SIEMENS

Data sheet

3RH2140-1AN20

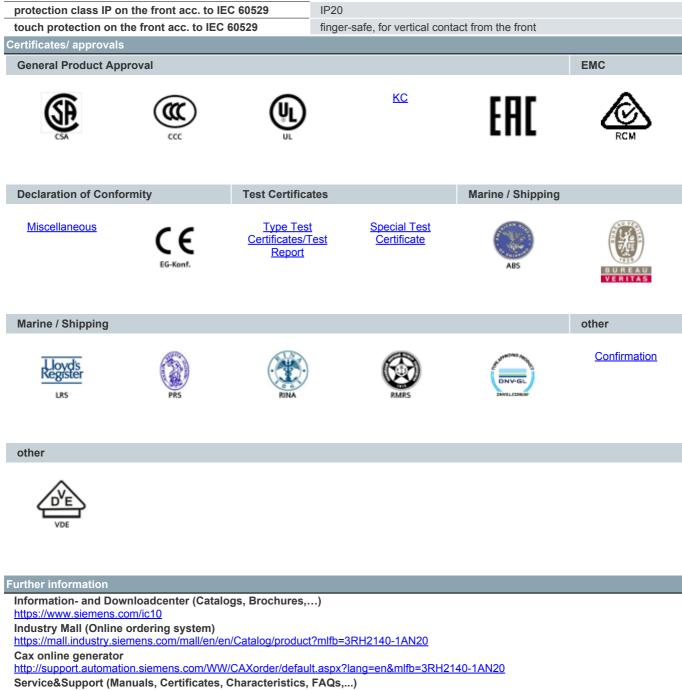


Contactor relay, 4 NO, 220 V AC, 50 / 60 Hz, Size S00, screw terminal

product brand name SIRUS product disignation Auxiliary contactor product type designation 3RH2 Control tochnical data 500 size of contactor 500 product extension auxiliary switch Yes insulation voltage with degree of pollution 3 at AC rated value 680 V degree of pollution 3 super voltage resistance at rectangular impulse 6 kV • at AC 7.3g / 5 ms, 4.7g / 10 ms shock resistance at rectangular impulse 30 000 000 • at AC 11.4g / 5 ms, 7.3g / 10 ms mechanical service life (switching cycles) 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 0000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code acc. to IEC 81346-2 K Substance Prohibitance (Date) 0 1.10.2009 00:00:00 Ambient conditions -25 +60 °C • ambient temperature duing operation -25 +60 °C • at BC 10 0000 1/h • at C 10 0000 1/h • at BC 2000 m			
product type designation 3RH2 General tochnical data size of contactor product extension auxiliary switch Yes 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 6 kV • at AC 7.3g / 5 ms, 4,7g / 10 ms mechanical service life (switching cycles) 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 30 000 000 • of the contactor with added electronically optimized substance Prohibitance (Date) 10 000 000 typical 01.10.2009 00:00:00 Ambient conditions -25 +60 °C installation altitude at height above sea level maximum 2 000 m • at AC 10 000 1/h • at DC 20 V • at DC 20 V • at OH zrated value 220 V • at OH zrated value 220 V • at OH zrated value 220 V • at OH zrated value 20 V	product brand name	SIRIUS	
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size of contactor S00 product extension auxiliary switch Yes 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 6 kV • at AC 7,3g / 5 ms, 4,7g / 10 ms mechanical service life (switching cycles) 11,4g / 5 ms, 7,3g / 10 ms • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 2 000 m • ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m • ambient temperature during operation -25 +60 °C • ambient temperature during storage -55 +80 °C Mali circuit 10 000 1/h • at AC 10 000 1/h • at AC 10 000 1/h • at AC 200 V • at AC 200 V • at AC 200 V • at AC 10 000 1/h • at AC 200 V • at AC 200 V • at AC 200 V <th></th> <th>3RH2</th>		3RH2	
product extension auxiliary switch Yes 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 6 kV • at AC 7.3g / 5 ms, 4.7g / 10 ms shock resistance with sine pulse 11,4g / 5 ms, 7.3g / 10 ms • of contactor typical 30 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 installation altitude at height above sea level maximum 2 000 m • ambient temperature during operation -25 +60 °C • at AC 10 000 1/h • at AC 10 000 1/h • at AC 10 000 1/h • ambient temperature during operation -25 +60 °C • at AC 10 000 1/h • at AC	General technical data		
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surge voltage resistance rated value 6 KV shock resistance at rectangular impulse 7,3g / 5 ms, 4,7g / 10 ms e at AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse 11,4g / 5 ms, 7,3g / 10 ms e at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (switching cycles) 30 000 000 of the contactor with added electronically optimized auxiliary switch block typical 30 000 000 of the contactor with added auxiliary switch block typical 10 000 000 reference code acc. to IEC 81346-2 K Substance Prohibitance (Date) 01.10.2009 00:00:00 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m • ambient temperature during operation -25 +60 °C • ambient temperature during storage -55 +80 °C Main circuit 10 000 1/h no-load switching frequency 10 000 1/h • at AC 10 000 1/h • at AC 220 V • at AC 220 V • at 60 Hz rated value 220 V • at 60 Hz rated value 220 V • at 60 Hz rated value 220 V		690 V	
