SIEMENS

Data sheet

3RT1054-6AV36



power contactor, AC-3 115 A, 55 kW / 400 V AC (50-60 Hz) / DC operation 380-420 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S6 busbar connections drive: conventional screw terminal

product designation Power contactor product type designation 3R11 size of contactor S6 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 7 • at AC in hot operating state per pole 7 • of main circuit with degree of pollution 3 rated value 5.2 W insulation voltage 1000 V • of main circuit with degree of pollution 3 rated value 500 V • of main circuit vith degree of pollution 3 rated value 6 kV • of main circuit vith degree of pollution 3 rated value 6 kV • of auxiliary circuit value value 8 kV • of main circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • at AC 13 4g / 5 ms, 6.5g / 10 ms • at AC 13 4g / 5 ms, 6.5g / 10 ms • at AC 13 4g / 5 ms, 6.5g / 10 ms • at AC 10 0000 000 <	product brand name	SIRIUS
General technical data S6 size of contactor S6 product extension No • auxiliary switch Yes power loss [W] for rated value of the current Yes • at AC in hot operating state 21 W • of main circuit with degree of pollution 3 rated value 52 W • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit with degree of pollution 3 rated value 6 kV surge voltage resistance 6 kV • of auxiliary circuit with degree of pollution 5 rated value 8 kV • of main circuit rated value 6 kV maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 680 V shock resistance at rectangular impulse 8,5g / 5 ms, 4,2g / 10 ms • at AC 8,5g / 5 ms, 4,2g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 10,000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 0500 100	product designation	Power contactor
size of contactor S6 product extension No • dunction module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 1 W • at AC in hot operating state per pole 7 W • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit with degree of pollution 3 rated value 6 kV • of main circuit with degree of pollution 5 rated value 8 kV • of main circuit vith degree of pollution 3 rated value 6 kV • of main circuit vith degree of pollution 5 rated value 8 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 900 V • at AC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 10,000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical	product type designation	3RT1
product extension No • function module for communication Yes • auxiliary switch Yes • auxiliary switch Yes • at AC in hot operating state 21 W • at AC in hot operating state per pole 7 W • without load current share typical 5.2 W Insulation voltage 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of auxiliary circuit with degree of pollution 3 rated value 500 V • of auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of main dircuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 8.5g / 5 ms, 4.2g / 10 ms • at AC 8.5g / 5 ms, 4.2g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block 10 000 000 • of the contactor with added auxiliary switch block 10 000 000 <td< th=""><th>General technical data</th><th></th></td<>	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current1• at AC in hot operating state21 W• at AC in hot operating state per pole7 W• without load current share typical5.2 Winsulation voltage1000 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value6 kV• of main circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value8 style• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8 style• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of the contactor with added electronically optimized auxilary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical05/01/2012Ambient temperature • during	size of contactor	S6
• auxiliary switchYespower loss [VI] for rated value of the current21 W• at AC in hot operating state21 W• at AC in hot operating state prole7 W• at AC in hot operating state prole5.2 W• without load current share typical5.2 W• of main circuit with degree of pollution 3 rated value1000 V• of main circuit rated value1000 V• of main circuit rated value8 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8 kV• at AC8 (5g / 5 ms, 4,2g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at DC10 000 000• of the contactor with added electronically optimized10 000 000• of the contactor with added electronically optimized10 000 000• of the contactor with added auxiliary switch block10 000 000• of the contactor with ad	product extension	
power loss [W] for rated value of the current 21 W • at AC in hot operating state 21 W • at AC in hot operating state per pole 7 W • without load current share typical 5.2 W insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit with degree of pollution 3 rated value 6 kV surge voltage resistance 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 800 V shock resistance at rectangular impulse 8,5g / 5 ms, 4,2g / 10 ms • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 feference code according to IEC 81346-2 Q	 function module for communication 	No
• at AC in hot operating state per pole 7 W • without load current share typical 5.2 W insulation voltage 1000 V • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 500 V • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • at AC 8.5g / 5 ms, 4.2g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at DC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical	 auxiliary switch 	Yes
• at AC in hot operating state per pole 7 W • without load current share typical 5.2 W Insulation voltage 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V surge voltage resistance 8 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 8.5g / 5 ms, 4.2g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical	power loss [W] for rated value of the current	
• without load current share typical 5.2 W insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value 1 000 V • of auxiliary circuit with degree of pollution 3 rated value 500 V • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 8,5g / 5 ms, 4,2g / 10 ms • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with addee auxiliary switch block typical 2000 m	 at AC in hot operating state 	21 W
insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value a kV of auxiliary circuit rated value b kV of auxiliary contage for safe isolation between coil and main contacts according to EN 60947-1 690 V 690 V 690 V 690 C 8,5g / 5 ms, 4,2g / 10 ms 8,5g / 5 ms, 4,2g / 10 ms at AC at AC 13,4g / 5 ms, 6,5g / 10 ms at DC at AC b (of contactor with adde electronically optimized auxiliary switch blo	 at AC in hot operating state per pole 	7 W
of main circuit with degree of pollution 3 rated value1 000 Vsurge voltage resistance500 Vof main circuit rated value8 kVof auxiliary circuit rated value8 kVof auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 mambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	 without load current share typical 	5.2 W
• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance500 V• of main circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kJ• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typicalQSubstance Prohibitance (Date)QSubstance Prohibitance (Date)2000 mambient conditions2 000 mambient temperature- 460 °C• during operation-25 +60 °C	insulation voltage	
value value surge voltage resistance 8 kV • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 639 V • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 2 000 m substance Prohibitance (Date) 2 000 m ambient conditions 2 000 m	 of main circuit with degree of pollution 3 rated value 	1 000 V
• of main circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse690 V• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	, , ,	500 V
• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kV• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse6 kV• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 000 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	surge voltage resistance	
maximum perinissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse • at AC • at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse • at AC • at DC13,4g / 5 ms, 6,5g / 10 msshock resistance with sine pulse • at AC • at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles) • of contactor typical10 000 000of the contactor with added electronically optimized auxiliary switch block typical10 000 000of the contactor with added auxiliary switch block typical05/01/2012reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	 of main circuit rated value 	8 kV
coil and main contacts according to EN 60947-1shock resistance at rectangular impulse• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	 of auxiliary circuit rated value 	6 kV
• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical2 000 000• of the contactor with addee auxiliary switch block typical2 000 mauxiliant enperature • during operation2 000 m		690 V
• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• mechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000• of the contactor with added auxiliary switch block0000 000	shock resistance at rectangular impulse	
shock resistance with sine pulseI3,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typicalQsubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	• at DC	8,5g / 5 ms, 4,2g / 10 ms
• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• feference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	shock resistance with sine pulse	
mechanical service life (switching cycles)I• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typicalQ• defenence code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 m• during operation-25 +60 °C	• at AC	13,4g / 5 ms, 6,5g / 10 ms
• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	• at DC	13,4g / 5 ms, 6,5g / 10 ms
• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	mechanical service life (switching cycles)	
auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	 of contactor typical 	10 000 000
typical Image: constraint of IEC 81346-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C		5 000 000
Substance Prohibitance (Date) 05/01/2012 Ambient conditions installation altitude at height above sea level maximum ambient temperature 2 000 m • during operation -25 +60 °C		10 000 000
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	Substance Prohibitance (Date)	05/01/2012
ambient temperature • during operation -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during storage -55 +80 °C	 during operation 	-25 +60 °C
	during storage	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	1000 V
•	160.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	160 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	160 A
rated value	100 A
— up to 690 V at ambient temperature 60 °C	140 A
rated value	
— up to 1000 V at ambient temperature 40 °C	80 A
rated value	
— up to 1000 V at ambient temperature 60 °C	80 A
rated value	
• at AC-3	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-3e	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-4 at 400 V rated value	97 A
• at AC-5a up to 690 V rated value	140 A
• at AC-5b up to 400 V rated value	95 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated	115 A
value	445.4
 — up to 400 V for current peak value n=20 rated value 	115 A
— up to 500 V for current peak value n=20 rated	115 A
value	
— up to 690 V for current peak value n=20 rated	115 A
value	
— up to 1000 V for current peak value n=20 rated	53 A
value	
● at AC-6a	
 up to 230 V for current peak value n=30 rated 	98 A
value	
 up to 400 V for current peak value n=30 rated 	98 A
value	
 up to 500 V for current peak value n=30 rated 	98 A
value	00.4
 — up to 690 V for current peak value n=30 rated value 	98 A
— up to 1000 V for current peak value n=30 rated	53 A
value	
minimum cross-section in main circuit at maximum AC-1	70 mm ²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	54 A
• at 690 V rated value	48 A
operational current	

