## **SIEMENS**

Data sheet 3LD5820-0TK11



SENTRON, Molded case switch 3LD5 UL, Main switch, 3-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 150A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 100hp, IEC: 160A, Operating power at AC-23A at 400V: 75kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle, incl. terminal covers for the infeed side

Model				
product brand name	SENTRON			
product designation	Switch disconnector			
design of the product	Main switch			
display version for switch position indicator manual operation	1 ON - 0 OFF			
type of switch	front mounted			
design of the actuating element	selector switch			
color of the actuating element	black			
design of handle	knob-operated mechanism, black			
type of the driving mechanism motor drive	No			
General technical data				
number of poles	3			
size of switch disconnector	3			
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			
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	36 W			
Main circuit				
operational current				
<ul> <li>at AC-21 at 690 V rated value</li> </ul>	160 A			
• at AC-21 A at 240 V rated value	160 A			
• at AC-21 A at 400 V rated value	160 A			
<ul> <li>at AC-21 A at 440 V rated value</li> </ul>	160 A			
at AC-23 A at 400 V rated value	160 A			
operating power				
• at AC-23 A at 240 V rated value	45 kW			
• at AC-23 A at 440 V rated value	75 kW			
<ul> <li>at AC-23 A at 690 V rated value</li> </ul>	55 kW			
• at AC-3 at 240 V rated value	45 kW			

