## **SIEMENS**

Data sheet 3LD2013-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

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	Floor mounting with door coupling
design of the actuating element	Short rotary knob
color of the actuating element	red
design of handle	rotary operating mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of switch disconnector	1
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	IP65
degree of protection NEMA rating	1, 3R, 4X, 12
protection class IP on the front	IP65
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	0.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	16 A
• at AC-21 A at 240 V rated value	16 A
• at AC-21 A at 400 V rated value	16 A
• at AC-21 A at 440 V rated value	16 A
• at AC-23 A at 400 V rated value	16 A

operating severs  • at A-C-23 A at 400 V rated value • at A-C-23 A at 400 V rated value • at A-C-23 A at 400 V rated value • at A-C-23 A at 400 V rated value • at A-C-23 A at 400 V rated value • at A-C-23 at 800 V rated value • at a 800 V rated value • at A-C-23 at 800 V rated value • at a 800 V rated value • at A-C-23 at 800 V rated value • at 8		
e at AC-23 A at 400 V rated value	operating power	
e at AC-23 A at 400 V rated value		
e at AC-23 at 40 V rated value e at AC-3 at 40 V rated value  Anuther of CO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  o o poperating values of auxiliary contacts ocordinates or auxiliary contact at AC maximum goor auxiliary contact at AC maximum contacts or auxiliary contact at AC maximum contacts are auxiliary contact at at AC maximum ocordinates or auxiliary contact at at AC maximum ocordinates or auxiliary contact at at AC maximum e and an availary oction of the auxiliary switch rated value  insulation voltage insulation of the auxiliary switch rated value  insulation voltage insulation of the auxiliary switch  insulation of the auxiliary switch  insulation voltage insulation of the auxiliary switch  insulation of the auxiliary switch  insulation voltage insulation of the auxiliary switch  insulation of the auxiliary s		
e at AC-3 at 690 V rated value  **SE KW  **PROVIDED TO Contacts for auxiliary contacts  **Immitted of CC contacts for auxiliary contacts  **O mumber of NC contacts for auxiliary contacts  **O continuous current of the auxiliary contact rated value  **Surtability for use  **Immi swifch  **Surtability		
e at AC3 at 400 V rated value		
available year of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  o continuous correct of the auxiliary contact at AC maximum  oorthinuous correct of the auxiliary contact at AC maximum  oorthinuous correct of the auxiliary switch rated value  insulation votage of the auxiliary switch rated value  suitability for use  * main switch  * anin swi		
Auxillary circuit number of NC contacts for auxiliary contacts		
rumber of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts at AC maximum solv operating voltage of auxiliary avitch rated value insulation voltage of the auxiliary switch rated value suitability		5.5 kW
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number of NO contacts for auxiliary contacts of auxiliary contacts at AC maximum 500 V continuous current of the auxiliary switch rated value 500 V situability suitability for use 1 min switch 1 min suitability for use 2 min switch 1 min switch 1 min switch 2 min switch 1 min switch 2 min switch 3 min switch 3 min switch 4 min switch 3 min switch 4 min switch 4 min switch 4 min switch 5 min switch 6 min switch 6 min switch 9 min s	·	
operating voltage of auxiliary contacts at AC maximum continuous current of the auxiliary contact rated value  Sout V  Suitability suitability for use  • main switch • switch disconnector • self-RERGENCY OFF switch • switch disconnector • CEMERGENCY OFF switch • safety switch • maintenance/repair switch  Product distalis  product feature can be locked into OFF position  Prospective feature can be locked into OFF position  Product distalis  product eatension optional • motor offive • voltage trigger  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NC contacts for auxiliary contacts attachable maximum  number of tracket locks auxiliary contacts attachable maximum  attachable maximum  3 hasp brinkness of the bracket locks  4 8 mm  Short circuit  conditional short-circuit current with line-side fuse protection • at 800 V by Gir fuse rated value  10 VA  12 NA  12 NA  13 NA  14 160 V for combination switch + gG fuse maximum • at 600 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximum • at 400 V for combination switch + gG fuse maximu		
continuous current of the auxiliary contact rated value  insulation votage of the auxiliary switch rated value  500 V  sultability  sultability  sultability for use  • main switch  • switch disconnector  • EMERGENCY OFF switch  • safety switch  • resident switch  • safety switch  • resident safety switch  • safety switch  • safety switch  • word safety switch  • word safety safety  • word	number of NO contacts for auxiliary contacts	0
insulation vallage of the auxiliary switch rated value  Suitability for use  main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Tyes maintenance/repair switch smith semance/repair switch Tyes  Product details product feature can be locked into OFF position secssorios  product extension optional month of drive No		500 V
Suitability Suitability Suitability for use  main switch  switch disconnector  EMERGENCY OFF switch  maintenance/repair switch  resident switch  maintenance/repair switch  Yes  Product dotails  product feature can be locked into OFF position  recessories  product feature can be locked into OFF position  motor drive  voltage trigger  No  number of connectable NC contacts for auxiliary contacts statchable maximum  number of connectable NC contacts for auxiliary contacts statchable maximum  number of connectable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  number of prometable NC contacts for auxiliary contacts statchable maximum  3 an as 50 of the bracket locks  4 8 mm  Short cricotit  conditional short-cricuit current with line-side fuse protection  at 500 kA  let-through current with closed switch  at 480 V by gG fuse rated value  50 kA  statchable maximum  at 440 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse maximum  at 480 V for combination switch + gG fuse ma	continuous current of the auxiliary contact rated value	10 A
