## **SIEMENS**

Data sheet 3LD5220-0TL13



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 4-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 60A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 40hp, IEC: 63A, Operating power at AC-23A at 400V: 30kW, front-mounted, rotary operating mechanism, red/yellow, 4-hole mounting of the handle, incl. terminal covers for the infeed side

product brand name	SENTRON	
product designation	3LD UL switch disconnector	
design of the product	EMERGENCY-STOP switch	
display version / for switch position indicator manual operation	1 ON - 0 OFF	
type of switch	front mounted	
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	4	
size of switch disconnector	2	
mechanical service life (switching cycles) / typical	100 000	
electrical endurance (switching 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	7.5 W	
Current		
operational current / rated value	63 A	
operational current		
at 40 °C / rated value	63 A	

• at 05 O' Frated value	at 50 °C / rated value	63 A
### AC / rated value   63 A		
Main circuit		
A		
at AC-21 At 3240 V / rated value 63 A 63 A 63 A 64 C 21 A 7 at 420 V / rated value 63 A 63 A 64 C 21 A / at 400 V / rated value 63 A 64 C 21 A / at 400 V / rated value 63 A 64 C 21 A / at 400 V / rated value 63 A 64 C 21 A / at 400 V / rated value 63 A 64 C 21 A / at 400 V / rated value 63 A 64 C 21 A / at 400 V / rated value 63 A 64 C 22 A / at 400 V / rated value 30 kW 64 A C 23 A / at 400 V / rated value 30 kW 64 A C 23 A / at 400 V / rated value 30 kW 64 A C 23 A / at 400 V / rated value 30 kW 64 A C 23 A / at 400 V / rated value 30 kW 64 A C 23 A / at 400 V / rated value 30 kW 64 A C 23 A / at 400 V / rated value 30 kW 64 A C 23 A / at 600 V / rated value 30 kW 64 A C 23 A / rated value 30 kW 64 A C 23 A / rated value 30 kW 64 A C 23 A / rated value 30 kW 64 A C 23 A / rated value 30 kW 64 A C 23 A / rated value 30 kW 64 A C 23 A / rated value 30 kW 64 A C 23 A / rated value 30 kW 64 A C 23 A / rated value 30		
	•	63 A
e at AC-21 A / at 400 V / rated value		
at AC-21 A / at 440 V / rated value 63 A operating power  at AC-23 A / at 240 V / rated value 30 kW at AC-23 A / at 40 V / rated value 30 kW at AC-23 A / at 40 V / rated value 30 kW at AC-23 A / at 40 V / rated value 30 kW at AC-23 A / at 40 V / rated value 30 kW at AC-23 A / at 40 V / rated value 30 kW at AC-32 A / at 400 V / rated value 30 kW at AC-32 A / at 400 V / rated value 30 kW at AC-32 A / at 900 V / rated value 30 kW at AC-32 A / at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 30 kW at AC-32 at 900 V / rated value 50		
operating power  at AC-23 A / at 440 V / rated value  at AC-23 A / at 400 V / rated value  at AC-23 A / at 400 V / rated value  at AC-23 A / at 400 V / rated value  at AC-23 A / at 400 V / rated value  at AC-23 A / at 400 V / rated value  at AC-32 A / at 400 V / rated value  at AC-31 at 240 V / rated value  at AC-31 at 240 V / rated value  at AC-3 / at 400 V / rated value  at AC-3 / at 400 V / rated value  at AC-3 / at 400 V / rated value  at AC-3 / at 600 V / rated value  at AC-3 / at 600 V / rated value  at AC-3 / at 600 V / rated value  younder of CO contacts / for auxiliary contacts  number of NC contacts / for auxiliary contacts  operating voltage / of auxiliary contacts  operating voltage / of auxiliary contacts / at AC / maximum  continuous current / of the auxiliary contact / rated value  insulation voltage / of the auxiliary switch / rated value  sustability  sutability  sutability  sutability for use  emain switch  esset of which disconnector  e. MERGENOY OFF switch  e. safety switch  e. safety switch  yes  product feature / can be locked into OFF position  ves  consistency  product reature / can be locked into OFF position  voltage trigger  number of connectable NC contacts / for auxiliary contacts / attachable / maximum  rumber of connectable NC contacts / for auxiliary contacts / attachable / maximum  rumber of connectable NC contacts / for auxiliary contacts / attachable / maximum  number of connectable NC contacts / for auxiliary contacts / attachable / maximum  rumber of connectable NC contacts / for auxiliary contacts / attachable / maximum  number of bracket locks / maximum  1 has princiness / of the bracket locks  at 440 V / by g G fuse / rated value  at 440 V / by g G fuse / rated value  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		
a   AC-23 A   at 240 V   rated value		
** at AC-23 A / at 440 V / rated value		
at AC-23 A / at 460 V / rated value at AC-33 / at 240 V / rated value at AC-33 / at 240 V / rated value at AC-37 / at 290 V / rated value at AC-37 / at 690 V / rated value 30 kW  at AC-37 / at 690 V / rated value 30 kW  Auxillary circuit  number of CO contacts / for auxillary contacts 0 number of NC contacts / for auxillary contacts 0 number of NC contacts / for auxillary contacts 0 perating voltage / of auxillary contacts 0 operating voltage / of auxillary contacts / rated value insulation voltage / of the auxillary contact / rated value soutability for use a main switch  switch disconnector  EMERGENCY OFF switch  safety switch  read of switch  read of switch  ves  emaintenance/repair switch  Yes  Product details  Product details  product feature / can be locked into OFF position  constructed train  mumber of connectable NC contacts / for auxillary contacts / attachable / maximum  number of connectable NC contacts / for auxillary contacts / attachable / maximum  number of connectable NC contacts / for auxillary contacts / attachable / maximum  number of connectable NC contacts / for auxillary contacts / attachable / maximum  number of connectable NC contacts / for auxillary contacts / attachable / maximum  number of connectable NC contacts / for auxillary contacts / attachable / maximum  number of connectable NC contacts / for auxillary contacts / attachable / maximum  number of connectable NC contacts / for auxillary contacts / attachable / maximum  number of connectable NC contacts / for auxillary contacts / attachable / maximum  number of tracket locks / maximum  1  hasp thickness of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  at 440 V / by gG fuse / rated value  50 kA  at 690 V / by G fuse / rated value  50 kA  at 690 V / for combination switch + gG fuse / maximum permissible  12 value / with closed switch  at 420 V / for combination switch + gG fuse / maximum permissible  22 value / with closed switch  at 420 V / for combination switch + gG fuse /		18.5 kW
