IEC 60947-3	V	690						
Insulation voltage ( $U_{\rm i}$ )	V	AC 1000						
Impulse withstand voltage (Uimp)	kV	8						
Overvoltage category with pollution degree 3		III						
Operational current in compliance with IEC 60947-6-1:								
• AC-31 B, at 415 V	А	16	32	63	80	100	125	160
• AC-32 B, at 415 V	А	16	32	63	80	100	125	160
• AC-33 B, at 415 V	А	16	32	63	80	100	125	160
• AC-35 B, at 400 V	А	16	32	63	80	100	125	160
Operational current in compliance with IEC 60947-3:								
• AC-21 A, at AC-22 A, at 415 690 V	А	16	32	63	80	100	125	160
• AC-23 A, at 415 V	А	16	32	63	80	100	125	160
• AC-23 A, at 500 V	А	16	32	63	80	100	125	160
• AC-23 A, at 690 V	А	16	32	63	80	100	125	160
Operational power in compliance with IEC 60947-3:								
• AC-23 A, at 415 V	kW	7.5	15	30	37	55	55	90
• AC-23 A, at 500 V	kW	7.5	18.5	37	55	55	75	110
• AC-23 A, at 690 V	kW	11	30	55	75	90	110	110
Short-circuit behavior								-
Short-circuit current ratings in compliance with IEC 60947-6-1:								
• Short-time withstand current ( $I_{cw}$ , 100 ms, 415 V) in compliance with IEC 60947-6-1	kA	5			10			
<ul> <li>Short-circuit current making capacity (I<sub>cm</sub>, 415 V) in compliance with IEC 60947-6-1</li> </ul>		7.7			17			
Short-circuit current ratings in compliance with IEC 60947-3:	10 1							
• Short-time withstand current ( $I_{CW}$ , 1s, 415 V / 690 V) in compliance with IEC 60947-3	kA	3			4			
• Short-circuit current making capacity ( $I_{cm}$ , 690 V) in compliance with IEC 60947-3		7			12			
Conditional short-circuit current with fuse:		'			12			
Continuous current of upstream gG fuse, 500 V / 690 V	А	63			160			
<ul> <li>Conditional short-circuit current with gG fuse (415 V) in compliance with IEC 60947-6-1</li> </ul>	kA	100			100			
<ul> <li>Conditional short-circuit current with gG fuse (415 V) in compliance with IEC 60947-3</li> </ul>	kA	100			100			
<ul> <li>Conditional short-circuit current with gG fuse (690 V) in compliance with IEC 60947-3</li> </ul>	kA	100			65			
Let-through current of gG fuse 500 V; max. permissible	kA	8.1			18			
Let through current of gG fuse 690 V; max. permissible	kA	8.8			16			
• $I^2 t$ value of gG fuse 500 V; max. permissible		13.3			135.6			
• $I^2 t$ value of gG fuse 690 V; max. permissible		13.7			178.3			
Main conductor connections <sup>1)</sup>	101 3	10.7			170.0			
Cu conductor, solid	mm <sup>2</sup>	1 x (1 <sup>-</sup>	16)		1 x (2.5	16)		
Cu conductor, stranded	mm <sup>2</sup>	1 x (6 3	,		1 x (10			
With cable lug (DIN 46234)	mm <sup>2</sup>		50)			70)		
Cu busbar					 1 x 3 x 14			
Tightening torque for main contacts	mm Nm	1 x 2 x 9 5 6.5			6.5 8			
Other properties	INITI	5 0.5			0.0 0			
Power loss per pole with thermal current $I_{th}$	W	0.1	0.4	1	1.1	1.8	3.2	4.6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	vv		0.4	1		1.0	0.2	4.0
Mechanical endurance Electrical endurance (AC-23 A at 415 V / 690 V)		15000 6000			15000 1500			
IP protection class / with cover		IP20			IP20			
Ambient temperature			0					
Operation	°C	-20 +7						
• Storage	°C	-50 +8						
Width x height x depth (3-pole transfer switching equipment)	mm	201.6 x 1			255.6 x 1			
Width x height x depth (4-pole transfer switching equipment)	mm	237.6 x 1	19 x 84.5		309.6 x 1	26 x 84.5		
<sup>1)</sup> Values for connection of aluminum cables can be found in the product								

 Values for connection of aluminum cables can be found in the product data sheet, see Siemens Industry Online Support at www.siemens.com/lowvoltage/product-support

3KC Transfer Switching Equipment up to 3200 A Technical Features

Manual transfer switching equipment (MTSE)

3KC0 manual transfer switching equipment (MTSE) from 200 to 500 A Size		3KC0.36 3	3KC0.38	3KC0.40	3KC0.42	3KC0.44 4
Size Continuous current		3 200	250	315	400	4 500
General technical details						
Dperating voltage at 50/60 Hz AC in compliance with IEC 60947-6-1	V	415				
Dperating voltage at 50/60 Hz AC in compliance with IEC 60947-3	V	690				
nsulation voltage ( $U_{\rm i}$ )	V AC	1000				
mpulse withstand voltage (U <sub>imp</sub> )	kV	12				
Dvervoltage category with pollution degree 3		IV				
Dperational current in compliance with IEC 60947-6-1:						
AC-31 B, at 415 V	А	200	250	315	400	500
AC-32 B, at 415 V	А	200	250	315	350	500
AC-33 B, at 415 V	А	200	250	315	315	500
AC-35 B, at 400 V	А	200	250	315	350	500
Operational current in compliance with IEC 60947-3:						
• AC-21 A, at AC-22 A, at 415 690 V	А	200	250	315	400	500
AC-23 A, at 415 V	А	200	250	315	400	500
AC-23 A, at 500 V	А	200	250	315	350	500
AC-23 A, at 690 V	A	200	250	315	315	500
Dperational power in compliance with IEC 60947-3:						
• AC-23 A, at 415 V	kW	110	132	160	220	280
• AC-23 A, at 500 V	kW	132	160	220	250	355
• AC-23 A, at 690 V	kW	185	220	280	355	500
Short-circuit behavior				200		
Short-circuit current ratings in compliance with IEC 60947-6-1:						
<ul> <li>Short-time withstand current (I<sub>cw</sub>, 100 ms, 415 V) in compliance with IEC 60947-6-1</li> </ul>	kΔ	18				30
• Short-circuit current making capacity ( $I_{cm}$ , 415 V) in compliance with IEC 60947-6-1		36				63
Short-circuit current ratings in compliance with IEC 60947-3:	10.1	00				00
<ul> <li>Short-time withstand current (I<sub>cw</sub>, 1 s, 415 V / 690 V) in compliance with IEC 60947-3</li> </ul>	kΔ	13				30
• Short-circuit current making capacity ( $I_{cm}$ , 690 V) in compliance with LEC 60947-3		26				63
Conditional short-circuit current with fuse:	N/N	20				00
Continuous current of upstream gG fuse, 500 V / 690 V	А	250		400		630
Conditional short-circuit current with gG fuse (415 V) in compliance	kA	100		400 65		100
with IEC 60947-6-1	N/N	100		00		100
<ul> <li>Conditional short-circuit current with gG fuse (415 V) in compliance with IEC 60947-3</li> </ul>	kA	100		65		100
<ul> <li>Conditional short-circuit current with gG fuse (690 V) in compliance with IEC 60947-3</li> </ul>	kA	65		35		65
<ul> <li>Let-through current of gG fuse 500 V; max. permissible</li> </ul>	kA	24.8		34.3		65.5
<ul> <li>Let-through current of gG fuse 690 V; max. permissible</li> </ul>	kA	25		33		54
<ul> <li>I<sup>2</sup>t value of gG fuse 500 V; max. permissible</li> </ul>	kA <sup>2</sup> s	426.5	426.5	1165	1165	3687.5
$I^2t$ value of gG fuse 690 V; max. permissible	kA <sup>2</sup> s	348	348	1157.5	1157.5	4450
Main conductor connections <sup>1)</sup>						
Cu conductor, solid	mm <sup>2</sup>	-				-
Cu conductor, stranded	mm <sup>2</sup>	-				-
Nith cable lug (DIN 46234)	mm <sup>2</sup>	1 x (6 24	0),			1 x (25 240),
		2 x (6 15				2 x (25 240)
Cu busbar	mm	1 x 30 x 10				1 x 40 x 10,
						2 x 40 x 5
Fightening torque for main contacts	Nm	30 44				50 75
Other properties				10		
Power loss per pole with thermal current <i>I</i> <sub>th</sub>	W	4	6	10	14	12
		10000				8000
Electrical endurance (AC-23 A at 415 V / 690 V)		1000				1000
P protection class / with cover		IP00 / IP20				IP00 / IP20
Ambient temperature:						
Operation	°C	-20 +70				
Storage	°C	-50 +80				
Vidth x height x depth (3-pole transfer switching equipment)	mm	235 x 164 x				319 x 235 x 23
Vidth x height x depth (4-pole transfer switching equipment)	mm	279 x 164 x	: 197.2			379 x 235 x 23
<sup>)</sup> Values for connection of aluminum cables can be found in the product						

 Values for connection of aluminum cables can be found in the product data sheet, see Siemens Industry Online Support www.siemens.com/lowvoltage/product-support

3KC Transfer Switching Equipment up to 3200 A Technical Features

Manual transfer switching equipment (MTSE)

KC0 manual transfer switching equipment (MTSE) from 630 to 1600 A		3KC0.46	3KC0.48	3KC0.50	3KC0.52	3KC0.5
Size Continuous current	Α	4 630	800	5 1000	1250	1600
General technical details						
Dperating voltage at 50/60 Hz AC in compliance with IEC 60947-6-1	V	415				
Dperating voltage at 50/60 Hz AC in compliance with IEC 60947-3	V	690				
nsulation voltage ( $U_i$ )	V	AC 1000				
mpulse withstand voltage ( $U_{imp}$ )	kV	12				
Dvervoltage category with pollution degree 3		IV				
Dperational current in compliance with IEC 60947-6-1:						
AC-31 B, at 415 V	А	630	800	1000	1250	1600
AC-32 B. at 415 V	А	630	800	1000	1250	1250
AC-33 B, at 415 V	А	500	500	800	800	800
AC-35 B, at 400 V	А	630	800	1000	1250	1250
Derational current in compliance with IEC 60947-3:						
AC-21 A, at AC-22 A, at 415 690 V	А	630	800	1000	1250	1600
AC-23 A, at 415 V	A	630	670	800	800	800
AC-23 A, at 500 V	A	630	630	800	800	800
AC-23 A, at 690 V	A	500	500	800	800	800
Derational power in compliance with IEC 60947-3:		200				000
AC-23 A, at 415 V	kW	355	355	400	400	400
AC-23 A, at 500 V	kW	400	400	560	560	560
AC-23 A, at 690 V	kW	500	500	800	800	800
Short-circuit behavior	r v v	500	500	000	000	000
Short-circuit current ratings in compliance with IEC 60947-6-1: • Short-time withstand current (I <sub>cw</sub> , 100 ms, 415 V) in compliance with IEC 60947-6-1	k٨	30		50		
Short-circuit current making capacity ( $I_{cm}$ , 415 V) in compliance with IEC 60947-6-1 Short-circuit current making capacity ( $I_{cm}$ , 415 V) in compliance with IEC 60947-6-1		63		105		
	N/A	00		100		
Short-circuit current ratings in compliance with IEC 60947-3: Short-time withetend current ( $I = 1.6.415$ V/600 V) in compliance with IEC 60047-3.	kΛ	30		50		
Short-time withstand current ( $I_{CW}$ , 1 s, 415 V / 690 V) in compliance with IEC 60947-3 Short-circuit current making conscitut ( $I_{CW}$ , 600 V) in compliance with IEC 60047-3				105		
Short-circuit current making capacity ( <i>I</i> <sub>cm</sub> , 690 V) in compliance with IEC 60947-3	ĸА	63		105		
Conditional short-circuit current with fuse:	^	c00	200	1000/	1050/	1000/
Continuous current of upstream gG fuse, 500 V / 690 V	A	630	800 65	1000/-	1250/-	1600/-
Conditional short-circuit current with gG fuse (415 V) in compliance with IEC 60947-6-1	kA	100	65	100	80	80
Conditional short-circuit current with gG fuse (415 V) in compliance with IEC 60947-3	kA	100	65	100	80	80
Conditional short-circuit current with gG fuse (690 V) in compliance with IEC 60947-3	kA	65	50	-	-	-
Let-through current of gG fuse 500 V; max. permissible	kA	65.5	70.8	95.2	112.6	112.6
Let-through current of gG fuse 690 V; max. permissible	kA	54	65	-	-	-
$I^2t$ value of gG fuse 500 V; max. permissible		3687.5	7471.7	15400	25960	30900
$I^2 t$ value of gG fuse 690 V; max. permissible	kA <sup>2</sup> s	4450	103000	-	-	-
Main conductor connections <sup>1)</sup>						
Cu conductor, solid	mm <sup>2</sup>					
Cu conductor, stranded	mm <sup>2</sup>					
Vith cable lug (DIN 46234)	mm <sup>2</sup>	1 x (25 24	0).	1 x (120 :	240).	
		2 x (25 24		2 x (95 2		
Cu busbar	mm	1 x 40 x 10,		2 x 60 x 10		
ightening torque for main contacts	Nm	2 x 40 x 5 50 75		50 75		
Other properties	CNEEL	30 75		50 75		
ower loss per pole with thermal current <i>I</i> <sub>th</sub>	W	17	25	20	32	57
Aechanical endurance	**	8000	20	20 6000	02	51
lectrical endurance (AC-23 A at 415 V / 690 V)						
		1000 IP00 / IP20		500		
P protection class / with cover		IP00 / IP20		IP00 / IP20		
mbient temperature:		00 70				
Operation	°C	-20 +70				
Storage	°C	-50 +80				
Vidth x height x depth (3-pole transfer switching equipment)	mm	319 x 235 x	232.5	475 x 310 x	311.5	
Vidth x height x depth (4-pole transfer switching equipment)	mm	379 x 235 x		565 x 310 x		

 Values for connection of aluminum cables can be found in the product data sheet, see Siemens Industry Online Support at www.siemens.com/lowvoltage/product-support

3KC Transfer Switching Equipment up to 3200 A **Technical Features** 

Remote transfer switching equipment (RTSE) / Automatic transfer switching equipment (ATSE)

