SIEMENS

Data sheet

3RH2131-1AP60



Contactor relay, 3 NO + 1 NC, 220 V AC, 50 Hz, 240 V, 60 Hz, Size S00, screw terminal

product brand name SIRUS product displantion Auxiliary contactor product type designation 3RH2 Canceral technical data S00 product extension auxiliary switch Yes power loss [W] for rated value of the current without load current 1.43 W insulation votage with degree of pollution 3 at AC rated value 600 V degree of pollution 3 surge voltage resistance at tectangular impulse 6 kV • at AC 7,3g / 5 ms, 4,7g / 10 ms mechanical service life (operating cycles) • of contactor with added electronically optimized auxilary switch block typical • of the contactor with added electronically optimized auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the		
product type designation 3RH2 General technical data 500 product extension auxiliary switch Yes power loss [M] for rated value of the current without load current share typical 1.43 W insulation voltage with degree of pollution 3 at AC rated value 680 V degree of pollution 3 surge voltage resistance rated value 68V shock resistance at rectangular impulse 6 kV et AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance at rectangular impulse 6 kV et AC 7,3g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) 0 000 000 e of contactor typical 30 000 000 e of the contactor with added electronically optimized auxilary switch block typical 1000 000 e of the contactor with added auxilary switch block typical 1000 000 e former code according to IEC 81346-2 K Substance Prohibitance (Date) 1001/2009 Ambient temperature -55 +60 °C e during operation -25 +60 °C e during operation -25 +60 °C e during step? Cocording to IEC 60068-2:30 <t< th=""><th>product brand name</th><th>SIRIUS</th></t<>	product brand name	SIRIUS
General technical data S00 size of contactor S00 product extension auxiliary switch Yes power loss [W] for rated value of the current without load current 1.43 W share typical 680 V degree of pollution 3 surge voltage resistance rated value 680 V shock resistance at rectangular impulse 6 k/V e at AC 7,3g / 5 ms, 4,7g / 10 ms shock resistance at rectangular impulse 7,3g / 5 ms, 7,3g / 10 ms e at AC 11,4g / 5 ms, 7,3g / 10 ms mechanical service life (operating cycles) 00 0000 of oth contactor typical 30 000 000 availiary switch block typical 100 0000 e of the contactor with added electronically optimized 30 000 000 availiary switch block typical 100 000 000 e ference code according to EC 81346-2 K Substance Prohibitance (Date) 100/1/2009 Ambient conditions 25 +60 °C relative humidity at 55 °C according to EC 6068-2-30 95 % maximum 10 % relative humidity at 55 °C according to EC 6068-2-30 95 % Main citcuit 10 0000 1/h e at DC 10 0000 1/h e at C 10 0000 1/h e at C 10 0000 1/h<		
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control supply voltage at AC 220 V • at 50 Hz rated value 220 V • at 60 Hz rated value 240 V control supply voltage frequency 240 V	Control circuit/ Control	
	type of voltage of the control supply voltage	AC
• at 60 Hz rated value 240 V control supply voltage frequency	control supply voltage at AC	
control supply voltage frequency	• at 50 Hz rated value	220 V
	• at 60 Hz rated value	240 V
• 1 rated value 50 Hz	control supply voltage frequency	
	• 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 VA
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	5.7 VA
inductive power factor with the holding power of the coil	0.25
closing delay	
• at AC	8 33 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
number of NO contacts for auxiliary contacts	3
instantaneous contact	3
identification number and letter for switching elements	31 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 24 v rated value at 110 V rated value	3A
at 110 V rated value at 220 V rated value	1A
at 220 V rated value 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	0.10 A
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	10.4
• at 24 V rated value	10 A
at 60 V rated value at 110 V rated value	3.5 A
at 110 V rated value at 220 V rated value	1.3 A
at 220 V rated value at 440 V rated value	0.9 A
 at 440 V rated value at 600 V rated value 	0.2 A 0.1 A
operational current with 3 current paths in series at DC-13	
operational current with 5 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 protection of the auxiliary circuit up to 230 V	C characteristic: 6 A; 0.4 kA
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 auxiliary switch required	fuse gL/gG: 10 A
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 DIN 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
	0 mm
for grounded parts forwards	10 mm
— forwards	
— 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 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12
Safety related data	
product function positively driven operation according to IEC 60947-5-1	Yes
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
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	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
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
Certificates/ approvals	
General Product Approval	

