## **SIEMENS**

Data sheet 3RH2140-2AF00



Contactor relay, 4 NO, 110 V AC, 50 / 60 Hz, Size S00, Spring-type terminal

product type designation  SR12  Size of contactor  S00  product extension auxiliary switch power loss [W] for rated value of the current without load current share typical insulation voltage with degree of pollution 3 at AC rated value 680 V  degree of pollution 3 surge voltage resistance rated value 6 kV  shock resistance at rectangular impulse at AC  shock resistance with sine pulse at AC  shock resistance with sine pulse of contactor typical of contactor typical of contactor typical of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2  KSubstance Prohibitance (Date) Ambient conflictions installation altitude at height above sea level maximum ambient temperature of uring storage relative humidity mistimum relative humidity at 55°C according to IEC 60068-2-30 maximum  Environmental Footuct Declaration (EPD) Yes Global Warming Potential (CO2 eq) during manufacturing Alban circuit CO2 eq) during manufacturing Alban circuit CO2 eq) during manufacturing Clobal Warming Potential (CO2 eq) during manufacturing Ala C  at C  10 000 1/h  at CC Control circuit/ Control	product brand name	SIRIUS
size of contactor   S00   product extension auxiliary switch   Yes   power loss [W] for rated value of the current without load current share typical   insulation voltage with degree of pollution 3 at AC rated value   690 V   degree of pollution   3   surge voltage resistance rated value   6 kV   shock resistance at rectangular impulse   • at AC   7,3g / 5 ms, 4,7g / 10 ms   shock resistance with sine pulse   • at AC   11,4g / 5 ms, 7,3g / 10 ms   mechanical service life (operating cycles)   • of contactor typical   30 000 000   auxiliary switch block typical   5 000 000   auxiliary switch block typical   10 000 000   of the contactor with added electronically optimized   30 000 000   auxiliary switch block vipical   10 000 000   reference code according to IEC 81346-2   K Substance Prohibitance (Date)   100/1/2009   Ambient conditions   2000 m   ambient temperature   • during operation   25 +60 °C   relative humidity at 55 °C according to IEC 60068-2-30 maximum   10 %   relative humidity minimum   10 %   relative humidity minimum   10 %   relative humidity minimum   10 %   relative humidity moderation (EPD)   Yes   Global Warming Potential [CO2 eq] during manufacturing   1.15 kg   Global Warming Potential [CO2 eq] during manufacturing   4.9 2 kg   Global Warming Potential [CO2 eq] during manufacturing   4.9 2 kg   Main circuit   no-load switching frequency   et AC   10 000 1/h   et at DC   10 000 1/h   et at DC   10 000 1/h	product designation	Auxiliary contactor
size of contactor product extension auxiliary switch product extension auxiliary switch product extension auxiliary switch power loss [W] for rated value of the current without load current share typical Insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 6 kV shock resistance at rectangular impulse • at AC 7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse • at AC 11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added sulliary switch block typical • of the contactor with added auxiliary switch block typical • of the contact	product type designation	3RH2
product extension auxillary switch power loss [W] for rated value of the current without load current share typical insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 66 kV shock resistance at rectangular impulse • at AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse • at AC 11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (operating cycles) • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum aluminating a contact of the during storage -55 +80 °C relative humidity minimum 10 % relative humidity in timimum relative humidity at 5 °C according to IEC 60068-2-30 maximum Environmental footprint Environmental footprint Environmental footprint Environmental footprint Coloal Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during manufacturing 61 durin circuit no-load switching frequency e at AC at C 10 000 1/h e at DC 10 000 1/h e at DC	General technical data	
power loss [W] for rated value of the current without load current share typical insulation voltage with degree of pollution 3 at AC rated value 690 V  degree of pollution 3 surge voltage resistance rated value 6 kV shock resistance at rectangular impulse  • at AC 7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse  • at AC 11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (operating cycles)  • of contactor typical 30 000 000  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added	size of contactor	S00
insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance at rectangular impulse • at AC shock resistance with sine pulse • at AC stack resistance with sine pulse • at AC stack rectangular impulse • at AC stack resistance with sine pulse • at AC stack rectangular impulse • at AC stack resistance with sine pulse • at AC stack rectangular impulse • of Contactor With added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 K Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during storage relative humidity at 55 °C according to IEC 60068-2-30 maximum  Environmental Footprint Environmental Product Declaration(EPD) Yes Global Warming Potential [CO2 eq] total 49.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] during operation 48.2 kg	product extension auxiliary switch	Yes
degree of pollution  surge voltage resistance rated value  shock resistance at rectangular impulse  • at AC  shock resistance with sine pulse  • at AC  rocontactor typical  • of contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added suxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added electronically optimized  • of	· · · · · ·	1.43 W
surge voltage resistance at rectangular impulse  • at AC  shock resistance with sine pulse  • at AC  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  K  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  -55 +60 °C  • during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Environmental footprint  Environmental Footuci Declaration(EPD)  Yes  Global Warming Potential (CO2 eq] total  Global Warming Potential (CO2 eq] during manufacturing  Global Warming Potential (CO2 eq] during operation  48.2 kg  Global Warming Potential (CO2 eq] during operation  48.2 kg  Global Warming Potential (CO2 eq] during operation  48.2 kg  Global Warming Potential (CO2 eq] during operation  48.2 kg  Global Warming Potential (CO2 eq] during operation  48.2 kg  Global Warming Potential (CO2 eq] during operation  48.2 kg  Global Warming Potential (CO2 eq] after end of life  n-load switching frequency  • at AC  • at DC  10 000 1/h	insulation voltage with degree of pollution 3 at AC rated value	690 V
shock resistance at rectangular impulse  • at AC  shock resistance with sine pulse  • at AC  11,4g / 5 ms, 4,7g / 10 ms  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  K  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  -55+80 °C  relative humidity minimum  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Environmental Footuct Declaration(EPD)  Yes  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  7,3g / 5 ms, 4,7g / 10 ms  11,4g / 5 ms, 7,3g / 10 ms  10 moon 1000 1/h  10 000 1/h  10 moon 1/h  10 moon 1/h  10 moon 1/h  11,4g / 5 ms, 4,7g / 10 ms  10 moon 1000 1/h  10 moon 1/h	degree of pollution	3
