## **SIEMENS**

Data sheet 3LD2017-0TK11



SENTRON, switch disconnector 3LD, main switch, 3-pole, lu: 16 A, operating power / at AC-23 A at 400 V: 7.5 kW, floor mounting with door coupling, defeatable knob-operated mechanism, black, 4-hole mounting of the handle

product brand name   SENTRON   product designation   Switch disconnector   Main switch   design of the product   Main switch   Main switch   design of the product   Main switch   10N - 0 OFF   type of switch   Floor mounting with door coupling   design of the actuating element   selector switch   Selector switch   design of the actuating element   black   design of handle   knob-perated mechanism, black   type of the driving mechanism motor drive   No   No   Renard technical data   No   Production   No   Renard technical data   No   Production   No   Renard technical data   No   Production   Production   Production   Production   No   Production   Production   No   Pr	Model	
design of the product display version for switch position indicator manual operation 1 ON - 0 OFF 1 yee of switch 1 ON - 0 OFF 1 yee of switch 1 ON - 0 OFF 1 yee of switch 1 yee of the actuating element 1 yee of the actuating element 2 yee of the actuating element 3 yee of the driving mechanism motor drive 4 yee of the driving mechanism motor drive 5 of the driving mechanism motor drive 5 of the driving mechanism, black 4 yee of the driving yee of the driving yee of the driving mechanism, black 4 yee of the driving ye	product brand name	SENTRON
display version for switch position indicator manual operation   1 ON - 0 OFF	product designation	Switch disconnector
type of switch selector	design of the product	Main switch
design of the actuating element black color of the diving mechanism motor drive No	display version for switch position indicator manual operation	1 ON - 0 OFF
Color of the actuating element   Black   Rinob-operated mechanism, black   Speed the driving mechanism motor drive   No   No   Rinob-operated mechanism, black   Speed the driving mechanism motor drive   No   Rinob-operated mechanism, black   Speed the driving mechanism motor drive   No   Rinob-operated mechanism, black   Speed the driving mechanical data   Speed the driving mechanical service life (operating cycles) typical   100 000   Speed the driving cycles   Speed the d	type of switch	Floor mounting with door coupling
design of handle knob-operated mechanism, black type of the driving mechanism motor drive No  Ceneral technical data  number of poles 3 size of switch disconnector 1 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) value 6 000 operating frequency maximum 50 1/h degree of pollution 3 operating frequency maximum 60 NV operating voltage rated value 690 V operating voltage resistance rated value 680 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating frequency rated value 690 V  operating state per pole 690 V  data contact of the front 696 October of	design of the actuating element	selector switch
type of the driving mechanism motor drive  General technical data  number of poles 3 size of switch disconnector 1 mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 5690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3  Voitage  insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage • at AC rated value 0 operating frequency rated value • minimum 50 Hz • maximum 60 Hz  Protection class IP  degree of protection NEMA rating protection class IP on the front Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operating state per pole  Main circuit  • at AC-21 At 2400 V rated value 16 A • at AC-21 At 2400 V rated value 16 A • at AC-21 At 2400 V rated value 16 A • at AC-21 At 2400 V rated value 16 A • at AC-21 At 2400 V rated value 16 A • at AC-21 At 2400 V rated value 16 A • at AC-21 At 2400 V rated value 16 A	color of the actuating element	black
A command to the command to the current at AC in hot operation class IP on the front IP65  degree of protection class IP on the front IP65  degree of protection class IP on the front IP65  degree of protection class IP on the front IP65  degree of protection class IP on the front IP65  Dissipation  Dissipation  Main circuit  Operating state per pole  Main circuit  Operational current  • at AC-21 at 240 V rated value	design of handle	knob-operated mechanism, black
Number of poles   3	type of the driving mechanism motor drive	No
size of switch disconnector	General technical data	
mechanical service life (operating cycles) typical  electrical endurance (operating cycles)	number of poles	3
electrical endurance (operating cycles)  • at AC-23 A at 690 V  operating frequency maximum  50 1/h  degree of pollution  3  Voltage  insulation voltage rated value  690 V  surge voltage resistance rated value  690 V  operating voltage  • at AC rated value  690 V  operating frequency rated value  • minimum  50 Hz  • maximum  50 Hz  Protection class  protection class IP  degree of protection NEMA rating  protection class IP IP65  degree of protection NEMA rating  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  Main circuit  operational current  • at AC-21 at 690 V rated value  16 A  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value	size of switch disconnector	1
