SIEMENS

Data sheet 3LD2103-3VK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 6- pole, lu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, front-mounted, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

product brand name SENTRON Switch disconnector Switch design at the product designation Switch disconnector Switch design of the product EMERGENCY-STOP switch Switch design of the product Switch Swit	Model	
design of the product display version for switch position indicator manual operation 1 ON - 0 OFF yipe of switch design of the actuating element color of the actuating element design of handle type of the driving mechanism motor drive No Concrat technical data number of poles size of switch disconnector mechanical service life (operating cycles) electrical endurance (operating cycles) operating frequency maximum degree of pollution Votage Insulation voltage rated value enting voltage enting voltage enting frequency rated value enting minimum enaitymum for the product endurance (operating cycles) insulation voltage rated value enting woltage enting frequency rated value enting woltage enting frequency rated value for the production of the current at AC in hot operating state per pole Main circut entire Cat A at 4690 V rated value entin circut entire Cat A at 4400 V rated value entire Cat A cat 4400 V rated value entire Cat A ca	product brand name	SENTRON
display version for switch position indicator manual operation type of switch design of the actuating element color of the actuating element design of the actuating element red design of the actuating element red design of the actuating element red design of handle type of the driving mechanism motor drive No Coneral technical data number of poles size of switch disconnector 2 number of poles size of switch disconnector 2 at AC-23 A at 890 V 6 000 operating frequency maximum degree of pollution 3 Voltage insulation voltage rated value surge voltage resistance rated value endering voltage at AC-21 A at 440 V rated value protection class IP power loss [W] for rated value of the current at AC in hot operating six pole at AC-21 A at 240 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A	product designation	Switch disconnector
type of switch design of the actuating element color of the actuating element design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Ceneral technical data number of poles size of switch disconnector pechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) at AC-23 A at 690 V operating frequency maximum degree of pollution Voltage insulation voltage rated value surge voltage resistance rated value operating frequency rated value at AC rated value operating frequency rated value eminimum at AC rated value operating frequency rated value eminimum at AC rated value operating frequency rated value eminimum at AC rated value operating frequency r	design of the product	EMERGENCY-STOP switch
design of the actuating element red color of the actuating element red design of handle type of the driving mechanism motor drive No General technical data number of poles 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	display version for switch position indicator manual operation	1 ON - 0 OFF
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 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V operating voltage 690 V e at AC rated value 690 V operating frequency rated value 690 V e minimum 50 Hz e minimum 60 Hz Protection class Protection class Protection class IP on the front IP65 Dissipation IP65 Dissipation 1.1 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W walso Create the current of the current at AC in hot operating state per pole 25 A	type of switch	front mounted
design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive Roenral technical data number of poles 6 size of switch disconnector 2 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 voltage insulation voltage rated value 690 V operating voltage resistance 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 operation class IP on the fron 690 V protection class IP on the front 9965 protection class IP	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive General technical data number of poles size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 5690 V operating frequency maximum degree of pollution 3 Voitage insulation voltage rated value operating voltage resistance rated value • at AC rated value operating frequency rated value • minimum on the frequency rated value • minimum on the frequency rated value operating frequency rated value operation class IP protection class IP 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 490 V rated value at AC-21 at 400 V rated value	color of the actuating element	red
Inumber of poles 6 size of switch disconnector 2 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 poliution 3 Voltage Insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating requency rated value 690 V surge voltage resistance rated value 690 V operating requency rated value 690 V operating frequency rated value 700 Hz omaximum 1965 protection class IP degree of protection NEMA rating 1,3R,4X,12 protection class IP on the front 1965 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current 4 AC 21 at 690 V rated value 25 A • at AC-21 at 240 V rated value 25 A • at AC-21 At 240 V rated value 25 A • at AC-21 At 240 V rated value 25 A • at AC-21 At 240 V rated value 25 A • at AC-21 At 240 V rated value 25 A	design of handle	rotary operating mechanism, red/yellow
Number of poles	type of the driving mechanism motor drive	No
size of switch disconnector 2	General technical data	
mechanical service life (operating cycles) typical electrical endurance (operating cycles)	number of poles	6
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 25 A • at AC-21 A at 400 V rated value 25 A • at AC-21 A at 400 V rated value 25 A	size of switch disconnector	2
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 1P65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current 1 AC-21 at 690 V rated value 25 A 1 at AC-21 A at 240 V rated value 25 A 1 at AC-21 A at 440 V rated value 25 A 1 at AC-21 A at 440 V rated value 25 A 25 A 26 A 27 A at 440 V rated value 28 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 • 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 • 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	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 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	• 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 • at AC-21 at 690 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 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 • 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 • 25 A • at AC-21 A at 440 V rated value • 25 A	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 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	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	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	• 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 25 A • at AC-21 A at 440 V rated value 25 A	• maximum	60 Hz
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 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	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	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	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	Dissipation	
operational current		1.1 W
 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 	Main circuit	
 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 25 A at AC-21 A at 440 V rated value 	operational current	
 at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value 25 A 	 at AC-21 at 690 V rated value 	25 A
• at AC-21 A at 440 V rated value 25 A	• at AC-21 A at 240 V rated value	25 A
	 at AC-21 A at 400 V rated value 	25 A
at AC-23 A at 400 V rated value 20 A	 at AC-21 A at 440 V rated value 	25 A
	 at AC-23 A at 400 V rated value 	20 A