at AC  shock resistance with sine pulse  at AC  at AC  11,4g / 5 ms, 4,7g / 10 ms  mechanical service life (operating cycles)  of contactor typical  of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  K  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of during operation  of during storage  relative humidity minimum  relative humidity minimum  relative humidity minimum  Environmental Footprint  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  Main circuit  no-load switching frequency  at AC  at AC  10 000 1/h	surge voltage resistance rated value	6 kV
shock resistance with sine pulse  at AC  mechanical service life (operating cycles)  of contactor typical  of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  10 000 000  reference code according to IEC 81346-2  K Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of uring operation  office of the contactor with added auxiliary switch block typical  office of the contactor with added auxiliary switch block typical  and the conditions  installation altitude at height above sea level maximum  ambient temperature  of uring operation  office off	shock resistance at rectangular impulse	
at AC  mechanical service life (operating cycles)  of contactor typical  of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  K  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of during operation  of during storage  relative humidity minimum  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  at AC  10 000 1/h  10 000 1/h	• at AC	7,3g / 5 ms, 4,7g / 10 ms
mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added electronically operation  • of the contactor with added electroni	shock resistance with sine pulse	
of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     reference code according to IEC 81346-2     K Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum     ambient temperature     ouring operation     ouring storage     ouring storage     relative humidity minimum     10 %  relative humidity at 55 °C according to IEC 60068-2-30     maximum  Environmental footprint  Environmental Product Declaration(EPD)     Yes Global Warming Potential [CO2 eq] total     49.2 kg Global Warming Potential [CO2 eq] during manufacturing     1.15 kg Global Warming Potential [CO2 eq] during operation     48.2 kg Global Warming Potential [CO2 eq] after end of life     -0.139 kg  Main circuit  no-load switching frequency     • at AC     10 000 1/h     • at DC	• at AC	11,4g / 5 ms, 7,3g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     reference code according to IEC 81346-2     K Substance Prohibitance (Date)  Ambient conditions  Installation altitude at height above sea level maximum     ambient temperature     ouring operation     ouring operation     ouring storage     relative humidity minimum     relative humidity at 55 °C according to IEC 60068-2-30     maximum  Environmental Footprint  Environmental Product Declaration(EPD)     Yes Global Warming Potential [CO2 eq] total Global Warming Potential [CO2 eq] during manufacturing Alexandra	mechanical service life (operating cycles)	
auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  K  Substance Prohibitance (Date)  // Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  - 25 +60 °C  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Environmental footprint  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  10 000 1/h  • at DC	<ul> <li>of contactor typical</li> </ul>	30 000 000
reference code according to IEC 81346-2 K Substance Prohibitance (Date) 10/01/2009  Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • 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 95 % maximum  Environmental footprint Environmental Product Declaration(EPD) Yes Global Warming Potential [CO2 eq] total 49.2 kg Global Warming Potential [CO2 eq] during manufacturing 1.15 kg Global Warming Potential [CO2 eq] during operation 48.2 kg Global Warming Potential [CO2 eq] after end of life -0.139 kg  Main circuit  no-load switching frequency • at AC 10 000 1/h • at DC 10 000 1/h		5 000 000
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  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency • at AC • at DC  10 000 1/h  10 000 1/h  10 000 1/h	of the contactor with added auxiliary switch block typical	10 000 000
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  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  • at DC	reference code according to IEC 81346-2	К
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Environmental footprint  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] after end of life  48.2 kg  Global Warming Potential [CO2 eq] after end of life  no-load switching frequency  • at AC  • at DC  10 000 1/h  • at DC	Substance Prohibitance (Date)	10/01/2009
ambient temperature  ● during operation  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Environmental footprint  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  • at DC	Ambient conditions	
• during operation     • during storage     • during storage     relative humidity minimum     10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Environmental footprint  Environmental Product Declaration(EPD)     Yes Global Warming Potential [CO2 eq] total     Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation Global Warming Potential [CO2 eq] during operation Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency     • at AC     • at DC     10 000 1/h     • at DC	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Environmental footprint  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  • at DC	<ul> <li>during operation</li> </ul>	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum  Environmental footprint  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  95 %  49.2 kg  49.2 kg  -0.139 kg	during storage	-55 +80 °C
Environmental footprint  Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  10 000 1/h	relative humidity minimum	10 %
Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] after end of life  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  10 000 1/h		95 %
Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  10 000 1/h	Environmental footprint	
Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation  48.2 kg  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  10 000 1/h	Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  10 000 1/h	Global Warming Potential [CO2 eq] total	49.2 kg
Global Warming Potential [CO2 eq] after end of life  -0.139 kg  Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  10 000 1/h	Global Warming Potential [CO2 eq] during manufacturing	1.15 kg
Main circuit  no-load switching frequency  • at AC  • at DC  10 000 1/h  10 000 1/h	Global Warming Potential [CO2 eq] during operation	48.2 kg
no-load switching frequency         ● at AC       10 000 1/h         ● at DC       10 000 1/h	Global Warming Potential [CO2 eq] after end of life	-0.139 kg
<ul> <li>at AC</li> <li>at DC</li> <li>10 000 1/h</li> <li>10 000 1/h</li> </ul>	Main circuit	
• at DC 10 000 1/h	no-load switching frequency	
****	• at AC	10 000 1/h
Control circuit/ Control	• at DC	10 000 1/h
	Control circuit/ Control	