at AC-32 A / at 690 V / rated value at AC-3 / at 400 V / rated value at AC-3 / at 400 V / rated value 30 kW at AC-3 / at 690 V / rated value 30 kW  at AC-3 / at 690 V / rated value 30 kW  at AC-3 / at 690 V / rated value 30 kW  auxiliary circuit  number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contacts / at AC / maximum continuous current of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value sultability sultability for use  a main switch  a switch disconnector  b EMERGENCY OFF switch  c safety switch  c maintenance/repair switch  c maintenance/repair switch  c maintenance/repair switch  yes  product datalis  product datalis  product feature / can be locked into OFF position  cocessories  product extension / optional  a monter 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  1  hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  at 440 V / by gG fuse / rated value  at 690 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 permissible  12 value / with closed switch  at 240 V / for combination switch + gG fuse / maximum permissible	<ul><li>at AC-23 A / at 400 V / rated value</li></ul>	30 kW
at AC-3 / at 240 V / rated value at AC-3 / at 690 V / rated value 30 kW  Auxilary circuit number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contact / rated value 0 insulation voltage / of the auxiliary switch / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of the auxiliary contact / of auxiliary contacts / rated value 0 insulation voltage / of the auxiliary contact / rated value 0 insulation voltage / of voltage / of auxiliary contacts / of auxiliary contact	<ul><li>at AC-23 A / at 440 V / rated value</li></ul>	30 kW
at AC-3 / at 80 V / rated value at AC-3 / at 80 V / rated value at AC-3 / at 80 V / rated value at AC-3 / at 80 V / rated value  number of CO contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 number of NC contacts / for auxiliary contacts 0 operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  insulation voltage / of the auxiliary switch / rated value  Suitability suitability for use  main switch  switch disconnector  - EMERGENCY OFF switch - safety switch - safety switch - maintenance/repair switch  Product details  product feature / can be locked into OFF position  **cccssories**  product vetension / 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 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  1 hasp thickness / of the bracket locks / maximum  1 hasp thickness / of the bracket locks / maximum  1 hasp thickness / of the order of the value  at 440 V / by gG fuse / rated value  at 440 V / by gG fuse / rated value  at 480 V / for combination switch + gG fuse / maximum permissible  12 value / with closed switch  at 240 V / for combination switch + gG fuse / maximum permissible  12 value / with closed switch  at 240 V / for combination switch + gG fuse / maximum permissible  12 v	<ul> <li>at AC-23 A / at 690 V / rated value</li> </ul>	37 kW
* at AC-3 / at 690 V / rated value  Auxiliary circuit number of CO contacts / for auxiliary contacts 0 number of NC 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 continuous current / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value  **Suitability** suitability for use ** main switch ** switch disconnector ** Yes ** safety switch ** maintenance/repair switch ** yes ** maintenance/repair switch ** yes ** maintenance/repair switch ** yes ** safety switch ** yes ** maintenance/repair switch ** yes ** motor drive ** motor drive ** voltage trigger  number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of pracket locks / for auxiliary contacts / attachable / maximum number of pracket locks / maximum  hasp thickness / of the bracket locks ** for auxiliary contacts / attachable / maximum  hasp thickness / of the bracket locks ** short circuit conditional short-circuit current / with line-side fuse protection ** at 440 V / by gG fuse / rated value let-through current / with closed switch ** at 690 V / by gG fuse / rated value let-through current / with closed switch ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum ** at 690 V / by combination switch + gG fuse / maximum	<ul><li>at AC-3 / at 240 V / rated value</li></ul>	18.5 kW
Auxiliary circuit  number of CO contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value suitability  Suitability or use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  Yes  Product details  product feature / can be locked into OFF position  **ecessories**  product extension / optional • motor drive • voltage frigger  No  number of connectable NC contacts / for auxiliary contacts / attachable / maximum  number of connectable OC contacts / for auxiliary contacts / attachable / maximum  number of connectable OC contacts / for auxiliary contacts / attachable / maximum  number of connectable OC contacts / for auxiliary contacts / attachable / maximum  number of connectable OC contacts / for auxiliary contacts / attachable / maximum  number of connectable OC contacts / for auxiliary contacts / attachable / maximum  number of connectable OC contacts / for auxiliary contacts / attachable / maximum  1 has ptickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 / V for gob insign on switch + gG fuse / maximum  • at 690 / V for combination switch + gG fuse / maximum permissible  12 value / with closed switch • at 240 / V for combination switch + gG fuse / maximum permissible  12 value / with closed switch • at 240 / V for combination switch + gG fuse / maximum permissible	<ul><li>at AC-3 / at 400 V / rated value</li></ul>	30 kW
