SIEMENS

Data sheet 3RV2311-0BC10



Circuit breaker size S00 for starter combination Rated current 0.2 A N-release 2.6 A screw terminal Standard switching capacity





product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	5.5 W
 at AC in hot operating state per pole 	1.8 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts typical	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
operating voltage	
rated value	20 690 V
• at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.2 A
operational current	

• at AC-2 et al 400 V rated value 02 A	• at AC-3 at 400 V rated value	0.2 A
	• at AC-3e at 400 V rated value	0.2 A
	operating power	
	— at 230 V rated value	0 kW
A C - 3	— at 400 V rated value	0.1 kW
	— at 500 V rated value	0.1 kW
at 200 V rated value at 400 V rated value at 900 V rated value at 800 V rated value at	— at 690 V rated value	0.1 kW
at 400 V rated value	• at AC-3e	
- at 500 V rated value	— at 230 V rated value	0 kW
operating frequency * at AC-3 maximum * at AC-3 maximus * at AC-3 maximus contacts * a number of NC contacts for auxiliary contacts * a number of NC contacts for auxiliary contacts * a number of NC contacts for auxiliary contacts * a number of NC contacts for auxiliary contacts * a number of NC contacts for auxiliary contacts * a number of NC contacts for auxiliary contacts * a number of NC contacts for auxiliary contacts * a ground fault defection * a ground fault defection * a pround fault d	— at 400 V rated value	0.1 kW
operating frequency • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum 15 1/h Auxillary circuit number of NC contacts for auxillary contacts protective and monitoring functions product function • ground fault defection • ground fault defection • ground fault defection • phase failure defection No maximum short-circuit current breaking capacity (lcu) • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 400 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated val	— at 500 V rated value	0.1 kW
at AC-3 maximum at AC-3 emaximum at AC-	— at 690 V rated value	0.1 kW
* at AC-3e maximum Auxiliary circuit number of NC contacts for auxiliary contacts 0 product function • ground fault detection • ground fault detection • phase failure detection No maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value operating short-circuit current breaking capacity (Ice) at AC • at 240 V rated value • at 600 V rated value product function short-circuit protection • Yes design of the short-circuit protection • A fastening method • A farm depth • Grounded parts at 400 V • — downwards • Vin live parts at 400 V • — downwards • John Mm • The parts at 400 V • — downwards • Live parts at 400 V • — downwards • Live parts at 400 V • — downwards • John Mm • John M	operating frequency	
Auxiliary circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts product function ground fault detection how phase failure detection how at AC at 240 V rated value at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC of 500 V rated value at AC of 500 V rated value be at AC of 500 V rated value at AC of 500 V rated value at AC of 500 V rated value be at AC of 500 V rated value at AC of 500 V rated value be at AC of 500 V rated value at AC of 500 V rated value be at AC of 500 V rated value at AC of 500 V rated value be at AC of 500 V rated value at AC of 500 V rated value be at 500 V rated value be	• at AC-3 maximum	15 1/h
number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 number of CC contacts for auxiliary contacts 0 number of CC contacts for auxiliary contacts 0 product function ground fault detection No phase failure detection No maximum short-circuit current breaking capacity (lcu) at AC at 240 V rated value 100 kA at AC at 450 V rated value 100 kA at AC at 550 V rated value 100 kA at AC at 550 V rated value 100 kA at AC at 550 V rated value 100 kA at AC at 450 V rated value 100 kA at AC at 450 V rated value 100 kA at AC at 450 V rated value 100 kA at AC at 450 V rated value 100 kA at AC at 450 V rated value 100 kA at 450 V rated value 100 kA at 550 V rated value 100 kA at 550 V rated value 100 kA at 550 V rated value 100 kA at 450 V rated value 100 kA at 650 V rated value 100 kA be at 650 V rated value 10	• at AC-3e maximum	15 1/h
number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 Protective and monitoring functions product function • ground fault defection No maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value 100 kA • at AC at 480 V rated value 100 kA • at AC at 4800 V rated value 100 kA • at AC at 680 V rated value 100 kA • at AC at 680 V rated value 100 kA • at 400 V rated value 100 kA • at 690 V rated	Auxiliary circuit	
number of CO contacts for auxiliary contacts product function ground fault detection product function at AC at 24 V rated value at AC at 24 V rated value at AC at 500 V rated value at AC at 500 V rated value at 240 V rated value at 3500 V rated value 30 A design of the short-circuit protection yes design of the short-circuit trip magnetic final attaction mounting difficusions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height ye mit side-by-side mounting at the side for grounded parts at 400 V — downwards — upwards — at the side 9 mm for live parts at 400 V — downwards — upwards — upwards	number of NC contacts for auxiliary contacts	0
Protective and monitoring functions product function • ground fault detection • phase failure detection No maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 4500 V rated value • at AC at 5500 V rated value • at AC at 5500 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 3500 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V	number of NO contacts for auxiliary contacts	0