control supply voltage at AC  • at 50 Hz rated value  • 110 V  control supply voltage frequency  • 1 rated value  • 2 rated value  • 30 Hz  • 2 rated value  • 30 Hz  • 2 rated value  • 2 rated value  • 30 Hz  • 30 Hz  • 4 t 50 Hz  • at 50 Hz  • at 60 Hz  apparent pick-up power of magnet coil at AC  inductive power factor with closing power of the coil  apparent holding power of magnet coil at AC  inductive power factor with the holding power of the coil  closing delay  • at AC  • at AC  4 15 ms  arcing time		
	type of voltage of the control supply voltage	AC
. at 60 ft z rated value		
Control supply voltage frequency   1 rated value   50 bt   5		
		110 V
2- 2 rated value   Coperating ranges pactor control supply voltage rated value of magnet coll at AC   0.8 1.1   0.8 1		
magnet coll at AC         4 at 50 Hz         0.8 1.1           a paper of pick-up power of magnet coll at AC         35 1.1           apparent pick-up power factor with closing power of the coll         0.8           apparent holding power of magnet coll at AC         57 VA           inductive power factor with the holding power of the coll         0.25           closing delay         4 15 ms           at AC         8 33 ms           opening delay         4 15 ms           arcing time         10 15 ms           International power of the coll           International power of magnet coll at AC		