sultability for use  main switch switch disconnector EMERGENCY OFF switch safety switch Tyes maintenance/repair switch Yes maintenance/repair switch Yes maintenance/repair switch Yes maintenance/repair switch Yes  maintenance/repair switch Yes  product details product extension optional motor drive voltage trigger No number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of bracket locks maximum 3 hasp thickness of the bracket locks  Not conditional short-circuit current with line-side fuse protection at 8690 V by gG fuse rated value  12 to Vide with closed switch 12 to Vide or combination switch + gG fuse maximum 13 to A stage of Vide combination switch + gG fuse maximum 14 at 800 V for combination switch + gG fuse maximum 15 to Vide with closed switch 16 at 2420 V for combination switch + gG fuse maximum 17 at 440 V for combination switch + gG fuse maximum 18 at 800 V for combination switch + gG fuse maximum 19 at 800 V for combination switch + gG fuse maximum 2.5 kA2.8 3 kA2 4 at 800 V for combination switch + gG fuse maximum 2.5 kA2.8 4 at 800 V for combination switch + gG fuse maximum 4 at 400 V for combination switch + gG fuse maximum 4 at 800 V for combination switch + gG fuse maximum 4 at 800 V for combination switch + gG fuse maximum 5 to SkA2.8 5 to Alexa 5 to A		500 V
main switch     switch disconnector     EMERGENCY OFF switch     safety switch     maintenance/repair switch     Yes     safety switch     maintenance/repair switch     Yes  Product deature can be locked into OFF position     Ves  Product seature can be locked into OFF position     Ves  Product seature can be locked into OFF position     voltage trigger  product extension optional     number of connectable NC contacts for auxiliary contacts     statichable maximum  number of connectable NC contacts for auxiliary contacts     statichable maximum  number of connectable NO contacts for auxiliary contacts     statichable maximum  number of connectable NO contacts for auxiliary contacts     statichable maximum  number of pronectable NO contacts for auxiliary contacts     statichable maximum  number of pronectable NO contacts for auxiliary contacts     statichable maximum  number of pronectable NO contacts for auxiliary contacts     statichable maximum  number of pronectable NO contacts for auxiliary contacts     statichable maximum  number of pronectable NO contacts for auxiliary contacts     statichable maximum  3 and auxiliary contacts  4 8 mm  Short circuit  conditional short-circuit current with loses de fuse protection  4 at 690 V by gG fuse rated value  50 kA  Let-through current with closed switch  4 at 460 V for combination switch + gG fuse maximum  3 kA  4 at 460 V for combination switch + gG fuse maximum  4 at 460 V for combination switch + gG fuse maximum  5 kA2 s  12 tvalue with closed switch  4 at 240 V for combination switch + gG fuse maximum  2 f kA2 s  3 kA2 s  4 fuse gLigG: 20 A  5 fuse gLigG: 20 A  5 fuse gLigG: 20 A  5 fuse gLigG: 20 A  6 fuse gLigG: 10 A  6 or short-circuit protection of the main circuit required  6 for short-circuit protection of the main circuit required  6 for short-circuit protection of the main circuit required  9 for short-circuit protection of the main circuit required  1 fuse gLigG: 20 A  1 fuse gLigG: 10 A  1 fuse gLigG: 20 A  1 fuse gLigG: 10 A  1 fuse gLigG: 1	Suitability	
Switch disconnector     EMERGENCY OFF switch     Safety switch     maintenance/repair switch     Yes     product detains     product eature can be locked into OFF position     Ves     product eature can be locked into OFF position     vession optional     motor drive     voltage trigger     No     voltage trigger     No     number of connectable NC contacts for auxiliary contacts     attachable maximum     number of connectable NO contacts for auxiliary contacts     statischable maximum     number of connectable NC contacts for auxiliary contacts     statischable maximum     number of connectable NC contacts for auxiliary contacts     statischable maximum     number of connectable NC contacts for auxiliary contacts     statischable maximum     number of bracket locks maximum     number of bracket locks maximum     number of bracket locks maximum     value of by the fuser rated value     version of the bracket locks     300 of circuit     conditional short-circuit current with line-side fuse protection     value of by tog Grusse rated value     version of the bracket locks witch     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination switch + gG fuse maximum     value of the combination	suitability for use	
EMERGENCY OFF switch  safety switch  safety switch  raminetnance/repair switch  Product details  product feature can be locked into OFF position  Processories  product extension optional  motor drive  voltage trigger  nounder of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable NO contacts for auxiliary contacts attachable maximum  number of pracket locks maximum  number of bracket locks maximum  nabap thickness of the bracket locks  4 8 mm  Short circuit  conditional short-circuit current with line-side fuse protection  at 690 V by GS has rated value  50 kA  let-through current with closed switch  at 240 V for combination switch + gG fuse maximum  at 440 V for combi		
* safety switch Yes **     * maintenance/repair switch Yes **     * maintenance/repair switch Yes **     * reduct details **     * product extension optional **     * product extension optional **     * motor drive **     * voltage trigger No **     * voltage trigger No **     * voltage trigger No **     * unwher of connectable NC contacts for auxiliary contacts attachable maximum **     * number of connectable NC contacts for auxiliary contacts attachable maximum **     * number of connectable CO contacts for auxiliary contacts attachable maximum **     * number of bracket locks maximum **     * as table of the bracket locks **     * short-circuit*     * conditional short-circuit current with line-side fuse protection ** at 890 V by gG fuse rated value **     * at 480 V tor combination switch + gG fuse maximum **     * at 440 V for combination switch + gG fuse maximum permissible **     * at 440 V for combination switch + gG fuse maximum permissible **     * at 440 V for combination switch + gG fuse maximum **     * at 480 V for combination switch + gG fuse maximum permissible **     * at 440 V for combination switch + gG fuse maximum **     * at 480 V for combination switch + gG fuse maximum **     * at 480 V for combination switch + gG fuse maximum **     * at 480 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **     * at 680 V for combination switch + gG fuse maximum **		
maintenance/repair switch  Product details product extension optional motor drive notor drive votage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of bracket locks maximum nasp thickness of the bracket locks attachable maximum nasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection at 680 V by gG fuse rated value fel-through current with closed switch at 240 V for combination switch + gG fuse maximum at 480 V for combination switch + gG fuse maximum at 480 V for combination switch + gG fuse maximum at 480 V for combination switch + gG fuse maximum at 480 V for combination switch + gG fuse maximum at 440 V for combination switch +	EMERGENCY OFF switch	
