SIEMENS

Data sheet

3LD2203-3VK51



SENTRON, Switch disconnector 3LD, main switch, 6-pole, lu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle

product brand name SMIRTON product designation Switch disconnector design of the product Main switch display version for switch position indicator manual operation 10x 0 OFF byse of switch Front mounted design of the actuating element Short rotary knob design of the actuating element Back design of the actuating element No design of the actuating element 100000 electrical endurance (operating cycles) typical 6001 operating frequency maximum 60401 operating voltage res	Model	
design of the product Main switch design of the product 1 ON - 0 OFF type of switch front mounted design of the actuating element black design of the driving mechanism motor drive No General technical data rotary operating mechanism, black number of poles 6 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 operating frequency maximum 60 1/h degree of pollution 3 Voltage ein AC acte value operating requency rated value 690 V operating frequency rated value 690 V operating frequency rated value <td< td=""><td>product brand name</td><td>SENTRON</td></td<>	product brand name	SENTRON
display version for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element black design of handle rotary operating mechanism, black dype of the driving mechanism motor drive No Control the chindle data rotary operating mechanism, black number of poles 6 size of switch disconnector 2 number of poles 6 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) 6000 etart AC-23 A at 800 V 6000 operating frequency maximum 50 1/h degree of pollution 3 Votage 600 V surge voltage resistance rated value 690 V operating requency rated value 600 V operating frequency rated value 600 V operating rue voltage 600 V operating rue voltage 600 V operating frequency rated value 600 V operating rue voltage 1.3R VA, 12	product designation	Switch disconnector
Type of switch front mounted design of the actuating element Short rotary knob color of the actuating element black design of handle rotary operating mechanism, black type of the driving mechanism motor drive No Concral technical data	design of the product	Main switch
design of the actuating element Short rotary knob color of the actuating element black design of handle rotary operating mechanism, black type of the driving mechanism motor drive No Ceneral technical data 6 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 000 0 electrical endurance (operating cycles) 6 et al AC-23 A at 690 V 6000 operating frequency maximum 50 1/h degree of pollution 3 voltage 50 V operating requency maximum 690 V surge voltage resistance rated value 690 V operating requency rated value 690 V operating requency rated value 600 V operating requency rated value 600 V operating requency rated value 60 V operating requency rated value	display version for switch position indicator manual operation	1 ON - 0 OFF
color of the actuating element black design of handle rotary operating mechanism, black type of the driving mechanism motor drive No Reneral technical data	type of switch	front mounted
design of handle rotary operating mechanism, black type of the driving mechanism motor drive No General technical data Inumber of poles 6 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage Insulation voltage rated value operating voltage 600 V surge voltage resistance rated value 690 V operating frequency maximum 50 Hz operating voltage 600 V • at AC rated value 690 V operating frequency rated value 600 V operating state per pole 1.3 R, 4X, 12 protection class IP IP65 operating state pe	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive No General technical data	color of the actuating element	black
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• at AC-23 A at 690 V6 000operating frequency maximum50 1/hdegree of pollution3Voltage	mechanical service life (operating cycles) typical	100 000
operating frequency maximum50 1/hdegree of pollution3Voltage3insulation voltage rated value690 Vsurge voltage resistance rated value690 Voperating voltage64 KVoperating voltage690 Voperating requency rated value690 Voperating frequency rated value690 Voperating frequency rated value690 Voperating frequency rated value600 Hz• minimum50 Hz• maximum60 HzProtection class IPIP65degree of portection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65DissipationIpower loss [W] for rated value of the current at AC in hot operating state per pole1.8 Woperational current32 A• at AC-21 at 690 V rated value32 A• at AC-21 A at 240 V rated value32 A• at AC-21 A at 440 V rated value32 A	electrical endurance (operating cycles)	
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• at AC rated value690 Voperating frequency rated value50 Hz• minimum60 Hz• maximum60 HzProtection classprotection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65operating state per pole1.8 WMain circuit1.8 Woperational current32 A• at AC-21 at 690 V rated value32 A• at AC-21 A at 240 V rated value32 A• at AC-21 A at 400 V rated value32 A• at AC-21 A at 400 V rated value32 A• at AC-21 A at 400 V rated value32 A• at AC-21 A at 400 V rated value32 A• at AC-21 A at 400 V rated value32 A	surge voltage resistance rated value	6 kV
operating frequency rated value50 Hz• maximum60 HzProtection class60 HzProtection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65DissipationImage of the current at AC in hot operating state per pole1.8 Woperational current32 Aoperational current32 A• at AC-21 at 240 V rated value32 A• at AC-21 A at 440 V rated value32 A• at AC-21 A at 440 V rated value32 A• at AC-21 A at 440 V rated value32 A• at AC-21 A at 440 V rated value32 A	operating voltage	
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degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65Dissipationpower loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuit1.8 Woperational current • at AC-21 at 690 V rated value32 Aat AC-21 A at 240 V rated value32 A• at AC-21 A at 400 V rated value32 A• at AC-21 A at 440 V rated value32 A• at AC-21 A at 440 V rated value32 A• at AC-21 A at 440 V rated value32 A	Protection class	
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power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Main circuit	protection class IP on the front	IP65
operating state per pole Main circuit operational current • at AC-21 at 690 V rated value 32 A • at AC-21 A at 240 V rated value 32 A • at AC-21 A at 400 V rated value 32 A • at AC-21 A at 440 V rated value 32 A • at AC-21 A at 440 V rated value 32 A	Dissipation	
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• at AC-21 A at 240 V rated value32 A• at AC-21 A at 400 V rated value32 A• at AC-21 A at 440 V rated value32 A	operational current	
at AC-21 A at 400 V rated value 32 A at AC-21 A at 440 V rated value 32 A	• at AC-21 at 690 V rated value	32 A
• at AC-21 A at 440 V rated value 32 A	• at AC-21 A at 240 V rated value	32 A
	• at AC-21 A at 400 V rated value	32 A
• at AC-23 A at 400 V rated value 22 A	 at AC-21 A at 440 V rated value 	32 A
	 at AC-23 A at 400 V rated value 	22 A