* all 200 V rated value * all 400 V rated value * all 600 V rated value * all	1000 // / / /	204
a cit 20 V rated value operational current with 3 current paths in series at DC-13 a cit 20 V rated value a cit 10 V rated value b cit 20 V rated value c cit 40 V rated value c contact rating of auxiliary contacts contact rat		
operational current with 3 current paths in series at DC-13  • at 24 V risted value • at 110 V risted value • at 110 V risted value • at 140 V risted value • at 150 V risted		
1 A V rated value 1 of 10 V rated value 2 of 10 V rated value 1 of 20 V rated value 2 of 20 V rated value 3 of 20 V rated value 2 of 20 V rated value 2 of 20 V rated value 3 of 20 V rated value 2 of 20 V rated value 3 of 20 V rated value 4 of 20 V rated value 5 of 20 V rated value 6 of 10 V rated value 7 of 20 V rated value 8 of 20 V rated value 9 o		0.1 A
and to 0 V rated value and 110 V rated value and 40 V rated value and 4	•	
e at 11 OV fixed value e at 220 V rieted value 12 A 12 A 16 400 V rieted value 0.5 A 0.20 A 0	at 24 V rated value	
* all 440 V rated value     * according frequency at DC-13 maximum     design of the ministrue cricuit brokester for short-circuit protection of the auxiliary circuit up to 230 V     contact ratelaitify of auxiliary contacts     * all 440 V rated value     * according to State Interest of the auxiliary contacts     * according to State Interest of State Interest Interest of State Interest Interest of State Interest Interest of State Interest Interes	<ul> <li>at 60 V rated value</li> </ul>	4.7 A
e at 400 Y rated value	at 110 V rated value	3 A
operating frequency at DC-13 maximum Oesign of the ministure circuit breaker for short-circuit protection of the auxiliary circuit by to 250 V Contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  1 faulty switching per 100 million (17 V,	at 220 V rated value	1.2 A
operating frequency at DC-13 maximum  design of the ministure circuit breaker for short-circuit protection  of the subsiliary cross to yet 200  contact reliability of auxiliary contacts  UC-SA Tarings  contact rating of auxiliary contacts according to UL  A600 / G000  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary  which required  Installation/ mounting/ dimensions  mounting position  45 mm  45 mm  depth  70 mm  vetth  45 mm  depth  73 mm  required spacing  • will sible-by-side mounting  — invarieds  — upwards  — at the side  — downwards — at the side  — downwards — at the side  — downwards — of or leve parts — forwards — upwards — of or leve parts — forwards — upwards — of or wards — upwards — of or grounded parts — forwards — upwards — of or wards — ownwards — own	• at 440 V rated value	0.5 A
design of the ministure crecul breaker for short-circuit protection of the auxiliary cortact sup to 230 v.  contact reliability of auxiliary contacts  1 fauthy switching per 100 million (17 V, 1 mA)    Contact reliability of auxiliary contacts according to UL   A800 / C800   Short-circuit protection   A800 / C800   Short-circuit protection of the auxiliary switch required   A800 / C800   Short-circuit protection   A800 / C800   A800 / C800   Short-circuit protection   A800 / C800   A	at 600 V rated value	0.26 A
of the auxiliary critical to pto 230 V contact rating of auxiliary contacts  ULICSA ratings contact rating of auxiliary contacts according to UL.  A600 / C600  Short-Circuit protection design of the fuse link for short-circuit protection of the auxiliary which required Installation mounting dimensions  mounting position  fastening method height 70 mm width 45 mm depth 73 mm required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side  • for grounded parts — at the side  • for grounded parts — downwards — upwards — at the side  • for grounded parts — forwards — at the side  • for grounded parts — forwards — at the side  • for grounded parts — forwards — at the side  • for grounded parts — forwards — at the side  • for grounded parts — forwards — at the side  • for grounded parts — forwards — at the side  • for grounded parts — forwards — at the side  • for five parts — downwards  • for live parts — forwards — at the side  • for me parts — forwards — the side  • for me parts — forwards — the side  • for me — downwards • for live parts — forwards — upwards — ownwards • for live parts — forwards — ownwards • for many — upwards — ownwards • for live parts — forwards — ownwards • for live parts — forwards — ownwards • for many — ownwards • for swill-ary contacts  • for swill-ary contacts • for auxiliary contacts  • for auxiliary contacts • for auxiliary contacts  • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxilia	operating frequency at DC-13 maximum	1 000 1/h
Contact rating of auxiliary contacts according to UL  A600 / G800  A60		C characteristic: 6 A; 0.4 kA
contact rating of auxiliary contacts according to UL  Short-Circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Installation/mounting/dimensions  mounting position  backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and backward by 4-22.5" on vertical mounting surface; can be tilled forward and ba	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary witch required Installation innounting dimensions  mounting position  fastening method screw and snap-on mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and second and backward by +/- 22.5" on vertical mounting surface; can be tilted forward a	UL/CSA ratings	
design of the fuse link for short-circuit protection of the auxiliary switch required installation/mounting/dimensions  mounting position  ##-180" rotation possible on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on vertical mounting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and backward by ##-22.5" on minuting surface; can be tilted forward and	contact rating of auxiliary contacts according to UL	A600 / Q600