at 24 M rated value	400 A
— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	29 kW
at 690 V rated value	48 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	40 000 kVA
• up to 400 V for current peak value n=20 rated value	80 000 VA
up to 500 V for current peak value n=20 rated value	100 000 VA
• up to 690 V for current peak value n=20 rated value	130 000 VA
 up to 000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 	90 000 VA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	30 000 VA

 up to 400 V for current peak value n=30 rated value 	60 000 VA			
 up to 500 V for current peak value n=30 rated value 	80 000 VA			
 up to 690 V for current peak value n=30 rated value 	110 000 VA			
 up to 1000 V for current peak value n=30 rated 	90 000 VA			
value				
short-time withstand current in cold operating state				
up to 40 °C				
 limited to 1 s switching at zero current maximum 	2 565 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	1 654 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	1 170 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	729 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	572 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• at AC	2 000 1/h			
• at DC	2 000 1/h			
operating frequency				
 at AC-1 maximum 	800 1/h			
 at AC-2 maximum 	400 1/h			
 at AC-3 maximum 	1 000 1/h			
 at AC-3e maximum 	1 000 1/h			
• at AC-4 maximum	130 1/h			
Control circuit/ Control				
type of voltage of the control supply voltage	AC/DC			
control supply voltage at AC				
• at 50 Hz rated value	380 420 V			
at 60 Hz rated value	380 420 V			
control supply voltage at DC	300 720 V			
• rated value	380 420 V			
	300 420 V			
operating range factor control supply voltage rated value of magnet coil at DC				
• initial value	0.8			
• full-scale value	1.1			
operating range factor control supply voltage rated				
value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.8 1.1			
design of the surge suppressor	with varistor			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	300 VA			
• at 60 Hz	300 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.9			
• at 60 Hz	0.9			
apparent holding power of magnet coil at AC				
• at 50 Hz	5.8 VA			
• at 60 Hz	5.8 VA			
inductive power factor with the holding power of the				
coil				
● at 50 Hz	0.8			
• at 60 Hz	0.8			
closing power of magnet coil at DC	360 W			
holding power of magnet coil at DC	5.2 W			
closing delay				
• at AC	20 95 ms			
• at DC	20 95 ms			
opening delay				
• at AC	40 60 ms			
• at DC	40 60 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				