#### Technical specifications

3KC3 transfer switching equipment (RTSE) from 40 to 160 A		3KC3424	3KC3426	3KC3428	3KC3430	3KC3432	3KC343
3KC6 transfer switching equipment (ATSE) from 40 to 160 A		3KC6424	3KC6426	3KC6428	3KC6430	3KC6432	3KC643
Continuous curren	it A	40	63	80	100	125	160
General technical details	V	415					
Operating voltage at 50/60 Hz AC	V						
Insulation voltage		800 AC					
Impulse withstand voltage $(U_{imp})$ of the main circuit	kV	6	TOF 0 5				
Impulse withstand voltage ( $U_{imp}$ ) of the control circuit	kV	RTSE: 4 / A					
Overvoltage category with pollution degree 3		RTSE: III / /	ATSE: II				
Operational current in compliance with IEC 60947-6-1:							
• AC-31 A/B, at 415 V	A	40	63	80	100	100/125	100/160
• AC-32 A/B, at 415 V	A	40	63	80	100	100/125	100/160
• AC-33 B, at 415 V	А	40	63	80	100	125	125
Operational current in compliance with IEC 60947-3:							
• AC-21 A/B, at 415 V	А	40	63	80	100	125	125/160
• AC-21 A/B, at 690 V	А	40	63	80	100	125	125
• AC-22 A/B, at 415 V	А	40	63	80	100	125	125/160
• AC-22 A/B, at 690 V	А	40	63	80	80	100/125	100/125
• AC-23 A/B, at 415 V	А	40	63	80	100	125	125/160
• AC-23 A/B, at 690 V	А	40	63	63	80	80	80
Operational power in compliance with IEC 60947-3:							
• AC-23 A/B, at 415 V	kW	22	37	45	55	60	75
• AC-23 A/B, at 690 V	kW	37	55	55	75	75	75
Short-circuit behavior							
Short-circuit current ratings in compliance with IEC 60947-3:	-						
• Short-time withstand current ( $I_{cw}$ , 1 s, 415 V)	kA	4					
• Short-time withstand current ( $I_{cw}$ , 50 ms, 415 V)	kA	10					
<ul> <li>Short-circuit current making capacity (I<sub>cm</sub>, 415 V)</li> </ul>	kA	5.88					
Conditional short-circuit current with fuse:	10 (	0.00					
Continuous current of series-connected fuse	А	40	63	80	100	125	160
Conditional short-circuit current with fuse (415 V), IEC 60947-6-1	kA	50	50	50	50	50	40
Conditional short-circuit current with fuse (415 V), IEC 60947-3	kA	50	50	50	50	50 50	40
<ul> <li>Let-through current of gG fuse at 415 V; max. permissible</li> </ul>	kA	14					40 17
	kA <sup>2</sup> s		14	14	14	14	
• <i>I</i> <sup>2</sup> <i>t</i> value of gG fuse at 400/500 V; max. permissible	KA-S	61.3	61.3	61.3	61.3	64.3	109
Transfer switching properties		45					
Switching time I-0 & II-0	ms	45					
Switch-off time I-0-II & II-0-I, IEC 60947-6-1	ms	150					
Transfer time I-0-II & II-0-I, IEC 60947-6-1	ms	180					
Transfer time I-0-II & II-0-I, IEC 60947-6-1 with network monitoring	S	1.4					
Motorized operating mechanism rated apparent power at 230 V AC	VA	6					
Motorized operating mechanism peak inrush current at 230 V AC	А	30					
Main conductor connections <sup>1)</sup>							
Cu conductor, solid	mm <sup>2</sup>	1 x (10 7					
Cu conductor, stranded	mm <sup>2</sup>	1 x (10 7	70)				
With cable lug (DIN 46234)	mm <sup>2</sup>						
• Cu busbar	mm						
Tightening torque for main contacts	Nm	5					
Other properties			-				
Power loss per pole	W	0.5	1.2	2.2	4	5.2	8.7
Mechanical endurance		8500				7000	
Electrical endurance (AC-23 A at 415 V)		1500				1000	
IP protection class / with cover		IP00 / IP20					
Ambient temperature:		,=0					
Operation	°C	-20 +70					
• Storage	°C	-20 +70					
- Otorago	0	-+0 +/0					
Width x height x depth (4-pole switch)	mm	340 x 245 >	725				

<sup>1)</sup> Values for connection of aluminum cables can be found in the product data sheet, see Siemens Industry Online Support at www.siemens.com/lowvoltage/product-support

3KC Transfer Switching Equipment up to 3200 A Technical Features

Remote transfer switching equipment (RTSE) / Automatic transfer switching equipment (ATSE)

### Technical specifications

KC4 transfer switching equipment (RTSE) from 250 A to 1000 A KC8 transfer switching equipment (ATSE) from 250 A to 1000 A		3KC4.38 3KC8.38	3KC4.42 3KC8.42	3KC4.46 3KC8.46	3KC4.48 3KC8.48	3KC4.50 3KC8.50
Continuous current	Α	250	400	630	800	1000
General technical details						
perating voltage at 50/60 Hz AC in compliance with IEC 60947-6-1	V	415				
perating voltage at 50/60 Hz AC in compliance with IEC 60947-3	V	690				
5	V	1000 AC / 1000	DC			
e ( IIIp)	kV	12	12	12	12	12
o ( imp/	kV	4	4	4	4	4
overvoltage category with pollution degree 3		RTSE: IV / ATSE	: 111			
perational current in compliance with IEC 60947-6-1:						
AC-31 B, at 415 V	А	250	400	630	800	1000
AC-32 B, at 415 V	А	200	400	500	800	1000
AC-33 B, at 415 V	А	200	200	400	800	800
perational current in compliance with IEC 60947-3:						
AC-21 A/B, at 415 V	А	250	400	630	800	1000
AC-21 A/B, at 690 V	А	200	200	500	800	1000
AC-22 A/B, at 415 V	А	250	400	630	800	1000
AC-22 A/B, at 690 V	А	160	160	400	630	800
AC-23 A/B, at 415 V	А	200	400	500/630	800	1000
AC-23 A/B, at 690 V	А	125	125	400	630	630
DC-21/-22 A, at 220 V	А	250	250	630	800	1000
DC-21/-22/-23 A 440 V; DC-23 220 V	А	200	200	630	800	1000
perational power in compliance with IEC 60947-3:						
AC-23 A/B 415 V	kW	110	220	335	450	700
AC-23 A/B 690 V	kW	110	110	400	400	630
Short-circuit behavior						
hort-circuit current ratings in compliance with IEC 60947-6-1:	1					
Short-time withstand current (I <sub>CW</sub> , 60 ms, 415 V)	kA	10 at 30 ms	10 at 30 ms	12.6	20	20
	kA	17	17	25.2	40	40
hort-circuit current ratings in compliance with IEC 60947-3:						
	kA	8 at 690 V	8 at 690 V	10 at 690 V	35	35
	kA	22 at 690 V	30 at 690 V	17 at 690 V	73.5	73.5
conditional short-circuit current with fuse:						
	А	250	400	630	800	1000
Conditional short-circuit current with fuse (690 V), IEC 60947-3	kA	50	50	50	50	50
	kA	50	50	50	50	50
	kA	22	30	42	51	60
	kA <sup>2</sup> s		600	3000	6000	6300
ransfer switching properties	-					
	S	0.5	0.5	0.6	1.4	1.4
witch-off time I-0-II & II-0-I, IEC 60947-6-1	s	0.4	0.4	0.4	1.4	1.4
	S	0.9	0.9	1	2.8	2.8
ransfer time I-0-II & II-0-I, IEC 60947-6-1 with network monitoring		1	1	1.1	3.1	3.1
lotorized operating mechanism rated apparent power at 230 V AC		115	115	150	184	184
lotorized operating mechanism peak inrush current at 230 V AC		1.2	1.2	1.2	2	2
lain conductor connections				··-	_	_
	mm²	1 x (95 150)	1 x (185 240)	2 x (150 300)	2 x (185 300)	2 x 240 4 x 1
	2	,	, ,	2 x (150 300)	. ,	
	2	1 x 150	1 x 240	2 x 300	2 x 300	4 x 185
		1 x 32 x 5	1 x 32 x 8	2 x 40 x 5	2 x 50 x 5	2 x 60 x 5
		20 26	20 26	40 45	8.3 13	8.3 13
Other properties		20 20	20 20		0.0 10	0.0 10
	W	5.9	15.1	32.4	41.7	46.9
lechanical endurance	**	7000	4000	32.4 4000	2500	40.9 2500
		1000 IP00 / IP20	1000	1000	500	500
lectrical endurance (AC-23 B at 415 V)						
P protection class / with cover	°C					
<sup>o</sup> protection class / with cover mbient temperature during operation	°C	-20 +70				
<sup>o</sup> protection class / with cover mbient temperature during operation mbient temperature during storage	°C °C mm	-20 +70 -40 +70	000 v 170 000	377 x 260 x 369	E04 × 070 440	E04 × 070 4 1

3KC Transfer Switching Equipment up to 3200 A Technical Features

#### Remote transfer switching equipment (RTSE) / Automatic transfer switching equipment (ATSE)

BKC4 transfer switching equipment (RTSE) from 1250 to 3200 A		3KC4.52	3KC4.54	3KC4.56	3KC4.58	3KC4.60
3KC8 transfer switching equipment (ATSE) from 1250 to 3200 A		3KC8.52	3KC8.54	3KC8.56	3KC8.58	3KC8.60
Continuous current General technical details	A	1250	1600	2000	2500	3200
perating voltage at 50/60 Hz AC in compliance with IEC 60947-6-1	V	415				
perating voltage at 50/60 Hz AC in compliance with IEC 60947-3		690				
nsulation voltage	v	1000 AC / 1000				
npulse withstand voltage ( $U_{imp}$ ) of the main circuit	kV	12	12	12	12	12
npulse withstand voltage $(U_{imp})$ of the control circuit	kV	4	4	4	4	4
Ivervoltage category with pollution degree 3		RTSE: IV / ATSE:				'
perational current in compliance with IEC 60947-6-1:						
AC-31 B, at 415 V	А	1250	1600	2000	2500	3200
AC-32 B, at 415 V	A	1250	1600	2000	2000	2000
AC-33 B, at 415 V	А	1000	1000	1250	1250	1250
perational current in compliance with IEC 60947-3:						
AC-21 A/B, at 415 V	А	1250	1600	-/2000	-/2500	-/3200
AC-21 A/B, at 690 V	А	1250	1600	-/2000	-/2000	-/2000
AC-22 A/B, at 415 V	А	1250	1600	-/2000	-/2500	-/3200
AC-22 A/B, at 690 V	А	1000	1000	-	-	-
AC-23 A/B, at 415 V	А	1250	1250	-/1600	-/1600	-/1600
AC-23 A/B, at 690 V	А	800	800	-	-	-
DC-21/-22 A, at 220 V	А	1250	1250			
DC-21/-22/-23 A, at 440 V; DC-23 220 V	А	1250	1250			
operational power in compliance with IEC 60947-3:						
AC-23 A/B, at 415 V	kW	800	900			
AC-23 A/B, at 690 V	kW	800	800			
Short-circuit behavior						
hort-circuit current ratings in compliance with IEC 60947-6-1:						
Short-time withstand current ( $I_{CW}$ , 60 ms, 415 V)	kA	25	32	50	50	50
Short-circuit current making capacity (I <sub>cm</sub> , 415 V)	kA	52.5	67.2	105	105	105
hort-circuit current ratings in compliance with IEC 60947-3:		05	5.0	50	50	
Short-time withstand current ( $I_{cw}$ , 60 ms, 415 V)	kA	35	50	50	50	50
Short-circuit current making capacity ( <i>I</i> <sub>cm</sub> , 415 V)	kA	73.5	105	105	105	105
Conditional short-circuit current with fuse:	•	1050	0 000			
Continuous current of series-connected fuse	A	1250	2 x 800			
Conditional short-circuit current with fuse (690 V), IEC 60947-3 Conditional short-circuit current with fuse (415 V), IEC 60947-6-1	kA kA	100 100	100 100			
Let-through current of gG fuse at 415 V; max. permissible	kА	100	100			
$I^2 t$ value of gG fuse at 400/500 V; max. permissible	kA <sup>2</sup> s					
Fransfer switching properties	1011 3					
witching time I-0 & II-0 RTSE / ATSE	s	1.4	1.4	1.6	1.6	1.6
witch-off time I-0-II & II-0-I, IEC 60947-6-1	s	1.4	1.5	1.2	1.2	1.2
ransfer time I-0-II & II-0-I, IEC 60947-6-1	S	2.8	2.9	2.8	2.8	2.8
ransfer time I-0-II & II-0-I, IEC 60947-6-1 with network monitoring		3.1	3.3	2.8	2.8	2.8
Notorized operating mechanism rated apparent power at 230 V AC		184	230	322	322	322
lotorized operating mechanism peak inrush current at 230 V AC	А	2	2	3.5	3.5	3.5
Nain conductor connections						
Cu conductor, solid	mm²	4 x 185	6 x 185			
Cu conductor, stranded	mm²	4 x 185	6 x 185			
With cable lug (DIN 46234)	mm <sup>2</sup>	4 x 185	6 x 185			
Cu busbar	mm	2 x 60 x 7	2 x 100 x 5	3 x 100 x 5	2 x 100 x 10	3 x 100 x 10
Tightening torque for main contacts	Nm	20 26	40 45	40 45	40 45	40 45
Other properties						
ower loss per pole	W	93.3	122	178	255	330
lechanical endurance		2500	2500	1500	1500	1500
lectrical endurance (AC-23 B at 415 V)		500	500	500	500	500
P protection class / with cover		IP00 / IP20				
mbient temperature during operation	°C	-20 +70				
mbient temperature during storage	°C	-40 +70				
Vidth x height x depth (3-pole switch)	mm		596 x 380 x 440			
Vidth x height x depth (4-pole switch)	mm	584 x 370 x 440	716 x 380 x 440	716 x 380 x 569	716 x 380 x 569	716 x 380 x

