## SIEMENS

## Data sheet

## 3RV2042-4MB10

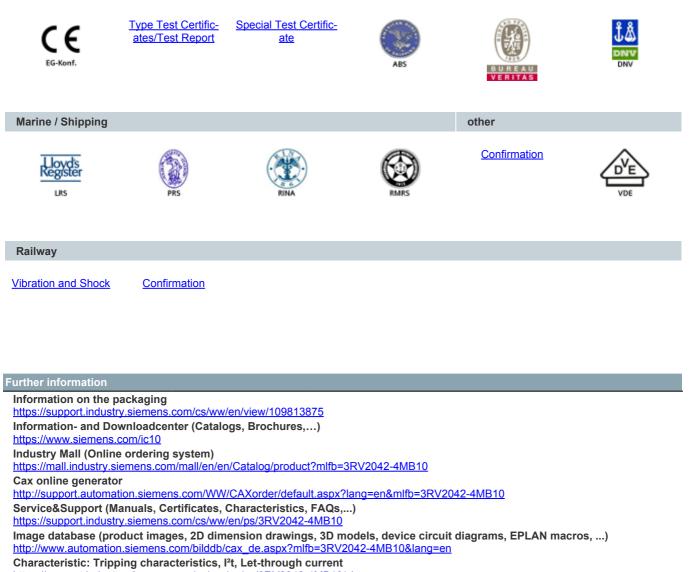


Circuit breaker size S3 for motor protection, Class 20 A-release 80...100 A N-release 1300 A screw terminal Increased switching capacity 100 kA  $\,$ 

419	
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	
<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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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	
<ul> <li>rated value</li> </ul>	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	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	100 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	100 A
operating power	

• at AC-3       30 kW         - at 230 V rated value       30 kW         - at 500 V rated value       55 kW         - at 690 V rated value       90 kW         • at AC-3e       - at 230 V rated value         - at 230 V rated value       30 kW         - at 230 V rated value       30 kW         - at 400 V rated value       30 kW         - at 230 V rated value       30 kW         - at 690 V rated value       55 kW         - at 690 V rated value       55 kW         - at 690 V rated value       90 kW         operating frequency       90 kW         • at AC-3 maximum       15 1/h         Protective and monitoring functions       15 1/h         Protective and monitoring functions       15 1/h         product function       Yes         • phase failure detection       Yes         • phase failure detection       Yes         trip class       CLASS 20         design of the overload release       thermal         maximum short-circuit current breaking capacity (lcu)       100 kA         • at AC at 400 V rated value       100 kA         • at AC at 600 V rated value       100 kA         • at AC at 600 V rated value       6 kA         • at A	- at 230 V rated value30 kW- at 400 V rated value45 kW- at 500 V rated value55 kW- at 690 V rated value90 kWVC-3e at 230 V rated value30 kW- at 230 V rated value30 kW- at 400 V rated value55 kW- at 690 V rated value55 kW- at 690 V rated value55 kW- at 690 V rated value90 kW- at 690 V rated value15 1/h- AC-3e maximum15 1/hAC-3e maximum15 1/h- at an monitoring functionsValuefunctionVesor failure detectionYes- at 690 V rated value100 kA- at 240 V rated value100 kA	
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Protective and monitoring functions         product function         • ground fault detection         • phase failure detection         Yes         trip class         CLASS 20         design of the overload release         maximum short-circuit current breaking capacity (lcu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value	and monitoring functions         function         und fault detection         ase failure detection         S         CLASS 20         f the overload release         thermal         n short-circuit current breaking capacity (Icu)         AC at 240 V rated value         AC at 400 V rated value         AC at 500 V rated value         AC at 500 V rated value	
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at AC at 690 V rated value     6 kA		
operating short-circuit current breaking capacity (ics)		
at AC	s short-circuit current breaking capacity (ics)	
at 240 V rated value     100 kA	240 V rated value 100 kA	
• at 400 V rated value 50 kA		
• at 500 V rated value 5 kA	00 V rated value 50 kA	
• at 690 V rated value 3 kA		
response value current of instantaneous short-circuit trip 1 300 A unit	500 V rated value 5 kA	
UL/CSA ratings	500 V rated value     5 kA       590 V rated value     3 kA	
	500 V rated value       5 kA         590 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A	
	500 V rated value     5 kA       590 V rated value     3 kA       value current of instantaneous short-circuit trip     1 300 A	
	500 V rated value     5 kA       500 V rated value     3 kA       value current of instantaneous short-circuit trip     1 300 A	
• at 000 v Tateu value	500 V rated value       5 kA         590 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         tings         current (FLA) for 3-phase AC motor         180 V rated value       100 A	
violded mechanical performance [hn]	500 V rated value     5 kA       590 V rated value     3 kA       value current of instantaneous short-circuit trip     1 300 A       tings       current (FLA) for 3-phase AC motor       180 V rated value     100 A       500 V rated value     100 A	
yielded mechanical performance [hp]	500 V rated value     5 kA       590 V rated value     3 kA       value current of instantaneous short-circuit trip     1 300 A       tings       current (FLA) for 3-phase AC motor       180 V rated value     100 A       500 V rated value     100 A	