* an RC-3 at 80°V raties Value * an RC-3 at 80°V raties Value * an RC-3 at 80°V raties Value * Anxillary circuit **Unmarker of NC contacts for auxillary contacts **On unmber of NC contacts for auxillary contacts **On unmber of NC contacts for auxillary contacts **On Unmarker of NC contacts for auxillary contacts **On Unmarker of NC contacts for auxillary contacts **On V **On Unmarker of NC contacts for auxillary contacts **On V **Insulation voltage of the auxillary switch rated value **Statishity for use **Insulation voltage of the auxillary switch rated value **On Switch **O	• at AC-3 at 400 V rated value	75 kW
Auxiliary circuit number of CO contacts for auxiliary contacts		
rumber of ICC contacts for auxiliary contacts number of ICC contacts for auxiliary contacts 0 number of ICC contacts for auxiliary contacts 0 coperating votings of auxiliary contacts at AC maximum 0 continuous current of the auxiliary contact rated value 10 A insulation votage of the auxiliary switch rated value 500 V  Sittle-Bitty  suthability for use 1 main switch 1 ves 1 main switch 2 ves 1 main switch 2 ves 1 main switch 2 ves 2 main switch 3 vess 2 main switch 3 vess 4 main switch 3 vess 4 main switch 4 ves 2 main switch 3 vess 4 main switch 4 ves 2 main switch 4 ves 3 main switch 4 ves 4 main switch 5 vess 4 main switch 5 vess 4 main switch 5 vess 4 main switch 6 vess 6 main switch 7 ves 8 main switch 7 ves 8 main switch 7 ves 9 maintenance/repair switch 8 maintenance/repair switch 8 maintenance/repair switch 9 maintenance/repair switch		70 KH
rumber of NC contacts for auxiliary contacts  operating voltage of auxiliary contacts at AC maximum  continuous current of the auxiliary switch rated value  straination voltage of the auxiliary switch rated value  email switch  water and switch  yes  email switch  email switch  vest  email switch  email switch  vest  email switch  email switch  vest  email switch  email swit		0
number of NO contacts for auxiliary contacts product extension optional ministration options of the auxiliary contact and or value or ministration vitage of the auxiliary switch rated value interest in the auxiliary switch rated value or manufactor of the auxiliary switch rated value interest in the auxiliary switch rated value intere		
operating votage of auxiliary contacts at AC maximum continuous current of the auxiliary sewth rated value students or votage of the auxiliary sewth rated value suitability for use • main switch • ewitch disconnector • ENERGENCY OFF switch • wolf of Social Sew of the Social Sew of	·	
continuous current of the auxiliary switch rated value insulation voltage of the auxiliary switch rated value Sinusulity suitability for use  • main switch • main switch • washch disconnector • Yes • which disconnector • Yes • which disconnector • Yes • EMERCENCY OFF switch • maintenancetrepair switch • reading the switch • reading the switch • voltage trigger product details  number of connectable NC contacts for auxiliary contacts • voltage trigger  number of connectable NC contacts for auxiliary contacts  altitude in auxiliary contacts  altitude maximum  unumber of tracket locks maximum  altitude maxim		
insulation voltage of the auxiliary switch rated value  **Suitability**  **Suitability**  **Suitability**  **Suitability**  ****  ****  ****  ****  ****  ****  ****		
suitability suitability for use  - main which - witch disconnector - which disconnects - which disconnect		
* main switch     * exitch disconnector     * eMERCIGNCY OFF switch     * safety switch     * ranicensence/regais witch     * Yes  Product feature can be locked into OFF position     * yes  product returns on be locked into OFF position     * verification of the safety switch     * workings trigger     product extension optional     * motor of we     * voltage trigger     rounder of connectable NC contacts for auxiliary contacts     statistable maintenance of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance	,	
* main switch     * exitch disconnector     * eMERCIGNCY OFF switch     * safety switch     * ranicensence/regais witch     * Yes  Product feature can be locked into OFF position     * yes  product returns on be locked into OFF position     * verification of the safety switch     * workings trigger     product extension optional     * motor of we     * voltage trigger     rounder of connectable NC contacts for auxiliary contacts     statistable maintenance of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of connectable NC contacts for auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance     number of bracket locks in auxiliary contacts     statistable maintenance	suitability for use	
EMERGENCY OFF switch Satety s	•	Yes
e safety switch Yes  maintenance/repair switch Yes   Product details  product teature can be locked into OFF position Yes   **Coccs sories**  product extension optional  • motor drive  • voltage trigger  No  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  3  number of connectable NC contacts for auxiliary contacts  statischable maximum  3  number of connectable CO contacts for auxiliary contacts  statischable maximum  3  number of protect locks maximum  3  nasp thickness of the bracket locks  5 7.5 mm  **Short circuit**  conditional short-circuit current with line-side fuse protection  • at 440 V by gG fuse rated value  • at 480 V by gG fuse rated value  • at 2800 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 490 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 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 combi	switch disconnector	Yes
maintenance/repair switch     Product (dishiis     product eature can be locked into OFF position     recessories     product extension optional	EMERGENCY OFF switch	No
Product details product feature can be locked into OFF position Processories  product extension optional Into motor drive Into violage 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 CO contacts for auxiliary contacts attachable maximum number of brackel locks maximum na hasp thickness of the brackel locks 5 7.5 mm Short circuit conditional short-circuit current with line-side fuse protection at 444 0 V by of our serial value at 480 V by gG fuse rated value at 480 V for combination switch + gG fuse maximum at 480 V for combination switch + gG fuse	safety switch	Yes
product feature can be locked into OFF position    Commendation   Product extension optional	<ul> <li>maintenance/repair switch</li> </ul>	Yes
product extension optional  motor drive  voltage trigger  no  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 maximum  number of bracket locks maximum  sapp 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 690 V by gG fuse rated value  at 440 V for combination switch + gG fuse maximum  parmissible  15 kA  15 kA  15 kA  15 kA  15 kA  15 kA  223 kA2.s  23 kA2.s  24 k40 V for combination switch + gG fuse maximum  parmissible  16 value with closed switch  at 440 V for combination switch + gG fuse maximum  part 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  by peration of the fuse link  at 460 V for combination switch + gG fuse maximum  at 460 V for combination switch + gG fuse maximum  by peration of the fuse lin	Product details	
product extension optional  • motor drive  • voltage trigger  number of connectable NC contacts for auxillary contacts attachable maximum  number of connectable NO contacts for auxillary contacts attachable maximum  number of connectable NO contacts for auxillary contacts attachable maximum  number of connectable NO contacts for auxillary contacts attachable maximum  anaportic maximum  3 naportic maximum  4 14 40 V by gG fuse rated value  4 16 kA  4 16	product feature can be locked into OFF position	Yes
woltage trigger     w	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 NO contacts for auxiliary contacts attachable maximum  number of connectable CO contacts for auxiliary contacts attachable maximum  number of bracket locks maximum  naps phickness of the bracket locks  5 7.5 mm  Short circuit  conditional short-circuit current with line-side fuse protection  • at 440 V by g G fuse rated value  • 10 kA  • at 480 V by g G fuse rated value  • 10 kA  16 kA  • 1240 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 maximum  • at 460 V for combination switch + gG fuse maximum  • at 460 V for combination switch + gG fuse maximum  • at 680 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 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 main circuit required  • for short-circuit protection of the main circuit required  • for short-circuit protection of the main circuit required  • for short-circuit protection of the main circuit required  • for short-circuit protection of the main circuit re	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 NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum 3 hasp thickness of the bracket locks 57.5 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 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 • 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 fuse fuse fuse fuse fuse fuse fuse	<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 maximum nasp thickness of the bracket locks short circuit conditional short-circuit current with line-side fuse protection at 440 V by gG fuse rated value 30 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 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 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 be 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 be at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 440 V for combination switch + gG fuse maximum be at 440 V for co	voltage trigger	No
attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum 13 hasp thickness of the bracket locks 57.5 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 16 kA • at 400 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 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 • 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 590 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maxim		3
attachable maximum number of bracket locks maximum lasp 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  • 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 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		3