3KC Transfer Switching Equipment up to 3200 A Technical Features

Integrated controllers of the ATSE 40 to 160 A and 250 to 3200 A

### Technical specifications

		3KC6 (40 to 160 A)	3KC8 (250 to 3200 A)
ATS settings			
Network variants		3, 3 + N	1+N, 3, 3+N
Transfer delay	S	0 30	0 60
Return transfer delay	min	0 30	0 60
Frequency deviation	%	10 or 20	±3 10
• Voltage	%	10 or 20	±5 20
Measuring inputs			
Maximum rated voltage $(U_n)$			
Phase-phase	V AC	415	480
Phase-neutral	V AC	230	277
Metering range (L-N)	V	166 288	30 332
Metering range (L-L)	V	288 498	30 600
Measuring frequency	Hz	30 70	30 70
Input impedance (L-L)	MΩ	5.5	12
Number of monitored phases	10122	3	1 or 3
Measuring method		Three-phase, true RMS	True RMS
-	0/	1	0.5
Relative error of measurement method Auxiliary supply	%		0.0
		Integrated dual neuror supply	Interveted dual neuron augustu
Connection type		Integrated dual power supply with internal wiring	Integrated dual power supply
Rated voltage (AC)	V	230	230
Supply voltage range (AC)	V	176 288	166 332
Frequency	Hz	45 65	45 65
Power loss (230 V AC) <sup>1)</sup>	W	2	2.5
Impulse withstand voltage ( $U_{imp}$ ) of the control circuit		2.5	4
Overvoltage category of the control circuit		III	
Digital inputs			111
Number of inputs		3	Motorized operating mechanism: 5
		0	Electronic module: 6
Digital input <sup>2)</sup>		0 position;	Motorized operating mechanism:
		inhibition of automatic mode selection of system priority	0 position, I position,
		selection of system priority	Il position,
			0 position with priority,
			release for remote control mode
			Electronic module: inhibition of automatic mode,
			inhibition of automatic return transfer,
			priority and selection of system,
			test off load, test on load, priority for test on load,
			deactivation of stabilization delay
Input delay time	ms	30	46
Number of relay outputs		1 NO: 2A/250 V AC / 2A/30 V DC	Motor unit: 4 NO
			Electronic module: 1 NO + 1 CO 2A/250 V AC / 2A/24 V DC
Supplementary notes on relay outputs <sup>2)</sup>		Plant availability	
Supprementary notes on relay outputs ?		Plant availability	Motorized operating mechanism:
			Availability of the motorized
			Availability of the motorized operating mechanism, switch positions I, 0, II
			operating mechanism, switch positions I, 0, II Electronic module: Availability of the device,
			operating mechanism, switch positions I, 0, II
			operating mechanism, switch positions I, 0, II Electronic module: Availability of the device, generator start/stop signal
Terminals		Removable/insertable	operating mechanism, switch positions I, 0, II Electronic module: Availability of the device, generator start/stop signal Removable/insertable
Terminals Connectable conductor cross-section /	mm <sup>2</sup>	Removable/insertable 0.5 1.5	operating mechanism, switch positions I, 0, II Electronic module: Availability of the device, generator start/stop signal
Terminals Connectable conductor cross-section / stranded, solid		0.5 1.5	operating mechanism, switch positions I, 0, II Electronic module: Availability of the device, generator start/stop signal Removable/insertable 1.5 2.5
Terminals Connectable conductor cross-section / stranded, solid Connectable conductor cross-section / solid	AWG	0.5 1.5 20 14	operating mechanism, switch positions I, 0, II Electronic module: Availability of the device, generator start/stop signal Removable/insertable 1.5 2.5 16 14
Connectable conductor cross-section / stranded, solid		0.5 1.5	operating mechanism, switch positions I, 0, II Electronic module: Availability of the device, generator start/stop signal Removable/insertable 1.5 2.5

<sup>1)</sup> In addition to power loss of motorized operating mechanism

<sup>2)</sup> For more information, see 3KC manual at www.siemens.com/lowvoltage/manuals

3KC Transfer Switching Equipment up to 3200 A

Introduction (order part)

Devices			Description	P
Switch versions				
3-pole	4-pole			
		3KC0 (MTSE) from 16 1600 A	<ul> <li>Manual transfer switching equipment (MTSE)</li> <li>Ready-to-install combinations comprising switch disconnectors and operating mechanisms</li> </ul>	8,
			<ul> <li>3- and 4-pole transfer switching equipment with front operating mechanism</li> </ul>	
3KC0 (MTSE) from 16 160 A	3KC0 (MTSE) from 16 160 A		3KC0 (MTSE) from 16 160 A: connection via box terminals, operating mechanism in the center	
			<ul> <li>3KC0 (MTSE) from 200 1600 A: connection via flat terminals, operating mechanism left</li> </ul>	
3KC0 (MTSE) from 200 1600 A	3KC0 (MTSE) from 200 1600 A			
_		3KC3 (RTSE) from 40 160 A	Remote transfer switching equipment (RTSE) • Ready-to-install combinations comprising switch disconnectors, motorized operating mechanisms and handle	8
			• External control supported	
			<ul> <li>4-pole transfer switching equipment with motorized operating mechanism on the right</li> </ul>	
			connection via box terminals	
- 4 - 4		3KC4 (RTSE) from 250 3200 A	Remote transfer switching equipment (RTSE)	8
· 第 第 第			<ul> <li>Ready-to-install combinations comprising switch disconnectors, motorized operating mechanisms and handle</li> </ul>	
The second second			<ul> <li>External control supported</li> </ul>	
	and so had been a set of the		<ul> <li>3- and 4-pole transfer switching equipment with motorized operating mechanism on the right</li> </ul>	
			<ul> <li>Connection via flat terminals</li> </ul>	
	-	3KC6 (ATSE) from 40 160 A	Automatic transfer switching equipment (ATSE)	8
-			<ul> <li>Ready-to-install combinations comprising switch disconnectors, motorized operating mechanism, handle and integrated controller</li> </ul>	
			<ul> <li>Already wired ready for operation</li> </ul>	
			<ul> <li>4-pole transfer switching equipment with motorized operating mechanism on the right</li> </ul>	
			<ul> <li>connection via box terminals</li> </ul>	
2		3KC8 (ATSE) from 250 3200 A	Automatic transfer switching equipment (ATSE)	8
			<ul> <li>Ready-to-install combinations comprising switch disconnectors, motorized operating mechanism, handle and integrated controller</li> </ul>	
			Direct control signal for generator supported	
	10 000 000 000 000 000		<ul> <li>3- and 4-pole transfer switching equipment with motorized operating mechanism on the right</li> </ul>	
			<ul> <li>Connection via flat terminals</li> </ul>	

3KC Transfer Switching Equipment up to 3200 A 3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

#### **Basic units**

	Rated uninterrupted	Size	SD	Article No.	Price PL	PS PS	Р
	current $I_{\rm u}$	0120	00	www.siemens.com/ product?Article No.	per PU (UNIT SET, M)		
	A		d		,···,		
ITSE basic units witho	ut handle, front operating	) mechanis	m				
ridging bars are additional	ly required for the connection	side.					
	3-pole						
	Box terminals						
he transfer switches are sund can also optionally be u assembly kit for floor mount	itable for DIN rail mounting ised for floor mounting ting necessary)						
	16	1		3KC0316-2ME00-0AA0	1	1 unit	10
	32			3KC0322-2ME00-0AA0	1	1 unit	10
	63			3KC0326-2ME00-0AA0	1	1 unit	10
	80	2		3KC0328-2NE00-0AA0		1 unit	1(
ELE PROPERTY	100	2		3KC0330-2NE00-0AA0	-		10
	125			3KC0332-2NE00-0AA0	-		10
	160			3KC0334-2NE00-0AA0	-		10
						i dine	
	3-pole						
				0			
	Flat terminals						
he transfer switches are de							
	200	3		3KC0336-0PE00-0AA0	1	1 unit	1(
	250			3KC0338-0PE00-0AA0	1		10
	315			3KC0340-0PE00-0AA0	1		1(
	400			3KC0342-0PE00-0AA0	1	1 unit	10
	500	4		3KC0344-0QE00-0AA0		1 unit	1(
	630			3KC0346-0QE00-0AA0	1		10
- And a said of	800			3KC0348-0QE00-0AA0	1	1 unit	1
ALC: N							
	1000	5		3KC0350-0RE00-0AA0	1	1 unit	1
	1250	0		3KC0352-0RE00-0AA0	-		1
	1600			3KC0354-0RE00-0AA0	1		1
	1000					i unit	

## Transfer Switching Equipment and Load Transfer Switches

## 3KC Transfer Switching Equipment up to 3200 A

3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

ed S	d	3KC0416-2ME00-0AA0 3KC0422-2ME00-0AA0	Price PU per PU (UNIT, SET, M)	PS 1 unit	PG 1CL
		3KC0416-2ME00-0AA0 3KC0422-2ME00-0AA0		1 unit	101
		3KC0416-2ME00-0AA0 3KC0422-2ME00-0AA0		1 unit	101
		3KC0416-2ME00-0AA0 3KC0422-2ME00-0AA0		1 unit	101
		3KC0422-2ME00-0AA0		1 unit	1CI
1		3KC0422-2ME00-0AA0		1 unit	1CI
			1		102
				1 unit	1CL
		3KC0426-2ME00-0AA0	1	1 unit	1CL
2		3KC0428-2NE00-0AA0	1	1 unit	1CL
		3KC0430-2NE00-0AA0	1	1 unit	1CL
			1	1 unit	1CL
		3KC0434-2NE00-0AA0	1	1 unit	1CL
-					
3			1	1 unit	1CL
			1		1CL
					1CL 1CL
		JKC0442-0PE00-0AA0		i unit	ICL
4		3KC0444-0QE00-0AA0	1	1 unit	1CL
		3KC0446-0QE00-0AA0	1	1 unit	1CL
		3KC0448-0QE00-0AA0	1	1 unit	1CL
5		3KC0450-0RE00-0AA0	1	1 unit	1CL
		3KC0452-0RE00-0AA0	1	1 unit	1CL
		3KC0454-0RE00-0AA0	1	1 unit	1CL
	ting 3	2 ting 3 4 5	3KC0426-2ME00-0AA0           2         3KC0428-2NE00-0AA0           3KC0430-2NE00-0AA0         3KC0432-2NE00-0AA0           3KC0434-2NE00-0AA0         3KC0434-2NE00-0AA0           3KC0436-0PE00-0AA0         3KC0436-0PE00-0AA0           3KC0438-0PE00-0AA0         3KC0438-0PE00-0AA0           3KC0443-0PE00-0AA0         3KC0443-0PE00-0AA0           3KC0444-0PE00-0AA0         3KC0448-0PE00-0AA0           3KC0448-0PE00-0AA0         3KC0448-0QE00-0AA0           3KC0448-0QE00-0AA0         3KC0448-0QE00-0AA0           3KC0448-0QE00-0AA0         3KC0448-0QE00-0AA0	3KC0426-2ME00-0AA0         1           2         3KC0428-2NE00-0AA0         1           3KC0430-2NE00-0AA0         1           3KC0432-2NE00-0AA0         1           3KC0434-2NE00-0AA0         1           3KC0434-2NE00-0AA0         1           3KC0434-2NE00-0AA0         1           3KC0436-0PE00-0AA0         1           3KC0436-0PE00-0AA0         1           3KC0442-0PE00-0AA0         1           3KC0442-0PE00-0AA0         1           3KC0444-0QE00-0AA0         1           3KC0444-0QE00-0AA0         1           3KC0444-0QE00-0AA0         1           3KC0448-0QE00-0AA0         1           3KC0448-0QE00-0AA0         1           3KC0448-0QE00-0AA0         1           3KC0448-0QE00-0AA0         1           3KC0448-0QE00-0AA0         1	3KC0426-2ME00-0AA0       1

3KC Transfer Switching Equipment up to 3200 A 3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

## Accessories and spare parts

## Selection and ordering data

## Additional poles

	Version	Circuit symbol		Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	d					
	4th contact element (switching pole)	N — ~ N						
	Box terminals							
E.	For size 1, 3KC0M			3KD9105-2		1	1 unit	1CL
	For size 2, 3KC0N			3KD9205-2		1	1 unit	1CL
3KD9205-2								

### Direct operating mechanisms

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
Direct operating me	echanisms in standard version and flat version						
	Standard version						
	<ul> <li>Can be locked with up to max. 3 padlocks</li> </ul>						
	<ul> <li>Requires additional mounting depth in locked state</li> </ul>						
	Gray						
	For sizes 1/2; 3KC0M/N		3KC9201-3		1	1 unit	1CI
SIEMENS	For size 3, 3KC0P		3KC9301-1		1	1 unit	1CL
Ion							
-							
40							
0 0							
	For size 4, 3KC0Q		3KC9401-1		1	1 unit	1Cl
C BILMENS C			51(05401-1			i unit	101
Ion							
14							
C C							
o	For size 5, 3KC0R		3KC9501-1		1	1 unit	1Cl
the st the							
0 0							
	Red/yellow						
	For size 3, 3KC0P		3KC9301-2		1	1 unit	1Cl
JON CONTRACTOR							
0							

0

## Transfer Switching Equipment and Load Transfer Switches

## 3KC Transfer Switching Equipment up to 3200 A

3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

_					Ac	cessor	ies and	spare	parts
	Version			k	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	For size 4, 3KC0Q			d	3KC9401-2		1	1 unit	1CL
	For size 5, 3KC0R			3	3KC9501-2		1	1 unit	1Cl
2	Flat version (suitable for distribution of Can be locked with one padl No additional mounting depth Gray For size 1, 3KC0M	ock		3	3KC9101-4		1	1 unit	1CI
or-coupling rota	ry operating mechanisms								
	VC/SIGH	Handle length	Shaft size		Article No. www.siemens.com/ product?Article No.	Price per Pl	e PU J (UNIT, SET, M)	PS	PG
or-coupling rotar	y operating mechanisms, complet Door-coupling rotary operating Iabeling I - 0 - II • Handle with masking plate • Coupling driver with tolerance com • Shaft 300 mm • Can be locked with up to max. 3 pa	Iength mm te, 8UD1 series g mechanisms	mm x mm	d	www.siemens.com/		J (UNIT, SET,	PS	PG
pr-coupling rotar	y operating mechanisms, complet Door-coupling rotary operating Iabeling I - 0 - II • Handle with masking plate • Coupling driver with tolerance com • Shaft 300 mm	Iength mm te, 8UD1 series g mechanisms	mm x mm	d	www.siemens.com/		J (UNIT, SET,	PS 1 unit	
pr-coupling rotar	y operating mechanisms, complet Door-coupling rotary operating Iabeling I - 0 - II • Handle with masking plate • Coupling driver with tolerance com • Shaft 300 mm • Can be locked with up to max. 3 pit • Labeling I - 0 - II Gray	Iength mm te, 8UD1 series g mechanisms apensation adlocks	mm x mm	d	www.siemens.com/ product?Article No.		UNIT, SET, M)		PC 1CL 1CL
or-coupling rotar	y operating mechanisms, complet Door-coupling rotary operating labeling I - 0 - II • Handle with masking plate • Coupling driver with tolerance com • Shaft 300 mm • Can be locked with up to max. 3 pr • Labeling I - 0 - II Gray For sizes 1/2; 3KC0M/N	In te, 8UD1 series g mechanisms appensation adlocks 55	mm x mm	d	www.siemens.com/ product?Article No.		1 1	1 unit	1CL

