SIEMENS

Data sheet 3RT2017-1WB42



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, 0.85-1.85 * Us, with varistor plugged on, auxiliary contacts: 1 NC, screw terminal, size: S00, not expandable with auxiliary switch

product type designation graduct extension • function module for communication • auxiliary switch No power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical type of calculation of power loss depending on pole graduction of power loss depending on pole 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 trated value • of auxiliary circuit trated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit trated value • of auxiliary circuit rated value • of auxiliary au	product brand name	SIRIUS
Size of contactor S00 riversity of contactor No suxiliary switch No auxiliary switch No power loss [W] for rated value of the current at AC in hot operating state 1.5 W at AC in hot operating state 9.5 W without load current share typical 1.6 W type of calculation of power loss depending on pole quadratic insulation voltage of main circuit with degree of pollution 3 rated value 990 V surge voltage resistance of main circuit rated value 6 kV of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse at DC 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse at DC 11.4g / 5 ms, 7.3g / 10 ms shock resistance with sine pulse at DC 11.4g / 5 ms, 7.3g / 10 ms shock resistance vith sine pulse at DC 11.4g / 5 ms, 7.3g / 10 ms shock resistance or code according to IEC 81346-2 Q Substance Prohibitance (Date) SWHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature during sporagion 25 +60 °C relative humidity at 55 °C according to IEC 60088-2-30 maximum Environmental footprint	product designation	Coupling contactor
size of contactor product extension • function module for communication • auxillary switch • auxillary switch • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit rated value • at DC \$\text{3.9} f. \text{5.8}, 4.7g / 10 ms \$\text{shock resistance at rectangular impulse} • at DC \$\text{3.0} f. \text{5.8}, 4.7g / 10 ms \$\text{3.000 0000} \$\text{3.000 000} \$\text{1.4g / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{1.4g / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{1.4g / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{1.4g / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{1.4g / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{1.4g / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{1.4g / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{1.4g / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.1kg} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{4.1dg / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{4.1dg / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{4.1dg / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\text{3.000 0000} \$\text{4.1dg / 5 ms, 7.3g / 10 ms} \$\text{3.000 0000} \$\te	product type designation	3RT2
product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state 1.5 W • at AC in hot operating state 1.5 W • at AC in hot operating state per pole 0.5 W • without load current share typical 1.6 W type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • 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 auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 7.3g / 5 ms, 4.7g / 10 ms shock resistance at rectangular impulse 11.4g / 5 ms, 7.3g / 10 ms • at DC 11.4g / 5 ms, 7.3g / 10 ms mechanical service life (operating cycles) 0 contactor typical 30 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 20 km SWHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions 20 km ambient temperature 4 during operation 25 km +60 °C • 4 during operation 25 km +60 °C • 5 km +60 °C • 6 during storage -55 km +80 °C relative humidity at 55 °C according to IEC 60068-2-30 governmental footprint	General technical data	
• function module for communication • auxillary switch No auxillary switch At AC in hot operating state • at AC in hot operating state per pole • without load current share typical • without load current share typical • of aculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit rated value • of uxillary circuit rated value •	size of contactor	S00
auxillary switch power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole without load current share typical to guadratic insulation voltage of main circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of auxillary circuit with degree of pollution 3 rated value of a will circuit rated value of a will circuit rated value of auxillary circuit rated value of au	product extension	
power loss [W] for rated value of the current at AC in hot operating state	 function module for communication 	No
at AC in hot operating state at AC in hot operating state per pole without load current share typical type of calculation of power loss depending on pole 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 auxiliary 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 surge voltage resistance of main circuit rated value of with a contract according to EN 60947-1 shock resistance at rectangular impulse of at DC radio from the first of the firs	auxiliary switch	No
at AC in hot operating state per pole without load current share typical type of calculation of power loss depending on pole 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 auxiliary circuit rated value of auxili	power loss [W] for rated value of the current	
without load current share typical type of calculation of power loss depending on pole 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 auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit value of auxiliary ci	 at AC in hot operating state 	1.5 W
type of calculation of power loss depending on pole 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 auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • of OV • of auxiliary circuit rated value • of OV • of ON • of C • of ornatctor typical • of contactor typical • of ontactor typical • of contactor typical • of ontactor typical • of the Volume typical typical typical typical • of ontactor typical • of typical typical typi	 at AC in hot operating state per pole 	0.5 W
insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • of value rate over a rectangular impulse • at DC • of contactor typical • of contactor typical • of contactor typical • of contactor typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity minimum Environmental footprint Environmental footprint	without load current share typical	1.6 W
of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of DC	type of calculation of power loss depending on pole	quadratic
of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot DC 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse ot DC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) of contactor typical 30 000 000 reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) SYHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring operation -25 +60 °C oturing storage relative humidity minimum relative humidity minimum Environmental footprint	insulation voltage	
surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at DC shock resistance with sine pulse of contactor typical of contactor typical of contactor typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) SYHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of characterists and the substance of contacterists and contacterists	 of main circuit with degree of pollution 3 rated value 	690 V
of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value ad NV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot DC	 of auxiliary circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse oat DC factor of the pulse oat DC interpretation of the pulse of contactor typical of contactor typical of contactor typical of contactor typical substance Prohibitance (Date) SYHC substance name Lead - 7439-92-1 Weight O.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring storage oduring storage relative humidity minimum relative humidity minimum Environmental footprint at 00 V 400	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC at DC to at DC shock resistance with sine pulse • at DC mechanical service life (operating cycles) • of contactor typical of contactor typical substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	of main circuit rated value	6 kV
coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at DC shock resistance with sine pulse • at DC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) • of contactor typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	of auxiliary circuit rated value	6 kV
* at DC * shock resistance with sine pulse * at DC * at DC * 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) * of contactor typical		400 V
shock resistance with sine pulse • at DC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) • of contactor typical 30 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	shock resistance at rectangular impulse	
at DC mechanical service life (operating cycles) of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	• at DC	7.3g / 5 ms, 4.7g / 10 ms
mechanical service life (operating cycles) ● of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	shock resistance with sine pulse	
of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation o during storage during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	• at DC	11,4g / 5 ms, 7,3g / 10 ms
reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	mechanical service life (operating cycles)	
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	of contactor typical	30 000 000
SVHC substance name Lead - 7439-92-1 Weight 0.31 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	reference code according to IEC 81346-2	Q
Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	Substance Prohibitance (Date)	
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	SVHC substance name	Lead - 7439-92-1
installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	Weight	0.31 kg
ambient temperature	Ambient conditions	
● during operation ● during storage ● during storage	installation altitude at height above sea level maximum	2 000 m
during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint -55 +80 °C 95 % 95 %	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Environmental footprint	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Environmental footprint	during storage	-55 +80 °C
Environmental footprint	relative humidity minimum	10 %
		95 %
Environmental Product Declaration/EDD)	Environmental footprint	
Environmental Froduct Decidiation(EFD)	Environmental Product Declaration(EPD)	Yes