for single-phase AC motor	500 V rated value     5 kA       590 V rated value     3 kA       value current of instantaneous short-circuit trip     1 300 A       tings       current (FLA) for 3-phase AC motor       180 V rated value     100 A       500 V rated value     100 A       500 V rated value     100 A       500 V rated value     100 A	
for single-phase AC motor    at 110/120 V rated value     7.5 hp	500 V rated value       5 kA         590 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         tings         current (FLA) for 3-phase AC motor         180 V rated value       100 A         000 V rated value       100 A         100 V rated value       100 A	
for single-phase AC motor         — at 110/120 V rated value         7.5 hp         — at 230 V rated value         20 hp	500 V rated value       5 kA         590 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         tings         current (FLA) for 3-phase AC motor         180 V rated value       100 A         500 V rated value       100 A         600 V rated value       100 A         500 V rated value       100 A         600 V rated value       100 A         600 V rated value       100 A         600 V rated value       20 hp	
<ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> </ul>	500 V rated value       5 kA         590 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         trings         current (FLA) for 3-phase AC motor         480 V rated value       100 A         500 V rated value       100 A         600 V rated value       20 hp         3-phase AC motor       20 hp	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>30 hp</li> </ul> </li> </ul>	500 V rated value5 kA500 V rated value3 kA900 V rated value3 kAvalue current of instantaneous short-circuit trip1 300 Atringscurrent (FLA) for 3-phase AC motor480 V rated value100 A900 V rated value20 hp910 Phase AC motor20 hp910 Phase AC motor30 hp	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>bp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> </ul> </li> </ul>	500 V rated value5 kA500 V rated value3 kA900 V rated value current of instantaneous short-circuit trip1 300 Atingscurrent (FLA) for 3-phase AC motor180 V rated value100 A100 V rated value100 A500 V rated value100 A500 V rated value100 A500 V rated value20 hp500 V rated value20 hp3-phase AC motor20 hp- at 230 V rated value30 hp- at 200/208 V rated value30 hp- at 220/230 V rated value40 hp	
<ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> </ul>	500 V rated value5 kA590 V rated value3 kA900 V rated value3 kAvalue current of instantaneous short-circuit trip1 300 Atingscurrent (FLA) for 3-phase AC motor180 V rated value100 A300 V rated value100 A300 V rated value100 Aachanical performance [hp]single-phase AC motor- at 110/120 V rated value7.5 hp- at 230 V rated value20 hp3-phase AC motor- at 200/208 V rated value30 hp- at 200/208 V rated value30 hp- at 220/230 V rated value40 hp- at 460/480 V rated value75 hp	
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<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>5 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>Yes</li> </ul> </li> </ul>	StateState300 V rated value3 kA300 V rated value3 kAvalue current of instantaneous short-circuit trip1 300 Atringscurrent (FLA) for 3-phase AC motor800 V rated value100 A800 V rated value100 A900 V rated value100 A900 V rated value100 A900 V rated value20 hp911 V rated value7.5 hp912 - at 230 V rated value20 hp913 - phase AC motor-914 200/208 V rated value30 hp915 - at 220/230 V rated value30 hp916 - at 220/230 V rated value100 hp917 - at 575/600 V rated value100 hp918 - at 575/600 V rated value100 hp919 - at 575/600 V rated value100 hp910 - at 575/600 V rated value100 hp911 - at 575/600 V rated value100 hp<	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> </li> </ul>	StateState300 V rated value3 kA300 V rated value3 kAvalue current of instantaneous short-circuit trip1 300 Atringscurrent (FLA) for 3-phase AC motor800 V rated value100 A800 V rated value100 A900 V rated value100 A900 V rated value100 A900 V rated value20 hp911 V rated value7.5 hp912 - at 230 V rated value20 hp913 - phase AC motor-914 200/208 V rated value30 hp915 - at 220/230 V rated value30 hp916 - at 220/230 V rated value100 hp917 - at 575/600 V rated value100 hp918 - at 575/600 V rated value100 hp919 - at 575/600 V rated value100 hp910 - at 575/600 V rated value100 hp911 - at 575/600 V rated value100 hp<	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>5 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>Yes</li> </ul> </li> </ul>	500 V rated value5 kA300 V rated value3 kAvalue current of instantaneous short-circuit trip1 300 