SIEMENS

Data sheet

3RV2042-4KA10



Circuit breaker size S3 for motor protection, CLASS 10 A-release 57...75 A N-release 975 A screw terminal Increased switching capacity 100 kA

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	S3	
size of contactor can be combined company-specific	S3	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	38 W	
 at AC in hot operating state per pole 	12.7 W	
insulation voltage with degree of pollution 3 at AC rated value	1 000 V	
surge voltage resistance rated value	8 kV	
maximum permissible voltage for safe isolation in networks with grounded star point		
 between main and auxiliary circuit 	400 V	
 between main and auxiliary circuit 	400 V	
shock resistance acc. to IEC 60068-2-27	25g / 11 ms Sinus	
mechanical service life (switching cycles)		
 of the main contacts typical 	25 000	
 of auxiliary contacts typical 	25 000	
electrical endurance (switching 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 acc. to IEC 81346-2	Q	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
 ambient temperature during operation 	-20 +60 °C	
 ambient temperature during storage 	-50 +80 °C	
 ambient temperature during transport 	-50 +80 °C	
temperature compensation	-20 +60 °C	
relative humidity during operation	10 95 %	
Main circuit		
number of poles for main current circuit	3	
adjustable current response value current of the	57 75 A	



contemported volume 690 V • operating voltage rist value 690 V operating coultage rist value 50 60 Hz operating requency rated value 75 A operating frequency rated value 100 KA ot all dot treated value 100 KA ot all dot V rated value 50 KA	current-dependent overload release	
operating frequency rated value 50 - 60 Hz operational current at AC3 at 400 V rated value 76 A operating power at AC3 at 400 V rated value 76 A operating power at AC3 at 400 V rated value 2000 W • et 300 V rated value 37 000 W • et 300 V rated value 55 000 W • et 600 V rated value 55 000 W • et 600 V rated value 55 000 W • opcarting frequency at AC3 maximum 15 th Productive and monitoring functions Ves product function No • opcound fault detection Ves • at 200 V rated value 100 kA • at 200 V rated value 100 kA • at 200 V rated value 50 kA • at 200 V rated value 100 kA • at 200 V rated value 50 kA • at 200 V rated value 100 kA • at 200 V rated va		
operational current rate value 75 A operational current rat AC-3 at 400 V rated value 75 A operating propers rat AC-3 2000 W • at 230 V rated value 2000 W • at 230 V rated value 45000 W • at 500 V rated value 45000 W • at 500 V rated value 45000 W • at 600 V rated value 55000 W operating frequency at AC-3 maximum 15 th Product function Yes • optase filture detection Yes • of 240 V rated value 500 A • at 600 V rated value 100 kA • at 600 V rated value 50 A • at 600 V rated value 50 A • at 600 V rated value 100 kA • at 600 V rated value 75 A •		
operating power at AC-3 4 operating power at AC-3 22 000 W • at 230 V rade value 37 000 W • at 300 V rade value 37 000 W • at 300 V rade value 35 000 W • at 300 V rade value 55 000 W • at 300 V rade value 55 000 W • at 300 V rade value 55 000 W • at 300 V rade value 55 000 W • at 300 V rade value 55 000 W • ground fault detection Yes • provide fault detection Yes • at 240 V rade value 100 KA • at 240 V rade value 50 A • at 340 V rade value 50 A • at 340 V rade value 50 A • at 340 V rade value 100 KA • at 340 V rade value 100 KA • at 340 V rade value 100 KA • at 300 V rade value 100 KA • at 420 V rade value 100 KA • at 420 V rade value 100 KA • at 420 V rade value 5 KA • at 420 V rade value 5 KA • at 420 V rade value 75 A <td></td> <td></td>		
i et 230 V rated value 22 000 W i et 230 V rated value 37 000 W i et 300 V rated value 45 000 W i et 300 V rated value 45 000 W i et 300 V rated value 45 000 W i et 300 V rated value 45 000 W or stops of the verted value 55 000 W operating frequency at AC-3 maximum 15 th Protective and monitoring functions Yes protective and monitoring functions Yes trip class CLASS 10 design of the overload release thermail breaking capacity operating short-circuit current (ice) 3 kA of 4 AC at 240 V rated value 5 kA i at 600 V rated value 100 kA i at AC at 500 V rated value 100 kA i at AC at 500 V rated value 100 kA i at AC at 500 V rated value 100 kA i at AC at 500 V rated value 100 kA i at AC at 500 V rated value 100 kA i at AB V rated value 100 kA i at AB V rated value 75 A full-load current (FLA) for 3-phase AC motor - i at 480 V rated value 75 A	•	
e at 230 V rated value 22 000 W e at 2500 V rated value 37 000 W e at 500 V rated value 55 000 W operating frequency at AC-3 maximum 15 I/h Protective and monitoring functions Frequency at AC-3 maximum product function Yes eiground fault detection Yes eidrag of the overload release thermail breaking capacity operating short-circuit current (tes) 100 kA eidr 400 V rated value 50 kA eidr 200 V rated value 100 kA eidr 200 V rated value 100 kA eidr AC at 600 V rated value 100 kA eidr AC at 600 V rated value 100 kA eidr AC at 600 V rated value 50 A eidr AC at 600 V rated value 75 A vielded mechanical performance [tp] 60 rated value eidr 400 V rated value 75 hp at 200 V rated value 75 hp at 200 V rated value 75 hp	•	75 A
• at 400 V rated value 37 000 W • at 600 V rated value 55 000 W • or 1600 V rated value 55 000 W • operating frequency at AC-3 maximum 15 1/h Protective and monitoring functions Protective and monitoring functions product function Yes • phase failur detection Yes • design of the overload release thermail bracking capacity operating short-circuit current (Icc) 3 KA • at 600 V rated value 50 KA • at 600 V rated value 75 A • at 600 V rated value 75 A • at 600 V rated value		
• at 500 V rated value 45 000 W • at 600 V rated value 56 000 W • operating frequency at AC-3 maximum 15 t/h Product function No • ophase failure detection No • ophase failure detection Yes • at 240 V rated value CLASS 10 • at 240 V rated value 50 KA • at 630 V rated value 50 KA • at 630 V rated value 50 KA • at AC at 600 V rated value 50 KA • at AC at 500 V rated value 100 KA • at AC at 500 V rated value 100 KA • at AC at 500 V rated value 100 KA • at AC at 500 V rated value 100 KA • at AC at 500 V rated value 75 A • at AC at 500 V rated value 75 A • at AC at 500 V rated value 75 A • at AC at 500 V rated value 75 A • at 400 V rated value 75 A		