number of CO contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value solve insulation voltage / of the auxiliary switch / rated value  Solve insulation voltage / of the auxiliary switch / rated value  Solve insulation voltage / of the auxiliary switch / rated value  Solve insulation voltage / of the auxiliary switch / rated value  Solve insulation voltage / of the auxiliary switch / rated value  Solve insulation voltage / of the auxiliary switch / rated value  EMERGENCY OFF switch  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / of the auxiliary switch / res  Solve insulation voltage / reserve insulation vo	<ul><li>at AC-3 / at 690 V / rated value</li></ul>	30 kW
number of NC contacts / for auxiliary contacts 0 number of NO contacts / for auxiliary contacts 0 coperating voltage / of auxiliary contacts / rated value continuous current / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value insulation voltage / of the auxiliary switch / rated value  **Sultability**  suitability for use  ** main switch ** switch disconnector ** EMERGENCY OFF switch ** safety switch ** safety switch ** safety switch ** safety switch ** an aniantenance/repair switch  ** an aniantenance/repair switch  ** Toda to the sultability of the sultability of the sultability of the safety switch  ** an aniantenance/repair switch  ** Toda to the sultability of the sultability	Auxiliary circuit	
number of NO contacts / for auxiliary contacts   0   500 V   5	number of CO contacts / for auxiliary contacts	0
operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  Sutability suitability suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • safety switch • maintenance/repair switch  Yes  • maintenance/repair switch  Yes  Product details  product feature / can be locked into OFF position • occessories  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 NC contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum 1 hasp thickness / of the bracket locks  Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • 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 • 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 permissible  12t value / with closed switch • at 240 V / for combination switch + gG fuse / so kA2.s	number of NC contacts / for auxiliary contacts	0
continuous current / of the auxiliary contact / rated value insulation voltage / of the auxiliary switch / rated value  Soutability  suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • safety switch • safety switch • maintenance/repair switch  Product details  product feature / can be locked into OFF position  **accessories**  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 roacket locks / maximum  number of roacket locks / maximum  number of roacket locks / maximum  1 hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by g fuse / rated value • at 290 V / by g fuse / rated value • 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 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 / 30 kA2.s	number of NO contacts / for auxiliary contacts	0
insulation voltage / of the auxiliary switch / rated value  Suitability  suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch  Product details product feature / can be locked into OFF position accessories  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 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 / for auxiliary contacts / attachable / maximum 1 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 • at 690 V / by gG fuse / rated value • 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 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 890 V / for combination switch + gG fuse / maximum • at 890 V / for combination switch + gG fuse / maximum permissible  12t value / with closed switch • at 240 V / for combination switch + gG fuse / switch • at 240 V / for combination switch + gG fuse / switch • at 240 V / for combination switch + gG fuse / switch • at 240 V / for combination switch + gG fuse / switch • at 240 V / for combination switch + gG fuse / switch • at 240 V / for combination switch + gG fuse / switch	operating voltage / of auxiliary contacts / at AC / maximum	500 V
Suitability  suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch • safety switch • maintenance/repair switch • maintenance/repair switch • resident stature / can be locked into OFF position  accessories  product feature / can be locked into OFF position  accessories  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 CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / attachable / maximum 1 hasp thickness / of the bracket locks / attachable / maximum 1 hasp thickness / of the bracket locks / attachable / maximum 1 hasp thickness / of the bracket locks / attachable / maximum 1 hasp thickness / of the bracket locks / attachable / maximum 1 hasp thickness / of the bracket locks / attachable / maximum 1 hasp thickness / of the bracket locks / attachable / maximum 1 at 440 V / by gG fuse / rated value 1 at 440 V / by gG fuse / rated value 1 at 440 V / by combination switch + gG fuse / maximum 1 at 440 V / for combination switch + gG fuse / maximum 1 at 440 V / for combination switch + gG fuse / maximum 1 at 440 V / for combination switch + gG fuse / maximum 1 at 440 V / for combination switch + gG fuse / maximum 1 at 440 V / for combination switch + gG fuse / maximum 1 at 440 V / for combination switch + gG fuse / maximum 1 at 440 V / for combination switch + gG fuse / maximum permissible 1 12t value / with closed switch		
suitability for use  • main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch • maintenance/repair switch • maintenance/repair switch • res  Product details  product feature / can be locked into OFF position  **Coessories**  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 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  1 hasp thickness / of the bracket locks / aximum  1 hasp thickness / of the bracket locks / aximum  1 hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by G fuse / rated value  • 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 permissible  12t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s		500 V