Product feature can be locked into OFF position  product reature can be locked into OFF position  product extension optional  motor drive  voltage frigger  number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts number of contacts for auxili	•	
product feature can be locked into OFF position  coessories  product extension optional  number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum 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 1et-through current 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 440 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 440 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 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • for short-circuit protection of the main circuit required • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of		Yes
product extension optional  • motor drive  • vottage trigger  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  3 hasp thickness of the bracket locks maximum  3 hasp thickness of the bracket locks maximum  • at 690 V by gG fuse rated value  10 the strict of the		
product extension optional  • motor drive  • voltage trigger  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  sabas thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current 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 440 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 440 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 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • for short-circuit protection of the auxiliary switch required  • fo	product feature can be locked into OFF position	Yes
Mo   Voltage trigger   No   No   No	accessories	
• voltage trigger  number of connectable NC contacts for auxiliary contacts attachable maximum  number of connectable NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  number of bracket locks maximum  nasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  10 kA  let-through current 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 440 V for combination switch + gG fuse maximum  • 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 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  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combin	product extension optional	
number of connectable NC contacts for auxillary contacts attachable maximum number of connectable NC contacts for auxillary contacts attachable maximum number of connectable CO contacts for auxillary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum 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 G fuse rated value 12t Val 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 • at 440 V for combination switch + gG fuse maximum 12t 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 240 V for combination switch + gG fuse maximum • at 890 V for combination switch + gG fuse maximum • at 890 V for combination switch + gG fuse maximum • at 890 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combinat	<ul> <li>motor drive</li> </ul>	No
attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks during the protection at 3 hasp thickness of the bracket locks  Short circuit conditional short-circuit current with line-side fuse protection at 260 V by gG fuse rated value 50 kA let-through current with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum permissible 12t 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 440 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 640 V for combination switch + gG fuse maximum at 640 V for combination switch + gG fuse maximum at 640 V for combination switch + gG fuse maximum at 640 V for combination switch + gG fuse maximum at 640 V for combination switch + gG fuse maximum at 640 V for combination switch + gG fuse maximum bermissible at 640 V for combination switch + gG fuse maximum at 640 V for combination switch + gG fuse maximum bermissible at 640 V for combination switch + gG fuse maximum bermissible at 640 V for combination switch + gG fuse maximum bermissible at 640 V for combination switch + gG fuse maximum bermissible at 640 V for combination switch + gG fuse maximum bermissible at 640 V for combination switch + gG fuse maximum bermissible at 640 V for combination switch + gG fuse maximum bermissible bermissible at 640 V for combination switch + gG fuse maximum bermissible		
attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  namber of bracket locks maximum  namber of bracket locks maximum  namber of bracket locks 4 8 mm  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 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  • at 440 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 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protecti		3
attachable maximum number of bracket locks maximum 1 hasp thickness of the bracket locks 2 hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value  let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum permissible  12t value with closed switch • at 240 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 • at 690 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 • at 6		5
hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  • at 240 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  • at 690 V for combination switch + gG fuse maximum  permissible  I2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 490 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • for short-circuit protection of the main circuit required  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • fuse gL/gG: 20 A  • for short-circuit protection of the auxiliary switch required  • perational current of upstream fuse rated value  20 A   according UL  operational current at AC according to UL 508/UL 60947-4-1  rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1  rated value  operating voltage at AC at 480 V according to UL 508/UL 60947-4-1  rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA		0
Short circuit  conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  permissible  l2t 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 490 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  operational current of upstream fuse rated value  20 A  according UL  operational current at AC according to UL 508/UL 60947-4-1  rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	number of bracket locks maximum	3
