## SIEMENS

## Data sheet

## 3RT2037-1AK60-1AA0



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, upright mounting position

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S2			
product extension				
<ul> <li>function module for communication</li> </ul>	No			
auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	11.4 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W			
<ul> <li>without load current share typical</li> </ul>	6.5 W			
type of calculation of power loss depending on pole	quadratic			
insulation voltage				
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V			
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V			
surge voltage resistance				
<ul> <li>of main circuit rated value</li> </ul>	6 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV			
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V			
shock resistance at rectangular impulse				
• at AC	11.8g / 5 ms, 7.4g / 10 ms			
shock resistance with sine pulse				
• at AC	18.5g / 5 ms, 11.6g / 10 ms			
mechanical service life (operating cycles)				
<ul> <li>of contactor typical</li> </ul>	10 000 000			
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000			
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	10/01/2014			
Weight	1.001 kg			
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 maximum	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 V
• at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated value	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	05 A
- at 400 V rated value	65 A
- at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A 70.4 A
at AC-5a up to 690 V rated value	70.4 A 53.9 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	55.9 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	56.9 A
— up to 400 V for current peak value n=20 rated value	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
• at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A

— at 600 V rated value	1.4 A				
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	35 A				
— at 60 V rated value	6 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.1 A				
— at 600 V rated value	0.06 A				
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	55 A				
— at 60 V rated value	45 A				
— at 110 V rated value	25 A				
— at 220 V rated value	5 A				
— at 440 V rated value	0.27 A				
— at 600 V rated value	0.16 A				
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	55 A				
— at 60 V rated value	55 A				
— at 110 V rated value	55 A				
— at 220 V rated value	25 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.35 A				
operating power					
• at AC-2 at 400 V rated value	30 kW				
• at AC-3					
— at 230 V rated value	18.5 kW				
— at 400 V rated value	30 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	37 kW				
• at AC-3e					
— at 230 V rated value	18.5 kW				
— at 400 V rated value	30 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	37 kW				
operating power for approx. 200000 operating cycles at AC- 4					
• at 400 V rated value	14.7 kW				
• at 690 V rated value	20 kW				
operating apparent power at AC-6a					
up to 230 V for current peak value n=20 rated value	22.6 kVA				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	39.4 kVA				
	00:4 10/1				
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	49.2 kVA				
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul>					
	49.2 kVA				
• up to 690 V for current peak value n=20 rated value	49.2 kVA				
• up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a	49.2 kVA 56.1 kVA				
up to 690 V for current peak value n=20 rated value     operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value	49.2 kVA 56.1 kVA 15.1 kVA				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to</li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> </ul> </li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> </ul> </li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> </ul> </li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value				
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<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul> </li> <li>short-time withstand current in cold operating state up to 40 °C         <ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> </ul> </li> </ul>	49.2 kVA 56.1 kVA 15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA 1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 35 000 1/h 800 1/h				

● at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
at 50 Hz rated value     at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	18.5 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	40.4
at 24 V rated value	10 A
at 48 V rated value	2 A 2 A
at 60 V rated value	2 A 1 A
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	0.9 A
■ at 120 v tateu value	0.9 A 0.3 A
at 220 V rated value	
at 220 V rated value     at 600 V rated value	
• at 600 V rated value	0.1 A
at 600 V rated value contact reliability of auxiliary contacts	
at 600 V rated value     contact reliability of auxiliary contacts UL/CSA ratings	0.1 A
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
t 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor         at 480 V rated value	0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 65 A
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.1 A 1 faulty switching per 100 million (17 V, 1 mA)