product function • ground fault detection • phase failure detection No maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 500 V rated value • at 600 V rated val	number of CO contacts for auxiliary contacts	0
• ground fault detection • phase failure detection no maximum short-circuit current breaking capacity (Icu) • at AC at 24 0V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 600 V rated value • at AC at 600 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • 2.6 A UL/CSA ratings full-load current of instantaneous short-circuit trip unit • at 480 V rated value • at 600 V rated value • 2.6 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • 0.2 A Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height depth 97 mm width depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — upwards — on the side • for live parts 400 V — downwards — on the side • for live parts 4400 V — downwards — of wonwards — upwards — upwards — upwards — upwards — of wonwards — upwards — upwards — upwards — of wonwards — upwards —	Protective and monitoring functions	
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at AC at 240 V rated value at AC at 400 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA at 400 V rated value 100 kA at 500 V rated value 100 kA response value current of instantaneous short-circuit trip unit 2.6 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.2 A at 600 V rated value 0.2 A solve at 600 V rate	phase failure detection	No
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at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA 100	 at AC at 400 V rated value 	100 kA
operating short-circuit current breaking capacity (lcs) at AC at 240 V rated value 100 kA at 400 V rated value 100 kA at 500 V rated value 100 kA response value current of instantaneous short-circuit trip unit 2.6 A UUCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.2 A at 600 V rated value 0.2 A short-circuit protection product function short circuit protection yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth required spacing with side-by-side mounting at the side for grounded parts at 400 V - downwards - upwards - at the side for live parts at 400 V - downwards - at the side for live parts at 400 V - downwards - upwards	 at AC at 500 V rated value 	100 kA
at 240 V rated value at 400 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA response value current of instantaneous short-circuit trip unit 2.6 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.2 A at 800 V rated value 0.2 A short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing with side-by-side mounting at the side for grounded parts at 400 V — downwards — upwards — at the side for live parts at 400 V — downwards — upwards — of mm o	at AC at 690 V rated value	100 kA
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value 2.6 A **UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 690 V rated value at 690 V rated value 0.2 A at 690 V rated value 0.2 A **Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — upwards — upwards • upwards — 30 mm • for live parts at 400 V — downwards — upwards — upwards — upwards — upwards — upwards — 30 mm • or mm • o	operating short-circuit current breaking capacity (Ics) at AC	
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e at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value Droduct function short circuit protection product function short circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards • for live parts at 400 V — downwards — of ownwards — ownward	 at 400 V rated value 	100 kA
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value Droduct function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — at the side • for live parts at 400 V — downwards — ownwards — of ownwards —	at 500 V rated value	100 kA
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full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 0.2 A Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — odwnwards — odwnwards — at the side • for live parts at 400 V — downwards — upwards — upwards — upwards — upwards — at the side • for live parts at 400 V — downwards — upwards — odwnwards — upwards — upward	· · · · · · · · · · · · · · · · · · ·	2.6 A
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Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V - downwards - upwards - at the side • for live parts at 400 V - downwards - downwards - downwards - for live parts at 400 V - downwards - upwards - upward	• at 480 V rated value	0.2 A
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Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards • for live parts at 400 V — downwards - upwards 30 mm • for live parts at 400 V — downwards — upwards 30 mm • for live parts at 400 V — downwards — upwards 30 mm	<u> </u>	
mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — odwnwards — upwards • for live parts at 400 V — downwards — upwards 30 mm • for live parts at 400 V — downwards — upwards 30 mm		magnetic
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required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards • upwards • for live parts at 400 V — downwards — upwards 30 mm 30 mm		
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 — upwards — at the side 9 mm • for live parts at 400 V — downwards — upwards 30 mm 30 mm 	-	20
 — at the side ● for live parts at 400 V — downwards — upwards 30 mm 30 mm 		
 for live parts at 400 V — downwards — upwards 30 mm 30 mm 	·	
— downwards 30 mm — upwards 30 mm		9 mm
— upwards 30 mm	·	
— at the side	·	
		9 mm
• for grounded parts at 500 V		
— downwards 30 mm	— downwards	30 mm

