SIEMENS

Data sheet

3RT2017-4AK61



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 1 NO, 110 V AC, 50 Hz, 120 V 60 Hz, 3-pole, frame size S00 ring cable lug connection

size of contactor S00 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 1.5 W • at AC in hot operating state 1.5 W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6 kV • of auxiliary site notates according to EN 6097-1 400 V 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) 5000 000 • of the contactor with added electronically optimized 30 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 2.000 m mathematic extreme contactor with added auxiliary switch block typical 1		
product designation Power contactor 3RT2 product type designation 3RT2 size of contactor S00 product extension No • function module for communication No • function module for communication No • function module for communication No • auxiliary switch Yes power loss [W] for rate value of the current - • at AC in hot operating state per pole 0.5 W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 64V • of auxiliary circuit with degree of pollution 3 rated value 64V • of auxiliary circuit with degree of pollution 3 rated value 64V • of auxiliary circuit with degree of pollution 3 rated value 64V • of auxiliary circuit with degree of pollution 3 rated value 64V • of auxiliary circuit with degree of pollution 3 rated value 64V • of auxiliary circuit rated value 64V	product brand name	SIRIUS
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relative humidity at 55 °C according to IEC 60068-2-30 95 %	 during storage 	
maximum	relative humidity minimum	
Main circuit		95 %
	Main circuit	

number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 \
at AC-3e rated value maximum	690 \
operational current • at AC-1 at 400 V at ambient temperature 40 °C	22 A
rated value	22 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C	22 A
rated value	
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 / 9.9 A
 at AC-5b up to 400 V rated value at AC-6a 	9.9 A
 at AC-ba up to 230 V for current peak value n=20 rated 	7.2 A
value	1.2 1
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
— up to 690 V for current peak value n=20 rated	6.7 A
value	0.77
• at AC-6a	
— up to 230 V for current peak value n=30 rated	4.8 A
value — up to 400 V for current peak value n=30 rated	4.8 A
value — up to 500 V for current peak value n=30 rated	4.8 A
value — up to 690 V for current peak value n=30 rated	4.8 A
value minimum cross-section in main circuit at maximum AC-1	4 mm
rated value	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
 at 690 V rated value 	3.3 A
operational current	
at 1 current path at DC-1	00 4
— at 24 V rated value — at 110 V rated value	20 A 2.1 A
— at 220 V rated value	2.1 A 0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1 — at 24 V rated value	20 A
— at 24 V rated value — at 110 V rated value	20 A 20 A
— at 220 V rated value	20 A 20 A
— at 440 V rated value	1.3 A

'n

— at 600 V rated value	1 A
• at 1 current path at DC-3 at DC-5	22.4
— at 24 V rated value	20 A
— at 110 V rated value	0.15 A
with 2 current paths in series at DC-3 at DC-5	00.4
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
• with 3 current paths in series at DC-3 at DC-5	22.4
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power • at AC-3	
• at AC-3 — at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	0.0 KW
• at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
 at 400 V rated value 	2 kW
 at 690 V rated value 	2.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	2.8 kVA
 up to 400 V for current peak value n=20 rated value 	4.9 kVA
 up to 500 V for current peak value n=20 rated value 	6.2 kVA
 up to 690 V for current peak value n=20 rated value 	8 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1.9 kVA
• up to 400 V for current peak value n=30 rated value	3.3 kVA
• up to 500 V for current peak value n=30 rated value	4.1 kVA
• up to 690 V for current peak value n=30 rated value	5.7 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
	1 000 1/h
 at AC-1 maximum 	
 at AC-1 maximum at AC-2 maximum 	750 1/h
• at AC-2 maximum	750 1/h
at AC-2 maximumat AC-3 maximum	750 1/h 750 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum 	750 1/h 750 1/h 750 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 	750 1/h 750 1/h 750 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	750 1/h 750 1/h 750 1/h 250 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage	750 1/h 750 1/h 750 1/h 250 1/h
 at AC-2 maximum at AC-3 maximum at AC-3 e maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value 	750 1/h 750 1/h 750 1/h 250 1/h AC
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated 	750 1/h 750 1/h 750 1/h 250 1/h AC 110 V
 at AC-2 maximum at AC-3 maximum at AC-3 e maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC 	750 1/h 750 1/h 750 1/h 250 1/h AC 110 V 120 V
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz 	750 1/h 750 1/h 750 1/h 250 1/h AC 110 V 120 V 0.8 1.1
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz 	750 1/h 750 1/h 750 1/h 250 1/h AC 110 V 120 V
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz 	750 1/h 750 1/h 750 1/h 250 1/h AC 110 V 120 V 0.8 1.1