Atingscurrent (FLA) for 3-phase AC motor800 V rated value100 A900 V rated value7.5 hp- at 110/120 V rated value7.5 hp- at 230 V rated value30 hp- at 220/230 V rated value30 hp- at 220/230 V rated value30 hp- at 460/480 V rated value75 hp- at 460/480 V rated value100 hpuit protectionYesf the short-circuit tripmagnetic	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>yes</li> <li>design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> </ul>	500 V rated value5 kA390 V rated value3 kAvalue current of instantaneous short-circuit trip1 300 Atringscurrent (FLA) for 3-phase AC motor800 V rated value100 A900 V rated value100 A900 V rated value100 A900 V rated value100 A900 V rated value20 A900 V rated value20 hp910 V rated value30 hp911 V rated value30 hp912 V rated value30 hp914 AC motor100 hp914 AC motor100 hp915 AC motor100 hp916 AC motor100 hp917 Arated value100 hp918 AC motor100 hp919 AC motor100 hp920 V rated value100 hp920 V rated value100 hp920 A rate value100 hp<	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>any</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN</li> </ul> </li> </ul>	500 V rated value       5 kA         500 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         tings         current (FLA) for 3-phase AC motor         180 V rated value       100 A         300 V rated value       100 A         301 V rated value       100 A         302 V rated value       20 hp         3-phase AC motor       -         - at 200/208 V rated value       30 hp         - at 220/230 V rated value       30 hp         - at 460/480 V rated value       75 hp         - at 460/480 V rated value       100 hp         uit protection       Yes         ft the short-circuit protection f       Yes         ft the short-circuit protection       Yes         g position       any         g position       any	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> </ul> </li> <li>at 60/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> <li>Short-circuit protection</li> <li>Yes         <ul> <li>design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>any</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> </ul> </li>	500 V rated value       5 kA         500 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         tings         current (FLA) for 3-phase AC motor         180 V rated value       100 A         500 V rated value       20 hp         single-phase AC motor       -         - at 10/120 V rated value       7.5 hp         - at 230 V rated value       20 hp         3-phase AC motor       -         - at 202/030 V rated value       30 hp         - at 220/230 V rated value       30 hp         - at 460/480 V rated value       75 hp         - at 575/600 V rated value       100 hp         utit protection       Yes         fthe short-circuit trip       magnetic         n/ mounting/ dimensions       any         g position       any         g method       screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 60/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position fastening method</li> <li>any</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>165 mm</li> </ul> </li> </ul>	500 V rated value5 kA390 V rated value3 kAvalue current of instantaneous short-circuit trip1 300 Atingscurrent (FLA) for 3-phase AC motor180 V rated value100 A500 V rated value100 A500 V rated value100 A500 V rated value100 A500 V rated value20 A501 V rated value7.5 hp- at 120 V rated value20 hp3-phase AC motor at 220 V rated value30 hp- at 220/230 V rated value30 hp- at 220/230 V rated value30 hp- at 220/230 V rated value100 hp- at 575/600 V rated value75 hp- at 640/480 V rated value75 hp- at 675/600 V rated value100 hpuit protectionYesf the short-circuit tripmagneticn/mounting/ dimensionsanyg positionanyg methodanyscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715165 mm	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>7.5 hp</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> </ul> </li> <li>at 460/480 V rated value</li> <li>100 hp</li> </ul> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>yes</li> <li>design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>165 mm</li> <li>yidth</li> <li>70 mm</li> </ul> </li>	500 V rated value5 kA300 V rated value3 kAvalue current of instantaneous short-circuit trip1 300 Atingscurrent (FLA) for 3-phase AC motor800 V rated value100 A800 V rated value100 A800 V rated value100 A900 V rated value20 hp900 V rated value30 hp900 V rated value30 hp900 V rated value30 hp900 V rated value30 hp900 V rated value100 hp900 V rated val	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>mounting position             <ul> <li>fastening method</li> <li>60715</li> <li>height</li> <li>465 