switch required  mounting position  #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward and backward by #-2.25 for vertical mounting surface; can be tilted forward by #-2.25 for vertical mounting surface; can be tilted forward by #-2.25 for vertical mounting surface; can be tilted forward by #-2.25 for vertical mounting surface; can be tilted for	Short-circuit protection	
mounting position  ##4180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail  ##4180" rotation possible on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail  ##45 mm  ##45 m		fuse gL/gG: 10 A
mounting position  ##4180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail  ##4180" rotation possible on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail  ##45 mm  ##45 m	·	
backward by ++ 22,5° on vertical mounting surface fastening method  height  70 mm  width  45 mm  depth  required spacing  • with side-by-side mounting  - forwards  - upwards  - downwards  - at the side  • for grounded parts  - forwards  - at the side  - downwards  - to fix ley parts  - forwards  - to fix ley parts  - forwards  - to mm  - to	-	+/-180° rotation possible on vertical mounting surface: can be tilted forward and
height width 45 mm depth 73 mm required spacing  • with side-by-side mounting — forwards 10 mm — upwards 10 mm — at the side 0 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — ownwards 10 mm — to fire parts 10 mm — upwards 10 mm — upwards 10 mm — to mm — downwards 10 mm — to mm — to make the side 6 mm — to side of stranded 6 mm — to side of stranded 10 mm — to sid		
width depth 73 mm  required spacing  • with side-by-side mounting  — forwards 10 mm  — downwards 10 mm  — downwards 10 mm  — the side 0 mm  • for grounded parts  — forwards 10 mm  — at the side 6 mm  — downwards 10 mm  — at the side 6 mm  — downwards 10 mm  • for live parts  — forwards 10 mm  • for live parts  — forwards 10 mm  • for live parts  — forwards 10 mm  • for live parts  — downwards 10 mm  — downwards 10 mm  — at the side 6 mm  — connections / Freminals  type of electrical connection for auxiliary and control circuit spring-loaded terminals  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts  safety rolated data  proportion of dangerous failures  • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 product function positively driven operation according to ElEC 61908  El C 61508  Ti value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 11 value for proof test interval or service life according to SN 10 or FIT 11 value for proof test interval or service life according to SN 10 or FIT 11 value for proof test interval or service life according to SN 10 or FIT 11 value for proof test interval or service life according to SN 10 or FIT 11 value for proof test interval or servic	fastening method	screw and snap-on mounting onto 35 mm DIN rail
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — upwards — upwards — upwards — 10 mm  • for grounded parts — forwards — upwards — upwards — 10 mm  • downwards — to mm  • of live parts — forwards — upwards — upwards — upwards — to mm  • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side  Connections/ Terminals  Type of electrical connection for auxiliary and control circuit  Type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts  • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  * with high demand rate according to SN 31920  * allure rate [FT] with low demand rate according to SN 31920  * BIO value with high demand rate according to SN 31920  * BIO value with high demand rate according to SN 31920  * BIO value with high demand rate according to SN 31920  * IlEC 61508  * Ti value for proof test interval or service life according to  * Ti value for proof test interval or service life according to  * Ti value for proof test interval or service life according to  * Ti value for proof test interval or service life according to  * Ti value for proof test interval or service life according to  * Ti value for proof test interval or service life according to  * Ti value for proof test interval or service life according to  * Ves	height	70 mm
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — forwards — forwards — forwards — forwards — upwards — the side — downwards — at the side — downwards — downwards — to mm — downwards — for live parts — for live parts — forwards — upwards — to mm — downwards — lo mm — downwards — upwards — at the side — for live parts — forwards — upwards — the side — for mm — downwards — the side — at the side — at the side — at the side  Connections/Terminals  Type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts  Safety rotated data  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  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  • With high demand rate according to SN 31920  • Unous control test interval or service life according to SN 31920  • Unous control test interval or service life according to SN 31920  • Unous control test interval or service life according to SN 31920  • Unous control test interval or service life according to SN 31920  • Unous control test interval or service life according to SN 31920  • Unous control test interval or service life according to SN 31920  • Unous control test interval or service life according to SN 31920  • Unous control test interval or service life according to SN 31920	width	45 mm
• with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — of morards — upwards — of morards — at the side — downwards — to mm — upwards — of mm — of or live parts — forwards — forwards — 10 mm — of or live parts — forwards — 10 mm — of or live parts — forwards — 10 mm — upwards — downwards — 10 mm — upwards — downwards — 10 mm — at the side — downwards — of mm  Connections' Torminals  type of connectable conductor cross-sections  • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (0.5 2.5 mm²) — finely stranded without core end processing • with ligh demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 1100 FIT 131920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with ligh demand rate according to SN 31920  B10 value with ligh demand rate according to SN 31920  B10 value with ligh demand rate according to SN 31920  T1 value for proof test interval or service life according to Up a	depth	73 mm