STA CAR		<u>Confirmation</u>	(UL)	<u>KC</u>	EHC		
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates			
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>		
Marine / Shipping							
ABS	B UREAU VERITAS		Llovd's Register uts	PRS	RINA		
Marine / Shipping	other		Railway	Environment			
RMRS	<u>Confirmation</u>	UDE VDE	Vibration and Shock	Environmental Con- firmations			
https://press.siemens.c Siemens is working of Please contact your lo EAC relevant market (Information on the pa https://support.industry Information- and Dow https://www.siemens.c Industry Mall (Online	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=3RH2131-1AP60						
Cax online generator				0			

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2131-1AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-1AP60

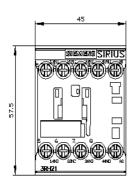
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2131-1AP60&lang=en

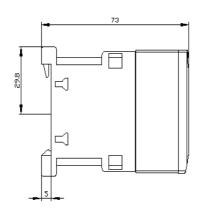
Characteristic: Tripping characteristics, I²t, Let-through current

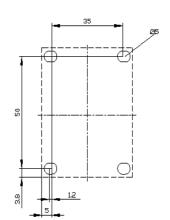
https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-1AP60/char

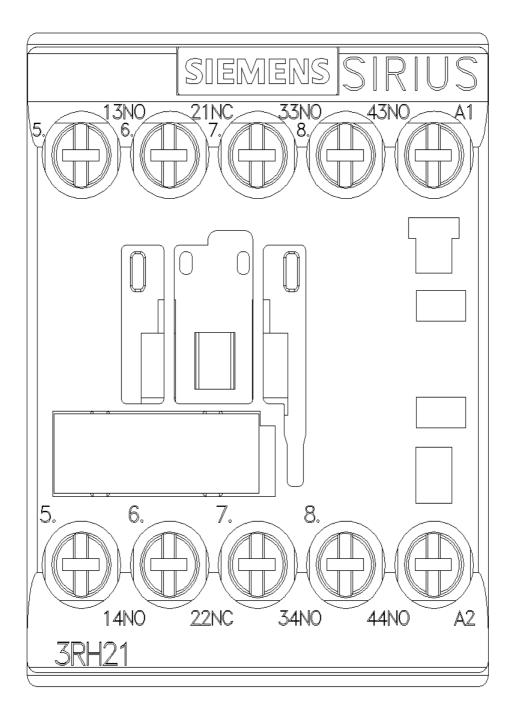
Further characteristics (e.g. electrical endurance, switching frequency)

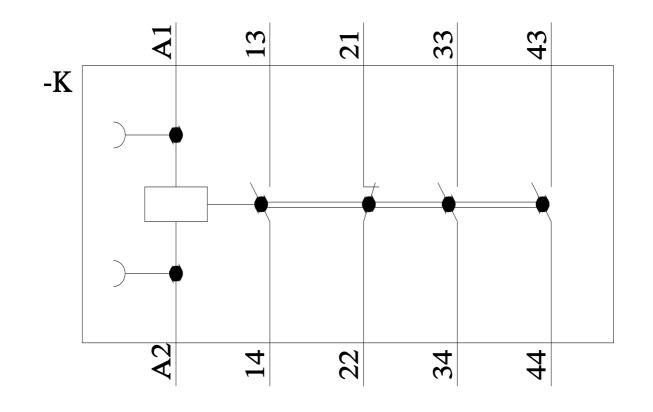
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