mm</li> <li>70 mm</li> <li>depth</li> </ul> </li> </ul></li></ul>	500 V rated value       5 kA         900 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         trings         current (FLA) for 3-phase AC motor         800 V rated value       100 A         900 V rated value       100 A         901 V rated value       100 A         902 V rated value       100 A         903 V rated value       100 A         904 V rated value       100 A         905 V rated value       20 hp         - at 230 V rated value       20 hp         - at 200/208 V rated value       30 hp         - at 200/208 V rated value       40 hp         - at 460/480 V rated value       75 hp         - at 575/600 V rated value       100 hp         vitt protection       Yes         ft the short-circuit protection       Yes         r f he short-circuit protection       Yes         r g position       any         g method       Screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>7.5 hp</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>76 hp</li> <li>at 575/600 V rated value</li> <li>78 hp</li> <li>at 575/600 V rated value</li> <li>79 hp</li> <li>at 575/600 V rated value</li> <li>70 hp</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>any</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>165 mm</li> <li>width</li> <li>70 mm</li> <li>depth</li> <li>176 mm</li> </ul> </li> </ul>	i00 V rated value       5 kA         i90 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         tings	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> </ul> </li> <li>stort-circuit protection</li> <li>product function short circuit protection design of the short-circuit trip</li> <li>mounting position fastening method</li> </ul> <li>Screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height vidth 165 mm</li> <li>width 70 mm</li> <li>depth</li> <li>required spacing         <ul> <li>with side-by-side mounting at the side</li> <li>0 mm</li> </ul> </li>	500 V rated value       5 kA         900 V rated value       3 kA         900 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         trings         current (FLA) for 3-phase AC motor         100 A         100 A         100 A         hore chanical performance [hp]         single-phase AC motor         - at 110/120 V rated value       7.5 hp         - at 230 V rated value       20 hp         3-phase AC motor       -         - at 220/230 V rated value       30 hp         - at 220/230 V rated value       30 hp         - at 220/230 V rated value       30 hp         - at 457/600 V rated value       75 hp         - at 57/600 V rated value       76 hp         - at 57/600 V rated value       100 hp         - at 660/480 V rated value       100 hp         - at 67/600 V rated value       100 hp         - at 660/480 V rated value       100 hp         - at 660/715       100 hp	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor             <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> </ul> </li> <li>short-circuit protection</li> <li>product function short circuit protection design of the short-circuit trip</li> <li>magnetic</li> </ul> Installation/mounting/ dimensions mounting position <ul> <li>fastening method</li> <li>60715</li> <li>height</li> <li>165 mm</li> <li>60715</li> <li>height</li> <li>i65 mm</li> <li>i76 mm</li> <li>required spacing</li> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> </ul>	500 V rated value5 kA900 V rated value3 kA900 V rated value3 kA1 300 A1 300 Atingscurrent (FLA) for 3-phase AC motor800 V rated value100 A900 V rated value100 A900 V rated value100 A900 V rated value20 A910 V rated value20 hp911 V rated value30 hp912 V rated value30 hp914 V rated value100 hp914 V rated value100 hp914 V rated value100 hp915 V rated value100 hp916 V rated value100 hp917 V rated value100 hp918 V rated value100 hp919 V rated value100 hp910 V rated value100 hp910 V rated value100 hp911 V rated value100 hp912 V rated value100 hp913 V rated value100 hp914 V rated value100 hp915 V rated value100 hp915 V ra	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor             <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 257/600 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection design of the short-circuit trip</li> <li>mounting position</li> <li>fastening method</li> <li>60715</li> <li>height</li> <li>165 mm</li> <li>60715</li> <li>height</li> <li>165 mm</li> <li>vitth side-by-side mounting at the side</li> <li>0 mm</li> <li>for grounded parts at 400 V</li> <li>– downwards</li> <li>70 mm</li> </ul> </li> </ul>	5 kA         900 V rated value       3 kA         900 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         trips         current (FLA) for 3-phase