SIEMENS

Data sheet 3LD2044-0TK51



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, rotary operating mechanism, black, central mounting 22.5 mm of the handle

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	Floor mounting with door coupling
design of the actuating element	Short rotary knob
color of the actuating element	black
design of handle	rotary operating mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of switch disconnector	1
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	6 000
operating frequency maximum	50 1/h
degree of pollution	3
Voltage	
insulation voltage rated value	690 V
surge voltage resistance rated value	6 kV
operating voltage	
at AC rated value	690 V
operating frequency rated value	
• minimum	50 Hz
• maximum	60 Hz
Protection class	
protection class IP	IP65
degree of protection NEMA rating	1, 3R, 4X, 12
protection class IP on the front	IP65
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	0.5 W
Main circuit	
operational current	
at AC-21 at 690 V rated value	16 A
• at AC-21 A at 240 V rated value	16 A
• at AC-21 A at 400 V rated value	16 A
• at AC-21 A at 440 V rated value	16 A

e at AC-23 at 1240 V rated value e at AC-33 at 1240 V rated value e at AC-3 at 1240 V rated value e at 1240 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination switch + gG fuse maximum e at 440 V for combination	• at AC-23 A at 400 V rated value	16 A
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protection	Short circuit	
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 at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum permissible 12t value with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for 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 fus	at 690 V by gG fuse rated value	50 kA
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum permissible 12t value with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum bt A2.s at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 20 A 	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 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum tA2.s design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 20 A 	• at 240 V for combination switch + gG fuse maximum	3 kA
permissible I2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • for short-circuit protection of the main circuit required • fuse gL/gG: 20 A	• at 440 V for combination switch + gG fuse maximum	3 kA
 at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 3 kA2.s design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 20 A 	· · · · · · · · · · · · · · · · · · ·	3 kA
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 3 kA2.s design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 20 A 	I2t value with closed switch	
 at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required fuse gL/gG: 20 A 	• at 240 V for combination switch + gG fuse maximum	2.5 kA2.s
design of the fuse link • for short-circuit protection of the main circuit required fuse gL/gG: 20 A	• at 440 V for combination switch + gG fuse maximum	2.5 kA2.s
• for short-circuit protection of the main circuit required fuse gL/gG: 20 A	at 690 V for combination switch + gG fuse maximum	3 kA2.s
	design of the fuse link	
for short-circuit protection of the auxiliary switch required fuse of I/oG: 10 A	• for short-circuit protection of the main circuit required	fuse gL/gG: 20 A
1000 ging of 1071	• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value 20 A	<u>.</u>	20 A
according UL		
operational current at AC according to UL 508/UL 60947-4-1 16 A rated value		16 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V 60947-4-1 rated value		600 V
active power [hp] at AC at 480 V according to UL 508/UL 7.5 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 5 kA	short-time withstand current (SCCR) at 600 V according to	5 kA