main switch switch disconnector EMERGENCY OFF switch safety switch safety switch maintenance/repair switch  Product details product feature / can be locked into OFF position  accessories  product extension / optional mother of drive voltage trigger number of connectable NC contacts / for auxilliary contacts / attachable / maximum number of connectable NC contacts / for auxilliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / for auxilliary contacts / attachable / maximum number of bracket locks / maximum 1 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 at 690 V / by gG fuse / rated value 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 690 V / for combination switch + gG fuse / maximum at 690 V / for combination switch + gG fuse / maximum permissible    Substitution   Substitutio	Suitability	
Switch disconnector  EMERGENCY OFF switch  safety switch  maintenance/repair switch  Yes  Product details  product feature / can be locked into OFF position  accessories  product extension / optional  motor drive  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 bracket locks / for auxiliary contacts / attachable / maximum  number of bracket locks / for auxiliary contacts / attachable / maximum  number of bracket locks / for auxiliary contacts / attachable / maximum  number of bracket locks / switch  attachable / switch / swi	suitability for use	
EMERGENCY OFF switch Safety switch  In a safety switch  Exproduct details  Product details  Product details  Product details  Product details  Product extension / optional  In motor drive Verent of connectable NC contacts / for auxiliary contacts / attachable / maximum  In umber of connectable NC contacts / for auxiliary contacts / attachable / maximum  In umber of connectable CO contacts / for auxiliary contacts / attachable / maximum  In umber of connectable CO contacts / for auxiliary contacts / attachable / maximum  In umber of bracket locks / maximum  In asp thickness / of the bracket locks  Short circuit  Conditional short-circuit current / with line-side fuse protection  It at 440 V / by gG fuse / rated value It at 440 V / for combination switch + gG fuse / maximum  It at 440 V / for combination switch + gG fuse / maximum  It at 440 V / for combination switch + gG fuse / maximum  It at 440 V / for combination switch + gG fuse / maximum  It at 440 V / for combination switch + gG fuse / maximum  It at 440 V / for combination switch + gG fuse / maximum permissible  It value / with closed switch	<ul><li>main switch</li></ul>	Yes
* safety switch * Yes  Product details  product feature / can be locked into OFF position Yes  ### Accessories  product extension / optional      * motor drive	switch disconnector	Yes
maintenance/repair switch  Product details product feature / can be locked into OFF position  accessories  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  number of bracket locks / maximum  number of bracket locks / maximum  1 hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  at 440 V / by gG fuse / rated value  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 permissible  at 240 V / for combination switch + gG fuse / maximum permissible  at 240 V / for combination switch + gG fuse / maximum permissible  at 240 V / for combination switch + gG fuse / maximum permissible  at 240 V / for combination switch + gG fuse / maximum permissible  at 240 V / for combination switch + gG fuse / maximum permissible  at 240 V / for combination switch + gG fuse / maximum permissible  at 240 V / for combination switch + gG fuse / maximum permissible		
Product details  product feature / can be locked into OFF position  accessories  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  number of bracket locks / maximum  1 hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value • 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 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 240 V / for combination switch + gG fuse / maximum  • at 240 V / for combination switch + gG fuse / maximum  • at 240 V / for combination switch + gG fuse / maximum  • at 240 V / for combination switch + gG fuse / maximum eximals at 240 V / for combination switch + gG fuse / maximum eximals at 240 V / for combination switch + gG fuse / maximum eximals at 240 V / for combination switch + gG fuse / maximum eximals at 240 V / for combination switch + gG fuse / maximum eximals at 240 V / for combination switch + gG fuse / maximum eximals at 240 V / for combination switch + gG fuse / maximum eximals at 240 V / for combination switch + gG fuse / maximum eximals at 240 V / for combination switch + gG fuse /  30 kA2.s	•	
product feature / can be locked into OFF position  accessories  product extension / optional  • motor drive  • 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 NO 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  hasp thickness / of the bracket locks  short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value • 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 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  Izt value / with closed switch • at 240 V / for combination switch + gG fuse / maximum permissible  Izt value / with closed switch • at 240 V / for combination switch + gG fuse / maximum permissible		Yes
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 / for auxiliary contacts / attachable / maximum  number of bracket locks / maximum  1 hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value • 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 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 permissible  12t value / with closed switch • at 240 V / for combination switch + gG fuse / 30 kA2.s	Product details	