3KC Transfer Switching Equipment up to 3200 A 3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

Accessories and spare parts

	Version	Handle length	Shaft size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU		PS	PG
		mm	mm x mm	d					
Handles for door-coup	oling rotary operating mechanisms, 8								
	Handles without extension shaft, wit labeling I - 0 - II	noutcou	biing ariver,						
	With masking plate								
	Can be locked with up to max. 3 padlocks	5							
	Labeling I - 0 - II								
	Gray								
	For sizes 1/2; 3KC0M/N	55	8 x 8		8UD1731-2AE01		1	1 unit	1CL
	For size 3, 3KC0P	100	8 x 8		8UD1841-2AE01		1	1 unit	1CL
	For size 4, 3KC0Q	140	10 x 10		8UD1851-3AE01		1	1 unit	1CL
	For size 5, 3KC0R	200	12 x 12		8UD1861-4AE01		1	1 unit	1CL
	Red/yellow For sizes 1/2; 3KC0M/N	55	8 × 8		8UD1731-2AE05		1	1 unit	1CL
	For size 3, 3KC0P	100	8 x 8		8UD1841-2AE05		1	1 unit	1CL
	For size 4, 3KC0Q	140	10 x 10		8UD1851-3AE05		1	1 unit	1CL
	For size 5, 3KC0R	200	12 x 12		8UD1861-4AE05		1	1 unit	1CL

## Transfer Switching Equipment and Load Transfer Switches

3KC Transfer Switching Equipment up to 3200 A

3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

Accessories and spare parts						oarts			
	Version	Handle length	Shaft size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
0.1		mm	mm x mm	d					
Other accessories for	door-coupling rotary operating mechanis Extension shafts	sms, 80D	1 series						
	300 mm long								
	• For sizes 1/2/3, 3KC0M/N/P		8 x 8		8UC6032		1	1 unit	1CL
	• For size 4, 3KC0Q		10 x 10		8UC6033		1	1 unit	1CL
	• For size 5, 3KC0R		12 x 12		8UC6034		1	1 unit	1CL
8UC6032									
~ ~	600 mm long								
NSE0_0037	A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 1/2.								
	• For sizes 1/2/3, 3KC0M/N/P		8 x 8		8UC6082		1	1 unit	1CL
Groove <sup>1)</sup>	• For size 4; 3KC0Q		10 x 10		8UC6083		1	1 unit	1CL
8UC6082	• For size 5; 3KC0R		12 x 12		8UC6084		1	1 unit	1CL
5	Shaft jack for 8UD1 handle for shaft, 600 mm								
	• For sizes 1/2; 3KC0M/N		8 x 8		8UD1900-0FA00		1	1 unit	1CL
8UD1900-0FA00	Coupling drivers with tolerance								
	compensation								
	<ul> <li>For sizes 1/2; 3KC0M/N</li> </ul>		8 x 8		8UD1900-2GA00		1	1 unit	1CB
8UD1900-2GA00									
	• For size 3, 3KC0P		8 x 8		8UD1900-6GA00		1	1 unit	1CL
	• For size 4, 3KC0Q		10 x 10		8UD1900-3GA00		1	1 unit	1CL
	• For size 5, 3KC0R		12 x 12		8UD1900-4GA00		1	1 unit	1CL
8UD1900-6GA00									
	Coupling drivers without tolerance								
			0 × 0				4	1 unit	100
	• For sizes 1/2; 3KC0M/N		8 x 8		8UD1900-2HA00		1	1 unit	1CB
8UD1900-2HA00									
	• For size 3, 3KC0P		8 x 8		8UD1900-6HA00		1	1 unit	1CL
	<ul><li>For size 4, 3KC0Q</li><li>For size 5, 3KC0R</li></ul>		10 x 10 12 x 12		8UD1900-3HA00 8UD1900-4HA00		1	1 unit 1 unit	1CL 1CL
i oi	• For size 3, 3NCUR		12 X 12		80D1900-4HA00		I	i unit	ICL
8UD1900-6HA00									
	Shaft couplings		00		011000000			a	10
	<ul> <li>For sizes 1/2; 3KC0M/N</li> <li>For size 3, 3KC0P</li> </ul>		8 x 8 8 x 8		8UC6022 8UC6022		1	1 unit 1 unit	1CL 1CL
NSEC_00374	<ul> <li>For size 3, 3KC0P</li> <li>For size 4, 3KC0Q</li> </ul>		8 x 8 10 x 10		8UC6022 8UC6023		1	1 unit 1 unit	1CL
	• For size 5, 3KC0R		12 x 12		8UC6024		1	1 unit	1CL
8UC6022 to 8UC6024									
1) Non-interchangeab	ility features								

3KC Transfer Switching Equipment up to 3200 A 3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

### Accessories and spare parts

### Auxiliary switches

3KD9103-5

3KD9103-3

3KD9103-2

	Version	SD	Article No. Pri www.siemens.com/ per f product?Article No.		PS	PG
		d				
	Auxiliary switch modules					
the second secon	Unit is supplied without auxiliary switches; a maximum of 2 auxiliary switches can be installed per auxiliary module.					
	The auxiliary switches indicate the switch position of the respective switching equipment (I or II) to which the auxiliary switch module is connected.					
$\theta_{1}$	• For sizes 1/2; 3KC0M/N		3KD9103-5	1	1 unit	1CL
2.0						
9103-5						
	Auxiliary switches for sizes 1 and 2					
	With soldered-on 50 cm connecting cables					
	<ul> <li>1 CO contact</li> </ul>		3KD9103-1	1	1 unit	1CL
103-3	<ul> <li>1 CO contact, solid-state compatible</li> </ul>		3KD9103-3	1	1 unit	1CL
	Without soldered-on connecting cables					
	1 CO contact		3KD9103-2	1	1 unit	1CL
	<ul> <li>1 CO contact, solid-state compatible</li> </ul>		3KD9103-4	1	1 unit	1CL
0						
103-2						
103-2						
	Auxiliary switches for sizes 3 to 5 NEW Auxiliary switches with screw terminal for installation on					
	Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be					
0	Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with	•				
	Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used. All auxiliary switches for sizes 3 to 5 can be used as leading	)				
ю ю	Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used. All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the	÷ ▶	3SU1400-1AA10-1BA0	1	1 unit	41J
	Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used. All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch.		3SU1400-1AA10-1BA0 3SU1400-1AA10-1LA0	1	1 unit 1 unit	41J 41J
NO NO	<ul> <li>Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used.</li> <li>All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch.</li> <li>1 NO</li> </ul>					
	<ul> <li>Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used.</li> <li>All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch.</li> <li>1 NO</li> <li>1 NO with gold-plated contacts</li> </ul>		3SU1400-1AA10-1LA0	1	1 unit	41J
	<ul> <li>Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used.</li> <li>All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch.</li> <li>1 NO</li> <li>1 NO with gold-plated contacts</li> <li>1 NC</li> </ul>		3SU1400-1AA10-1LA0 3SU1400-1AA10-1CA0	1	1 unit 1 unit	41J 41J
	<ul> <li>Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used.</li> <li>All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch.</li> <li>1 NO</li> <li>1 NO with gold-plated contacts</li> <li>1 NC with gold-plated contacts</li> </ul>	•	3SU1400-1AA10-1LA0 3SU1400-1AA10-1CA0 3SU1400-1AA10-1MA0	1 1 1	1 unit 1 unit 1 unit	41J 41J 41J 41J
	<ul> <li>Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used.</li> <li>All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch.</li> <li>1 NO</li> <li>1 NO with gold-plated contacts</li> <li>1 NC</li> <li>1 NC with gold-plated contacts</li> <li>1 NO + 1 NC</li> </ul>	•	3SU1400-1AA10-1LA0 3SU1400-1AA10-1CA0 3SU1400-1AA10-1MA0 3SU1400-1AA10-1FA0	1 1 1	1 unit 1 unit 1 unit 1 unit	41J 41J 41J 41J
7.	<ul> <li>Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used.</li> <li>All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch.</li> <li>1 NO</li> <li>1 NO with gold-plated contacts</li> <li>1 NC</li> <li>1 NC with gold-plated contacts</li> <li>1 NO + 1 NC</li> <li>1 NO + 1 NC with gold-plated contacts</li> </ul>	<b>A A</b>	3SU1400-1AA10-1LA0 3SU1400-1AA10-1CA0 3SU1400-1AA10-1MA0 3SU1400-1AA10-1FA0 3SU1400-1AA10-1QA0	1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	41J 41J 41J 41J 41J 41J
	<ul> <li>Auxiliary switches with screw terminal for installation on operating mechanism module. Auxiliary switches with spring-type terminal from the 3SU1 program can also be used.</li> <li>All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch.</li> <li>1 NO</li> <li>1 NO with gold-plated contacts</li> <li>1 NC</li> <li>1 NO + 1 NC</li> <li>1 NO + 1 NC with gold-plated contacts</li> <li>2 NO</li> </ul>	<b>A A</b>	3SU1400-1AA10-1LA0 3SU1400-1AA10-1CA0 3SU1400-1AA10-1MA0 3SU1400-1AA10-1FA0 3SU1400-1AA10-1QA0 3SU1400-1AA10-1DA0	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	41J 41J 41J 41J 41J 41J 41J

## Transfer Switching Equipment and Load Transfer Switches

3KC Transfer Switching Equipment up to 3200 A

3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

Accessories and spare parts

Bridging bars							
	Version	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Bridging bars for sizes	1 and 2						
	For load-side connection	-					
_	3-pole						
	For size 1, 3KC0M		3KC9118-1		1	1 unit	1CL
	For size 2, 3KC0N		3KC9218-1		1	1 unit	1CL
	4-pole						
	For size 1, 3KC0M		3KC9118-2		1	1 unit	1CL
	For size 2, 3KC0N		3KC9218-2		1	1 unit	1CL
Bridging bars for sizes	3 5						
	For load-side connection	_					
	• Single-pole						
	<ul> <li>Contains 1 unit</li> <li>For 3-pole transfer switches 3 units, for 4-pole transfer switches 4 units are required</li> </ul>						
	Flat terminals						
	For size 3, 3KC0P		3KC9318-0		1	1 unit	1CL
	For size 4, 3KC0Q		3KC9418-0		1	1 unit	1CL
Close costs	For size 5, 3KC0R		3KC9518-0		1	1 unit	1CL

3KC Transfer Switching Equipment up to 3200 A 3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

Accessories and spare parts

N/ :	For size	07					
Version	I-OI SIZE	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU		PS	PG
		u					
<ul> <li>For 3KC MTSE with flat terminals</li> <li>For the line side one pack (6 or 8 units) is r</li> <li>For the load side one pack (6 or 8 units) is</li> <li>For 3-pole devices (6 units)</li> </ul>			3KD9308-6 3KD9408-6		1	1 unit 1 unit	1CL 1CL
	5; 3KC0R		3KD9508-6		1	1 unit	1CL
For 4-pole devices (8 units)	3; 3KC0P 4; 3KC0Q 5; 3KC0R		3KD9308-8 3KD9408-8 3KD9508-8		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
<ul> <li>For 3KC MTSE with flat terminals</li> <li>For the line side one pack (6 or 8 units) is r</li> <li>For the load side one pack (6 or 8 units) is</li> <li>additional side plates for terminal covers at terminal side, where bridging bars are user side)</li> </ul>	required re required for the						
For 3-pole devices (6 units)							
Standard length	3; 3KC0P 4; 3KC0Q 5; 3KC0R		3KD9304-6 3KD9404-6 3KD9504-6		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
Short version	3; 3KC0P		3KD9304-7		1	1 unit	1CL
	4; 3KC0Q		3KD9404-7		1	1 unit	1CL
-	3; 3KC0P 4; 3KC0Q 5; 3KC0R		3KD9304-8 3KD9404-8 3KD9504-8		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
Short version							
Short version	3; 3KC0P 4; 3KC0Q		3KD9304-5 3KD9404-5		1	1 unit 1 unit	1CL 1CL
	For 4-pole devices (8 units) Standard length Short version	For 4-pole devices (8 units)           Standard length         3; 3KC0P           4; 3KC0Q         5; 3KC0R           Short version         3; 3KC0P	For 4-pole devices (8 units)           Standard length         3; 3KC0P           4; 3KC0Q         5; 3KC0R           Short version         3; 3KC0P	For 4-pole devices (8 units)           Standard length         3; 3KC0P         3KD9304-8           4; 3KC0Q         3KD9404-8         3KD9504-8           5; 3KC0R         3KD9504-8         3KD9504-8	For 4-pole devices (8 units)           Standard length         3; 3KC0P         3KD9304-8           4; 3KC0Q         3KD9404-8         3KD9504-8           5; 3KC0R         3KD9504-8           Short version         3; 3KC0P         3KD9304-5	For 4-pole devices (8 units)           Standard length         3; 3KC0P         3KD9304-8         1           4; 3KC0Q         3KD9404-8         1           5; 3KC0R         3KD9504-8         1           Short version         3; 3KC0P         3KD9304-5         1	For 4-pole devices (8 units) Standard length         3; 3KC0P         3KD9304-8         1         1 unit           4; 3KC0Q         3KD9404-8         1         1 unit           5; 3KC0R         3KD9504-8         1         1 unit           Short version         3; 3KC0P         3KD9304-5         1         1 unit