forwards 10 mm upwards 10 mm downwards 10 mm at the side 0 mm forwards 10 mm at the side 0 mm at the side 10 mm upwards 10 mm at the side 6 mm downwards 10 mm at the side 6 mm downwards 10 mm for live parts forwards 10 mm for live parts forwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm at the side 6 mm at the side 5 mm forwards 10 mm forwards 10 mm formards 10 mm at the side 5 mm forwards 10 mm at the side 5 mm with eside 6 mm at the side 5 mm with side 6 mm at the side 6 mm	required spacing	
- upwards	<ul> <li>with side-by-side mounting</li> </ul>	
- downwards - at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards - downwards • for live parts - forwards - upwards - forwards - upwards - forwards - forwards - upwards - downwards - upwards - downwards - downwards - downwards - at the side - downwards - downwards - forwards - for	— forwards	10 mm
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  • for live parts  - forwards  10 mm  • for live parts  - forwards  10 mm  • for live parts  - forwards  10 mm  - upwards  10 mm  - upwards  10 mm  - downwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - finely stranded without core end processing  • for AWG cables for auxiliary contacts  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  1000 000; With 0.3 x le  proportion of dangerous failures  • with ligh demand rate according to SN 31920  1000 000; With 0.3 x le  Product function positively driven operation according to EIC 61508  Ti value for proof test interval or service life according to  Ti value for proof test interval or service life according to  10 mm  10 mm  10 mm  10 mm  10 mm  10 mm  20 mm  2	— upwards	10 mm
• for grounded parts  — forwards — upwards — at the side — downwards — 10 mm  • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — upwards — 10 mm — downwards — upwards — 10 mm — downwards — at the side — 6 mm   Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts  2x (0.5 4 mm²) — finely stranded without core end processing — 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  product function positively driven operation according to EIC 61508  T1 value for proof test interval or service life according to  10 mm  10 mm  10 mm  10 mm  2 x (0.5 4 mm²)  2 x (0.5 4 mm²)  2 x (0.5 2.5 mm²)  2 x (0.5 2.5 mm²)  3 x (20 12)  Safety related data  10 mm  2 x (0.5 4 mm²)  2 x (0.5 4 mm²)  3 x (20 12)  Safety related data  10 mm  2 x (0.5 4 mm²)  2 x (0.5 4 mm²)  3 x (20 12)  Safety related data  10 mm  2 x (0.5 4 mm²)  2 x (0.5 4 mm²)  3 x (0.5 4 mm²)  4 x (0.5 4 mm²)  5 x (0.5 2.5 mm²)  4 x (0.5 4 mm²)  5 x (0.5 3 mm²)  5 x (0.5 3 mm²)  5 x (0.5 3 mm²)  6 x (0.5 4 mm²)  7 x (0.5 4 mm²)  9 x	— downwards	10 mm
- forwards	— at the side	0 mm
- forwards	for grounded parts	
- at the side - downwards • for live parts - forwards - upwards - upwards - downwards - at the side - domnections/ Terminals  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts  Safety related data  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  Product function positively driven operation according to SN 31920  T1 value for proof test interval or service life according to  T1 value for proof test interval or service life according to  10 mm  10 mm  10 mm  22 (0.5 4 mm²)  2x (0.5 4 mm²)  2x (0.5 4 mm²)  2x (0.5 2.5		10 mm
- at the side - downwards • for live parts - forwards - upwards - upwards - downwards - at the side - domnections/ Terminals  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts  Safety related data  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  Product function positively driven operation according to SN 31920  T1 value for proof test interval or service life according to  T1 value for proof test interval or service life according to  10 mm  10 mm  10 mm  22 (0.5 4 mm²)  2x (0.5 4 mm²)  2x (0.5 4 mm²)  2x (0.5 2.5	— upwards	10 mm
- downwards  • for live parts  - forwards  - upwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - finely stranded without core end processing  • for AWG cables for auxiliary contacts  2x (0.5 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 12)  Safety related data  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  B10 value with high demand rate according to SN 31920  product function positively driven operation according to [EC 60947-5-1]  IEC 61508  T1 value for proof test interval or service life according to 20 a	·	
• for live parts  — forwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts  2x (0.5 2.5 mm²)  • for AWG cables for auxiliary contacts  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  B10 value with high demand rate according to SN 31920  product function positively driven operation according to EC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to  20 a		
- forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 6 mm   Connections/ Terminals  type of electrical connection for auxiliary and control circuit spring-loaded terminals  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded 2x (0,5 4 mm²)  - finely stranded with core end processing 2x (0,5 2,5 mm²)  - finely stranded without core end processing 2x (0,5 2,5 mm²)  • for AWG cables for auxiliary contacts 2x (20 12)  Safety related data  proportion of dangerous failures  • with low demand rate according to SN 31920 40 %  • with high demand rate according to SN 31920 73 %  failure rate [FIT] with low demand rate according to SN 31920 1000 FIT 31920  B10 value with high demand rate according to SN 31920 Yes  EIC 61508  T1 value for proof test interval or service life according to 20 a		TO THIS