• at 690 V rated value 55 000 W operating frequency at AC-3 maximum 15 1h Product function orgound fault detection Yes - etal att detection Yes - etal att detection Yes - etal att detection Yes - etal 240 V rated value 100 kA - etal 240 V rated value 100 kA - etal 240 V rated value 5 kA - etal 500 V rated value 5 kA - etal 600 V rated value 5 kA - etal 600 V rated value 100 kA - etal 600 V rated value 5 kA - etal 600 V rated value 100 kA - etal 600 V rated value 10 kA - etal 600 V rated value 75 A - etal 800 V rated value 75 A - etal 800 V rated value 75 hp - etal 800 V rated value 75 hp - etal 200 V rated value		
operating frequency at AC-3 maximum 15 t/h Product function • ground fault detection Yes • phase failure detection Yes • phase failure detection Yes design of the overload release Utermal breaking capacity operating short-circuit current (lcs) at 240 V rated value • at 240 V rated value 50 kA • at 240 V rated value 100 kA • at 240 V rated value 50 kA • at AC at 400 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 6 kA response value current of instantaneous short-circuit trip 975 A unit 101 kA 10 kA • at 800 V rated value 75 A • at 800 V rated value 75 h p • at 800 V rated value 75 h p • at 80		
Protective and monitoring functions product function • ground faul detection • ground faul detection Yes trip class CLASS 10 design of the overload release breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 600 V rated value • at 600 V rated value • at 400 V rated value • br or single-phase AC motor <td< td=""><td></td><td></td></td<>		
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	•	
trip class CLASS 10 design of the overload release thermal breaking capacity operating short-circuit current (Ics) thermal at AC 100 kA • at 2400 V rated value 50 kA • at 2400 V rated value 50 kA • at 2400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 400 V rated value 00 kA • at AC at 400 V rated value 00 kA • at AC at 400 V rated value 00 kA • at AC at 400 V rated value 00 kA • at AC at 400 V rated value 00 kA • at AC at 400 V rated value 00 kA • at AC at 400 V rated value 00 kA • at AC at 400 V rated value 75 A • at 480 V rated value 75 A • at 480 V rated value 75 hp • at 480 V rated value 75 hp • at 480 V rated value 26 hp • at 480 V rated value 26 hp • at 480 V rated value 30 hp • at 490/40 V rated value 30 hp	-	
design of the overload release thermal breaking capacity operating short-circuit current (ics) at AC 100 kA • at 240 V rated value 50 kA • at 300 V rated value 5 kA • at 630 V rated value 3 kA breaking capacity maximum short-circuit current (icu) • at AC at 240 V rated value • at AC at 240 V rated value 100 kA • 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 100 kA • at AC at 500 V rated value 100 kA • at AC at 600 V rated value 6 kA response value current of instantaneous short-circuit trip unit 975 A 1UL/CSA ratings 75 A 1UL/CSA ratings 75 A vielded mechanical performance [hp] 75 A • at 600 V rated value 75 A • at 600 V rated value 75 A • at 200 V rated value 75 A • at 200 V rated value 75 hp • at 2002 V rated value 75 hp • at 600 V rated value	· · · · · · · · · · · · · · · · · · ·	
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at AC 100 kA • at 240 V rated value 50 kA • at 400 V rated value 50 kA • at 600 V rated value 5 kA • at 600 V rated value 5 kA • at 600 V rated value 5 kA • at 600 V rated value 100 kA • 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 100 kA • at AC at 500 V rated value 6 kA • at AC at 500 V rated value 6 kA • at AC at 500 V rated value 75 A unit 75 A UL/CSA ratings 75 A Vielded mechanical performance [np] 75 A • at 600 V rated value 75 A • at 600 V rated value 75 A • at 600 V rated value 75 hp • at 200/208 V rated value 80 hp - at 200/208 V rated value 76 hp <td></td> <td></td>		
• at 240 V rated value 100 kA • at 400 V rated value 5 kA • at 690 V rated value 3 kA breaking capacity maximum short-circuit current (lcu) 100 kA • at Ac at 240 V rated value 100 kA • at Ac at 400 V rated value 100 kA • at Ac at 400 V rated value 100 kA • at Ac at 500 V rated value 100 kA • at Ac at 600 V rated value 100 kA • at Ac at 600 V rated value 10 kA • at Ac at 600 V rated value 6 kA response value current of instantaneous short-circuit trip unit 975 A ///CSA ratings ////////////////////////////////////		
• at 400 V rated value 50 kA • at 500 V rated value 5 kA • at 600 V rated value 5 kA breaking capacity maximum short-circuit current (Icu) 100 kA • at AC at 240 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 600 V rated value 6 kA response value current of instantaneous short-circuit trip unit 975 A /ull-load current (FLA) for 3-phase AC motor • at 400 V rated value • at 480 V rated value 75 A /ull-ded mechanical performance (Ip) • for single-phase AC motor • at 100/120 V rated value 75 hp • at 200 V rated value 75 hp • at 200/208 V rated value 75 hp • at 200/208 V rated value 75 hp • at 200/208 V rated value 90 hp • at 200/208 V rated value 25 hp • at 200/208 V rated value 30 hp • at 400/480 V rated value 75 hp for d-apticetion Yes dosign of the short-circuit trip magnetic Installation/ mounting/ dimensions any		100 kA
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response value current of instantaneous short-circuit trip unit 975 A UL/CSA ratings 1 full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor at 10/120 V rated value for single-phase AC motor at 200/200 V rated value for 3-phase AC motor at 200/200 V rated value for 3-phase AC motor at 200/200 V rated value for 3-phase AC motor at 200/200 V rated value at 600 kp biot-circuit protection Yes design of the short-circuit protection magnetic Installation/ mounting/ dimensions any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 165 mm	 at AC at 500 V rated value 	10 kA
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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 full-load current (FLA) for 3-phase AC motor • at 600 V rated value • of or single-phase AC motor - at 110/120 V rated value • of rated value • at 200/208 V rated value • at 200/208 V rated value - at 60/480 V rated value - at 575/600 V rated value 75 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fsteining method according to DIN EN 60715 height 165 mm width 70 mm depth 176 mm	response value current of instantaneous short-circuit trip	975 A
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required spacing • for grounded parts at 400 V — downwards 70 mm		
for grounded parts at 400 V downwards 70 mm	•	176 mm
- downwards 70 mm		
	 for grounded parts at 400 V 	
— upwards 70 mm		
	— upwards	70 mm

