SIEMENS

Data sheet

3LD3230-1TL13



Load disconnector 3LD3, Iu 32 A Main switch 3-pole + N Rated operating capacity for AC-23 A at 400V 11.5kW Installation in distribution boards, Basic switch with selector knob red / yellow with auxiliary switch 1OE + 1S

Model		
product brand name	SENTRON	
product designation	Switch disconnector	
design of the product	EMERGENCY-STOP switch	
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	4	
number of poles note	4	
mechanical service life (operating cycles) typical	100 000	
electrical endurance (operating cycles)		
• at AC-23 A at 690 V	6 000	
operating frequency maximum	50 1/h	
degree of pollution	3	
Voltage		
insulation voltage rated value	690 V	
surge voltage resistance rated value	6 kV	
operating voltage		
at AC rated value	690 V	
operating frequency rated value		
• minimum	50 Hz	
• maximum	60 Hz	
Protection class		
protection class IP	IP40	
protection class IP on the front	IP40	
Dissipation		
power loss [W] for rated value of the current at AC in hot operating state per pole	1.8 W	
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-23 A at 400 V rated value	22 A	
operating power		

At AC35 At 440 V relative view At AC35 At 460 V relative view At AC35 At		
I A C23 A it Al9 Virale value 15 kW I A C23 A it Al9 Virale value 12 kW I A C3 at Al90 Virale value 5 kW I A C3 at Al90 Virale value 5 kW Austan Z value 5 kW Austan Z value 5 kW Austan Z value 0 I murber of O Contacts for auxillary contacts 1 I murber of NC contacts for auxillary contacts 1 I contacts of auxillary contacts 10 A insultation value 900 V continuus contracts for auxillary contacts at AC maximum 600 V continuus contracts for auxillary contacts 10 A insultation value 900 V stabability for use 10 A insultation value 10 A inontice frature 10 A produ		6 kW
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• al AC3 at 600 v radius y contacts 0 number of NC contacts for auxiliary contacts 1 - under of NC contacts for auxiliary contacts 1 - operating voltage of auxiliary contacts at AC maximum 500 V - controluce for auxiliary contact rated value 10 A - insulation voltage of the auxiliary contact rated value 500 V Subbility for use	 at AC-3 at 240 V rated value 	5.5 kW
Auxiliary circuit	 at AC-3 at 400 V rated value 	10 kW
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conditional short-circuit current with line-side fuse protection 10 kA • at 440 V by gG fuse rated value 6 kA let-through current with closed switch 6 kA • at 440 V for combination switch + gG fuse maximum 4.5 kA • at 440 V for combination switch + gG fuse maximum 4.5 kA • at 440 V for combination switch + gG fuse maximum 5 kA • at 440 V for combination switch + gG fuse maximum 5 kA • at 440 V for combination switch + gG fuse maximum 9 kA2.s • at 440 V for combination switch + gG fuse maximum 9 kA2.s • at 440 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 • at 690 V for combination switch + gG fuse maximum 9 kA2.s design of the fuse link fuse gL/gG: 40 A • for short-circuit protection of the main circuit required fuse gL/gG: 10 A operational current at AC according to UL 508/UL 60947-4-1 32 A according UL operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 • for short-circuit protection of the Laccording to UL 508/UL 60947-4-1 20 • active power [hp] at AC at 480 V according to	hasp thickness of the bracket locks	4 6 mm
• at 440 V by gG fuse rated value10 kA• at 690 V by gG fuse rated value6 kAlet-through current with closed switch6 kA• at 240 V for combination switch + gG fuse maximum4.5 kA• at 440 V for combination switch + gG fuse maximum5 kA• at 690 V for combination switch + gG fuse maximum5 kA• at 690 V for combination switch + gG fuse maximum5 kA• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• of r short-circuit protection of the main circuit requiredfuse gL/gG: 40 A• for short-circuit protection of the auxiliary switch required32 A• according to UL 508/UL 60947-4.132 A• fared value600 V• far	Short circuit	
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let-through current with closed switch 4.5 kA • at 240 V for combination switch + gG fuse maximum 4.5 kA • at 440 V for combination switch + gG fuse maximum 5 kA • at 690 V for combination switch + gG fuse maximum 5 kA • at 240 V for combination switch + gG fuse maximum 9 kA2.s • at 240 V for combination switch + gG fuse maximum 9 kA2.s • 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 • at 690 V for combination switch + gG fuse maximum 9 kA2.s • design of the fuse link fuse gL/gG: 40 A • for short-circuit protection of the main circuit required fuse gL/gG: 10 A operational current of upstream fuse rated value 32 A according UL 32 A operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 32 A active power [hp] at AC at 480 V according to UL 508/UL 60947-4 20 active power [hp] at AC at 480 V according to UL 508/UL 60947-4 20 active power [hp] at AC at 600 V according to UL 508/UL 60947-4 20	 at 440 V by gG fuse rated value 	10 kA
• at 240 V for combination switch + gG fuse maximum4.5 kA• at 440 V for combination switch + gG fuse maximum5 kA• at 690 V for combination switch + gG fuse maximum5 kA• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 440 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• design of the fuse link	 at 690 V by gG fuse rated value 	6 kA
• at 440 V for combination switch + gG fuse maximum4.5 kA• at 690 V for combination switch + gG fuse maximum permissible5 kAI2t value with closed switch9 kA2.s• at 240 V for combination switch + gG fuse maximum9 kA2.s• at 440 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• at 690 V for combination switch + gG fuse maximum9 kA2.s• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 A• operational current at AC according to UL 508/UL 60947-4-132 A according UL 600 V• operationg voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-120• active power [hp] at AC at 480 V according to UL 508/UL 60947-4-120• active power [hp] at AC at 480 V according to UL 508/UL 60947-4-120• active power [hp] at AC at 600 V according to UL 508/UL 60947-4-120• active power [hp] at AC at 600 V according to UL 508/UL 60947-4-120• 1 rated value20 <td>let-through current with closed switch</td> <td></td>	let-through current with closed switch	
• at 690 V for combination switch + gG fuse maximum permissible5 kAI2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • kA2.s • at 690 V for combination switch + gG fuse maximum • kA2.s • at 690 V for combination switch + gG fuse maximum • kA2.s • at 690 V for combination switch + gG fuse maximum • kA2.s9 kA2.s • kA2.sdesign of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • fuse gL/gG: 10 Afuse gL/gG: 10 Aoperational current of upstream fuse rated value • operational current at AC according to UL 508/UL 60947-4-1 rated value32 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL • 600 V600 Voperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value20active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value20active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value20	 at 240 V for combination switch + gG fuse maximum 	4.5 kA
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I2t value with closed switch 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 10 km second • 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 32 A according UL 32 A operational current at AC according to UL 508/UL 60947-4-1 32 A rated value 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 20 active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 20 active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 20		5 kA
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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 32 A according UL 	-	
• 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 32 A according UL 32 A 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 cover [hp] at AC at 480 V 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		9 kA2.s
• for short-circuit protection of the auxiliary switch required 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 60947-4-1 rated value 20		
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according UL operational current at AC according to UL 508/UL 60947-4-1 32 A rated value 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 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		
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rated value600 Voperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value20active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value20	according UL	
60947-4-1 rated value 20 active power [hp] at AC at 480 V according to UL 508/UL 60947- 20 4-1 rated value 20 active power [hp] at AC at 600 V according to UL 508/UL 60947- 20 4-1 rated value 20		32 A
4-1 rated value 20 active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value 20		600 V
4-1 rated value		20
short-time withstand current (SCCR) at 600 V according to UL 5 kA		20
	short-time withstand current (SCCR) at 600 V according to UL	5 kA