## Transfer Switching Equipment and Load Transfer Switches

3KC Transfer Switching Equipment up to 3200 A

3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

				Acces	sori	es and s	spare p	arts
	Version	or size	SD	Article No.	Price	PU	PS	PG
					er PU	(UNIT, SET, M)		
		C	d	product://filole No.		0E1, 101)		
	Spare part for terminal cover (1 unit)							
	Standard length							
fammer "	5	; 3KC0R		3KD9504-1		1	1 unit	1CL
Constant,								
1								
3KD9504-1								
	Short version							
Marrie N		; 3KC0P		3KD9304-1		1	1 unit	1CL
Children P	4	; 3KC0Q		3KD9404-1		1	1 unit	1CL
3KD9304-1								
JND3004-1	Terminal covers, side plates							
	<ul> <li>For lateral touch protection on the terminal side bars are used (normally the load side)</li> </ul>	e, where bridging						
	<ul> <li>Suitable for terminal covers in standard length</li> </ul>							
	Contains 2 units							
		; 3KC0P		3KC9304-0		1	1 unit	1CL 1CL
		; 3KC0Q ; 3KC0R		3KC9404-0 3KC9504-0		1	1 unit 1 unit	1CL
		, 01.0011		0100000-0		I	rumt	IUL
L L								

3KC9304-0

3KC Transfer Switching Equipment up to 3200 A 3KC0 Manual Transfer Switching Equipment (MTSE) from 16 to 1600 A

Accessories and spa	re parts							
	Version	For size	SD d	Article No. www.siemens.com/ p product?Article No.	Price ber PU	PU (UNIT, SET, M)	PS	PG
Mounting accessories								
ЗКС9120-1	<ul> <li>Mounting, assembly kit for floor mount</li> <li>For floor mounting for sizes 1 and 2</li> <li>Contains 4 mounting brackets and two mount</li> <li>For 3-pole and 4-pole devices</li> </ul>	C	I	3KC9120-1		1	1 unit	1CL
экрэ120-1	<ul> <li>Mounting bracket</li> <li>Spare part, included in the scope of supply of floor mounting for sizes 1 to 2</li> <li>Contains 4 units</li> <li>For 3-pole and 4-pole devices</li> </ul>	the assembly kit for 1/2; 3KC0M/N		3KD9120-1		1	1 unit	1CL
Slide for mounting on a	<ul> <li><b>DIN rail</b></li> <li>Spare part, included in the scope of supply of the 3KC0</li> <li>Contains 5 units</li> </ul>	1/2; 3KC0M/N		3KF9112-0BA00		1	1 unit	1DL

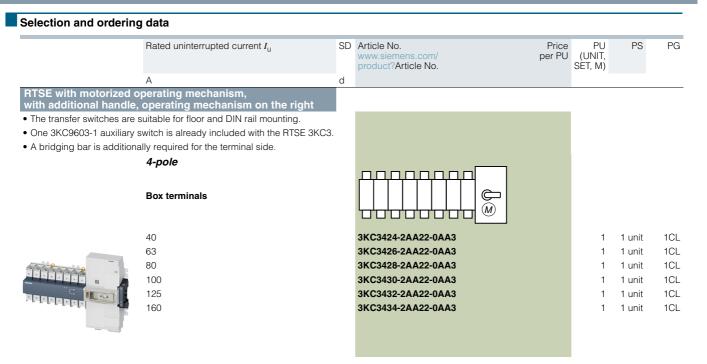
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## Transfer Switching Equipment and Load Transfer Switches

3KC Transfer Switching Equipment up to 3200 A

3KC3 Remote Transfer Switching Equipment (RTSE) from 40 to 160 A

**Basic units** 



SD Article No.

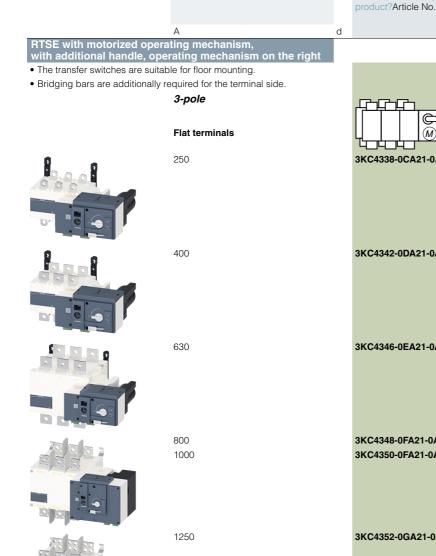
## Transfer Switching Equipment and Load Transfer Switches

Rated uninterrupted current Iu

3KC Transfer Switching Equipment up to 3200 A 3KC4 Remote Transfer Switching Equipment (RTSE) from 250 to 3200 A

### **Basic units**

Selection and ordering data



1600

2000 2500 3200



d	www.siemens.com/ product?Article No.	per PU	(UNIT, SET, M)		
on the right					
side.	3KC4338-0CA21-0AA3		1	1 unit	1CL
	3KC4342-0DA21-0AA3		1	1 unit	1CL
	3KC4346-0EA21-0AA3		1	1 unit	1CL
	3KC4348-0FA21-0AA3 3KC4350-0FA21-0AA3		1 1	1 unit 1 unit	1CL 1CL
	3KC4352-0GA21-0AA3		1	1 unit	1CL
	3KC4354-0HA21-0AA3		1	1 unit	1CL
	3KC4356-0JA21-0AA3 3KC4358-0JA21-0AA3 3KC4360-0JA21-0AA3		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL

Price

per PU

PU

(UNIT,

PS

PG

## Transfer Switching Equipment and Load Transfer Switches

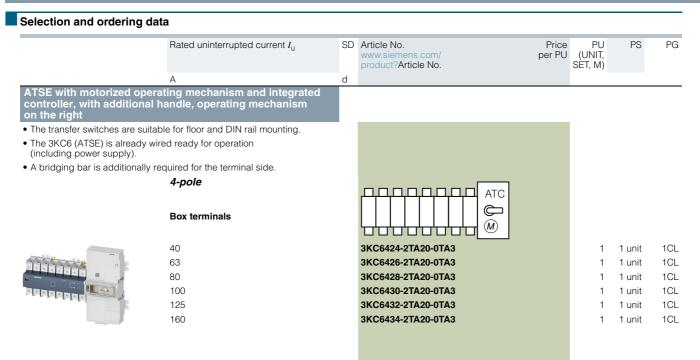
## 3KC Transfer Switching Equipment up to 3200 A

3KC4 Remote Transfer Switching Equipment (RTSE) from 250 to 3200 A

				Basic	units
 · · ·	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 A d					
Flat terminals					
250	3KC4438-0CA21-0AA3		1	1 unit	1CL
400	3KC4442-0DA21-0AA3		1	1 unit	1CL
630	3KC4446-0EA21-0AA3		1	1 unit	1CL
800 1000	3KC4448-0FA21-0AA3 3KC4450-0FA21-0AA3		1 1	1 unit 1 unit	1CL 1CL
1250	3KC4452-0GA21-0AA3		1	1 unit	1CL
1600	3KC4454-0HA21-0AA3		1	1 unit	1CL
2000 2500 3200	3KC4456-0JA21-0AA3 3KC4458-0JA21-0AA3 3KC4460-0JA21-0AA3		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL

3KC Transfer Switching Equipment up to 3200 A 3KC6 Automatic Transfer Switching Equipment (ATSE) from 40 to 160 A

### **Basic units**



## Transfer Switching Equipment and Load Transfer Switches

## 3KC Transfer Switching Equipment up to 3200 A

3KC8 Automatic Transfer Switching Equipment (ATSE) from 250 to 3200 A

Basic units

Selection and ordering of	data						
	Rated uninterrupted current Iu		Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
ATSE with motorized ope controller, with additiona on the right	A erating mechanism and integrated Il handle, operating mechanism	d					
The transfer switches are sui	table for floor mounting. y required for the terminal side as well as a e sensing cable for ATSE. <b>3-pole</b>	1					
	Flat terminals						
	250		 3KC8338-0CA22-0GA3		1	1 unit	1CL
	400		3KC8342-0DA22-0GA3		1	1 unit	1CL
	630		3KC8346-0EA22-0GA3		1	1 unit	1CL
	800 1000		3KC8348-0FA22-0GA3 3KC8350-0FA22-0GA3		1 1	1 unit 1 unit	1CL 1CL
	1250		3KC8352-0GA22-0GA3		1	1 unit	1CL
	1600		3KC8354-0HA22-0GA3		1	1 unit	1CL
	2000 2500 3200		3KC8356-0JA22-0GA3 3KC8358-0JA22-0GA3 3KC8360-0JA22-0GA3		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL

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## Transfer Switching Equipment and Load Transfer Switches

3KC Transfer Switching Equipment up to 3200 A 3KC8 Automatic Transfer Switching Equipment (ATSE) from 250 to 3200 A

## **Basic units**

Rated uninterrupted current I <sub>u</sub>	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A	d					
4-pole Flat terminals 250					1	1CL
250		3KC8438-0CA22-0GA3		1	1 unit	ICL
400		3KC8442-0DA22-0GA3		1	1 unit	1CL
630		3KC8446-0EA22-0GA3		1	1 unit	1CL
800 1000		3KC8448-0FA22-0GA3 3KC8450-0FA22-0GA3		1	1 unit 1 unit	1CL 1CL
1250		3KC8452-0GA22-0GA3		1	1 unit	1CL
1600		3KC8454-0HA22-0GA3		1	1 unit	1CL
2000 2500 3200		3KC8456-0JA22-0GA3 3KC8458-0JA22-0GA3 3KC8460-0JA22-0GA3		1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL

## Transfer Switching Equipment and Load Transfer Switches

## 3KC Transfer Switching Equipment up to 3200 A

3KC3 Transfer Switching Equipment (RTSE) and 3KC6 (ATSE) from 40 to 160 A

Accessories and spare parts

	<b>g data</b> Version	00	Article No.	Price	PU	PS	PC
	version	d		per PU		P5	P
Bridging bars							
_	For load-side connection						
	• For 40 125 A • For 160 A		3KC9618-2 3KC9618-3		1	1 unit 1 unit	1C 1C
Terminal covers			01/00004.0			et annata	10
	• For 40 160 A, contains 2 units, 1 unit covers 4 poles		3KC9604-2		1	1 unit	10
Auxiliary conductor te							
	• For 40 160 A, contains 2 units		3KC9622-2		1	1 unit	10
Auxiliary switches	Auxiliary switches for 40 160 A,						
аналананананананананананананананананана	for 250 V AC / 5 A or for 24 V DC / 2 A, 1 changeover contact for each position 0, I, II Max. 2 auxiliary switches can be mounted per transfer switching equipment unit • with separate contacts • with linked common contacts		3KC9603-1 3KC9603-2		1	1 unit 1 unit	1C 1C
Sealing units							
<b>a</b>	<ul> <li>Sealable cover</li> <li>For 3KC6 (ATSE) 40 160 A (incl. bolt set and sealing ribbons)</li> </ul>	_	3KC9721-1		1	1 unit	1C
3KC9721-1	<ul><li>Sealing ribbon</li><li>Also as spare part for sealable cover</li></ul>		3KC9621-2		1	1 unit	1C
	• For 40 3200 A, 10 units						
Autotransformers							
SIEMENS CONTRACTOR	• For 40 160 A • 400 V/230 V AC; 400 VA		3KC9624-1		1	1 unit	1C
Dual power supply							
	<ul> <li>For 3KC3 and 3KC4 (RTSE) 40 3200 A</li> <li>240 V AC, 3 A</li> </ul>		3KC9625-1		1	1 unit	1C

3KC Transfer Switching Equipment up to 3200 A 3KC4 Transfer Switching Equipment (RTSE) and 3KC8 (ATSE) from 250 A to 3200 A

## Accessories and spare parts

## Selection and ordering data

	Version	SD	Article No.	Price	PU	PS	PG
			www.siemens.com/ product?Article No.	per PU			
Bridging bars		d					
Bridging bars	For load-side connection						
	Single-pole						
	Contains 1 unit						
	<ul> <li>For 3-pole transfer switches 3 units, for 4-pole transfer switches 4 units are required.</li> </ul>						
-	• For 250 A		3KC9818-2		1	1 unit	1CL
D							
	• For 400 A		3KC9818-3		1	1 unit	1CL
	• For 630 A		3KC9818-4		1	1 unit	1CL
0							
	• For 800 1000 A		3KC9818-5		1	1 unit	1CL
	• For 1250 A		3KC9818-6		1	1 unit	1CL
•••							
ARE .	• For 1600 A		3KC9818-7		1	1 unit	1CL
Terminal covers							
A THE THE	• For 250 400 A, 3 units, 1 unit covers one pole		3KC9804-1		1	1 unit	1CL
	• For 630 A, 3 units, 1 unit covers one pole		3KC9804-3		1	1 unit	1CL
	<ul> <li>For 250 400 A, 4 units, 1 unit covers one pole</li> <li>For 630 A, 4 units, 1 unit covers one pole</li> </ul>		3KC9804-2 3KC9804-4		1 1	1 unit 1 unit	1CL 1CL

## Transfer Switching Equipment and Load Transfer Switches

## 3KC Transfer Switching Equipment up to 3200 A

3KC4 Transfer Switching Equipment (RTSE) and 3KC8 (ATSE) from 250 A to 3200 A

			Access	ori	es and	spare	parts
			Article No. Pr www.siemens.com/ per product?Article No.		PU (UNIT, SET, M)	PS	PG
Copper bar connection		u					
	Suitable quantities, see page 8/57						
	• For 2000 2500 A, C-bracket, part A		3KC9811-0		1	1 unit	1CL
	• For 2000 3200 A, bolt set, part B, 45 mm		3KC9811-1		1	1 unit	1CL
	• For 2000 3200 A, bolt set, part B, 35 mm,		3KC9811-2		1	1 unit	1CL
-	short length • For 2000 3200 A, T-bracket, part C		3KC9811-3		1	1 unit	1CL
	• For 2000 3200 A, 1-bracket, part C		3663011-3		I	1 unit	ICL
C. C	• For 2000 3200 A, L-bracket, part D, contains 2 units		3KC9811-4		1	1 unit	1CL
	• For 2000 3200 A, bridging bar, part E		3KC9818-8		1	1 unit	1CL
Power supply kits and	voltage sensing cables for ATSE						
	For 2-pole applications, infeed from below, with power supply						
	• For 250 A, 3-pole switch		3KC9833-1		1	1 unit	1CL
	<ul> <li>For 400 A, 3-pole switch</li> <li>For 630 A, 3-pole switch</li> </ul>		3KC9833-2 3KC9833-3		1	1 unit 1 unit	1CL 1CL
	• For 800 1000 A, 3-pole switch		3KC9833-4		1	1 unit	1CL
	• For 1250 A, 3-pole switch		3KC9833-5		1	1 unit	1CL
	<ul> <li>For 1600 A, 3-pole switch</li> <li>For 2000 3200 A, 3-pole switch</li> </ul>		3KC9833-6 3KC9833-7		1 1	1 unit 1 unit	1CL 1CL
	For 2-pole applications, infeed from above, with power supply						
	• For 250 A, 3-pole switch		3KC9834-1			1 unit	1CL
	<ul><li>For 400 A, 3-pole switch</li><li>For 630 A, 3-pole switch</li></ul>		3KC9834-2 3KC9834-3		1	1 unit 1 unit	1CL 1CL
			3669034-3		I	T UTIIL	ICL
	• For 800 1000 A, 3-pole switch		3KC9834-4		1	1 unit	1CL
	<ul><li>For 1250 A, 3-pole switch</li><li>For 1600 A, 3-pole switch</li></ul>		3KC9834-5 3KC9834-6		1	1 unit 1 unit	1CL 1CL
	<ul> <li>For 1600 A, 3-pole switch</li> <li>For 2000 3200 A, 3-pole switch</li> </ul>		3KC9834-5 3KC9834-7		1	1 unit 1 unit	ICL ICL