operating power	
operating power • at AC-23 A at 240 V rated value	6 kW
	12 kW
at AC-23 A at 400 V rated value	
at AC-23 A at 440 V rated value	11.5 kW
• at AC-23 A at 690 V rated value	12 kW
• at AC-3 at 240 V rated value	5.5 kW
• at AC-3 at 400 V rated value	10 kW
• at AC-3 at 690 V rated value	9.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
operating voltage of auxiliary contacts at AC maximum	500 V
continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
 safety switch 	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
motor drive	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts attachable maximum	2
number of connectable NO contacts for auxiliary contacts attachable maximum	4
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 8 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
• at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
 at 240 V for combination switch + gG fuse maximum 	4.5 kA
• at 440 V for combination switch + gG fuse maximum	4.5 kA
• at 690 V for combination switch + gG fuse maximum permissible	5 kA
I2t value with closed switch	
 at 240 V for combination switch + gG fuse maximum 	9 kA2.s
 at 440 V for combination switch + gG fuse maximum 	9 kA2.s
 at 690 V for combination switch + gG fuse maximum 	9 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	fuse gL/gG: 40 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
operational current of upstream fuse rated value	40 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	32 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V
active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value	20
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value	20
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA

continuous current of upstream fuse accord	ling to UL rated value	80 A			
type of fuse according to UL		RK5			
Connections		1440			
AWG number as coded connectable condu	ctor cross section				
solid					
• maximum		8			
• minimum		14			
type of connectable conductor cross-section	ns for copper				
conductor		$4x (4 - 40 mm^2)$			
 solid finally stranded with care and process 	aina	$1x (1,516 \text{mm}^2)$			
 finely stranded with core end process stranded 	sing	1x (1,510mm²) 1x (1,516mm²)			
type of connectable conductor cross-section	ns for auviliary	IX (1,510mm)			
contacts					
• solid		lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)			
• finely stranded with core end process	sing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²			
• stranded		lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)			
type of electrical connection					
 for main current circuit 		box terminal			
 for auxiliary contacts 		connection terminals			
Mechanical Design					
height		83 mm			
width		67 mm			
depth		92.5 mm			
type of device		fixed mounting			
fastening method		Built-in unit fixed-mounted version			
fastening method					
• 4-hole front mounting		Yes			
front mounting with central attachmen	nt	No			
rail mounting		No			
net weight		373 g			
Environmental conditions					
ambient temperature during operation		25 °C			
● minimum ● maximum		-25 °C 55 °C			
ambient temperature during storage		55 0			
minimum		-25 °C			
• maximum		-25 °C			
Approvals Certificates					
				Declaration of Con-	
General Product Approval				formity	
		<u>Miscellaneous</u>	EHC	C C EG-Konf.	
Declaration of Con-	g	other		Environment	
formity					
UK CA	PRS	<u>Miscellaneous</u>	<u>Confirmation</u>	Environmental Con- firmations	
Eurther information					

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2203-3VK51

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2203-3VK51

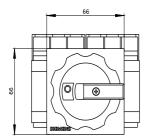
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

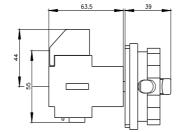
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2203-3VK51

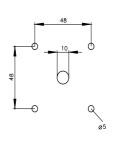
CAx-Online-Generator http://www.siemens.com/cax

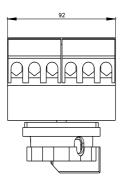
Tender specifications

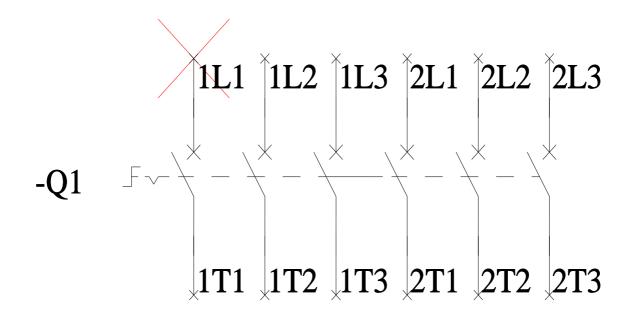
http://www.siemens.com/specifications











last modified:

6/20/2023 🖸

11/15/2023

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