- upwards 10 mm - downwards 10 mm - at the side 6 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded 2x (0,5 4 mm²)  - finely stranded with core end processing 2x (0.5 2.5 mm²)  - finely stranded without core end processing 2x (0.5 2.5 mm²)  • for AWG cables for auxiliary contacts 2x (20 12)  Safety related data  proportion of dangerous failures  • with low demand rate according to SN 31920 40 %  • with high demand rate according to SN 31920 73 %  failure rate [FIT] with low demand rate according to SN 31920 1000 000; With 0.3 x le  product function positively driven operation according to Yes  T1 value for proof test interval or service life according to 20 a	•	10 mm
- downwards		
- at the side 6 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit spring-loaded terminals  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing • for AWG cables for auxiliary contacts  2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)  2x (20 12)  Safety related data  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  B10 value with high demand rate according to SN 31920  Product function positively driven operation according to [EC 60947-5-1]  IEC 61508  T1 value for proof test interval or service life according to 20 a		
type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts  Safety related data  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  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  For demand rate according to SN 31920  For demand rate according to SN 31920  T1 value for proof test interval or service life according to  2x (0,5 4 mm²)  2x (0,5 4 mm²)  2x (0.5 2.5 mm²)  2x (20 12)  Safety related data  proportion of dangerous failures  • with low demand rate according to SN 31920  T3 %  failure rate [FIT] with low demand rate according to SN 31920  For demand rate according to SN 31920  T 000 000; With 0.3 x le  Yes  FIC 61508  T1 value for proof test interval or service life according to		
type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts  2x (0.5 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 12)  Safety related data  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  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  EC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a	20.000	6 mm
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) — finely stranded without core end processing • for AWG cables for auxiliary contacts  2x (20 12)  Safety related data  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  1000 FIT  31920  B10 value with high demand rate according to SN 31920  Product function positively driven operation according to Yes  IEC 61508  T1 value for proof test interval or service life according to  2x (0.5 4 mm²) 2x (0.5 2.5 mm		
• for auxiliary contacts     — solid or stranded     — finely stranded with core end processing     — finely stranded with out core end processing     — finely stranded without core end processing     • for AWG cables for auxiliary contacts     2x (0.5 2.5 mm²)     • for AWG cables for auxiliary contacts     2x (20 12)  Safety related data  proportion of dangerous failures     • with low demand rate according to SN 31920     • with high demand rate according to SN 31920     73 %  failure rate [FIT] with low demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  Product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a		spring-loaded terminals
solid or stranded finely stranded with core end processing finely stranded without core end processing 2x (0.5 2.5 mm²) 2x (0.5 2.5		
- finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts  2x (0.5 2.5 mm²)  2x (20 12)  Safety related data  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  B10 value with high demand rate according to SN 31920  product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a	•	
— finely stranded without core end processing  • for AWG cables for auxiliary contacts  2x (20 12)  Safety related data  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  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a	— solid or stranded	
• for AWG cables for auxiliary contacts  2x (20 12)  Safety related data  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  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a		
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  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a	<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
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  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a	for AWG cables for auxiliary contacts	2x (20 12)
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>product function positively driven operation according to IEC 60947-5-1</li> <li>IEC 61508</li> <li>T1 value for proof test interval or service life according to 20 a</li> </ul>	Safety related data	
with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a	proportion of dangerous failures	
failure rate [FIT] with low demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a	<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
31920  B10 value with high demand rate according to SN 31920  product function positively driven operation according to IEC 60947-5-1  IEC 61508  T1 value for proof test interval or service life according to 20 a	<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
product function positively driven operation according to IEC 60947-5-1 IEC 61508 T1 value for proof test interval or service life according to 20 a		100 FIT
product function positively driven operation according to IEC 60947-5-1 IEC 61508 T1 value for proof test interval or service life according to 20 a	B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
IEC 60947-5-1 IEC 61508 T1 value for proof test interval or service life according to 20 a		
T1 value for proof test interval or service life according to 20 a		
	IEC 61508	
120 01000	T1 value for proof test interval or service life according to IEC 61508	20 a