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3KC Transfer Switching Equipment up to 3200 A 3KC4 Transfer Switching Equipment (RTSE) and 3KC8 (ATSE) from 250 A to 3200 A

Accessories and spare parts

 Version	SD d	Article No. Price www.siemens.com/ per PU product?Article No.		PS	PG
<ul> <li>For 3-pole applications, infeed from below<sup>1</sup>)</li> <li>For 250 A, 3-pole switch</li> <li>For 400 A, 3-pole switch</li> <li>For 630 A, 3-pole switch</li> </ul>		3KC9822-1 3KC9822-2 3KC9822-3	1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
<ul> <li>For 800 1000 A, 3-pole switch</li> <li>For 1250 A, 3-pole switch</li> </ul>		3KC9822-4 3KC9822-5	1	1 unit 1 unit	1CL 1CL
<ul> <li>For 1600 A, 3-pole switch</li> <li>For 2000 3200 A, 3-pole switch</li> </ul>		3KC9822-6 3KC9822-7	1 1	1 unit 1 unit	1CL 1CL
<ul> <li>For 3-pole applications, infeed from above<sup>1)</sup></li> <li>For 250 A, 3-pole switch</li> <li>For 400 A, 3-pole switch</li> <li>For 630 A, 3-pole switch</li> </ul>		3KC9832-1 3KC9832-2 3KC9832-3	1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
<ul> <li>For 800 1000 A, 3-pole switch</li> <li>For 1250 A, 3-pole switch</li> <li>For 1600 A, 3-pole switch</li> <li>For 2000 3200 A, 3-pole switch</li> </ul>		3KC9832-4 3KC9832-5 3KC9832-6 3KC9832-7	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL
<ul> <li>For 4-pole applications, infeed from below, with power supply</li> <li>For 250 A, 4-pole switch</li> <li>For 400 A, 4-pole switch</li> <li>For 630 A, 4-pole switch</li> </ul>	,	3KC9830-1 3KC9830-2 3KC9830-3	1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
<ul> <li>For 800 1000 A, 4-pole switch</li> <li>For 1250 A, 4-pole switch</li> <li>For 1600 A, 4-pole switch</li> <li>For 2000 3200 A, 4-pole switch</li> </ul>		3KC9830-4 3KC9830-5 3KC9830-6 3KC9830-7	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL
<ul> <li>For 4-pole applications, infeed from above, with power supply</li> <li>For 250 A, 4-pole switch</li> <li>For 400 A, 4-pole switch</li> <li>For 630 A, 4-pole switch</li> </ul>		3KC9831-1 3KC9831-2 3KC9831-3	1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
<ul> <li>For 800 1000 A, 4-pole switch</li> <li>For 1250 A, 4-pole switch</li> <li>For 1600 A, 4-pole switch</li> <li>For 2000 3200 A, 4-pole switch</li> <li>ilable for 3-pole cables: see manual for installation with transformer</li> </ul>		3KC9831-4 3KC9831-5 3KC9831-6 3KC9831-7	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL

<sup>1)</sup> Power supply not available for 3-pole cables; see manual for installation with transformer and/or with DPS in Siemens Industry Online Support at www.siemens.com/lowvoltage/manuals

## Transfer Switching Equipment and Load Transfer Switches

3KC Transfer Switching Equipment up to 3200 A

3KC4 Transfer Switching Equipment (RTSE) and 3KC8 (ATSE) from 250 A to 3200 A

			Accesso	ries and	spare	parts
	Version	SD d	Article No. Pric www.siemens.com/ per Pl product?Article No.		PS	PG
Auxiliary switches						
	One auxiliary switch contains 2 leading changeover contacts, one changeover contact for position I and one changeover contact for position II (incl. bolt set) Max. two auxiliary switches can be installed per transfer switching equipment unit. 250 V AC/12 A (AC-13) or for 24 V DC/14 A (DC-13) • For 250 630 A		3KC9803-1	1	1 unit	1CL
	• For 800 1600 A		3KC9803-2	1	1 unit	1CL
	• For 2000 3200 A: included in the basic unit		-			
Phase barriers						
	<ul> <li>For 250 400 A, contains 2 units (for 3P)</li> <li>For 250 400 A, contains 3 units (for 4P)</li> <li>For 630 A, contains 2 units (for 3P)</li> <li>For 630 A, contains 3 units (for 4P)</li> <li>For 800 3200 A: included in the scope of supply of the basic unit</li> </ul>		3KC9808-1 3KC9808-6 3KC9808-2 3KC9808-7	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL
Mounting accessories						
	<ul> <li>Cover frame</li> <li>The cover frame helps to implement a clean and safe door cut-out to enable access to the front of the 3KC8 transfer switching equipment (electronic module and operation of the motorized operating mechanism)</li> <li>For ATSE 250 630 A</li> </ul>	-	3KC9820-4	1	1 unit	1CL
	• For ATSE 800 3200 A		3KC9820-5	1	1 unit	1CL
	<b>Spacers</b> Increase the space between the mounting rail and the cabinet rear panel or the mounting frame • For 250 630 A, contains 2 units		3KC9820-3	1	1 unit	1CL
Sealing units	Sealable cover					
d.	<ul> <li>For controller (electronic module) ATSE 250 3200 A, (incl. bolt set and sealing ribbons)</li> <li>Sealing ribbon</li> <li>Also as spare part for sealable cover</li> <li>For 40 3200 A, 10 units</li> </ul>		3KC9821-0 3KC9621-2	1	1 unit 1 unit	1CL 1CL
3KC9821-0						

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## Transfer Switching Equipment and Load Transfer Switches

3KC Transfer Switching Equipment up to 3200 A 3KC4 Transfer Switching Equipment (RTSE) and 3KC8 (ATSE) from 250 A to 3200 A

Accessories and spare parts Price per PU SD Article No. PG PS Version PU (UNIT, product?Article No. SET, M) d Autotransformers 3KC9824-1 • For 250 ... 3200 A, 3-pole 1 1 unit 1CL • 400 V/230 V AC, 200 VA Dua power supply 3KC9625-1 • For 3KC3 and 3KC4 (RTSE) 40 ... 3200 A 1CL 1 1 unit • 240 V AC, 3 A External display Display For installing in the control cabinet door • For 3KC8 (ATSE) 250 ... 3200 A 3KC9823-0 1CL 1 1 unit **Connection cable** • for external display, 250 ... 3200 A, RJ45 cable, 3 m 3KC9823-2 1 1 unit 1CL

## Transfer Switching Equipment and Load Transfer Switches

## 3KC Transfer Switching Equipment up to 3200 A

3KC4 Transfer Switching Equipment (RTSE) and 3KC8 (ATSE) from 250 Å to 3200 Å

				Accessori	es and	spare	parts
	Version	SD	Article No. www.siemens.com product?Article No		PU (UNIT, SET, M)	PS	PG
Terminal plates							
	For protecting the front side at the upper and lower connecting terminals • For 250 400 A, 3-pole • For 250 400 A, 4-pole	•	3KC9827-1 3KC9828-1		1 1	1 unit 1 unit	1CL 1CL
~	• For 630 A, 3-pole • For 630 A, 4-pole		3KC9827-2 3KC9828-2		1	1 unit 1 unit	1CL 1CL
2	<ul> <li>For 800 1250 A, 3-pole</li> <li>For 800 1250 A, 4-pole</li> </ul>		3KC9827-3 3KC9828-3		1	1 unit 1 unit	1CL 1CL
	• For 1600 A, 3-pole • For 1600 A, 4-pole		3KC9827-4 3KC9828-4		1	1 unit 1 unit	1CL 1CL
	<ul> <li>For 2000 3200 A, 3-pole</li> <li>For 2000 3200 A, 4-pole</li> </ul>		3KC9827-5 3KC9828-5		1	1 unit 1 unit	1CL 1CL

## Transfer Switching Equipment and Load Transfer Switches

3KC Transfer Switching Equipment up to 3200 A 3KC4 Transfer Switching Equipment (RTSE) and 3KC8 (ATSE) from 250 A to 3200 A

Accessories and spare parts Price per PU SD Article No. PU PG PS Version (UNIT, product?Article No. SET, M) d Spare parts Motorized operating mechanisms • For 250 ... 400 A 3KC9826-1 1 1 unit 1CL • For 630 A 3KC9826-2 1 1 unit 1CL 3KC9826-3 • For 800 ... 1250 A 1 1 unit 1CL 3KC9826-4 • For 1600 A 1 1 unit 1CL 3KC9826-5 • For 2000 ... 3200 A 1 1 unit 1CL Controller (electronic module) • For ATSE 250 ... 3200 A 3KC9826-0 1 1 unit 1CL

## **Transfer Switching Equipment and Load Transfer Switches**

3KC Transfer Switching Equipment up to 3200 A

3KC4 Transfer Switching Equipment (RTSE) and 3KC8 (ATSE) from 250 A to 3200 A

Accessories and spare parts

## More information

### **Direct connections**

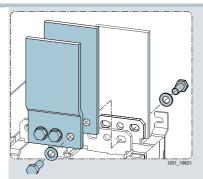
			C-bracket	Bolt set, 45 mm	Bolt set, 35 mm	T-piece	L-bracket	Bridging bars
			7- 11				200	
	Copper bar connection kit for transfer switching equipment from 2000 to 3200 A	Number of poles	3KC9811-0	3KC9811-1	3KC9811-2	3KC9811-3	3KC9811-4	3KC9818-8
Line side	Direct connection	3	-	-	6 x	-	-	-
	2 x 100 x 10 mm; 4 x 100 x 5 mm	4	-	-	8 x	-	-	-
	Direct connection, rotated 90°	3	6 x	-	-	6 x	6 x	-
	2 x 100 x 10 mm; 4 x 100 x 5 mm	4	8 x	-	-	8 x	8 x	-
	Direct connection	3	Included <sup>1)</sup>	3 x	3 x	-	-	-
	3 x 100 x 10 mm (necessary for 3200 A)	4	Included <sup>1)</sup>	4 x	4 x	-	-	-
	Direct connection, rotated 90°	3	Included <sup>1)</sup>	-	-	6 x	6 x	-
	3 x 100 x 10 mm (necessary for 3200 A) <sup>2)</sup>	4	Included <sup>1)</sup>	-	-	8 x	8 x	-
Load side		3	6 x	-	-	6 x	6 x	-
	2 x 100 x 10 mm; 4 x 100 x 5 mm	4	8 x	-	-	8 x	8 x	-
	Direct connection, rotated 90°	3	6 x	6 x	-	-	-	3 x
	with bridging bar 2 x 100 x 10 mm; 4 x 100 x 5 mm	4	8 x	8 x	-	-	-	4 x
	Direct connection, rotated 90°	3	Included <sup>1)</sup>	-	-	6 x	6 x	-
	3 x 100 x 10 mm (necessary for 3200 A)	4	Included <sup>1)</sup>	-	-	8 x	8 x	-
	Direct connection, rotated 90°	3	Included <sup>1)</sup>	6 x	-	-	-	3 x
	with bridging bar 3 x 100 x 10 mm (necessary for 3200 A)	4	Included <sup>1)</sup>	8 x	-	-	-	4 x
For conn		or 3200 A. 500 A to		<sup>2)</sup> Vertical con		- oved up to 290	- 10 A; horizontal	

3KC9811-0 is included for all 3KC transfer switches for 3200 A. For connection of 3KC transfer switches for 2000 ... 2500 A to 3 x 100 x 10 mm busbars, the following must be ordered: 1)

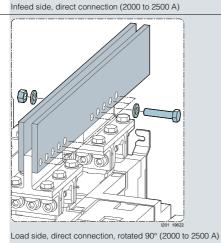
- 3KC9811-0, 6 units for 3-pole switches

- 3KC9811-0, 8 units for 4-pole switches

Line side

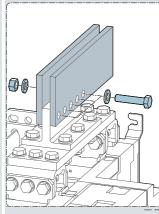


Load side



6010

Infeed side, direct connection, rotated 90° (2000 to 2500 A)



Load side, direct connection, rotated 90°, with bridging bar (2000 to 2500 A)

# **Transfer Switching Equipment and Load Transfer Switches** Transfer Control Devices

Introduction					
Overview					_
Devices	Page	Application	Used	l in	
			Non-residential buildings	Residential buildings	Industry
Transfer control devices					
SKC ATC6300 transfer control device NEW	8/63	The 3KC ATC6300 transfer control device, equipped with two circuit breakers with motorized operating mechanism or with remote transfer switching equipment (RTSE), serves as a transfer system that automatically or manually switches between two power supply systems in low-voltage power distribution applications. The 3KC ATC6300 transfer control device offers • Several programmable inputs and outputs • Optional communication link • LCD Settings are defined via user-friendly software.		1	•
3KC ATC6500 transfer control device NEW	8/64	The 3KC ATC6500 transfer control device can do everything the 3KC ATC6300 can. The 3KC ATC6500 also offers the option of controlling an additional tie breaker. It can be used to implement a wide range of applications with critical load management. Load shedding of non-critical loads can therefore be implemented. The ATC6500 also features a permanently integrated RS 485 interface.		1	~
3KC ATC3100 transfer control devices	8/66	The 3KC ATC3100 transfer control device constitutes the transfer control system together with two circuit breakers with motorized operating mechanism. It is a simplified version of the 3KC ATC6300 and enables fast parameterization without software.	1	1	5

Transfer Control Devices

General data

### Overview



3KC ATC transfer control devices: Top: 3KC ATC6300, middle: 3KC ATC6500, bottom: 3KC ATC3100

## Automatic transfer control with the 3KC ATC transfer control device

Equipped with two motorized circuit breakers or with remote transfer switching equipment, 3KC ATC transfer control devices constitute an open transfer control system.