General Product Approval		For use in hazardous locations			
Certificates/ approvals					
display version for switching status	Handle				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front				
protection class IP on the front acc. to IEC 60529	IP20				
IEC 61508	i o y				
• with high demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to	_ 50 % _ 10 y				
with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920	50 %				
proportion of dangerous failures					
with high demand rate acc. to SN 31920	5 000				
B10 value					
Safety related data					
 tightening torque for main contacts with screw-type terminals 	4.5 6 N·m				
outer diameter of the usable ring cable lug maximum	19 mm				
— for main contacts for ring cable lug	4.5 6 N·m				
tightening torque					
 finely stranded without core end processing 	2x (10 35 mm²), 1x (10 50 mm²)				
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)				
— solid or stranded	2x (2,5 50 mm ²), 1x (10 70 mm ²)				
— solid	2x (2.5 16 mm²)				
 for main contacts 					
type of connectable conductor cross-sections					
circuit					
arrangement of electrical connectors for main current	Top and bottom				
type of electrical connection o for main current circuit	screw-type terminals				
control circuit					
product function removable terminal for auxiliary and	No				
connections/ Terminals					
— forwards	0 mm				
— at the side	30 mm				
— backwards	0 mm				
— upwards	150 mm				
— downwards	150 mm				
• for live parts at 690 V					
— forwards	0 mm				
— at the side	30 mm				
— backwards	0 mm				
— upwards	150 mm				
 of grounded parts at 690 v downwards 	150 mm				
 — at the side for grounded parts at 690 V 	10 mm				
— upwards	110 mm 10 mm				
 for live parts at 500 V — downwards 	110 mm				
— at the side	10 mm				
— upwards	110 mm				
— downwards	110 mm				
 for grounded parts at 500 V 					
— at the side	10 mm				
— upwards	70 mm				
— downwards	70 mm				
 for live parts at 400 V 					
— at the side	10 mm				