508/UL 60947-4-1	
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
minimum	14
type of connectable conductor cross-sections for copper	14
conductor	
• solid	1x (2.5 to 16 mm²)
 finely stranded with core end processing 	1x (2.516 mm²)
stranded	1x (2.5 to 16 mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
 finely stranded with core end processing 	2x (0.75 1.5 mm²), 1x 2.5 mm²
• stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	
for main current circuit	box terminal
 for auxiliary contacts 	Box terminals
Mechanical Design	
height	60 mm
width	60 mm
depth	77 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	No
 front mounting with central attachment 	No
rail mounting	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
General Product Approval	Declaration of Conformity
other Environment	
Confirmation Miscellaneous Environmental firmations	
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

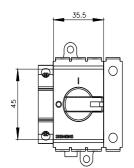
Information- and Downloadcenter (Catalogs, Brochures,...)

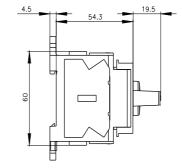
http://www.siemens.com/lowvoltage/catalogs

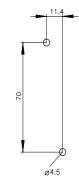
Industry Mall (Online ordering system)

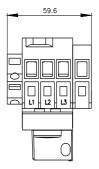
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3230-1TL13 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3230-1TL13 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3230-1TL13 CAx-Online-Generator

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