at AC-23 A at 690 V 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 690 V  operating frequency rated value 690 V  operating frequency rated value 100 Hz  Protection class  protection class IP 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  Main circuit  operational current 16 A	mechanical service life (operating cycles) typical	100 000
operating frequency maximum degree of pollution 3  Voltage  insulation voltage rated value Surge voltage resistance rated value operating voltage • at AC rated value • minimum • maximum  50 Hz • maximum  50 Hz • maximum  50 Hz • maximum  Frotection class IP degree of protection NEMA rating protection class IP IP65  degree of protection NEMA rating protection class IP On the front  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value	electrical endurance (operating cycles)	
degree of pollution 3  Voltage  insulation voltage rated value 690 V  surge voltage resistance rated value 690 V  operating voltage  • at AC rated value 690 V  operating frequency rated value  • minimum 50 Hz  • maximum 60 Hz  Protection class IP  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  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value	• at AC-23 A at 690 V	6 000
insulation voltage rated value 690 V surge voltage resistance rated value 680 V operating voltage • at AC rated value 690 V operating frequency rated value • minimum 50 Hz • maximum 60 Hz  Protection class IP 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  Main circuit operating at 690 V rated value 16 A • at AC-21 at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A	operating frequency maximum	50 1/h
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 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  Main circuit  operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value	degree of pollution	3
surge voltage resistance rated value operating voltage out AC rated value operating frequency rated value operating frequency rated value omaximum 50 Hz on maximum 50 Hz on maximum 50 Hz Ontection class  protection class IP degree of protection NEMA rating 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  Main circuit  operational current out at AC-21 at 690 V rated value out at AC-21 A at 240 V rated value out at AC-21 A at 440 V rated value	Voltage	
operating voltage	insulation voltage rated value	690 V
at AC rated value operating frequency rated value minimum 50 Hz on Hz on Hz on Hz  Protection class  protection class IP degree of protection NEMA rating 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  Main circuit  operational current  at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value	surge voltage resistance rated value	6 kV
operating frequency rated value  • minimum  • maximum  60 Hz  Protection class  protection class IP  degree of protection NEMA rating  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  Main circuit  operational current  • at AC-21 at 690 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value	operating voltage	
	at AC rated value	690 V
● maximum  Protection class  protection class IP  degree of protection NEMA rating  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  Main circuit  operational current  ● at AC-21 at 690 V rated value  ● at AC-21 A at 240 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  ● at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value	operating frequency rated value	
protection class IP  degree of protection NEMA rating  1, 3R, 4X, 12  protection class IP on the front  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	• minimum	50 Hz
protection class IP  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  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value	• maximum	60 Hz
degree of protection NEMA rating  1, 3R, 4X, 12  protection class IP on the front  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value	Protection class	
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  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	protection class IP	IP65
power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	degree of protection NEMA rating	1, 3R, 4X, 12
power loss [W] for rated value of the current at AC in hot operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	protection class IP on the front	IP65
operating state per pole  Main circuit  operational current  • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	Dissipation	
operational current  • at AC-21 at 690 V rated value  • at AC-21 A at 240 V rated value  • at AC-21 A at 400 V rated value  • at AC-21 A at 440 V rated value  • at AC-21 A at 440 V rated value  16 A		0.5 W
<ul> <li>at AC-21 at 690 V rated value</li> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 440 V rated value</li> <li>at AC-21 A at 440 V rated value</li> </ul>	Main circuit	
<ul> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 440 V rated value</li> <li>16 A</li> <li>16 A</li> </ul>	operational current	
<ul> <li>at AC-21 A at 400 V rated value</li> <li>at AC-21 A at 440 V rated value</li> <li>16 A</li> </ul>	<ul> <li>at AC-21 at 690 V rated value</li> </ul>	16 A
at AC-21 A at 440 V rated value     16 A	• at AC-21 A at 240 V rated value	16 A
	<ul> <li>at AC-21 A at 400 V rated value</li> </ul>	16 A
at AC-23 A at 400 V rated value     16 A	<ul> <li>at AC-21 A at 440 V rated value</li> </ul>	16 A
	<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	16 A