		(UL) UL	<u>KC</u>	EHC	IECEx
For use in hazardous locations	Declaration of Cont	formity	Test Certificates		Marine / Shipping
ATEX ATEX	CE EG-Konf.	<u>Miscellaneous</u>	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS
Marine / Shipping					
BUREAU VERITAS	Lloyds Kegister us	PRS	RINA	RMRS	DNV-GL DNV-GL
other			Railway		
<u>Confirmation</u>	<u>Confirmation</u>	DE	<u>Vibration and Shock</u>	<u>Confirmation</u>	
Further information					
Information- and D	ownloadcenter (Catalo	gs, Brochures,)			

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2042-4KA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2042-4KA10

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

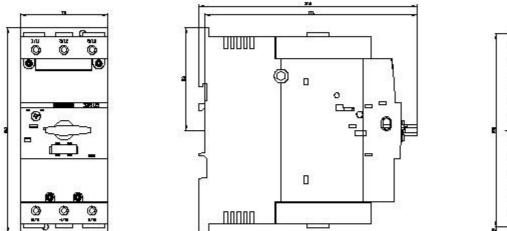
https://support.industry.siemens.com/cs/ww/en/ps/3RV2042-4KA10

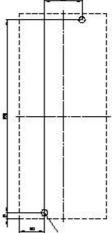
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2042-4KA10&lang=en

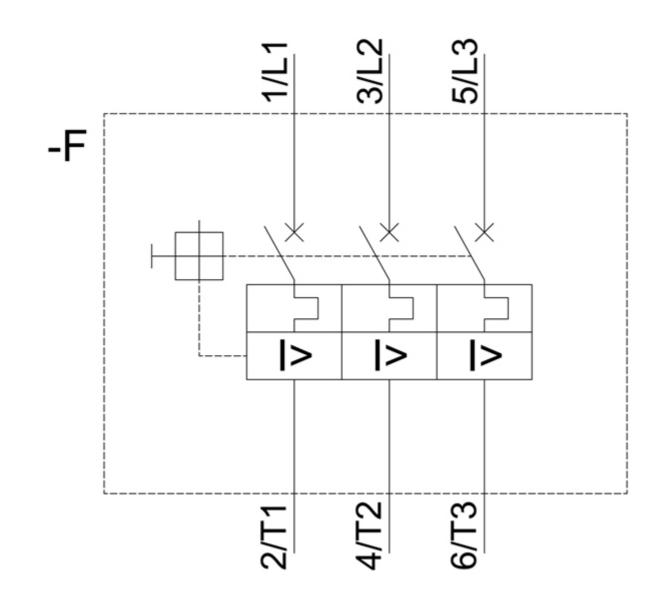
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2042-4KA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2042-4KA10&objecttype=14&gridview=view1







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