The 3KC ATC transfer control devices control the transfer automatically, while incorporating set limit values and delay times. They immediately detect fluctuations in the priority power supply and transfer to the standby power supply if the standby power supply can provide the required power supply quality. When the required power supply quality is restored in the priority power supply, the control device automatically initiates a return transfer.

If a generator is feeding the standby and/or the priority power supply, the control device also offers suitable setting options, such as the generator lead time.

As well as the ability to control two circuit breakers, the ATC6500 offers the additional option of controlling a third breaker, the tie breaker. Load shedding of non-priority loads can therefore be implemented.

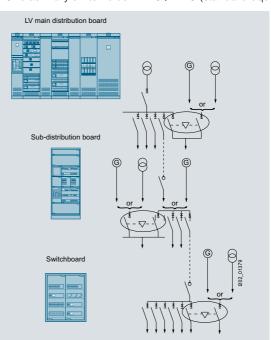
### Src1 and Src2, configured with Siemens switching devices

The following switching devices have been tested in conjunction with 3KC ATC6300/6500/3100 transfer control devices:

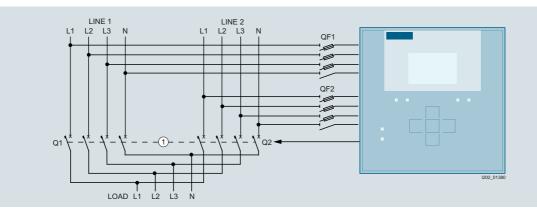
- 3VA molded case circuit breakers
- 3VL molded case circuit breakers (3KC ATC6300/3100 only)
- 3VT molded case circuit breakers (3KC ATC3100 only)
- 3WL10 air circuit breakers (3KC ATC6500 only)
- 3WL air circuit breakers FSI-III
- 3WT air circuit breakers
- 3KC3/4 remote transfer switching equipment (3KC ATC6300 only)

The circuit breakers must be equipped with the following accessories (please see the corresponding manual at www.siemens.com/lowvoltage/manuals for exact circuit diagrams)

- 3VL/3VA/3VT molded case circuit breakers:
  - One motorized operating mechanism
  - One alarm switch
  - Two auxiliary switches 1 NO / 1 NC
- 3WL/3WT air circuit breakers:
  - One motorized operating mechanism
- One closing solenoid
- One auxiliary release (shunt release)
- One tripped signal switch
- One auxiliary switch block 2 NO / 2 NC (standard equipment)



Applications in low-voltage power distribution



# **Transfer Switching Equipment and Load Transfer Switches** Transfer Control Devices

## General data

Configuration							
Scenario	Description	Circuit diagram		Source2 (SRC2)		Breaker2 (BRK2)	Breaker3 (TB, TB/NPL
		ching devices (3KC ATC 3100, 6300, 6500)					
Connection of one of the two sources according to setting	In this application, 2 motorized circuit breakers or one RTSE (remote transfer switching equipment) can be used. The 3KC ATC connects one	$\bigcirc (G) (G) (G)$	Off	Off	ł	Y	
setting	of the two sources according to the setting. Note:		Off	On		Y	
	The 3KC ATC3100 is only suitable for one network/network or network/generator application		On	On	\ I	, ,	
		1201_19753				Ì	
Automatic tran	sfer control with 3 switchin	g devices (only possible with 3KC ATC 6500)					
Source 1 (SRC1) supplies all loads, source 2 (SRC2) only the	In this application, only the priority load is supplied by the secondary source (source 2 here) when the priority source	SRC1 SRC2	Off	Off	ł	ł	Y
priority load (LOAD)	fails (source 1 here). In the normal case (source 1 available), both sources are supplied by the priority network.	$\bigcup_{i=1}^{n} \left( \begin{array}{c} G \\ G \end{array} \right) \bigcup_{i=1}^{n} \left( \begin{array}{c} G \\ G \end{array} \right)$	On	Off		ł	
	supplied by the phonty hetwork.		Off	On	ł		Y
		NPL LOAD 1201_19757	On	On		ł	
The source which is still available	In this application, the two loads are supplied by one source each in the normal case	SRC1 SRC2	Off	Off	ł	ł	Y
supplies all loads (NPL and LOAD)	(both sources available). If one source fails, the priority load (LOAD) and the non-priority load (NPL) are		On	Off		ł	
	supplied by the source that is still available.	BRK1	Off	On	ł		
		TB NPL LOAD <sup>1201_19755</sup>	On	On			Y
Source 1 (SRC1) supplies all loads, source 2 (SRC2) only the	In this application, the two loads are supplied by one source each in the normal case (both sources available).	SRC1 SRC2	Off	Off	ł	ł	Y
priority load (LOAD)	If source 2 fails, both the priority load and the non-priority load are supplied by source 1. Source 2 only supplies the	$\left(\begin{array}{c} \mathbf{G} \\ \mathbf{G} \end{array}\right) \left(\begin{array}{c} \mathbf{G} \\ \mathbf{G} \end{array}\right)$	On	Off		ł	
	priority load however.		Off	On	Y		\ \
		TB NPL LOAD 1201_19755	On	On			Y
supplies all loads, source 2	In this application, only the priority load is supplied by the secondary source (source 2	SRC1 SRC2	Off	Off	Y	ł	\ \
TB/NPL switches off the non-	here) when the priority source fails (source 1 here). In the normal case (source 1 available), both sources are	$\bigcup_{i=1}^{n} \left( \underbrace{\mathbf{G}}_{i} \right) \bigcup_{i=1}^{n} \left( \underbrace{\mathbf{G}}_{i} \right) $	On	Off		ł	
priority load	supplied by the priority network.	BRK1 → → BRK2	Off	On	ł		Y
		TB/NPL LOAD 1201_19756	On	On		ł	
Explanations	SRC 1/2: Source 1/2 BRK 1/2: Switching device 1/2 LOAD: Priority load in this case	TB: Tie breaker (switching device 3) TB/NPL: Tie breaker/Non-priority load = Breaker for non-priority load (switching device 3)	Off: Sou	rce has fa	functional iled comple power supp		ot providing
	NPL: Non-priority load		Brea	aker close	ed		

Transfer Control Devices

General data

## Technical specifications

		ATC6300	ATC6500	ATC3100
Measuring inputs				
Max. rated voltage Un	V AC			
Phase-phase	V AC	480	600	400
<ul> <li>Phase-neutral conductor</li> </ul>	V AC	277	346	230
Phase-phase measuring range	V AC	50 576	50 720	
Phase-neutral conductor measuring range	Hz	50 333	30 415	161 264
Frequency range		4565	4565	5060
Measuring method		RMS value (true RMS)		
Measuring input impedance				
Phase-phase	MΩ	> 1.0	> 1.1	> 1.1
<ul> <li>Phase-neutral conductor</li> </ul>	MΩ	> 0.5	> 0.55	> 1.1
Connection method				
Relative error of measurement method	%	± 0.25	± 0.25	± 5
Power supply				
Auxiliary power supply				
<ul> <li>Rated voltage U<sub>n</sub></li> </ul>				
- AC	V AC	100 240	100 240	220 240
- DC	V DC	110 250	110 250	
Operating range				
- AC	V AC	90 264	90264	161 264.5
- DC		93.5 300	93.5 300	
Frequency	Hz	45 66	45 66	50 60
Battery power supply				
Rated voltage U <sub>n</sub>				
- DC	V DC	12/24	12/24/48	24
Operating range	100			L '
- DC	VDC	7.5 33	7.5 57.6	18 36
Max. power consumption at $U_n = 240$ V AC	VA	9.5	12.5	6
Max. power loss	•/ (	3.5	12.0	0
• At 240 V AC	W	3.8	5.5	4.5
• At 250 V DC	W	3.6	4.7	
• At 250 V DC	W	2.9	4.7	 4
• At 24 V DC	W		4.2	
	vv		4.2	
Max. power consumption		000	400	
• At 12 V DC	mA	230	400	
• At 24 V DC	mA	120	220	120
At 48 V DC	mA		100	
Digital inputs				-
Number of inputs		6, programmable	8, programmable	5
Design of the switching input		Negative	Negative	
Input current	mA	≤8	≤ 8	≤ 8
Input signal				
Logic state "0"	V DC		≤2	
Logic state "I"	V DC	≥ 3.4	≥ 3.4	
Input signal delay	ms	≤ 50	≤ 50	≤ 40
Relay outputs				
Number of outputs		7, programmable	7, programmable	9
Contact configuration		6 x 1 NO: 8 A, 250 V AC (AC-1) 1 x 1 CO: 8 A, 250 V AC (AC-1)	2 x 1 NO: 12 A, 250 V AC (AC-1) 2 x 1 NO: 8 A, 250 V AC (AC-1) 3 x 1 CO: 8 A, 250 V AC (AC-1)	6 x 1 NO, 8 A, 250 V AC 3 x 1 NO, 16 A, 250 V AC
Expandability				
Can be expanded using expansion modules		Yes, max. 2	Yes, max. 3	
Can be expanded with		4DI	4DI	
		4DO, SSR	4DO, SSR	
		2DI/2DO, SSR 2DI/2DO, relav	2DI/2DO, SSR 2DI/2DO, relav	
		2DO, relay	2DO, relay	
		RS 485	RS 485	
		2DI/2DO, relay 2DO, relay	2DI/2DO, relay 2DO, relay	

Transfer Control Devices

## General data NEW

		ATC6300	ATC6500	ATC3100
Application				
Transfer possible between		Network/network, network/generator, generator/generator	Network/network, network/generator, generator/generator	Network/network, network/generator
Controllable switching devices with motorized operating mechanism		2	3	2
In-phase transition			1	
Implementation of a transfer in combination with:		3WL FSI-III, 3WT, 3KC3, 3KC4, 3VA, 3VL	3WL FSI-III, 3WL10, 3WT, 3VA	3VA, 3VL, 3VT, 3WL, 3WT
Communication				
Integrated RS 485 interface			1	
Optional RS 485 interface		1	1	
<ul> <li>Settable transmission rate</li> </ul>	bit/s	1200 11500	1200 11500	
Optional Ethernet interface		1	1	
<ul> <li>Settable transmission rate</li> </ul>		1200 11500	1200 11500	
Real-time clock				
ATC component		1	1	
Operating time without voltage		300 s	14 days	
Insulation voltage			,	
-	V AC	480 (at the measuring inputs)	600 (at the measuring inputs)	400
		250 (at the auxiliary power supply and relay outputs)	250 (at the auxiliary power supply and relay outputs)	
Ambient conditions				
Operating temperature	°C	-30 70	-30 70	-25 70
Storage temperature	°C	-30 80	-30 80	-40 80
Relative humidity	%	80	80	95
Max. pollution degree		2	2	3
Overvoltage category		3	3	4
Connections				
Terminal type		Removable/plug-in	Removable/plug-in	Removable/plug-in
Cable cross-section	mm2	0.2 2.5 (24 12 AWG)	0.2 2.5 (24 12 AWG)	0.5 2.5 (20 12 AWG)
Cable cross-section acc. to UL 508		0.75 2.5 (18 12 AWG)	0.75 2.5 (18 12 AWG)	
Max. tightening torque	Nm	0.56	0.56	0.4
Enclosure		0.00		0.1
Enclosure material		Polycarbonate	Polycarbonate	Thermoplastic Bayblend FR3010
Version		Door installation	Door installation	Door installation, DIN rail mounting, floor mounting
Degree of protection		IP40 front, IP20 rear	IP40 front, IP20 rear	IP41 front, IP20 rear
Weight	g	600	680	1050
Dimensions (H x W x D)	mm	144 x 144 x 43.3	180 x 240 x 32.6	171.2 x 131.2 x 99

✓ Available

-- Not available

## More information

### Manual

For the manuals for the transfer control devices, see https://support.industry.siemens.com/cs/ww/en/ view/109755149

### Internet

More information on the Internet at: www.siemens.com/controls ATC6300

## Transfer Switching Equipment and Load Transfer Switches

Transfer Control Devices

### NEW 3KC ATC6300 transfer control device

### Metering functions

The 3KC ATC6300 offers the following metering functions:

- Phase sequence
- · Phase failure
- Minimum / maximum voltage
- Minimum / maximum frequency
- Voltage unbalance

### Benefits

- Backlit graphic LCD, 128 x 80 pixels, for displaying measurements, events and alarms in five languages (English, German, French, Italian, Spanish)
- Easy parameterization via the user interface of the device or via powerconfig (from powerconfig version 3.10)
- Control of functions with microprocessor with virtual real-time clock
- Auxiliary voltage supply is possible by means of taps from the supply sources (110-240 V AC, 50/60 Hz) or by means of a separate DC source (12-24 V DC)
- Measurement of three-phase networks with or without neutral conductor, of two-phase networks, and of single-phase networks
- Control of circuit breakers with motorized operating mechanism, remote transfer switching equipment or contactors
- Suitable for network to network, network to generator or generator to generator applications
- 6 freely programmable digital inputs and 7 programmable relay outputs fitted to the device
- Expandable using up to 2 expansion modules with digital inputs and outputs, and by means of communications interfaces (RS 485, Ethernet)

### Integration

### Implementation of an automatic transfer

The 3KC ATC6300 transfer control device is used to automatically and manually switch from a main power supply to a standby power supply and vice versa. In the event that system faults occur, the 3KC ATC6300 transfer control device controls the switching operations fully automatically. This ensures a very high level of operational continuity.

The following devices are ideally matched to the 3KC ATC6300 transfer control device:

- 3WL, 3WT air circuit breakers
- 3VA, 3VL molded case circuit breakers
- 3KC3, 3KC4 remote transfer switching equipment

### Selection and ordering data

3KC ATC6300 transfer control device

Compatibility with 3VA

circuit breakers.

generators.

Expandability thanks to communication interfaces

with Modbus TCP, RS 485 with Modbus RTU and USB.

Modbus (e.g. Siemens PLCs) and to control it.