number of NC contacts for auxiliary contacts instantaneous contact	2			
number of NO contacts for auxiliary contacts instantaneous contact	2			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
• at 230 V rated value	6 A			
 at 400 V rated value 	3 A			
• at 500 V rated value	2 A			
• at 690 V rated value	1 A			
operational current at DC-12				
 at 24 V rated value 	10 A			
 at 48 V rated value 	6 A			
 at 60 V rated value 	6 A			
 at 110 V rated value 	3 A			
 at 125 V rated value 	2 A			
 at 220 V rated value 	1 A			
• at 600 V rated value	0.15 A			
operational current at DC-13				
• at 24 V rated value	10 A			
• at 48 V rated value	2 A			
 at 60 V rated value 	2 A			
• at 110 V rated value	1 A			
• at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A			
at 600 V rated value	0.1 A			
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	124 A			
• at 600 V rated value	125 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 230 V rated value	25 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	40 hp			
— at 220/230 V rated value	50 hp			
— at 460/480 V rated value	100 hp			
— at 575/600 V rated value	125 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
 — with type of coordination 1 required 	gG: 355 A (690 V, 100 kA)			
— with type of assignment 2 required	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting			
	surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
 side-by-side mounting 	Yes			
height	172 mm			
width	120 mm			
depth	170 mm			
required spacing				
 with side-by-side mounting 				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			

— at the side	0 mm		
for grounded parts			
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
for live parts			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	Connection bar		
 for auxiliary and control circuit 	screw-type terminals		
at contactor for auxiliary contacts	Screw-type terminals		
of magnet coil	Screw-type terminals		
width of connection bar	17 mm		
thickness of connection bar	3 mm		
diameter of holes	9 mm		
number of holes	1		
type of connectable conductor cross-sections			
at AWG cables for main contacts	4 250 kcmil		
connectable conductor cross-section for main contacts			
stranded	25 120 mm²		
connectable conductor cross-section for auxiliary contacts			
 solid or stranded 	0.5 4 mm²		
 finely stranded with core end processing 	0.5 2.5 mm ²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)		
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12		
AWG number as coded connectable conductor cross section			
 for auxiliary contacts 	18 14		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
 positively driven operation according to IEC 60947- 5-1 	No		
B10 value with high demand rate according to SN 31920	1 000 000		
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover		
suitability for use			
 safety-related switching OFF 	Yes		
Certificates/ approvals			
General Product Approval			



Confirmation







EMC

Functional Safety/Safety of

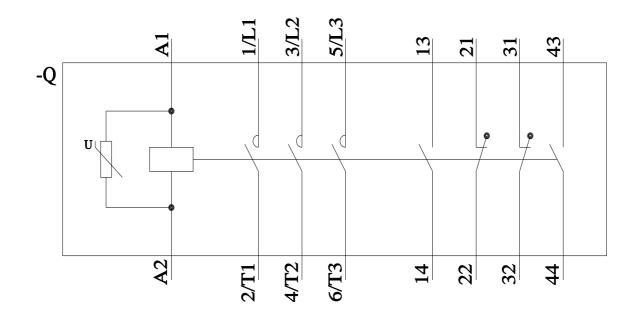
Declaration of Conformity

Test Certificates

<u>KC</u>

Subject to change without notice © Copyright Siemens

	Machinery				
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.		Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping					other
ABS	Lloyd's Register urs	PRS	KMRS	DNV-GL DNV-GL	<u>Miscellaneous</u>
other			Railway		
Confirmation	Confirmation	<u>Miscellaneous</u>	Special Test Certific- ate		
Further information					
Information- and Do	wnloadcenter (Catalog	s, Brochures,…)			
Industry Mall (Online ordering system)					
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1054-6AV36 Cax online generator					
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6AV36					
	Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AV36				
Image database (pro		nsion drawings, 3D	models, device circuit d	liagrams, EPLAN ma	icros,)
Characteristic: Tripp	bing characteristics, I ² t	Let-through curren	t		
Further characterist	ics (e.g. electrical endι	irance, switching fre		6&objecttype=14&grid	view=view1



last modified:

3/24/2022 🖸