Global Warming Potential [CO2 eq] total	153 kg
Global Warming Potential [CO2 eq] during manufacturing	1.42 kg
Global Warming Potential [CO2 eq] during operation	152 kg
Global Warming Potential [CO2 eq] after end of life	-0.305 kg
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 	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	40.4
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	40.4
— at 400 V rated value	12 A 9.2 A
— at 500 V rated value	
— at 690 V rated value	6.7 A
at AC-4 at 400 V rated value at AC-5 sup to 600 V rated value	8.5 A 19.4 A
at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value	9.9 A
 at AC-5b up to 400 V rated value at AC-6a 	V.V /\
— up to 230 V for current peak value n=20 rated value	7.2 A
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
— up to 690 V for current peak value n=20 rated value	6.7 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
— up to 500 V for current peak value n=30 rated value	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A

— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
with 3 current paths in series at DC-3 at DC-5	0.0071
— at 24 V rated value	20 A
— at 60 V rated value	
	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	2.8 kVA
• up to 400 V for current peak value n=20 rated value	4.9 kVA
 up to 500 V for current peak value n=20 rated value 	6.2 kVA
 up to 690 V for current peak value n=20 rated value 	8 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	1.9 kVA
up to 400 V for current peak value n=30 rated value	3.3 kVA
up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value	4.1 kVA
up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value	5.7 kVA
short-time withstand current in cold operating state up to	K., (
40 °C	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	
-	
 limited to 30 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum no-load switching frequency	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum no-load switching frequency at DC	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h
limited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency at AC-1 maximum	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h 1 000 1/h
Iimited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency at AC-1 maximum at AC-2 maximum	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h 1 000 1/h 750 1/h
Iimited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h 1 000 1/h 750 1/h 750 1/h
Iimited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 e maximum	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h 1 000 1/h 750 1/h 750 1/h
Iimited to 60 s switching at zero current maximum no-load switching frequency at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum	96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h 1 000 1/h 750 1/h 750 1/h