operating power	
 at AC-23 A at 240 V rated value 	5 kW
 at AC-23 A at 400 V rated value 	10 kW
 at AC-23 A at 440 V rated value 	9.5 kW
 at AC-23 A at 690 V rated value 	10 kW
 at AC-3 at 240 V rated value 	4 kW
 at AC-3 at 400 V rated value 	8 kW
at AC-3 at 690 V rated value	7.5 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	Yes
• safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
 motor drive 	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	3
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 8 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
 at 240 V for combination switch + gG fuse maximum 	3.5 kA
 at 440 V for combination switch + gG fuse maximum 	3.5 kA
 at 690 V for combination switch + gG fuse maximum permissible 	4 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	4 kA2.s
 at 440 V for combination switch + gG fuse maximum 	4 kA2.s
• at 690 V for combination switch + gG fuse maximum	4 kA2.s
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 25 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	25 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	25 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	10
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	15
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	8
• minimum	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (1,516mm²)
 finely stranded with core end processing 	1x (1,510mm²)
• stranded	1x (1,516mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2 ,5mm²
stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	84 mm
width	67 mm
depth	92.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
 4-hole front mounting 	Yes
 front mounting with central attachment 	No
rail mounting	No
net weight	405 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



Declaration of Conformity

Test Certificates

Marine / Shipping

other

(EG.Konf



Special Test Certificate





Confirmation

other Environment

Miscellaneous

Environmental Confirmations

Further information

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

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

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

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

Information on the packaging

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

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2103-3VK53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2103-3VK53

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

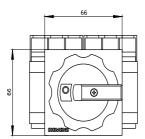
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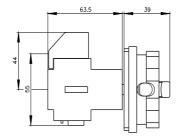
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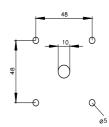
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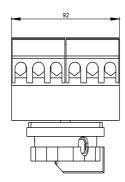
Tender specifications

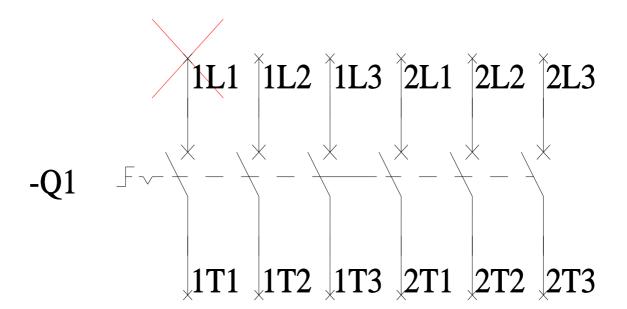
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3LD21033VK53