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 890 V for combination switch + gG fuse maximum  permissible  122 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 690 V for combination switch + gG fuse maximum  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  poperational current at AC according to UL 489/UL 60947-4-1  rated value  operating voltage at AC at 50/60 Hz according to UL 489 rated  value  operating voltage at AC at 50/60 Hz according to UL 489 rated  value  operating voltage at AC at 50/60 Hz according to UL 508/UL  60947-41 rated value  short-time withstand current (SCCR) at 480 V according to UL  50 kA  50 kA  5 7.5 mm  50 kA  50		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  • at 240 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  • at 480 V for combination switch + gG fuse maximum  • at 890 V for combination switch + gG fuse maximum  • at 240 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 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  operational current at AC according to UL 489/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 50/60 Hz 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 50/60 Hz 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 50/60 Hz 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 50/60 Hz 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 50/60 Hz 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 50/60 Hz according to UL 508/UL 60947-4-1  short-time withstand current (SCCR) at 480 V according to UL 508/UL	number of bracket locks maximum	3
conditional short-circuit current with line-side fuse protection  • at 440 V by gG fuse rated value  • at 690 V by g Gfuse rated value  • at 240 V for combination switch + gG fuse maximum  • 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 240 V for combination switch + gG fuse maximum  permissible  12t value with closed switch  • at 240 V for combination switch + gG fuse maximum  223 kA2.s  • at 690 V for combination switch + gG fuse maximum  • at 440 V for combination switch + gG fuse maximum  223 kA2.s  • at 690 V for combination switch + gG fuse maximum  223 kA2.s  • at 690 V for combination switch + gG fuse maximum  223 kA2.s  design of the fuse link  • for short-circuit protection of the main circuit required  • for short-circuit protection of the maximum such required  • for short-circuit protection of the auxiliary switch required  operational current of upstream fuse rated value  160 A  scoording UL  operational current at AC according to UL 489/UL 60947-4-1 rated value  operating voltage at AC at 50/60 Hz according to UL 489 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 480 V according to UL 50 KA  508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J	hasp thickness of the bracket locks	5 7.5 mm
at 440 V by gG fuse rated value at 690 V by gG fuse rated value 30 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  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 440 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 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  coperational current at AC according to UL 489/UL 60947-4-1 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 489 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 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 operating voltage at AC at 480 V 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 operating voltage at AC at 480 V 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 operating voltage at AC at 480 V 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 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 6094	Short circuit	
at 4890 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  let value with closed switch  at 240 V for combination switch + gG fuse maximum  permissible  let value with closed switch  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 440 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  be at 690 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  be at 690 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  at 4690 V for combination switch + gG fuse maximum  at 4690 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 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 +	conditional short-circuit current with line-side fuse protection	
let-through current with closed switch  • at 240 V for combination switch + gG fuse maximum  • at 4600 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 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  223 kA2.s  • 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 fuse gC; 160 A  • for short-circuit protection of the auxiliary switch required fuse gL/gC; 10 A  operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1 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 489 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 480 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 480 V according to UL 508/UL 60947-4-1 rated value  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J	<ul> <li>at 440 V by gG fuse rated value</li> </ul>	50 kA
at 240 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 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 at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination 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 sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch + gG fuse maximum at 690 V for sombination switch required fuse gG: 160 A fuse gG: 1	at 690 V by gG fuse rated value	30 kA
at 440 V for combination switch + gG fuse maximum at 6 kA 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 240 V for short-circuit fequired fuse gG fuse fuse fuse fuse fuse fuse gas kA2.s  at 400 V for short-circuit fuse fuse fuse gas kA2.s  at 400 V for short-circuit fuse fuse fuse gas kA2.s at 400 V for short-circuit fuse fuse gas kA2.s at 400 V for short-circuit fuse gas kA2.s at 400 V for short-circuit fuse gas kA2.s at 400 V fuse gG fuse fuse fuse gas kA2.s at 400 V for short-circuit fuse	let-through current with closed switch	
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 440 V for combination switch + gG fuse maximum  at 440 V for combination switch + gG fuse maximum  223 kA2.s  at 690 V for combination switch + gG fuse maximum  be 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  according UL  operational current at AC according to UL 489/UL 60947-4-1  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 489 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 480 V according to UL  type of fuse according to UL  fundamental in the fundamen	· ·	
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  223 kA2.s  • at 690 V for combination switch + gG fuse maximum  223 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  160 A  according UL  operational current at AC according to UL 489/UL 60947-4-1  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 489 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 480 V according to UL  50 kA  type of fuse according to UL fuse according to UL rated value  type of fuse according to UL  Class J	_	
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 460 V for combination switch + gG fuse maximum  223 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  operational current at AC according to UL 489/UL 60947-4-1 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 489 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value  active power (hpl) at AC at 480 V according to UL 508/UL 60947-4-1 rated value  short-time withstand current (SCCR) at 480 V according to UL 50 kA  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J	· · · · · · · · · · · · · · · · · · ·	15 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  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 fuse a GB (160 A fuse gL 160 A fuse gL	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 gG: 160 A  fuse gL/gG: 10 A  operational current of upstream fuse rated value  operational current at AC according to UL 489/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 50/60 Hz 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 50/60 Hz 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 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J	• at 240 V for combination switch + gG fuse maximum	223 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  according UL  operational current at AC according to UL 489/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 489 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 480 V according to UL 508/UL operating voltage at AC at 480 V according to UL 508/UL operating voltage at AC at 480 V according to UL 508/UL operating voltage at AC at 480 V according to UL 508/UL operating voltage at AC at 480 V according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/UL operating voltage at AC at 50/60 Hz according to UL 508/U	• at 440 V for combination switch + gG fuse maximum	223 kA2.s
• 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  according UL  operational current at AC according to UL 489/UL 60947-4-1 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 489 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 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 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J	• at 690 V for combination switch + gG fuse maximum	223 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 489/UL 60947-4-1 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 489 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 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 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J		
operational current of upstream fuse rated value  according UL  operational current at AC according to UL 489/UL 60947-4-1 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 489 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 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 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J		· ·
according UL  operational current at AC according to UL 489/UL 60947-4-1 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 489 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 480 V according to UL 50 kA 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J		
operational current at AC according to UL 489/UL 60947-4-1 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 489 rated value  operating voltage at AC at 50/60 Hz according to UL 508/UL 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 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J	· · · · · · · · · · · · · · · · · · ·	160 A
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 489 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 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J		
rated value  operating voltage at AC at 50/60 Hz according to UL 489 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 480 V according to UL 50 kA  short-time withstand current of upstream fuse according to UL rated value  type of fuse according to UL  Class J	rated value	150 A
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 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J		150 A
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 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J		480 V
4-1 rated value  short-time withstand current (SCCR) at 480 V according to UL 508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value type of fuse according to UL  Class J		480 V
508/UL 60947-4-1 and UL 489  continuous current of upstream fuse according to UL rated value  type of fuse according to UL  Class J		100
type of fuse according to UL Class J		50 kA
	continuous current of upstream fuse according to UL rated value	150 A
Connections	type of fuse according to UL	Class J
	Connections	