type of voltage of the control supply voltage	DC
type of voltage of the control supply voltage control supply voltage at DC rated value	24 V
operating range factor control supply voltage rated value of	LT V
magnet coil at DC	
• initial value	0.85
full-scale value	1.85
design of the surge suppressor	with varistor
closing power of magnet coil at DC	1.6 W
holding power of magnet coil at DC	1.6 W
closing delay	
• at DC	25 120 ms
opening delay	
• at DC	5 20 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	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 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	10.4
at 24 V rated value at 48 V rated value	10 A 2 A
at 48 V rated value at 60 V rated value	
at 60 V rated value at 110 V rated value	2 A
at 110 V rated value at 125 V rated value	1 A 0.9 A
 at 125 V rated value 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	ribary officining per 100 million (17 V, 1 mix)
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 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: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)

stallation/ mounting/ dimensions	±/ 100° rotation possible on vertical mounting ourfees can be tilted forward
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward at backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	58 mm
width	45 mm
depth	117 mm
required spacing	117 111111
with side-by-side mounting	
— forwards	10 mm
	10 mm
— upwards — downwards	
	10 mm
— at the side	0 mm
for grounded parts	40
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
onnections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
• for auxiliary contacts	
solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
Innery stranded with core end processing for AWG cables for auxiliary contacts	2x (0.5 1.5 minr), 2x (0.75 2.5 minr) 2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section	2A (2V 10), 2A (10 14), 2A 12
for main contacts	20 12
for auxiliary contacts	20 12
afety related data	
product function	
	Yes
mirror contact according to IEC 60947-4-1 positively driven expertion according to IEC 60947.5.1.	
positively driven operation according to IEC 60947-5-1 pultable for pefety function	No Yea
suitable for safety function Stiff bitte for safety	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
	Yes
test wear-related service life necessary proportion of dangerous failures	163

 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	

General Product Approval





Confirmation





<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certific-



Marine / Shipping











Confirmation

other

other

Railway

Dangerous goods

Environment

Miscellaneous

Special Test Certific-<u>ate</u>

Transport Information



Environmental Confirmations

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=3RT2017-1WB42

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2017-1WB42}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1WB4

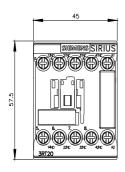
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

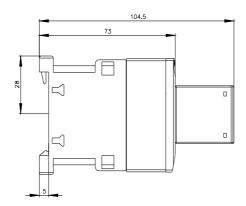
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-1WB42&lang=en

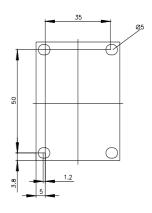
Characteristic: Tripping characteristics, I2t, Let-through current

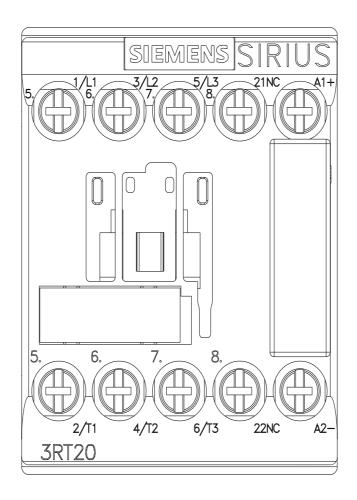
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1WB42/char

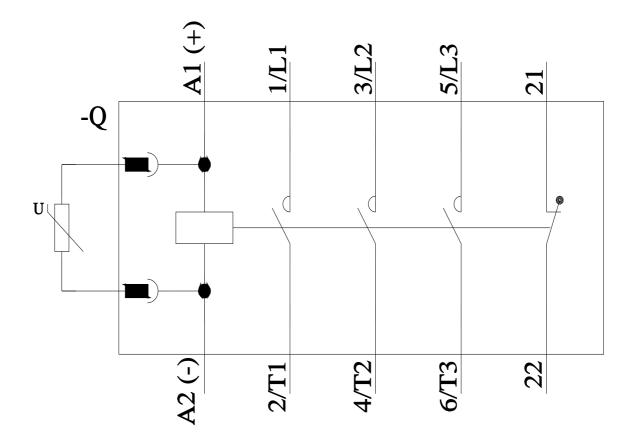
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1WB42&objecttype=14&gridview=view1











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