# SIEMENS

### Data sheet

### 3LD2230-0TK13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 32 A, operating power / at AC-23 A 400 V: 11.5 kW, installation in distribution boards, knob-operated mechanism, Red / yellow, handle direct at the switch

product brand name         SENTRON           product designation         Switch disconnector           design of the product         EMERGENOX-STOP switch           dipphy version for switch position indicator manual operation         ION - 0 OFF           type of switch         DiN-rail mounting           design of the actuating element         selector switch           color of the actuating element         red           design of handle         knob-operated mechanism, red/yellow           type of the driving mechanism motor drive         No           Otherral tacking element         2           number of poles         3           size of switch disconnector         2           mechanical service life (operating cycles) typical         100 000           electrical endurance (operating cycles) typical         100 ADD           electrical endurance (operating cycles) typical         100 000           electrical endurance (operating cycles) typical         100 ADD           electrical endurance (operating cycles) typical         600 V           surge orbiage resistance rated value <th>Model</th> <th></th>	Model			
design of the product         EMERGENCY-STOP switch           display version for switch position indicator manual operation         10N - 0 OFF           type of switch         DIN-rail mounting           design of the actualing element         selector switch           color of the actualing element         red           design of handle         knob-operated mechanism, red/yellow           type of the driving mechanism motor drive         No           Ceneral technical data	product brand name	SENTRON		
display version for switch position indicator manual operation       1 ON - 0 OFF         type of switch       DIN-trail mounting         design of the actuating element       selector switch         color of the actuating element       red         design of handle       knob-operated mechanism, red/yellow         type of the driving mechanism motor drive       No         Centeral technical data       number of polots         number of polots       3         size of switch disconnector       2         mechanical service life (operating cycles) typical       100 000         electrical endurance (operating cycles)       6         etat AC-23 A at 690 V       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       6         • at AC rated value       690 V         surge voltage resistance rated value       690 V         • at AC rated value       600 Hz         Protection class IP       IP40         protection class IP on the front       IP40 <td< th=""><th>product designation</th><th colspan="3">Switch disconnector</th></td<>	product designation	Switch disconnector		
operation         DN-rail mounting           design of the actuating element         red           color of the actuating element         red           design of handle         knob-operated mechanism, red/yellow           Vype of the driving mechanism motor drive         No           Ceneral technical data	design of the product	EMERGENCY-STOP switch		
design of the actuating element     selector switch       color of the actuating element     red       design of handle     knob-operated mechanism, red/yellow       type of the driving mechanism motor drive     No       Central technical data		1 ON - 0 OFF		
color of the actualing element     red       design of handle     knob-operated mechanism, red/yellow       type of the driving mechanism motor drive     No       Cohoral technical data	type of switch	DIN-rail mounting		
design of handle       knob-operated mechanism, red/yellow         type of the driving mechanism motor drive       No         Ceneral technical data	design of the actuating element	selector switch		
type of the driving mechanism motor drive         No           General technical data	color of the actuating element	red		
General technical data         number of poles       3         size of switch disconnector       2         mechanical service life (operating cycles) typical       100 000         electrical endurance (operating cycles)       6         • at AC-23 A at 690 V       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage	design of handle	knob-operated mechanism, red/yellow		
number of poles     3       size of switch disconnector     2       mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     6 000       operating frequency maximum     6 000       operating frequency maximum     50 1/h       degree of pollution     3       Voltage     insulation voltage rated value       insulation voltage rated value     690 V       surge voltage resistance rated value     690 V       operating frequency maximum     60 kV       operating voltage     64V       operating requency rated value     690 V       operating frequency rated value     100 Hz       Protection class IP     IP40       protection class IP on the front     IP40       Dissipation     1.8 W       operating state per pole     1.8 W       Main circuit     32 A       operational current     32 A       • at AC-21 A at 240 V rated value     32 A       • at	type of the driving mechanism motor drive	No		