conditional short-circuit current with line-side fuse protection  • at 690 V by gG fuse rated value  let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 480 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  permissible  l2t value with closed switch  • at 240 V for combination switch + gG fuse maximum  2.5 kA2.s  • at 440 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • at 690 V for combination switch + gG fuse maximum  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required  operational current of upstream fuse rated value  20 A  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	hasp thickness of the bracket locks	4 8 mm
at 690 V by gG fuse rated value  let-through current with closed switch  at 240 V for combination switch + gG fuse maximum  at 440 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  permissible  l2t 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 440 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 440 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 440 V for combination switch + gG fuse maximum  be at 440 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  be at 440 V for combination switch + gG fuse maximum  at 440 V for combination switch + gG	Short circuit	
let-through current with closed switch  • at 240 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  permissible  l2t 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  • at 690 V for combination switch + gG fuse maximum  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1  rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	conditional short-circuit current with line-side fuse protection	
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 permissible  Izt value with closed switch at 240 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 at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum be at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum be at 690 V for	at 690 V by gG fuse rated value	50 kA
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum permissible  I2t value with closed switch at 240 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum be at 690	let-through current with closed switch	
at 690 V for combination switch + gG fuse maximum permissible  I2t 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 at 690 V for combination switch + gG fuse maximum be at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum be at 690 V for combination switch + gG fuse gL/gG: 20 A be at 690 V for short switch + gG fuse gL/gG: 20 A be at 690 V for combination switch + gG fuse gL/gG: 20 A be a	<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	3 kA
permissible  I2t value with closed switch  • at 240 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  • at 690 V for combination switch + gG fuse maximum  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required fuse gL/gG: 20 A  • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  20 A  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL 5 KA	<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	3 kA
at 240 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 at 690 V for combination switch + gG fuse maximum  at 690 V for combination switch + gG fuse maximum  be at 690 V for combination switch + gG fuse maximum  at 690 V for short-circuit protection of the main circuit required fuse gL/gG: 20 A  fuse gL/gG: 10 A  operational current of upstream fuse rated value  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA		3 kA
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum  at 690 V for combination switch + gG fuse maximum  be at 690 V for combination switch + gG fuse maximum  at 690 V for combination switch + gG fuse maximum  at 690 V for combination switch + gG fuse maximum  at 690 V for short-circuit protection of the main circuit required  fuse gL/gG: 20 A  fuse gL/gG: 10 A  perational current of upstream fuse rated value  20 A  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	I2t value with closed switch	
at 690 V for combination switch + gG fuse maximum  design of the fuse link  for short-circuit protection of the main circuit required  fuse gL/gG: 20 A  for short-circuit protection of the auxiliary switch required  operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1  rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL  60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	• at 240 V for combination switch + gG fuse maximum	2.5 kA2.s
design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the auxiliary switch required  operational current of upstream fuse rated value  20 A  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	2.5 kA2.s
<ul> <li>for short-circuit protection of the main circuit required</li> <li>fuse gL/gG: 20 A</li> <li>fuse gL/gG: 10 A</li> <li>operational current of upstream fuse rated value</li> <li>20 A</li> <li>according UL</li> <li>operational current at AC according to UL 508/UL 60947-4-1 rated value</li> <li>operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value</li> <li>active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value</li> <li>active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value</li> <li>active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value</li> <li>short-time withstand current (SCCR) at 600 V according to UL</li> <li>5 kA</li> </ul>	• at 690 V for combination switch + gG fuse maximum	3 kA2.s
for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V  60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL 5 kA	design of the fuse link	
operational current of upstream fuse rated value  according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	• for short-circuit protection of the main circuit required	fuse gL/gG: 20 A
according UL  operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current at AC according to UL 508/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA		20 A
rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA	according UL	
active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA		16 A
4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value  short-time withstand current (SCCR) at 600 V according to UL  5 kA		600 V
4-1 rated value short-time withstand current (SCCR) at 600 V according to UL 5 kA		7.5
		10
	short-time withstand current (SCCR) at 600 V according to UL	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	10
minimum	18
type of connectable conductor cross-sections for copper conductor	
• solid	1x (16mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (14mm²)
• stranded	1x (16mm²)
type of connectable conductor cross-sections for auxiliary 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 processing	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	84 mm
width	67 mm
depth	429.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
4-hole front mounting	Yes
<ul> <li>front mounting with central attachment</li> </ul>	No
• rail mounting	Yes
net weight	410 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	