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• at AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse 11,4g / 5 ms, 7,3g / 10 ms • at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (switching cycles) 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 30 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code acc. to IEC 81346-2 K Substance Prohibitance (Date) 0 110.2009 00:00:00 Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation -25 +60 °C • ambient temperature during storage -55 +80 °C Main circuit 10 0000 1/h • at DC 200 V • at 60 Hz rated value 220 V •	surge voltage resistance rated value	6 kV	
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mechanical service life (switching cycles) autiliary switch lock typical • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 5 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code acc. to IEC 81346-2 K Substance Prohibitance (Date) 01.10.2009 00:00:00 Ambient conditions 2 000 m • ambient temperature during operation -25 +60 °C • ambient temperature during storage -55 +80 °C Main circuit 10 000 1/h • at AC 10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h • at BO C 220 V • at 60 Hz rated value 220 V • at 60 Hz rated value 220 V • at 60 Hz rated value 220 V • at 80 Hz rated value 220 V • 1 rated value 50 Hz	shock resistance with sine pulse		
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Substance Prohibitance (Date) 01.10.2009 00:00:00 Ambient conditions installation altitude at height above sea level maximum 2 000 m • ambient temperature during operation -25 +60 °C • ambient temperature during storage -55 +80 °C Main circuit -25 +80 °C no-load switching frequency -34 AC • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control	,	10 000 000	
Ambient conditions installation altitude at height above sea level maximum 2 000 m • ambient temperature during operation -25 +60 °C • ambient temperature during storage -55 +80 °C Main circuit -55 +80 °C no-load switching frequency • at AC • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control 10 000 1/h type of voltage of the control supply voltage AC • at 50 Hz rated value 220 V • at 60 Hz rated value 220 V • at 60 Hz rated value 220 V • at 60 Hz rated value 50 Hz	reference code acc. to IEC 81346-2	К	
installation altitude at height above sea level maximum 2 000 m • ambient temperature during operation -25 +60 °C • ambient temperature during storage -55 +80 °C Main circuit -55 +80 °C no-load switching frequency -6000 1/h • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control -220 V • at 50 Hz rated value 220 V • at 60 Hz rated value 220 V • at 60 Hz rated value 50 Hz	Substance Prohibitance (Date)	01.10.2009 00:00:00	
• ambient temperature during operation -25 +60 °C • ambient temperature during storage -55 +80 °C Main circuit -55 +80 °C no-load switching frequency -10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h Control circuit/ Control 10 000 1/h type of voltage of the control supply voltage AC • at 50 Hz rated value 220 V • at 60 Hz rated value 220 V • at 60 Hz rated value 50 Hz	Ambient conditions		
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 ambient temperature during storage -55 +80 °C Main circuit no-load switching frequency at AC at AC 10 000 1/h at DC 10 000 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 220 V at 60 Hz rated value 220 V 50 Hz 	 ambient temperature during operation 	-25 +60 °C	
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type of voltage of the control supply voltage AC control supply voltage at AC - • at 50 Hz rated value 220 V • at 60 Hz rated value 220 V control supply voltage frequency - • 1 rated value 50 Hz	• at DC	10 000 1/h	
type of voltage of the control supply voltage AC control supply voltage at AC - • at 50 Hz rated value 220 V • at 60 Hz rated value 220 V control supply voltage frequency - • 1 rated value 50 Hz	Control circuit/ Control		
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• at 50 Hz rated value 220 V • at 60 Hz rated value 220 V control supply voltage frequency 50 Hz			
control supply voltage frequency 50 Hz		220 V	
• 1 rated value 50 Hz	• at 60 Hz rated value	220 V	
• 1 rated value 50 Hz	control supply voltage frequency		
• 2 rated value 60 Hz	• 1 rated value	50 Hz	
	• 2 rated value	60 Hz	

operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	37 V·A
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	5.7 V·A
inductive power factor with the holding power of the coil	0.25
closing delay	
• at AC	8 33 ms
opening delay	000113
• at AC	4 15 ms
arcing time	10 15 ms
Auxiliary circuit	10 10 113
	1
number of NO contacts for auxiliary contacts	4
instantaneous contact	
identification number and letter for switching elements	40 E
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 1 current path at DC-12	
at 24 V rated value	10 A
• at 110 V rated value	3 A
 at 220 V rated value 	1 A
• at 440 V rated value	0.3 A
• at 600 V rated value	0.15 A
operational current with 2 current paths in series at DC-12	
• at 24 V rated value	10 A
 at 60 V rated value 	10 A
 at 110 V rated value 	4 A
 at 220 V rated value 	2 A
• at 440 V rated value	1.3 A
• at 600 V rated value	0.65 A
operational current with 3 current paths in series at	
DC-12	
 at 24 V rated value 	10 A
• at 60 V rated value	10 A
 at 110 V rated value 	10 A
at 220 V rated value	3.6 A
• at 440 V rated value	2.5 A
at 600 V rated value	1.8 A
operating frequency at DC-12 maximum	1 000 1/h
operational current at 1 current path at DC-13	
at 24 V rated value	10 A
• at 110 V rated value	1 A
at 220 V rated value	0.3 A
• at 440 V rated value	0.14 A
• at 600 V rated value	0.1 A
operational current with 2 current paths in series at DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	3.5 A
• at 110 V rated value	1.3 A
at 220 V rated value	0.9 A

at 440 V rated value	0.2 A
at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	
at 24 V rated value	10 A
• at 60 V rated value	4.7 A
at 110 V rated value	3 A
at 220 V rated value	1.2 A
at 440 V rated value	0.5 A
at 600 V rated value	0.26 A
operating frequency at DC-13 maximum	1 000 1/h
design of the miniature circuit breaker for short-circuit	C characteristic: 6 A; 0.4 kA
protection of the auxiliary circuit up to 230 V	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link for short-circuit protection of the	fuse gL/gG: 10 A
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
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	57.5 mm
width	45 mm
depth	73 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— 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
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
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 mm ²), 2x (0.75 2.5 mm ²)
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000; With 0.3 x le
proportion of dangerous failures	
with low demand rate acc. to SN 31920	40 %
with high demand rate acc. to SN 31920	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
product function positively driven operation acc. to IEC 60947-5-1	Yes
T1 value for proof test interval or service life acc. to IEC 61508	20 у



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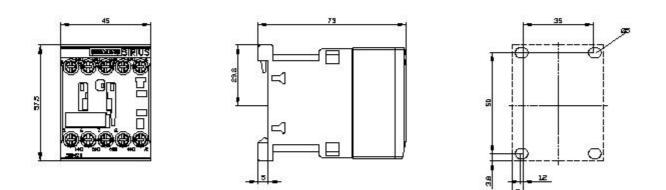
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

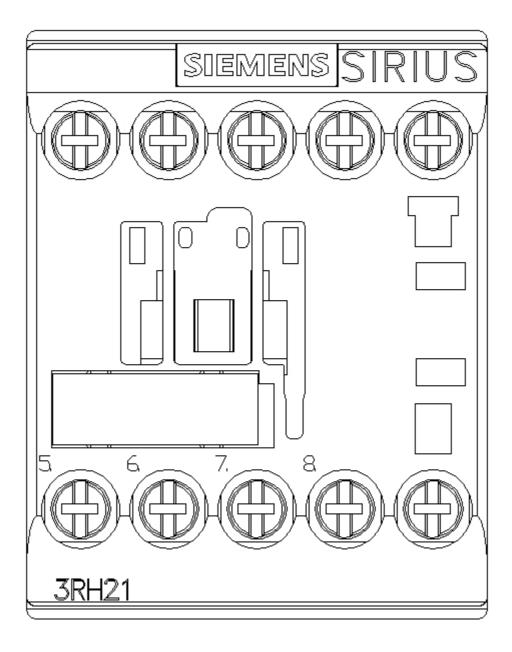
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2140-1AN20&lang=en

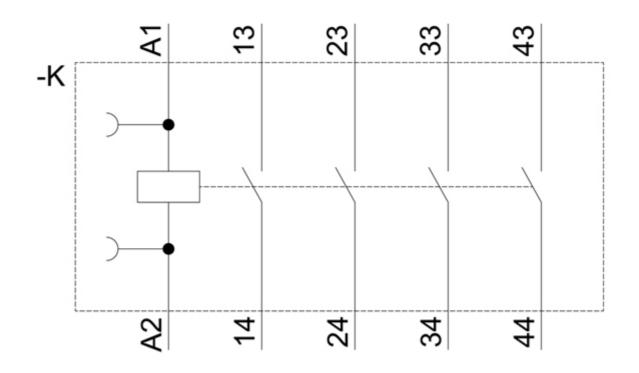
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1AN20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-1AN20&objecttype=14&gridview=view1







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