— upwards	30 mm
— at the side	9 mm
● for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
 for live parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for main contacts	2x (18 14), 2x 12
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm Pozidriv size 2
size of the screwdriver tip design of the thread of the connection screw	FOZIUTIV SIZE Z
• for main contacts	M3
Safety related data	
product function suitable for safety function	Yes
suitability for use	
safety-related switching on	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
with high demand rate according to SN 31920	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN	EO EIT
31920	50 FIT
31920 ISO 13849	50 FII
11025	3
ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	
ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508	3 Yes
ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2	3
ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value	3 Yes Type A
ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2	3 Yes
ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value • for proof test interval or service life according to IEC	3 Yes Type A
device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value • for proof test interval or service life according to IEC 61508 Electrical Safety protection class IP on the front according to IEC 60529	3 Yes Type A 10 a
device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value • for proof test interval or service life according to IEC 61508 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	3 Yes Type A 10 a
device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value • for proof test interval or service life according to IEC 61508 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Display	3 Yes Type A 10 a IP20 finger-safe, for vertical contact from the front
device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value • for proof test interval or service life according to IEC 61508 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Display display version for switching status	3 Yes Type A 10 a
device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value • for proof test interval or service life according to IEC 61508 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Display	3 Yes Type A 10 a IP20 finger-safe, for vertical contact from the front





Confirmation





<u>KC</u>

General Product Approval

Test Certificates

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other







Miscellaneous

Confirmation



Railway

Environment

Special Test Certificate

Confirmation



Environmental Confirmations

Siemens EcoTech

Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2311-0BC10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2311-0BC10}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0BC10

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

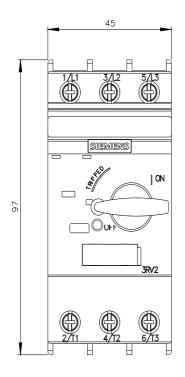
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0BC10&lang=en

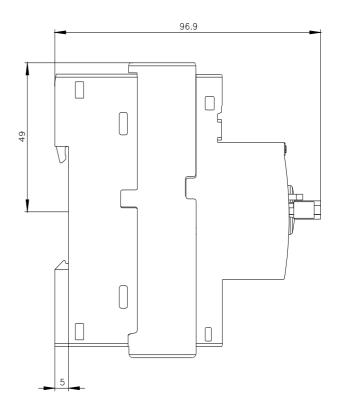
Characteristic: Tripping characteristics, I2t, Let-through current

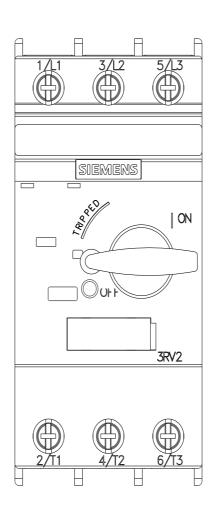
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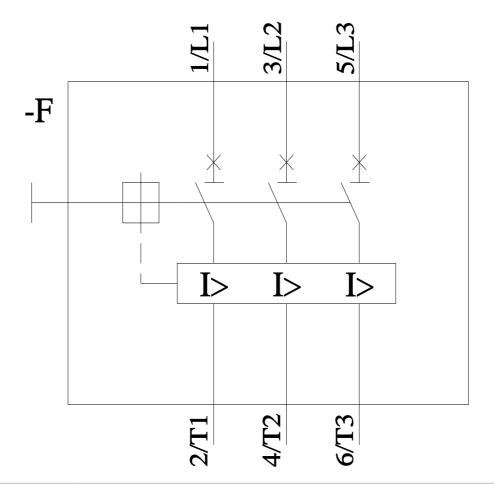
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2311-0BC10&objecttype=14&gridview=view1









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