AC motor         100 A         100 A         00 V rated value         100 A         current (FLA) for 3-phase AC motor         100 A         100 A         00 A         00 A         current (FLA) for 3-phase AC motor         a trad value         a trad value <td co<="" td=""></td>	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor             <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 4575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>any</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>neight</li> <li>165 mm</li> <li>crew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>of or grounded parts at 400 V</li> <li>for grounded parts at 400 V</li> <li>of or grounded parts at 400 V</li> <li>own mathematics</li> <li>of or grounded parts at 400 V</li> <li>own mathematics</li> <li>on mm</li> </ul> </li> </ul>	5 kA         90 V rated value       3 kA         90 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         trings         trin trings	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>20 hp</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>75 hp</li> </ul> </li> <li>stort-circuit protection</li> <li>Yes         <ul> <li>design of the short-circuit protection</li> <li>design of the short-circuit if protection</li> <li>fastening method</li> <li>any</li></ul></li></ul>	5 kA         90 V rated value       3 kA         90 V rated value       3 kA         value current of instantaneous short-circuit trip       1 300 A         trips         current (FLA) for 3-phase AC motor         80 V rated value       100 A         900 V rated value       100 A         900 V rated value       100 A         900 V rated value       100 A         enchanical performance [hp]       insigle-phase AC motor         - at 110/120 V rated value       7.5 hp         - at 230 V rated value       30 hp         - at 2002 V rated value       30 hp         - at 220/230 V rated value       30 hp         - at 220/230 V rated value       75 hp         - at 457/600 V rated value       75 hp         - at 575/600 V rated value       75 hp         - at 575/600 V rated value       76 hp         - at 575/600 V rated value       100 hp <b>uit protection</b> Yes         ft he short-circuit trip       magnetic <b>vi mouting/ dimensions</b> Screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715         165 mm       176 mm         sposition       0 mm         inside-by-side mounting at the side	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>20 hp</li> </ul> </li> <li>for 3-phase AC motor             <ul> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 4575/600 V rated value</li> <li>100 hp</li> </ul> </li> <li>Short-circuit protection         <ul> <li>product function short circuit protection design of the short-circuit trip</li> <li>magnetic</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>any</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>neight</li> <li>165 mm</li> <li>crew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>height</li> <li>of or grounded parts at 400 V</li> <li>for grounded parts at 400 V</li> <li>of or grounded parts at 400 V</li> <li>own mathematics</li> <li>of or grounded parts at 400 V</li> <li>own mathematics</li> <li>on mm</li> </ul> </li> </ul>	500 V rated value       5 kA         900 V rated value       3 kA         900 V rated value       1 300 A         tings	
operating short-circuit current breaking capacity (Ics)		
at AC at 690 V rated value     6 kA		
at AC at 690 V rated value     6 kA		
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>6 kA</li> </ul>	AC at 500 V rated value 10 kA	
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>6 kA</li> </ul>	AC at 500 V rated value 10 kA	
• at AC at 400 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value6 kA	AC at 400 V rated value 100 kA AC at 500 V rated value 10 kA	
• at AC at 400 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value6 kA	AC at 400 V rated value 100 kA AC at 500 V rated value 10 kA	
• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value6 kA	AC at 240 V rated value100 kAAC at 400 V rated value100 kAAC at 500 V rated value10 kA	
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trip classCLASS 20design of the overload releasethermalmaximum short-circuit current breaking capacity (lcu)• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value6 kA	CLASS 20       f the overload release     thermal       n short-circuit current breaking capacity (Icu)     100 kA       AC at 240 V rated value     100 kA       AC at 240 V rated value     100 kA       AC at 500 V rated value     100 kA	
