## SIEMENS

## Data sheet

## 3LD3230-0TK13



Load disconnector 3LD3, lu 32 A Main switch 3-pole Rated operating capacity for AC-23 A at 400V 11.5kW Installation in distribution boards, Basic switch with selector knob red / yellow

product brand name         SENTRON           product designation         Switch disconnector           design of the product         ENERCENCY-STOP switch           dipplay version for switch position indicator manual operation         10N - 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           Coheral technical data	Model		
design of the product         EMERGENCY-STOP switch           display version for switch position indicator manual operation         10N - 0.0FF           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           Colercal technical data	product brand name	SENTRON	
display version for switch position indicator manual operation       1 ON - 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         General technical data       number of poles         number of poles note       3         number of poles note       3         electrical endurance (operating cycles) typical       100 000         electrical endurance (operating cycles)       6         e at AC-23 A at 690 V       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage	product designation	Switch disconnector	
operation         DN-rail mounting           type of switch         DN-rail mounting           color of the actuating element         red           color of the actuating element         red           design of handle         knob-operated mechanism, red/yellow           type of the driving mechanism motor drive         No           General 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       Ceneral technical data     number of poles       number of poles     3       mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     6       et AC-23 A at 690 V     6 000       operating frequency maximum     50 1/h       degree of pollution     3       Voltago     1       insulation voltage rated value     690 V       operating frequency maximum     60 1/h       degree of pollution     3       Voltago     600 V       surge voltage resistance rated value     690 V       operating frequency maximum     60 Hz       e at AC rated value     690 V       operating frequency rated value     60 V       operating frequency rated value     60 Hz       e minimum     60 Hz       e haximum     60 Hz       protection class IP     IP40       protection class IP on the front     IP40       Dissipation     1.8 W       operating state per pole     Main circuit       operating state per pole     22 A <th></th> <th>1 ON - 0 OFF</th>		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       Concrait tochnical data     Immber of poles       number of poles note     3       mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     6 000       etart AC-23 A at 690 V     6 000       operating frequency maximum     50 1/h.       degree of pollution     3       Voltage     Insulation voltage rated value       e at AC rated value     690 V       operating frequency rated value     61V       operating frequency rated value     690 V       operating frequency rated value     600 Hz       e ninimum     50 Hz       e ninimum     600 Hz       Protection class IP     IP40       protection class IP on the front     IP40       Dissipation     1.8 W       operating state per pole     41 AC-21 at 420 V rated value       e at AC-21 A at 200 V rated value     32 A       e at AC-21 A at 200 V rated value     32 A	type of switch	DIN-rail mounting	
design of handle       knob-operated mechanism, red/yellow         type of the driving mechanism motor drive       No         General technical data       Immber of poles         number of poles note       3         mechanical service life (operating cycles) typical       100 000         electrical endurance (operating cycles) typical       6000         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       50 1/h         degree of pollution       3         Voltage       estat C-21 A at 04ule         operating voltage resistance rated value       690 V         operating requency rated value       690 V         operating requency rated value       600 Hz         Protection class IP       IP40         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       0         operating state per pole       32 A         e at AC-21 A at 200 V rated value       32 A	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         number of poles note       3         mechanical service life (operating cycles) typical       100 000         electrical endurance (operating cycles)       6 000         • 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       number of poles note     3       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     690 V       operating voltage     6 kV       operating requency maximum     50 Hz       • at AC rated value     690 V       operating frequency rated value     50 Hz       • minimum     50 Hz       • maximum     60 Hz       Protection class IP     IP40       post loss [W] for rated value of the current at AC in hot operating state projel       Main circuit     32 A       operating low rated value     32 A       • at AC-21 at at 90 V rated value     32 A       • at AC-21 A at 240 V rated value     32 A       • at AC-21 A at 440 V rat	type of the driving mechanism motor drive	No	
number of poles note       3         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       690 V         surge voltage resistance rated value       690 V         operating frequency rated value       18 W         potection class IP       IP40         protection class IP on the front       IP40         Dissipation       1.8 W         power loss [W] for rated value of the current at AC in hot operating state per pole       32 A         Main circuit       32 A         operational current       32 A	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     690 V       surge voltage resistance rated value     690 V       operating frequency maximum     600 V       surge voltage resistance rated value     690 V       operating voltage     6       • at AC rated value     690 V       operating frequency rated value     600 Hz       Protection class IP     IP40       protection class IP     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       • 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	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 routage       6 kV         operating frequency rated value       690 V         e at AC rated value       690 V         operating frequency rated value       60 Hz         Protection class       Protection class IP         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 400 V rated value       32 A         • at AC-21 A at 400 V rated value       32 A	number of poles note	3	