product extension / optional  • motor drive  • 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 bracket locks / maximum  1 hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • 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  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 permissible	product feature / can be locked into OFF position	Yes
motor drive     voltage trigger     No  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 bracket locks / maximum  number of bracket locks / maximum  1 hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • at 690 V / by G 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  • at 690 V / for combination switch + gG fuse / maximum permissible  I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s	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 bracket locks / maximum     number of bracket locks / maximum     hasp thickness / of the bracket locks      Short circuit     conditional short-circuit current / with line-side fuse protection     • at 440 V / by gG fuse / rated value     • 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 690 V / for combination switch + gG fuse / maximum permissible  Izt value / with closed switch     • at 240 V / for combination switch + gG fuse / aximum permissible  Izt value / with closed switch     • at 240 V / for combination switch + gG fuse / aximum permissible  Izt value / with closed switch     • at 240 V / for combination switch + gG fuse / aximum permissible	product extension / optional	
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 bracket locks / maximum  number of bracket locks / maximum  1 hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • at 690 V / by gG fuse / rated value  50 kA  let-through current / with closed switch  • at 240 V / for combination switch + gG fuse / maximum  • 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 permissible  I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / maximum permissible  I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s		No
number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum 0 number of bracket locks / maximum 1 number of bracket locks / maximum 1 nasp 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 50 kA  eat 690 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 • at 690 V / for combination switch + gG fuse / maximum permissible  I2t value / with closed switch • at 240 V / for combination switch + gG fuse / maximum permissible  I2t value / with closed switch • at 240 V / for combination switch + gG fuse / 30 kA2.s		
number of connectable CO contacts / for auxiliary contacts / attachable / maximum  number of bracket locks / maximum  number of bracket locks / maximum  hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • 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 690 V / for combination switch + gG fuse / maximum  • at 440 V / for combination switch + gG fuse / 7 kA  maximum permissible  I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s	/ attachable / maximum	2
number of bracket locks / maximum  hasp thickness / of the bracket locks  5hort circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • at 690 V / by gG fuse / rated value  bet-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 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 permissible	/ attachable / maximum	2
hasp thickness / of the bracket locks  Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • 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 690 V / for combination switch + gG fuse / maximum permissible  [l2t value / with closed switch • at 240 V / for combination switch + gG fuse / 30 kA2.s		0
Short circuit  conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • at 690 V / by gG fuse / rated value  Iet-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 690 V / for combination switch + gG fuse / maximum permissible  I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s	number of bracket locks / maximum	1
conditional short-circuit current / with line-side fuse protection  • at 440 V / by gG fuse / rated value  • 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 permissible  12t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s	hasp thickness / of the bracket locks	4 6 mm
protection  • at 440 V / by gG fuse / rated value  • at 690 V / by gG fuse / rated value  50 kA  let-through current / with closed switch  • at 240 V / for combination switch + gG fuse / maximum  • at 440 V / for combination switch + gG fuse / maximum  • at 690 V / for combination switch + gG fuse / 7 kA  I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s	Short circuit	
<ul> <li>at 690 V / by gG fuse / rated value</li> <li>let-through current / with closed switch</li> <li>at 240 V / for combination switch + gG fuse / maximum</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>l2t value / with closed switch</li> <li>at 240 V / for combination switch + gG fuse /</li> <li>30 kA2.s</li> </ul>		
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  I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s	<ul> <li>at 440 V / by gG fuse / rated value</li> </ul>	50 kA
<ul> <li>at 240 V / for combination switch + gG fuse / maximum</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> <li>I2t value / with closed switch</li> <li>at 240 V / for combination switch + gG fuse / 30 kA2.s</li> </ul>	at 690 V / by gG fuse / rated value	50 kA
maximum  • at 440 V / for combination switch + gG fuse / maximum  • at 690 V / for combination switch + gG fuse / 7 kA  maximum permissible  12t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s	let-through current / with closed switch	
maximum  • at 690 V / for combination switch + gG fuse / maximum permissible  12t value / with closed switch  • at 240 V / for combination switch + gG fuse /  30 kA2.s		8 kA
maximum permissible  I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s		8 kA
I2t value / with closed switch  • at 240 V / for combination switch + gG fuse / 30 kA2.s		7 kA
		30 kA2.s

