SIEMENS

Data sheet 3RV2032-4WA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 42...52 A N-release 741 A screw terminal increased 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	S2
size of contactor can be combined company-specific	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	24.5 W
 at AC in hot operating state per pole 	8.2 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 Sinus
mechanical service life (operating cycles)	
 of the main contacts typical 	50 000
 of auxiliary contacts typical 	50 000
electrical endurance (operating cycles) typical	50 000
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)	10/15/2014
Substance Prohibitance (Date) Ambient conditions	10/15/2014
<u> </u>	10/15/2014 2 000 m
Ambient conditions	
Ambient conditions installation altitude at height above sea level maximum	
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation	2 000 m -20 +60 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage	2 000 m -20 +60 °C -50 +80 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 42 52 A
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 42 52 A 20 690 V 690 V
Ambient conditions installation altitude at height above sea level maximum ambient temperature	2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 42 52 A 20 690 V 690 V

 at AC-3 at 400 V rated value 	52 A
at AC-3e at 400 V rated value	52 A
operating power	
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 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
-	Yes
phase failure detection trip class	
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	400 l.A
• at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
• at AC at 500 V rated value	10 kA
at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
 at 400 V rated value 	50 kA
 at 500 V rated value 	5 kA
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	741 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	-1
	5 hp
— at 230 V rated value	5 np 10 hp
— at 230 V rated value• for 3-phase AC motor	
• for 3-phase AC motor	10 hp
 for 3-phase AC motor— at 200/208 V rated value	10 hp 15 hp 20 hp
 for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 	10 hp 15 hp
 for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value 	10 hp 15 hp 20 hp 40 hp
● for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection	10 hp 15 hp 20 hp 40 hp 50 hp
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection	10 hp 15 hp 20 hp 40 hp 50 hp
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip	10 hp 15 hp 20 hp 40 hp 50 hp
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection	10 hp 15 hp 20 hp 40 hp 50 hp
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit	10 hp 15 hp 20 hp 40 hp 50 hp
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125 100
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 690 V Installation/ mounting/ dimensions mounting position	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125 100
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125 100 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125 100 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125 100 any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

required spacing		
with side-by-side mounting at the side	0 mm	
 for grounded parts at 400 V 		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for live parts at 400 V		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
 for grounded parts at 500 V 		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for live parts at 500 V		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for grounded parts at 690 V		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for live parts at 690 V	10 11111	
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
Connections/ Terminals	10 111111	
type of electrical connection	garaw tuna tarminala	
for main current circuit Avenue main of electrical connectors for main current	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 (1 35 mm²), 1x (1 50 mm²)	
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)	
for AWG cables for main contacts	2x (18 2), 1x (18 1)	
tightening torque		
for main contacts with screw-type terminals	3 4.5 N·m	
design of screwdriver shaft	Diameter 5 to 6 mm	
size of the screwdriver tip	Pozidriv size 2	
design of the thread of the connection screw	. 02.3 0.20 2	
• for main contacts	M6	
Safety related data	IVIO	
B10 value		
	5,000	
with high demand rate according to SN 31920	5 000	
proportion of dangerous failures	50.0/	
with low demand rate according to SN 31920 with high demand rate according to SN 31920	50 %	
with high demand rate according to SN 31920	50 %	
failure rate [FIT]		
with low demand rate according to SN 31920	50 FIT	
T1 value for proof test interval or service life according to IEC 61508	10 a	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
Certificates/ approvals		
General Product Approval		For use in hazard-









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate Type Test Certificates/Test Report



Marine / Shipping











Confirmation

other

other

Railway



Vibration and Shock

Confirmation

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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2032-4WA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4WA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4WA10

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

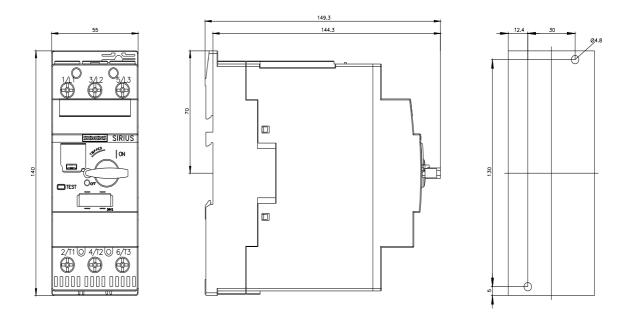
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4WA10&lang=en

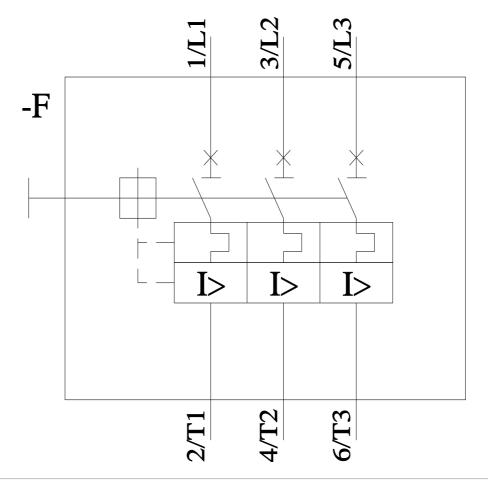
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4WA10/char

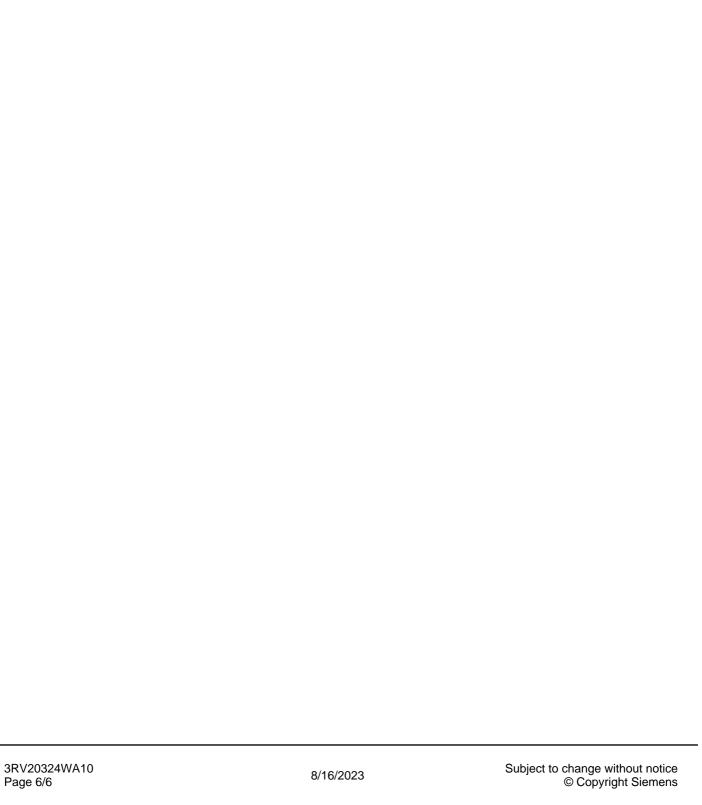
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4WA10&objecttype=14&gridview=view1





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