**Electrical Safety** 

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

IP20

finger-safe, for vertical contact from the front

Approvals Certificates

## **General Product Approval**







Confirmation





**General Product Approval** 

**EMV** 

**Test Certificates** 

Marine / Shipping

<u>KC</u>





Special Test Certificate

Type Test Certificates/Test Report



## Marine / Shipping













other

**Environment** 

**Miscellaneous** 

Confirmation

EPD Typ II/III (with life cylce assessment)

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RH2140-2AF00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2140-2AF00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2AF00

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

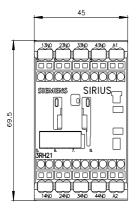
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2140-2AF00&lang=en

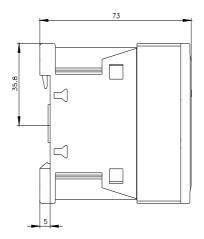
Characteristic: Tripping characteristics, I2t, Let-through current

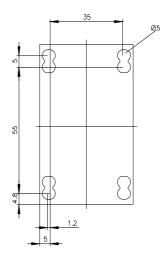
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2AF00/c

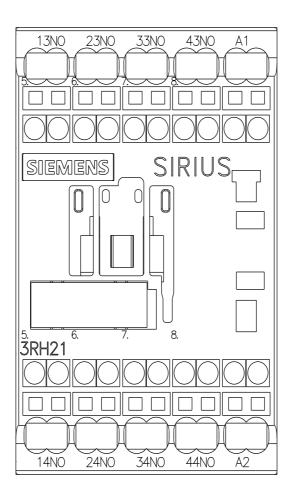
Further characteristics (e.g. electrical endurance, switching frequency)

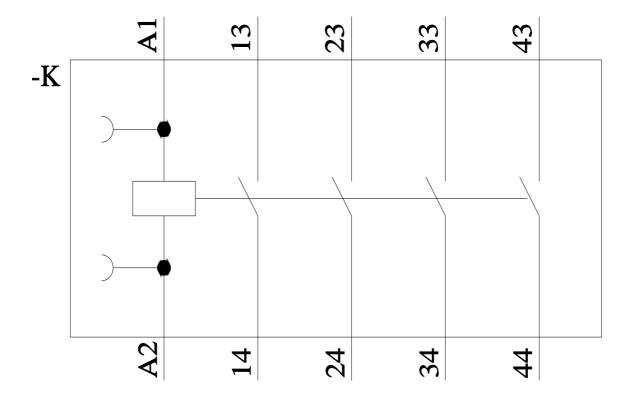
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-2AF00&objecttype=14&gridview=view1











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