continuous current of upstream fuse according to UL RKS Connections RKS AWG number as coded connectable conductor cross section solld maximum 10 4 18 4 by e of connectable conductor cross-sections for copper conductor 18 1 solid 1x (1.6mm²) 4 finely stranded with core end processing 1x (1.6mm²) 4 type of connectable conductor cross-sections for auxiliary contacts 1x (1.6mm²) 4 solid 1ateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) 4 situanded 1ateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (2,5mm²) 4 situanded 1ateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (2,5mm²) 4 situanded 4 situanded 4 situanded 4 situanded 4 situanded 5 situanded 4 situanded 6 situanded 4 situanded 6 situanded 4 situanded 6 situanded	UL 508/UL 60947-4-1	
value RKS Connections RKS AWG number as coded connectable conductor cross section sold maximum 10 • • • Interpretation of the connectable conductor cross-sections for copper conductor 18 • sold 1x (16mm²) • finely stranded with core end processing 1x (14mm²) • solid 1x (14mm²) • solid 1x (14mm²) • solid 1x (14mm²) • solid 1x (16mm²) • finely stranded with core end processing 1ateral auxiliary switch 2x (0.75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0.75 2,5mm²) • stranded 1ateral auxiliary switch 2x (0.75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0.75 2,5mm²) • type of electrical connection 0.075 2,5mm² 0.075 2,5mm²		50 A
AWG number as coded connectable conductor cross section solid maximum • 10 •		
AWG number as coded connectable conductor cross section solid maximum • 10 18 type of connectable conductor cross-sections for copper conductor • solid 1x (16mm²) 1x	type of fuse according to UL	RK5
section solid maximum o 10 10 18 type of connectable conductor cross-sections for copper conductor o solid infinely stranded with core end processing of stranded type of connectable conductor cross-sections for auxiliary stranded with core end processing of stranded type of connectable conductor cross-sections for auxiliary solid solid of inely stranded with core end processing of sile alear auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) of stranded with core end processing	Connections	
type of connectable conductor cross-sections for copper conductor solid finely stranded with core end processing strander stranded type of connectable conductor cross-sections for auxiliary contacts slid finely stranded with core end processing strander stranded stranded stranded with core end processing strander stranded with core end processing with ch X (1,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (2,5mm²) stranded auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm², 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) stranded auxiliary switch 2x (0,75 1,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) stranded auxiliary switch 2x (0,75 1,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) stranded auxiliary switch 2x (0,75 1,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) stranded auxiliary switch 2x (0,75 1,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) stranded with core end processing busiliary switch 2x (0,75 1,5mm²), 1x 4mm², front auxiliary switch 1x (0,75 2,5mm²) stranded with core end processing busiliary switch 2x (0,75 1,5mm²), 1x 4mm², front aux		
type of connectable conductor cross-sections for copper conductor solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing finely stranded with core end processing stranded stranded finely stranded with core end processing stranded strand	•	10
condiductor 1x (16mm²) e finely stranded with core end processing 1x (16mm²) e stranded 1x (16mm²) type of connectable conductor cross-sections for auxiliary contacts tileral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) e solid (ateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) e stranded with core end processing lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) e stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection box terminal e for main current circuit box terminal e for auxiliary contacts connection terminals Moternical Dossign With Design width 67 mm depth 451.5 mm type of device fixed mounting fastening method gull-in unit fixed-mounted version e fastening method pull-in unit fixed-mounted version e rail mounting with central attachment processed e rail mounting 420 g <td< td=""><td>•</td><td>18</td></td<>	•	18
• finely stranded 1x (14mm²) type of connectable conductor cross-sections for auxillary contacts x (16mm²) • 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 2,5mm² • stranded or electrical connection box terminal • for main current circuit box terminal • for main current circuit box terminal • for auxiliary contacts connection terminals width 67 mm depth 451.5 mm type of device fixed mounting fastening method fixed mounting • 4-hole front mounting No • 4-hole front mounting with central attachment Yes • rail mounting 420 g Environmental conditions ambient temperature during operation • minimum 25 °C • minimum 625 °C • minimum 525 °C	• • • • • • • • • • • • • • • • • • • •	
type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded • str	• solid	1x (16mm²)
type of connectable conductor cross-sections for auxiliary contacts • solid • solid • finely stranded with core end processing • stranded • stranded • stranded • tor main current circuit • for main current circuit • for auxiliary contacts **Mechanical Design** **Height** **B4 mm **Weitht** **G9 five of device fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting • weight **Environmental conditions** **ambient temperature during operation • maximum • maximum • maximum • maximum • maximum • maximum • naximum • maximum • maximum • c25 °C • minimum • 25 °C • minimum • 25 °C • minimum • maximum • stranded auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)	 finely stranded with core end processing 	1x (14mm²)
e solid lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) e finely stranded with core end processing lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² e stranded lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection e for main current circuit box terminal e for auxiliary contacts connection terminals Mechanical Design Mechanical Design Method 451.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method e 4-hole front mounting e front mounting with central attachment Yes e rail mounting with central attachment Yes net weight 420 g Environmental conditions minimum -25 °C e maximum mablent temperature during storage e minimum e maximum solid auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²;	• stranded	1x (16mm²)
• finely stranded with core end processing • stranded • stranded • stranded • stranded lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection • for main current circuit • for auxiliary contacts box terminal • for auxiliary contacts Machanical Design Height • depth • depth • 451.5 mm type of device fixed mounting fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting with central attachment • rail mounting with central attachment • rail mounting method e rail mounting not weight ### Auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) ##################################		
2,5mm² lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²) type of electrical connection	• solid	
type of electrical connection • for main current circuit • for auxiliary contacts • for auxiliary contacts Mechanical Design height • 84 mm width • 67 mm depth • 451.5 mm type of device fixed mounting fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight ambient temperature during operation • minimum • 55 °C ambient temperature during storage • minimum • minimum • 25 °C • maximum	 finely stranded with core end processing 	
• for main current circuit • for auxiliary contacts Mechanical Design height **Methanical Design height **Methanical Design **	• stranded	
• for auxiliary contacts Mechanical Design height 84 mm width 67 mm depth 451.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method No • 4-hole front mounting No • front mounting Yes • rail mounting Yes net weight 420 g Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum • -25 °C ambient temperature during storage • minimum • -25 °C • maximum 55 °C	type of electrical connection	
height 84 mm width 67 mm depth 451.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method • 4-hole front mounting No • front mounting with central attachment Yes • rail mounting net weight 420 g Environmental conditions ambient temperature during operation • minimum • maximum - 25 °C ambient temperature during storage • minimum • -25 °C ambient temperature during storage • minimum • -25 °C ambient temperature during storage • minimum • -25 °C ambient temperature during storage • minimum • -25 °C 55 °C	• for main current circuit	box terminal
height 84 mm width 67 mm depth 451.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method • 4-hole front mounting No • front mounting with central attachment Yes • rail mounting Yes net weight 420 g Environmental conditions ambient temperature during operation • minimum • -25 °C ambient temperature during storage • minimum • -25 °C ambient temperature during storage • minimum • and a set menual storage • minimum • minimum • -25 °C ambient temperature during storage • minimum • minimum • -25 °C • maximum	 for auxiliary contacts 	connection terminals
width 67 mm depth 451.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method No • 4-hole front mounting Yes • rail mounting with central attachment Yes • rail mounting Yes net weight 420 g Environmental conditions ambient temperature during operation • minimum • maximum 55°C ambient temperature during storage • minimum • minimum • 25°C • maximum 67°C • maximum 68°C • maximum 68°C 68°C • maximum 68°C 68°C	Mechanical Design	
depth 451.5 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version • 4-hole front mounting No • front mounting with central attachment Yes • rail mounting Yes net weight 420 g Environmental conditions ambient temperature during operation -25 °C • maximum 55 °C ambient temperature during storage -25 °C • minimum -25 °C • maximum 55 °C	height	84 mm
type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • maximum • minimum • c25 °C ambient temperature during storage • minimum • maximum -25 °C -25 °C -25 °C -55 °C	width	67 mm
fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • maximum • maximum -25 °C ambient temperature during storage • minimum • maximum -25 °C -25 °C -25 °C -25 °C	depth	451.5 mm
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting ret weight Environmental conditions ambient temperature during operation • minimum • maximum 55°C ambient temperature during storage • minimum • maximum 55°C	type of device	fixed mounting
4-hole front mounting front mounting with central attachment rail mounting Yes net weight 420 g Environmental conditions ambient temperature during operation minimum -25 °C maximum minimum -25 °C ambient temperature during storage minimum -25 °C ambient temperature during storage minimum -25 °C ambient temperature during storage minimum -25 °C maximum -25 °C	fastening method	Built-in unit fixed-mounted version
 front mounting with central attachment rail mounting Yes net weight 420 g Environmental conditions ambient temperature during operation minimum maximum 55 °C ambient temperature during storage minimum -25 °C ambient temperature during storage minimum -25 °C ambient temperature during storage minimum 55 °C 	fastening method	
● rail mounting Yes net weight 420 g Environmental conditions ambient temperature during operation -25 °C ● maximum 55 °C ambient temperature during storage ● minimum -25 °C ● maximum 55 °C	4-hole front mounting	No
net weight Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C • maximum 55 °C	 front mounting with central attachment 	Yes
ambient temperature during operation in minimum maximum minimum minimum	• rail mounting	Yes
ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C • maximum -25 °C • maximum 55 °C	net weight	420 g
● minimum -25 °C ● maximum 55 °C ambient temperature during storage -25 °C ● minimum -25 °C ● maximum 55 °C	Environmental conditions	
 maximum ambient temperature during storage minimum maximum 55 °C 	ambient temperature during operation	
ambient temperature during storage	• minimum	-25 °C
 minimum -25 °C maximum 55 °C 	• maximum	55 °C
• maximum 55 °C	ambient temperature during storage	
	• minimum	-25 °C
Approvals Certificates	• maximum	55 °C
	Approvals Certificates	