<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	30 kA2.s	
<ul> <li>at 690 V / for combination switch + gG fuse / maximum</li> </ul>	24 kA2.s	
design of the fuse link		
for short-circuit protection of the main circuit / required	fuse gL/gG: 63 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	63 A	
according UL		
operational current / at AC / according to UL 489/UL	60 A	
60947-4-1 / rated value	60 A	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	00 A	
operating voltage / at AC / at 50/60 Hz / according to UL 489 / rated value	480 V	
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value	480 V	
active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value	30	
short-time withstand current (SCCR) / at 480 V / according to UL 508/UL 60947-4-1 and UL 489	50 kA	
continuous current / of upstream fuse / according to UL / rated value	60 A	
type of fuse / according to UL	Class J	
Connections		
AWG number / as coded connectable conductor cross section / solid		
maximum	1	
• minimum	12	
AWG number / as coded connectable conductor cross section / solid / according to UL 489		
• minimum	12	
maximum	1	
AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16		
• minimum	10	
maximum	4	
type of connectable conductor cross-sections / for copper conductor		
• solid	1x (450mm²)	
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (435mm²)	
• stranded	1x (450mm²)	
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	104 mm	
width	103 mm	
depth	108 mm	
type of device	fixed mounting	
fastening method	Built-in unit fixed-mounted version	
	Dane in drift incommod version	
fastening method	Vec	
4-hole front mounting     front mounting with control attachment	Yes	
<ul> <li>front mounting with central attachment</li> </ul>	No	

• rail mounting	No	
net weight	380 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



Confirmation









## other

**Miscellaneous** 

## Further information

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=3LD5220-0TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5220-0TL13

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

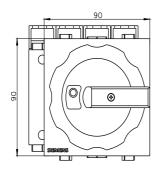
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD5220-0TL13

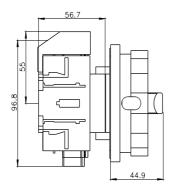
**CAx-Online-Generator** 

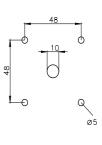
http://www.siemens.com/cax

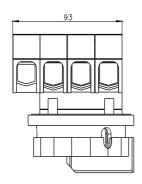
**Tender specifications** 

http://www.siemens.com/specifications









**⊘**