operating power	
<ul> <li>at AC-23 A at 240 V rated value</li> </ul>	4 kW
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	8 kW
<ul> <li>at AC-23 A at 440 V rated value</li> </ul>	7.5 kW
<ul> <li>at AC-23 A at 690 V rated value</li> </ul>	8 kW
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	3 kW
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	6 kW
at AC-3 at 690 V rated value	5.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
operating voltage of auxiliary contacts at AC maximum	500 V
continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
• safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
<ul> <li>motor drive</li> </ul>	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum	5
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 6 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	3 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	3 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	3 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	2.5 kA2.s
• at 440 V for combination switch + gG fuse maximum	2.5 kA2.s
at 690 V for combination switch + gG fuse maximum	3 kA2.s
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit required</li> </ul>	fuse gL/gG: 20 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	20 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	16 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V
active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	7.5
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	10
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA

continuous current of upstream fuse according to UL rated value	50 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid	
• maximum	10
• minimum	18
type of connectable conductor cross-sections for copper conductor	
• solid	1x (16mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (14mm²)
• stranded	1x (16mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 $\dots$ 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	75 mm
width	67 mm
depth	385 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	Yes
net weight	419 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
maximum	55 °C
General Product Approval	





Confirmation





Miscellaneous

General Product Approval

**Declaration of Conformity** 

Marine / Shipping

other

EAC







Miscellaneous

Confirmation

Environment

Environmental Confirmations

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2017-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2017-0TK11

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2017-0TK11

**CAx-Online-Generator** 

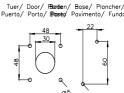
http://www.siemens.com/cax

**Tender specifications** 

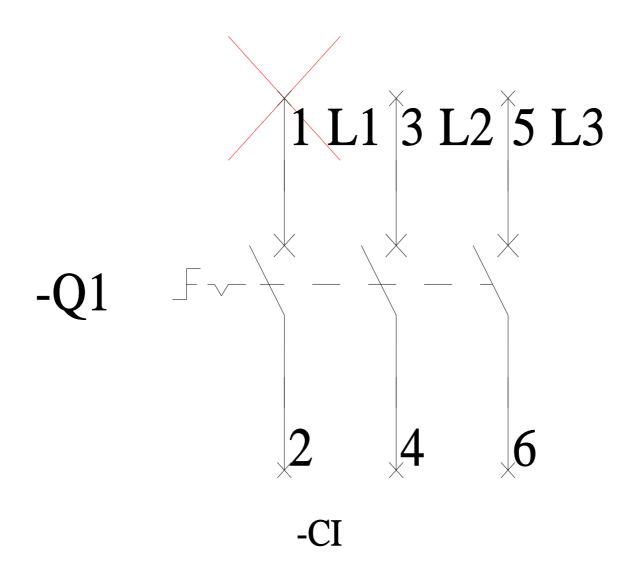
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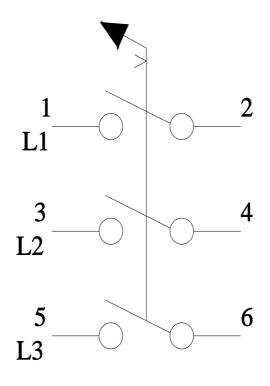












last modified: 6/20/2023 🖸

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