General Product Approval







Confirmation





General Product Approval

Marine / Shipping

other

Miscellaneous







Confirmation

Miscellaneous

Environment

Environmental Confirmations

Environmental Confirmations

Further information

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

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https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2044-0TK51

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2044-0TK51

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CAx-Online-Generator

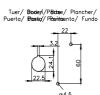
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Tender specifications

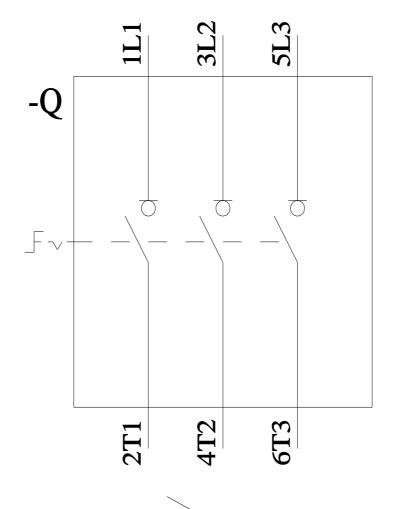
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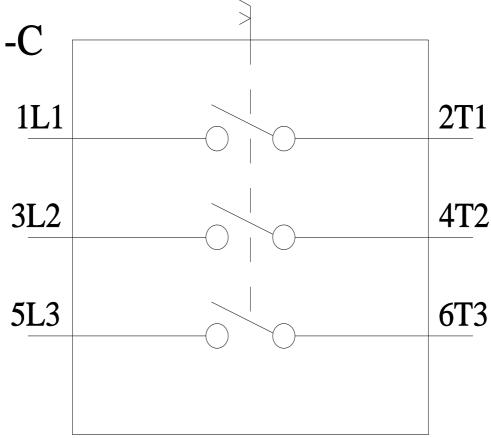












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