• at AC-23 A at 690 V6 000operating frequency maximum50 1/hdegree of pollution3Voltage600 Vinsulation voltage resistance rated value690 Voperating voltage resistance rated value690 Voperating voltage resistance rated value690 Voperating frequency rated value600 HzProtection class IPIP40protection class IPIP40DissipationIP40operating state per pole1.8 WMain circuit32 Aoperating turnent32 A• at AC-21 At 690 V rated value32 A• at AC-21 A at 440 V rated value32 A• at AC-21 A at 440 V rated value32 A	mechanical service life (operating cycles) typical	100 000	
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           operating frequency rated value         690 V           operating frequency rated value         100 Hz           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         Operational current         32 A           • at AC-21 A at 400 V rated value         32 A         • at AC-21 A at 400 V rated value           • at AC-21 A at 400 V rated value         32 A         • at 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       4.4 AC-21 at 690 V rated value         • at AC-21 at 240 V rated value       32 A         • at AC-21 At 240 V rated value       32 A         • at AC-21 At 240 V rated value       32 A         • at AC-21 At 4400 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         Dissipation       1.8 W         operating state per pole       32 A         Main circuit       32 A         operating at Quarted value       32 A         • at AC-21 at 240 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	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 on the front     IP40       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     operating at 22 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 440 V rated value     32 A	degree of pollution	3	
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         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 400 V rated value       32 A         • at AC-21 A at 400 V rated value       32 A	Voltage		
operating voltage • at AC rated value690 Voperating frequency rated value • minimum50 Hz• maximum60 HzProtection classProtection class IP protection class IP on the frontprotection class IP on the frontIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating state per pole1.8 WMain circuitoperational 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 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	insulation voltage rated value	690 V	
• at AC rated value690 Voperating frequency rated value50 Hz• minimum50 Hz• maximum60 HzProtection classIP40protection class IPIP40protection class IP on the frontIP40DissipationIP40Øwer loss [V] for rated value of the current at AC in hot operating state per pole1.8 WØmerational current32 A• at AC-21 at 690 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	surge voltage resistance rated value	6 kV	
operating frequency rated value50 Hz• minimum50 Hz• maximum60 HzProtection classprotection class IPIP40protection class IP on the frontIP40Dissipationpower 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 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• 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 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 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	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 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 440 V rated value32 A	• maximum	60 Hz	
protection 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 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	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	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 1 1	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		
• 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		
<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	• 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	
<ul> <li>at AC-23 A at 240 V rated value</li> </ul>	6 kW
• at AC-23 A at 400 V rated value	12 kW
• at AC-23 A at 440 V rated value	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	
special product feature	Can be locked in zero position
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	2
number of connectable NO contacts for auxiliary contacts	4
attachable maximum	
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	
• at 440 V by gG fuse rated value	10 kA
• at 690 V by gG fuse rated value	6 kA
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum	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	
• at 240 V for combination switch + gG fuse maximum	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	
<ul> <li>for short-circuit protection of the main circuit required</li> </ul>	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	32 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	20
60947-4-1 rated value	

short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA
continuous current of upstream fuse according to UL rated value	50 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	6
•	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2.5 to 16 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	1x (2.516 mm²)
stranded	1x (2.5 to 16 mm <sup>2</sup> )
type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.75 1.5 mm²), 1x 2.5 mm²
stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	box terminal
<ul> <li>for auxiliary contacts</li> </ul>	Box terminals
Mechanical Design	
height	60 mm
width	36 mm
depth	77 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>	No
<ul> <li>rail mounting</li> </ul>	Yes
net weight	200 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	
Confirmation UK CE Confirmation Confirmation Confirmation CE	
other Environment	
Confirmation Miscellaneous Environmental	Con- Environmental Con-
firmations	

## Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

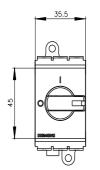
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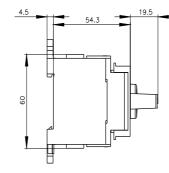
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3230-0TK13

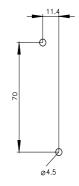
CAx-Online-Generator http://www.siemens.com/cax

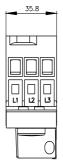
Tender specifications

http://www.siemens.com/specifications









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