size of switch disconnector     2       mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     6       • at AC-23 A at 690 V     6 000       operating frequency maximum     50 1/h       degree of pollution     3       Voltage     100 000       insulation voltage rated value     690 V       surge voltage resistance rated value     690 V       operating frequency rated value     600 V       operation class IP     IP40       protection class IP on the front     IP40       Dissipation     1.8 W       operating state per pole     32 A       Main circuit     0	General technical data			
mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     6 000       operating frequency maximum     50 1/h       degree of pollution     3       Voltage     6 000       insulation voltage rated value     690 V       surge voltage resistance rated value     6 kV       operating frequency maximum     60 V       surge voltage resistance rated value     6 kV       operating frequency rated value     690 V       operating frequency rated value     60 Hz       Protection class IP     IP40       protection class IP     IP40       Dissipation     IP40       Dissipation     1.8 W       Main circuit     32 A       operating state per pole     32 A       Main circuit     32 A       ot at C-21 at 400 V rated value     32 A       ot at C-21 At 240 V rated value     32 A       ot at C-21 At 240 V rated value     32 A       ot at C-21 At 240 V rated value     32 A       ot at C-21 At 240 V rated v	number of poles	3		
electrical endurance (operating cycles)       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       insulation voltage rated value         insulation voltage rated value       690 V         surge voltage resistance rated value       690 V         operating requency rated value       690 V         operating requency rated value       690 V         operating frequency rated value       690 V         operating frequency rated value       600 Hz         operating requency rated value       600 Hz         protection class       1P40         protection class IP       IP40         protection class IP on the front       IP40         Dissipation       1.8 W         operating state per pole       32 A         Main circuit       32 A         operational current       32 A         • at AC-21 A at 240 V rated value       32 A         • at AC-21 A at 400 V rated value       32 A	size of switch disconnector	2		
• at AC-23 A at 690 V       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       6 kV         • at AC rated value       690 V         operating frequency rated value       690 V         operating frequency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class IP       IP40         protection class IP       IP40         protection class IP       IP40         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         operating state per pole       32 A         wait AC-21 At 690 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	mechanical service life (operating cycles) typical	100 000		
operating frequency maximum         50 1/h           degree of pollution         3           Voltage         insulation voltage rated value         690 V           insulation voltage rated value         690 V         operating voltage           • at AC rated value         690 V         operating voltage           • at AC rated value         690 V         operating frequency rated value           • minimum         50 Hz         60 Hz           Protection class         P         IP40           protection class IP on the front         IP40           potenting state per pole         IP40           Main circuit         0           operating state per pole         3           Main circuit         30 Hz           • at AC-21 at ed 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	electrical endurance (operating cycles)			
degree of pollution       3         Voitage       690 V         insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       6 kV         • at AC rated value       690 V         operating requency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class IP       IP40         protection class IP on the front       IP40         Dissipation       1.8 W         operating state per pole       1.8 W         Main circuit       32 A         • at AC-21 at 690 V rated value       32 A         • at AC-21 At 440 V rated value       32 A         • at AC-21 At 440 V rated value       32 A	• at AC-23 A at 690 V	6 000		
Voltage         insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       6 kV         • at AC rated value       690 V         operating frequency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       Protection class IP         protection class IP on the front       IP40         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       32 A         operating at Q20 V rated value       32 A         • at AC-21 at 690 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	operating frequency maximum	50 1/h		
insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       690 V         • at AC rated value       690 V         operating frequency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       Protection class IP         protection class IP       IP40         protection class IP on the front       IP40         Dissipation       IP40         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       operatingal 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 440 V rated value       32 A         • at AC-21 A at 440 V rated value       32 A	degree of pollution	3		
surge voltage resistance rated value       6 kV         operating voltage       690 V         • at AC rated value       690 V         operating frequency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       Protection class IP         protection class IP on the front       IP40         protection class IP on the front       IP40         Dissipation       IP40         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       32 A         operational current       32 A         • 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 400 V rated value       32 A	Voltage			
operating voltage       690 V         operating frequency rated value       690 V         operating frequency rated value       50 Hz         e minimum       60 Hz         Protection class       Protection class IP         protection class IP on the front       IP40         protection class IP on the front       IP40         Dissipation       IP40         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       32 A         operational current       32 A         e at AC-21 A at 240 V rated value       32 A         e at AC-21 A at 400 V rated value       32 A         e at AC-21 A at 440 V rated value       32 A	insulation voltage rated value	690 V		
• at AC rated value690 Voperating frequency rated value690 V• minimum50 Hz• maximum60 HzProtection classprotection class IPIP40protection class IP on the frontIP40Dissipationpower loss [V] for rated value of the current at AC in hot operating state per pole1.8 WMain circuit900 V rated value32 A• at AC-21 A 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• 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	surge voltage resistance rated value	6 kV		
operating frequency rated value50 Hz• minimum50 Hz• maximum60 HzProtection classprotection class IPIP40protection class IP on the frontIP40DissipationIP40DissipationIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating state per pole1.8 WOperational current1.8 W• at AC-21 at 690 V rated value32 A• at AC-21 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 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			
• minimum50 Hz• maximum60 HzProtection classIP40protection class IPIP40protection class IP on the frontIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating 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 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	<ul> <li>at AC rated value</li> </ul>	690 V		
• maximum60 HzProtection classIP40protection class IPIP40protection class IP on the frontIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuitIP40operational 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• at AC-21 A at 440 V rated value32 A• at AC-21 A at 440 V rated value32 A	operating frequency rated value			
Protection classprotection class IPIP40protection class IP on the frontIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating 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 440 V rated value32 A• at AC-21 A at 440 V rated value32 A	• minimum	50 Hz		
protection class IPIP40protection class IP on the frontIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuit1.8 Woperational current32 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 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	• maximum	60 Hz		
protection class IP on the frontIP40DissipationIIP40power loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuitIIP40operational current • 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 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			
Dissipation         power loss [W] for rated value of the current at AC in hot operating state per pole       1.8 W         Main circuit       Main circuit         operational current       32 A         • 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 400 V rated value       32 A         • at AC-21 A at 440 V rated value       32 A	protection class IP	IP40		
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	IP40		
operating state per pole         Main circuit         operational current       32 A         • 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 400 V rated value       32 A         • at AC-21 A at 400 V rated value       32 A	Dissipation			
operational 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 440 V rated value32 A		1.8 W		
• 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 440 V rated value32 A	Main circuit			
<ul> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>32 A</li> <li>32 A</li> </ul>	operational current			
<ul> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 440 V rated value</li> <li>32 A</li> <li>32 A</li> </ul>	• at AC-21 at 690 V rated value	32 A		
• at AC-21 A at 440 V rated value 32 A	<ul> <li>at AC-21 A at 240 V rated value</li> </ul>	32 A		
	<ul> <li>at AC-21 A at 400 V rated value</li> </ul>	32 A		
• at AC-23 A at 400 V rated value 22 A	<ul> <li>at AC-21 A at 440 V rated value</li> </ul>	32 A		
	• at AC-23 A at 400 V rated value	22 A		