AWG number as coded connectable conductor cross section solid			
• minimum	1		
maximum	4/0		
AWG number as coded connectable conductor cross section solid according to UL 489			
• minimum	1		
• maximum	4/0		
AWG number as coded connectable conductor cross section solid according to CSA C22.2 No. 5-16			
• minimum	3		
• maximum	2/0		
type of connectable conductor cross-sections for copper conductor			
• solid	1x (16185mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (16150mm²)		
stranded	1x (16185mm²)		
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		
<ul> <li>for auxiliary contacts</li> </ul>	connection terminals		
Mechanical Design			
height	178 mm		
width	113 mm		
depth	93 mm		
type of device	fixed mounting		
fastening method	Built-in unit fixed-mounted version		
fastening method			
<ul> <li>4-hole front mounting</li> </ul>	Yes		
<ul> <li>front mounting with central attachment</li> </ul>	No		
rail mounting	No		
net weight	1 650 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



EHC





other

Miscellaneous Confirmation

## 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

s.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=3LD5820-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD5820-0TK11

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

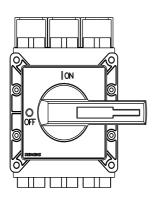
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD5820-0TK11

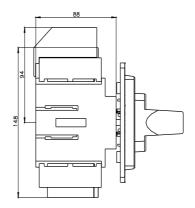
**CAx-Online-Generator** 

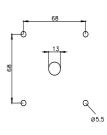
http://www.siemens.com/cax

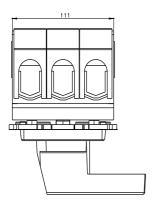
**Tender specifications** 

http://www.siemens.com/specifications









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