• phase failure detectionYestrip classCLASS 20design of the overload releasethermalmaximum short-circuit current breaking capacity (lcu)-• at AC at 240 V rated value100 kA• at AC at 400 V rated value100 kA• at AC at 500 V rated value10 kA• at AC at 690 V rated value6 kA	ase failure detectionYesase failure detectionCLASS 20f the overload releasethermaln short-circuit current breaking capacity (Icu)100 kAAC at 240 V rated value100 kAAC at 400 V rated value100 kAAC at 500 V rated value10 kA	
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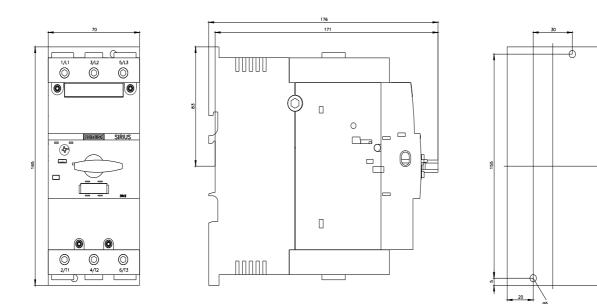
— upwards	70 mm
— at the side	10 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	110 mm
— upwards	110 mm
— at the side	10 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	110 mm
— upwards	110 mm
— at the side	10 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
— downwards	150 mm
— upwards	150 mm
— at the side	30 mm
• for live parts at 690 V	
— downwards	150 mm
— upwards	150 mm
— at the side	30 mm
	30 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (2.5 16 mm²)
— solid or stranded	2x (2,5 50 mm²), 1x (10 70 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (10 35 mm²), 1x (10 50 mm²)
tightening torque	
<ul> <li>for main contacts for ring cable lug</li> </ul>	4.5 6 N·m
<ul> <li>for main contacts for ring cable lug</li> </ul>	4.5 6 N·m 19 mm
• for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum	
• for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque	
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul>	19 mm
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>Safety related data</li> </ul>	19 mm
for main contacts for ring cable lug     outer diameter of the usable ring cable lug maximum     tightening torque         e for main contacts with screw-type terminals     Safety related data     B10 value	19 mm 4.5 6 N·m
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>Safety related data</li> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> </ul>	19 mm
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>Safety related data</li> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> </ul>	19 mm 4.5 6 N·m 5 000
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>Safety related data</li> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> </ul>	19 mm 4.5 6 N·m 5 000 50 %
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul> Safety related data B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 %
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul> Safety related data B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to</li> </ul>	19 mm 4.5 6 N·m 5 000 50 %
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul> Safety related data B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 % 10 a
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>Safety related data</li> <li>B10 value         <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 %
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul> Safety related data B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 % 10 a IP20
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul> Safety related data B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>Safety related data</li> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>display version for switching status</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 % 10 a IP20
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul> Safety related data B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front
<ul> <li>for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul> Safety related data B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>display version for switching status</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front Handle Declaration of
<ul> <li>for main contacts for ring cable lug</li> <li>outer diameter of the usable ring cable lug maximum</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>Safety related data</li> <li>B10 value</li> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>display version for switching status</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front Handle
<ul> <li>for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul> Safety related data B10 value <ul> <li>with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>display version for switching status</li> </ul>	19 mm 4.5 6 N·m 5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front Handle Declaration of Conformity
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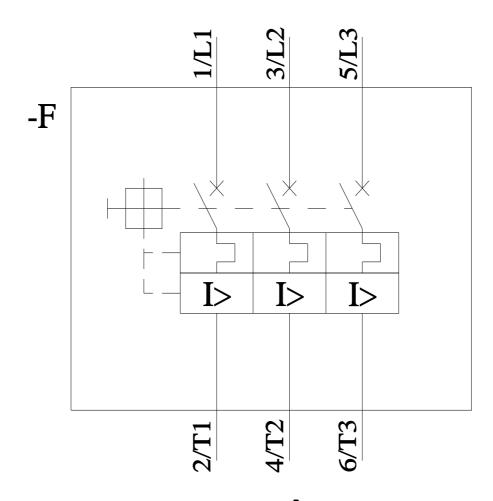


https://support.industry.siemens.com/cs/ww/en/ps/3RV2042-4MB10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2042-4MB10&objecttype=14&gridview=view1





## last modified:

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