## SIEMENS

## Data sheet

## 3RV2041-4MA10



Circuit breaker size S3 for motor protection, CLASS 10 A-release 80...100 A N-release 1300 A screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	\$3
size of contactor can be combined company-specific	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	44 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	14.7 W
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	25 000
<ul> <li>of auxiliary contacts typical</li> </ul>	25 000
electrical endurance (operating cycles) typical	25 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Blei - 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
adjustable current response value current of the current- dependent overload release	80 100 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	100 A



operational current	400.4
at AC-3 at 400 V rated value	100 A
at AC-3e at 400 V rated value	100 A
operating power	
• at AC-3	
— at 230 V rated value	30 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	30 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	90 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	65 kA
at AC at 500 V rated value	8 kA
at AC at 690 V rated value	5 kA
	AAC
operating short-circuit current breaking capacity (Ics) at AC	400 kA
at 240 V rated value	100 kA
• at 400 V rated value	30 kA
• at 500 V rated value	4 kA
at 690 V rated value	3 kA
response value current of instantaneous short-circuit trip unit	1 300 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	100 A
• at 600 V rated value	100 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	20 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any.
	any
fastening method	
height	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width	165 mm
donth	165 mm 70 mm
depth	165 mm
required spacing	165 mm 70 mm 176 mm
• with side-by-side mounting at the side	165 mm 70 mm
required spacing	165 mm 70 mm 176 mm



— upwards		70 mm		
— at the side		10 mm		
<ul> <li>for live parts at 40</li> </ul>	)0 V			
— downwards		70 mm		
— upwards		70 mm		
— at the side		10 mm		
<ul> <li>for grounded part</li> </ul>	s at 500 V			
— downwards		110 mm		
— upwards		110 mm		
— at the side		10 mm		
<ul> <li>for live parts at 50</li> </ul>	00 V			
— downwards		110 mm		
— upwards		110 mm		
— at the side		10 mm		
<ul> <li>for grounded part</li> </ul>	s at 690 V			
- downwards		150 mm		
— upwards		150 mm		
— at the side		30 mm		
<ul> <li>for live parts at 69</li> </ul>	90 V			
— downwards		150 mm		
— upwards		150 mm		
— at the side		30 mm		
Connections/ Terminals				
type of electrical conn				
<ul> <li>for main current of</li> </ul>		screw-type terminals		
	cal connectors for main current	Top and bottom		
circuit				
type of connectable co	onductor cross-sections			
<ul> <li>for main contacts</li> </ul>				
— solid		2x (2.5 16 mm²)		
— solid or stra	nded	2x (2,5 50 mm²), 1x (10 7	70 mm²)	
- finely strand	led with core end processing	2x (2.5 35 mm²), 1x (2.5	50 mm²)	
- finely strand	led without core end processing	2x (10 35 mm²), 1x (10 5	0 mm²)	
tightening torque				
<ul> <li>for main contacts</li> </ul>	for ring cable lug	4.5 6 N·m		
outer diameter of the u	usable ring cable lug maximum	19 mm		
tightening torque				
• • •	with screw-type terminals	4.5 6 N·m		
Safety related data				
B10 value				
	rate according to SN 31920	5 000		
proportion of dangero		0 000		
	rate according to SN 31920	50 %		
	I rate according to SN 31920	50 %		
Ŭ	nterval or service life according to IEC	10 a		
61508		10 a		
protection class IP on	the front according to IEC 60529	IP20		
•	e front according to IEC 60529	finger-safe, for vertical contact	t from the front	
display version for switc		Handle		
Certificates/ approvals				
				For use in hazard-
General Product Appr	ovai			ous locations
(m)	Confirmation	<u>KC</u>	r N r	IECE*
$(\mathbf{m})$	(ŸL)		FAL	ILC.LX
ccc	<u> </u>		LIIL	IECEx
For use in hazard-	Declaration of Conformation	Test Osuda		Manina (Obi
ous locations	Declaration of Conformity	Test Certificates		Marine / Shipping

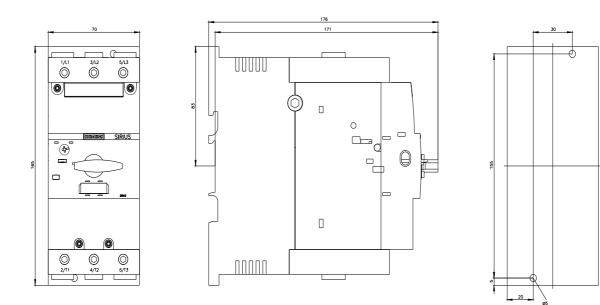


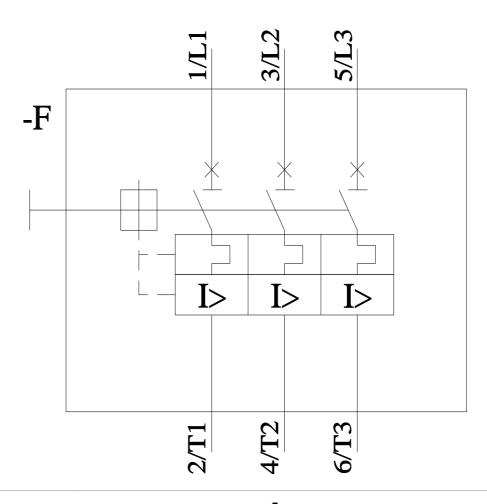
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Marine / Shipping					other
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