The 3KC ATC6300 can be integrated into a communication

environment using expansion modules. For communication,

the 3KC ATC6300 supports the optional interfaces Ethernet

The 3KC ATC6300 provides all available transfer control system

also be controlled via these interfaces. These functions make it

possible to integrate the ATC6300 into an additional monitoring

software (e.g. SCADA) or other intelligent devices that support

Simple parameterization using powerconfig or the front LCD

In addition to operation and parameterization via the front LCD,

using powerconfig. Thanks to the optionally available USB front

interface, the device can also be parameterized without opening

the control cabinet door. The 3KC ATC6300 thus offers a high

level of convenience and quick access to all device settings,

such as complex settings that arise when connecting

you can also monitor and set the parameters of the controller

The 3KC ATC6300 enables transfers between two energy sources in combination with two motorized 3VA molded case

and supply data via these interfaces. The 3KC ATC6300 can

Overview

	-						
	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
MEMONS ATCEND			Screw connection	Ð			
	<ul> <li>3KC ATC6300 transfer control device</li> <li>Control panel instrument 144 x 144 x 43.3 mm with the following features:</li> <li>Screw terminal connection</li> <li>AC/DC power supply unit: <ul> <li>100 240 V AC, 45 65 Hz</li> <li>7.5 33 V DC</li> <li>Rated setting range: 100 480 V AC</li> </ul> </li> </ul>		3KC9000-8TL40		1	1 unit	1CL

8

For accessories, see page 8/65.

Transfer Control Devices

### 3KC ATC6500 transfer control device NEV

### Overview



3KC ATC6500 transfer control device

### Load management with the ATC6500

As well as transferring between 2 sources and 2 switching devices, the 3KC ATC6500 can control an additional tie breaker. It can therefore be used to implement a wide range of applications that distinguish between priority and non-priority loads. The ATC automatically assumes control of the tie breaker according to the configured application.

### In-phase transition

The ATC6500 is capable of in-phase transition. In this application, the ATC measures the deviation between the voltage, the frequency and the phase displacement angle cos phi of both sources. If the requirements for synchronism are attained on a return to the priority source, transfer is initiated. During the transfer, one breaker is opened before the other can be closed. In other words, parallel network operation is not present. In-phase transition offers the advantage that transfer times can be reduced to a minimum during the return, as transfer only takes place when synchronism is present. A stable load transfer is also achieved.

If the state of synchronism is not attained within a defined time, transfer takes place with standard conditions.

### Compatibility with 3VA

The 3KC ATC6500 enables transfer between two energy sources in combination with two motorized 3VA molded case circuit breakers.

### Simple parameterization using powerconfig or via the front LCD

The transfer control device offers the same convenience as the 3KC ATC6300 in this respect.

## Selection and ordering data

### Integrated RS 485 interface and expandability

The 3KC ATC6500 features an integrated RS 485 interface. It can also be expanded with the optional communication interfaces Ethernet with Modbus TCP and USB.

The 3KC ATC6500 provides all available transfer control system and line data via these interfaces. The 3KC ATC6500 can also be controlled via these interfaces. The ATC6500 can therefore be integrated into additional monitoring software (e.g. SCADA) or other intelligent devices that support Modbus (e.g. Siemens PLCs) for control purposes.

### Metering functions

In addition to the metering functions of the 3KC ATC6300, the 3KC ATC6500 offers the following:

- Difference in phase displacement angle coso
- Voltage difference of the two sources
- Frequency difference of the two sources

### Benefits

The 3KC ATC6500 transfer control device offers all the advantages and functions of the 3KC ATC6300. In addition, it offers

- 8 freely programmable digital inputs and 7 programmable relay outputs fitted to the device
- Integrated RS 485 interface
- Expandable with additional expansion modules (max. 3) with digital inputs and outputs, and with communications interfaces (Ethernet with Modbus TCP) and USB interface

### Integration

### Implementation of an automatic transfer

The 3KC ATC6500 transfer control device is used to automatically or manually transfer from a priority power supply to a standby power supply and vice versa. In the event that system faults occur, the 3KC ATC6300 transfer control device controls the switching operations fully automatically. This ensures a very high level of operational continuity.

The following devices are ideally matched to the 3KC ATC6500 transfer control device:

- 3WL10, 3WL FSI-III, 3WT air circuit breakers
- 3VA, 3VA27 molded case circuit breakers

guada						
Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					
		Screw connection	$\bigcirc$			
3KC ATC6500 transfer control device		3KC9000-8TL50		1	1 unit	1CL
Control panel instrument 180 x 240 x 32.6 mm with the following features:						
<ul> <li>Screw terminal connection</li> </ul>						
<ul> <li>AC/DC power supply unit:</li> <li>100 240 V AC, 45 65 Hz</li> <li>7.5 57.6 V DC</li> <li>Rated setting range: 100 600 V AC</li> </ul>						
	Version <b>3KC ATC6500 transfer control device</b> Control panel instrument 180 x 240 x 32.6 mm with the following features: • Screw terminal connection • AC/DC power supply unit: • 100 240 V AC, 45 65 Hz • 7.5 57.6 V DC	Version SD SD SD SD SD SC SC ATC6500 transfer control device Control panel instrument 180 x 240 x 32.6 mm with the following features: Screw terminal connection Screw terminal connection AC/DC power supply unit: - 100 240 V AC, 45 65 Hz - 7.5 57.6 V DC	Version       SD       Article No. www.siemens.com/ product?Article No. d         d       d       Screw connection         3KC ATC6500 transfer control device       3KC9000-8TL50         Control panel instrument 180 x 240 x 32.6 mm with the following features:       Screw connection         Screw terminal connection       AC/DC power supply unit:       AC/DC power supply unit:         - 100 240 V AC, 45 65 Hz       - 7.5 57.6 V DC       Actice Hz	Version SD Article No. Price www.siemens.com/ per PU product?Article No. d SE KC ATC6500 transfer control device SCrew connection SKC ATC6500 transfer control device SCrew terminal connection SCrew terminal connection AC/DC power supply unit: - 100 240 V AC, 45 65 Hz - 7.5 57.6 V DC	Version       SD       Article No.       Price per PU (UNIT, product?Article No.       Price per PU (UNIT, SET, M)         d       d       Screw connection       StC 9000-8TL50       1         3KC ATC6500 transfer control device       3KC9000-8TL50       1         Control panel instrument 180 x 240 x 32.6 mm with the following features:       Screw connection       1         Screw terminal connection       AC/DC power supply unit:       1         - 100 240 V AC, 45 65 Hz       - 7.5 57.6 V DC       1	Version       SD       Article No. www.siemens.com/ per PU (UNIT, SET, M)       PS (UNIT, SET, M)         d       d       Screw connection       SET, M)         d       d       Screw connection       1         3KC ATC6500 transfer control device       3KC9000-8TL50       1       1         Control panel instrument 180 x 240 x 32.6 mm with the following features:       Screw connection       1       1         Screw terminal connection       AC/DC power supply unit:       -       1       1       1         - 100 240 V AC, 45 65 Hz       -       7.5 57.6 V DC       1       1       1

Transfer Control Devices

Accessories for 3KC ATC6300 and ATC6500 transfer control devices

## Selection and ordering data

				_		
	Version	SD	Article No. Pri www.siemens.com/ per l product?Article No.	CE PU PU (UNIT, SET, M)	PS	PG
		d				
Expansion modul	es with digital inputs and outputs			_		
	<ul> <li>ATC6 expansion module 4DI</li> <li>Features 4 digital inputs:</li> <li>Including insulated 24 V DC/1 W power supply for digital inputs and sensors</li> </ul>		3KC9000-8TL60	1	1 unit	1CL
	ATC6 expansion module 4DO, SSR Features 4 solid-state-compatible digital outputs: • 4 NO contacts • Max. 55 mA at 30 V AC or 40 V DC		3KC9000-8TL61	1	1 unit	1CL
3KC9000-8TL61	<ul> <li>ATC6 expansion module 2DI/2DO, SSR Features 2 digital inputs and 2 solid-state-compatible digital outputs:</li> <li>Including insulated 24 V DC/1 W power supply for digital inputs and sensors</li> <li>2 NO contacts</li> <li>At solid-state-compatible output max. 55 mA at 30 V AC or 40 V DC</li> </ul>		3KC9000-8TL62	1	1 unit	1CL
	ATC6 expansion module 2D0, relay Features 2 relay outputs: • 2 CO contacts, 5 A, 250 V AC (AC-1)		3KC9000-8TL63	1	1 unit	1CL
	ATC6 expansion module 2DI/2DO, relay Features 2 digital inputs and 2 relay outputs: • 2 NO contacts, 5 A, 250 V AC (AC-1)		3KC9000-8TL64	1	1 unit	1CL
Expansion modul	es with communication interfaces					
	ATC6 RS 485 expansion module		3KC9000-8TL74	1	1 unit	1CL
	Features RS 485 interface					
	ATC6 Ethernet expansion module Features Ethernet interface		3KC9000-8TL75	1	1 unit	1CL
3KC9000-8TL74						
USB front interfac	ce					
	<ul><li>ATC6 USB front interface</li><li>For parameterization on the front using software:</li><li>Including mini-USB cable, 1.8 m</li></ul>	_	3KC9000-8TL73	1	1 unit	1CL
3KC9000-8TL73						
Protective seal						
	ATC6300 protective seal, 144 x 144 mm for IP65 protection on the front for 3KC ATC6300		3KC9000-8TL67	1	1 unit	1CL
3KC9000-8TL67						
	ATC6500 protective seal, 171.1 x 131.1 mm for IP65 protection on the front for 3KC ATC6500		3KC9000-8TL68	1	1 unit	1CL
3KC9000-8TL68						

Transfer Control Devices

### 3KC ATC3100 transfer control device

### Overview



3KC ATC3100 transfer control device

### Convenient handling

The 3KC ATC3100 transfer control device offers customers flexible and fast commissioning for implementing simple applications. The 3KC ATC3100 can be mounted in a control cabinet door, on a DIN rail or on a rear panel without additional accessories. By default, the transfer control device is supplied with a lockable safety cover (IP41). The connecting cable is pre-assembled to assist fast cabling.

The 3KC ATC3100 can be configured without software. Thanks to the well-thought-out concept, automatic changeover applications can be implemented with ease.

#### 3KC ATC3100 connecting cable for MCCB/ACB

You need the pre-assembled connecting cable (3KC9000-8EL62) to connect 3VL or 3WL molded case circuit breakers.

With this cable, connection of the molded case circuit breakers is fast and easy.

## Benefits

- Costs of installing the transformer are dispensed with
- Integrated DPS (double power supply) powers the motorized operating mechanisms of the connected circuit breakers for reliable switching
- Good readability of the system status by means of 10 LEDs
- 3 mounting options without additional accessories: door installation, DIN rail mounting and floor mounting
- Pre-assembled cable set for fast wiring to 3VL and 3WL molded case circuit breakers
- Terminal available for external 24 V DC power supply unit

#### Integration

### Implementation of an automatic transfer

The 3KC ATC3100 transfer control device is used to automatically and manually switch from a main power supply to a standby power supply and vice versa. In the event that system faults occur, the 3KC ATC3100 transfer control device controls the switching operations fully automatically. This ensures a very high level of operational continuity.

The 3KC ATC3100 transfer control device allows implementation of an automatic transfer in conjunction with molded case circuit breakers, air circuit breakers and switch disconnectors.

The following devices are ideally matched to the 3KC ATC3100 transfer control device:

- 3VA, 3VL, 3VT molded case circuit breakers
- 3WL, 3WT air circuit breakers

Selection and orde	ering data						
	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
			Screw terminals	Ð			
	3KC ATC3100 transfer control device <sup>1)</sup>		3KC9000-8EL10	Ŭ	1	1 unit	1CL
UNIT UND	Control panel instrument 171 x 131 x 99 mm with the follow-ing features:						
20	<ul> <li>Screw terminal connection</li> </ul>						
	<ul> <li>Rated setting range: 280 – 460 V AC</li> </ul>						
	Aux. 24 V DC voltage						
	<ul> <li>English labeling (Chinese labeling on request)</li> </ul>						
	3KC ATC3100 connecting cable		3KC9000-8EL62		1	1 unit	1CL
	Necessary measurement and control cable for connection of 3KC ATC3100 to 3VL or 3WL						
	Cable 1.8 m long						
1) For the 3KC ATC310	0 transfer control device you additionally need the						

<sup>1)</sup> For the 3KC ATC3100 transfer control device you additionally need the 3KC ATC3100 connecting cable (3KC9000-8EL62).

## Appendix

## 1. General standards

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note: the scope, the quality and the conditions for supplies and services, including software products, by any Siemens group or Regional Company having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

# 1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- for installation, the "Standard Terms and Conditions for Installation –Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customers in Germany"<sup>1</sup>) and
- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"<sup>1</sup>) and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1</sup>).
   In the event that such other supplies and services include open-source software, the conditions of which override the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1</sup>), the product will be supplied with a notice detailing the special conditions that apply for the relevant open-source software. This applies accordingly in the case of a reference to other third-party software components.

## 1.2 For customers with a seat or registered office outside of Germany

For customers with a seat or registered office outside of Germany, the following shall be subordinate to these CSD

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"<sup>1)</sup> (only available in English) and
- for services, the "International Terms & Conditions for Services"<sup>1)</sup> supplemented by the "Software Licensing Conditions"<sup>1)</sup> and
- for the supply of other hardware and software the "International Terms & Conditions for Products"<sup>1)</sup> supplemented by the "Software Licensing Conditions"<sup>1)</sup>.

### 1.3 For customers with framework agreements

To the extent that our products and services are covered by an existing framework agreement, the conditions there apply instead of this CSD.

## 2. Prices

The prices are in € (euros) ex works, excluding packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at: www.siemens.com/automation/salesmaterial-as/catalog/en/ terms\_of\_trade\_en.pdf

The surcharge will be calculated (except in the case of dysprosium and neodymium) on the basis of the official price on the day prior to receipt of the order or prior to the release order for calculation of the surcharge.

In the event of placement of an order, the relevant three-month average price from the quarter prior to order receipt or the release order shall be used with a one-month buffer to calculate the dysprosium and neodymium surcharge ("rare earths") (you will find details in the aforementioned explanation of the metal factor).

### 3. Additional terms and conditions

All dimensions are in mm. In Germany, according to the German law on units in metrology, data in inches only apply to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the corresponding pages of this catalog - especially with regard to data, dimensions and weights given - these are subject to change without prior notice.

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## Appendix

### Conditions of sale and delivery

## 4. Export regulations

We shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions.

Exporting may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists.

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If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-) export control regulations.

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