operating power	
• at AC-23 A at 240 V rated value	6 kW
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	12 kW
<ul> <li>at AC-23 A at 440 V rated value</li> </ul>	11.5 kW
<ul> <li>at AC-23 A at 690 V rated value</li> </ul>	12 kW
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	5.5 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	10 kW
<ul> <li>at AC-3 at 690 V rated value</li> </ul>	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
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	Vaa
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	2
hasp thickness of the bracket locks	4 6 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
<ul> <li>at 690 V by gG fuse rated value</li> </ul>	50 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	4.5 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	4.5 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	5 kA
I2t value with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	9 kA2.s
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	9 kA2.s
<ul> <li>at 690 V for combination switch + gG fuse maximum</li> </ul>	9 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	fuse gL/gG: 40 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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
00347-4-1 Taleu Value	
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA

continuous current of upstream fuse acc	cording to UL rated	80 A		
type of fuse according to UL		RK5		
Connections				
AWG number as coded connectable con section solid maximum	ductor cross			
•		8		
•		14		
type of connectable conductor cross-sec conductor	ctions for copper			
• solid		1x (1,516mm²)		
<ul> <li>finely stranded with core end process</li> </ul>	sing	1x (1,510mm²)		
stranded		1x (1,516mm²)		
type of connectable conductor cross-sec contacts	ctions for auxiliary			
• solid		2x (0.75 2.5 mm <sup>2</sup> ), 1x 4		
<ul> <li>finely stranded with core end process</li> </ul>	sing	2x (0.75 1.5 mm²), 1x 2.		
stranded		2x (0.75 2.5 mm²), 1x 4	mm²	
type of electrical connection				
for main current circuit		box terminal		
for auxiliary contacts		connection terminals		
Mechanical Design				
height		55 mm		
width		53 mm		
depth		91 mm		
type of device		fixed mounting		
fastening method		Built-in unit fixed-mounted	version	
fastening method				
<ul> <li>4-hole front mounting</li> </ul>		No		
<ul> <li>front mounting with central attachment</li> </ul>	nt	No		
rail mounting		Yes		
net weight		166 g		
Environmental conditions				
ambient temperature during operation				
• minimum		-25 °C		
• maximum		55 °C		
ambient temperature during storage				
• minimum		-25 °C		
• maximum		55 °C		
Approvals Certificates				
General Product Approval				
	CE	Confirmation	መ	DE
	EG-Konf.			VDE
General Product Approval	Marine / Shippi	ng other		Environment
Miscellaneous EFFC	Llovd's Register us	<u>Confirmation</u>	<u>Miscellaneous</u>	Environmental Con- firmations
Environment				
Environmental Con- firmations				

### Information on the packaging

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

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2230-0TK13

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2230-0TK13

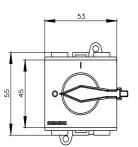
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2230-0TK13

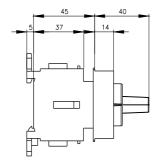
CAx-Online-Generator

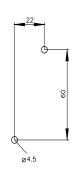
http://www.siemens.com/cax

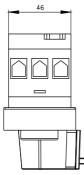
**Tender specifications** 

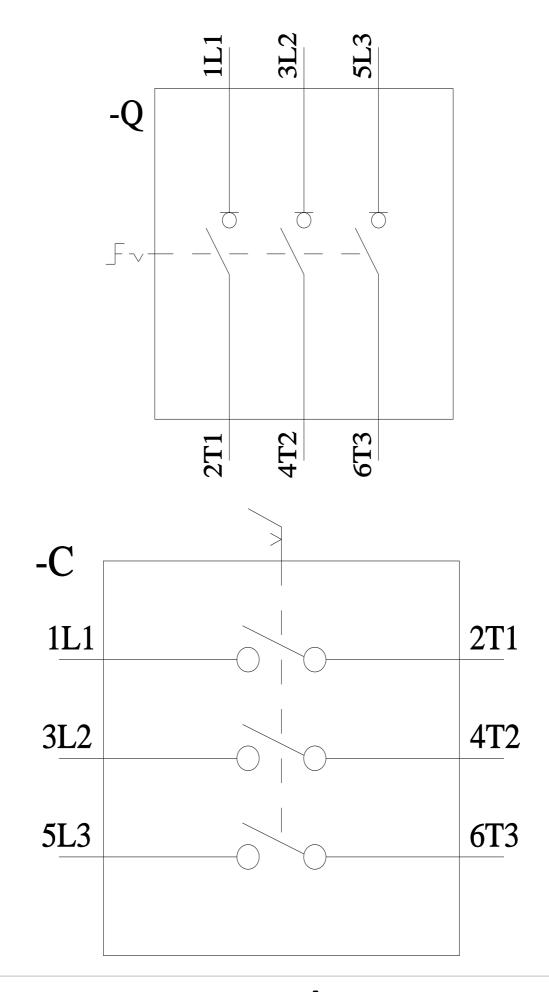
http://www.siemens.com/specifications











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