SIEMENS

Data sheet

3RV2331-4WC10



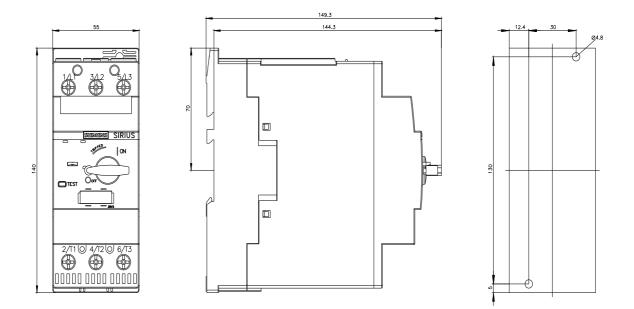
Circuit breaker size S2 for starter combination Rated current 52 A Nrelease 741 A screw terminal Standard switching capacity

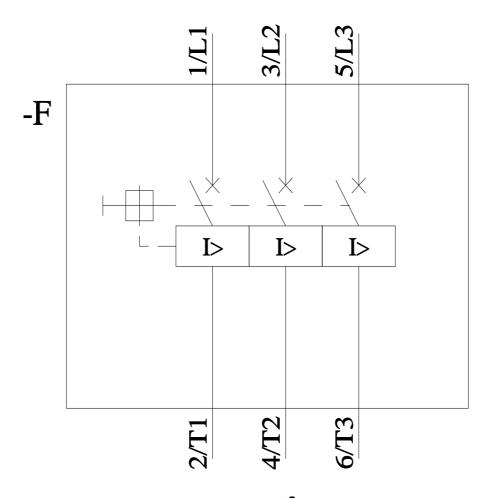
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For starter combinations		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S2		
size of contactor can be combined company-specific	S2		
product extension auxiliary switch	Yes		
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		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/15/2014		
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	52 A		
operational current			
 at AC-3 at 400 V rated value 	52 A		
	52 A		
 at AC-3e at 400 V rated value 	0271		
• at AC-3e at 400 V rated value operating power	02.77		

— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
• at AC-3e	
	45 1344
— 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
Auxiliary circuit	
	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	No
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 	4 kA
operating short-circuit current breaking capacity (lcs)	
at AC	
 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 	2 kA
response value current of instantaneous short-circuit trip	741 A
unit	
UL/CSA ratings	
full load current (ELA) for 3 phase AC motor	
full-load current (FLA) for 3-phase AC motor	52.4
at 480 V rated value	52 A
at 480 V rated valueat 600 V rated value	52 A 52 A
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] 	
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor 	52 A
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] 	52 A 5 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor 	52 A
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 	52 A 5 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 	52 A 5 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor 	52 A 5 hp 10 hp 15 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	52 A 5 hp 10 hp 15 hp 20 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 	52 A 5 hp 10 hp 15 hp 20 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp
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 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 design of the short-circuit trip design of the fuse link for IT network for short-circuit 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 at 240 V 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 design of the short-circuit trip design of the fuse link for IT network for short-circuit at 240 V at 400 V 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 at 240 V 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required
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 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit at 240 V at 500 V at 690 V 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 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 690 V Installation/ mounting/ dimensions 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125 100
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 690 V Installation/ mounting/ dimensions 	52 A 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp Yes magnetic none required 160 125 100
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 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value 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 mounting position fastening method 	52 A 5 hp 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
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value 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 690 V Installation/ mounting/ dimensions mounting position fastening method 	52 A 5 hp 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
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 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 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 height width 	52 A 5 hp 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 55 mm
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value 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 	52 A 5 hp 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
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	50
— 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
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
 for live parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
	0 IIIII
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 (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 at 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
 for main contacts with screw-type terminals design of screwdriver shaft 	3 4.5 N⋅m Diameter 5 to 6 mm
design of screwdriver shaft	Diameter 5 to 6 mm
design of screwdriver shaft size of the screwdriver tip	Diameter 5 to 6 mm
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts	Diameter 5 to 6 mm Pozidriv size 2
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data	Diameter 5 to 6 mm Pozidriv size 2
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value	Diameter 5 to 6 mm Pozidriv size 2 M6
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920	Diameter 5 to 6 mm Pozidriv size 2
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 %
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT]	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 %
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a
 design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20
 design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] total of proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20
 design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] total of proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front
design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status	Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front

SP.		<u>Confirmation</u>	UL.	<u>KC</u>	EAC		
Declaration of Cor	nformity	Test Certificates		Marine / Shipping			
UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS		
Marine / Shipping					other		
	Llovd's Register urs	PRS	RINA	RMRS	<u>Confirmation</u>		
other	Railway						
UDE VDE	Vibration and Shock	<u>Confirmation</u>					
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=3RV2331-4WC10							
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4WC10							
Service&Support.industry.siemens.com/cs/ww/en/ps/3RV2331-4WC10 https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4WC10							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2331-4WC10⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4WC10/char Further characteristics (e.g. electrical endurance, switching frequency)							
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4WC10&objecttype=14&gridview=view1							





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