Confirmation







**Miscellaneous** 

General Product Approval

**Declaration of Conformity** 

Test Certificates

Marine / Shipping







Special Test Certificate





other

Environment

Confirmation

Miscellaneous

Environmental Confirmations

## 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=3LD2013-0TK53

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

https://support.industry.siemens.com/cs/ww/en/ps/3LD2013-0TK53

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2013-0TK53

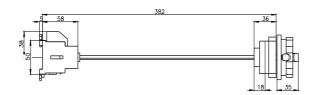
**CAx-Online-Generator** 

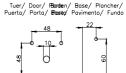
http://www.siemens.com/cax

**Tender specifications** 

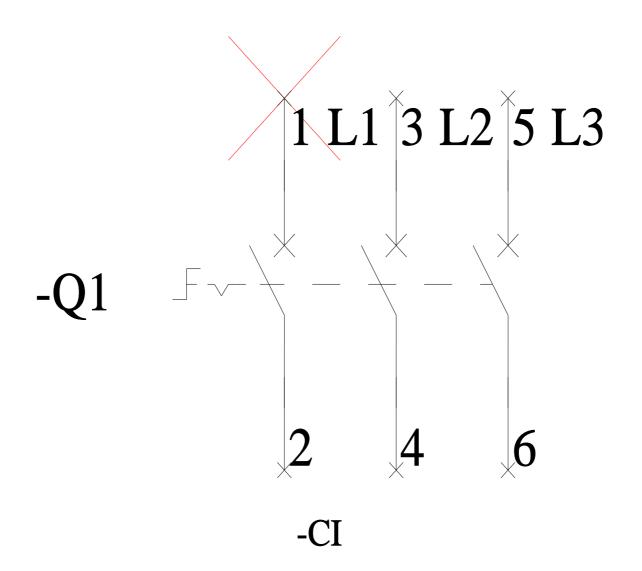
http://www.siemens.com/specifications

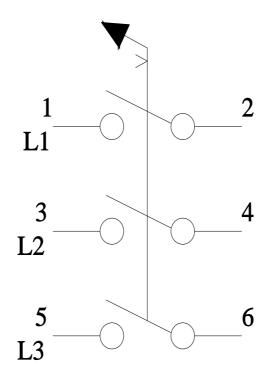












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