• at 60 Hz	36 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	5.9 VA
• at 60 Hz	5.9 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
• at 60 Hz	0.24
closing delay	0.24
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
 at 400 V rated value 	3 A
• at 500 V rated value	2 A
 at 690 V rated value 	1 A
operational current at DC-12	
 at 24 V rated value 	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
 at 110 V rated value 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	1 A
 at 600 V rated value 	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	11 A
• at 600 V rated value	11 A
yielded mechanical performance [hp]	
for single-phase AC motor at 110/120 V reted value	0.5 hp
— at 110/120 V rated value — at 230 V rated value	0.5 hp
 at 230 V rated value for 3-phase AC motor 	2 hp
at 200/208 V rated value	3 hp
— at 220/200 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link • for short circuit protection of the main circuit	
 for short-circuit protection of the main circuit — with type of coordination 1 required 	aC: 504 (600)/ 100k4) aM: 204 (600)/ 100k4) BS89: 254 (445)/ 00k4)
 — with type of coordination 1 required — with type of assignment 2 required 	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
- with type of assignment 2 required	gg. 20A (090V, 100KA), alvi. 10A (090V, 100KA), 6566. 20A (415V, 80KA)
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)

required	
Installation/ mounting/ dimensions	
mounting position fastening method	+/-180° 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 according to DIN EN
lastening method	60715
 side-by-side mounting 	Yes
height	58 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 main current circuit	Ring cable lug connection
 for auxiliary and control circuit 	ring terminal lug connection
at contactor for auxiliary contacts	Ring cable lug connection
of magnet coil	Ring cable lug connection
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes; with 3RH29
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	1 000 000
with low demand rate according to SN 31920	40 %
 with high 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	100 FIT
31920 T1 value for proof test interval or service life according to	
IEC 61508 protection class IP on the front according to IEC	20 y IP00
60529 suitability for use	
safety-related switching OFF	Yes
Certificates/ approvals	
General Product Approval	
General Product Approval	
Confirmation Confirmation	
EMC Safety/Safety of Declaration Machinery	of Conformity Test Certificates

RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					
ABS	B D R E A U VERITAS		Lloyds Register urs	PRS	RINA
Marine / Shipping	other			Railway	
KMRS	<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	
Further information					

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-4AK61

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-4AK61

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

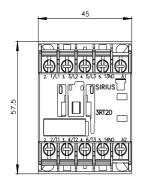
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-4AK61

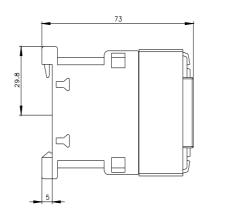
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-4AK61&lang=en

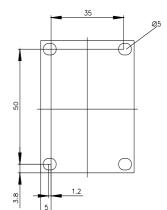
Characteristic: Tripping characteristics, I2t, Let-through current

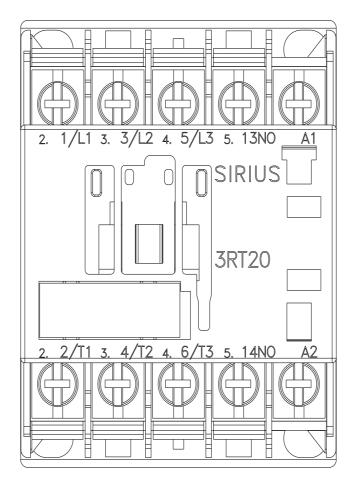
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-4AK61/char

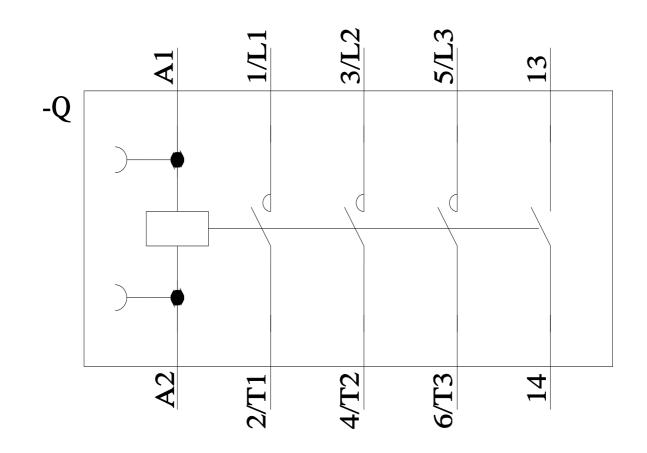
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-4AK61&objecttype=14&gridview=view1











last modified:

11/21/2022 🖸