• for single-phase AC motor					
- at 110/120 V rated value	5 hp				
— at 230 V rated value	10 hp				
• for 3-phase AC motor	io np				
- at 200/208 V rated value	20 hp				
— at 220/230 V rated value	•				
— at 460/480 V rated value	20 hp				
— at 575/600 V rated value	50 hp 50 hp				
contact rating of auxiliary contacts according to UL	A600 / P600				
Short-circuit protection					
design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA				
of the auxiliary circuit up to 230 V					
design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit</li> </ul>					
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)				
- with type of assignment 2 required	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)				
Installation/ mounting/ dimensions					
mounting position	standing, on horizontal mounting surface				
fastening method side-by-side mounting	Yes				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
height	114 mm				
width	55 mm				
depth	130 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	- Chinin				
— forwards	10 mm				
— upwards	10 mm				
— at the side	6 mm				
— downwards	10 mm				
for live parts	10 mm				
— forwards	10 mm				
	10 mm				
— upwards — downwards					
— at the side	10 mm 6 mm				
Connections/ Terminals					
type of electrical connection	screw type terminals				
for main current circuit     for auxiliant and control circuit	screw-type terminals				
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliany contactor</li> </ul>	screw-type terminals				
at contactor for auxiliary contacts	Screw-type terminals				
of magnet coil     type of connectable conductor croce sections	Screw-type terminals				
type of connectable conductor cross-sections					
for main contacts     solid or stranded	$2x/(1 - 25 \text{ mm}^2) + x/(1 - 50 \text{ mm}^2)$				
<ul> <li>— solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	$2x (1 35 \text{ mm}^2), 1x (1 50 \text{ mm}^2)$ $2x (1 25 \text{ mm}^2) 1x (1 25 \text{ mm}^2)$				
- finely stranded with core end processing	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )				
for AWG cables for main contacts	2x (18 2), 1x (18 1)				
connectable conductor cross-section for main contacts	1 25 mm <sup>2</sup>				
finely stranded with core end processing	1 35 mm²				
connectable conductor cross-section for auxiliary contacts	0.5 0.5 mm²				
solid or stranded	0.5 2.5 mm <sup>2</sup>				
finely stranded with core end processing	0.5 2.5 mm²				
type of connectable conductor cross-sections					
for auxiliary contacts					
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				

<ul> <li>for AWG cables f</li> </ul>	or auxiliary contacts		2x (20	16), 2x (18 14)			
	d connectable conducto	or cross	ZX (20 10), ZX (10 14)				
section							
<ul> <li>for main contacts</li> </ul>	;		18 1				
<ul> <li>for auxiliary containing</li> </ul>	iliary contacts		20 1	4			
Safety related data							
product function							
<ul> <li>mirror contact ac</li> </ul>	cording to IEC 60947-4-1		Yes				
<ul> <li>positively driven</li> </ul>	operation according to IEC	C 60947-5-1	No				
<ul> <li>suitable for safety</li> </ul>	y function		Yes				
suitability for use safety	-related switching OFF		Yes				
service life maximum			20 a				
test wear-related serv			Yes				
proportion of dangero	proportion of dangerous failures						
<ul> <li>with low demand</li> </ul>	rate according to SN 319	20	40 %				
with high demand	d rate according to SN 319	920	73 %				
B10 value with high de	emand rate according to	SN 31920	1 000 0	000			
	ow demand rate accord	ing to SN	100 FI	Т			
<b>31920</b> ISO 13849							
	to ISO 13849-1		3				
device type according	cording to ISO 13849-1	00066271/	3 Yes				
IEC 61508	Jording to 130 13049-2 II		165				
safety device type acc	cording to IEC 61508-2		Туре А				
Electrical Safety			Турсл	t			
	the front according to I	EC 60529	IP20				
-	the front according to IEC			safe, for vertical contact	from the front		
Approvals Certificates			J	,			
General Product App	roval						
$(\mathbf{x})$	CE	UK		Confirmation	(IL)	<u>KC</u>	
	EG-Konf.	CA			UL		
General Product Ap- proval	EMV	Test Certificate	s		Marine / Shipping		
EHC	RCM	<u>Type Test Certi</u> ates/Test Repo	<u>fic-</u> ort	<u>Special Test Certific-</u> <u>ate</u>	ABS	B U REAU VERITAS	
Marine / Shipping						other	
	Lloyd's Register urs	PRS		RINA	RMRS	<u>Confirmation</u>	
other	Railway	Dangerous goo	ds	Environment			
<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	Transport Informa	<u>ation</u>	Environmental Con- firmations			

Further information 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=3RT2037-1AK60-1AA0 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AK60-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AK60-1AA0

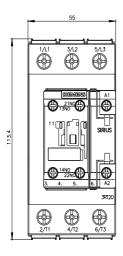
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

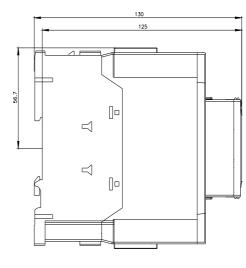
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1AK60-1AA0&lang=en

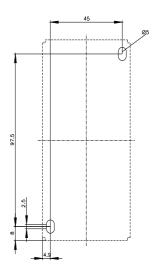
Characteristic: Tripping characteristics, I2t, Let-through current

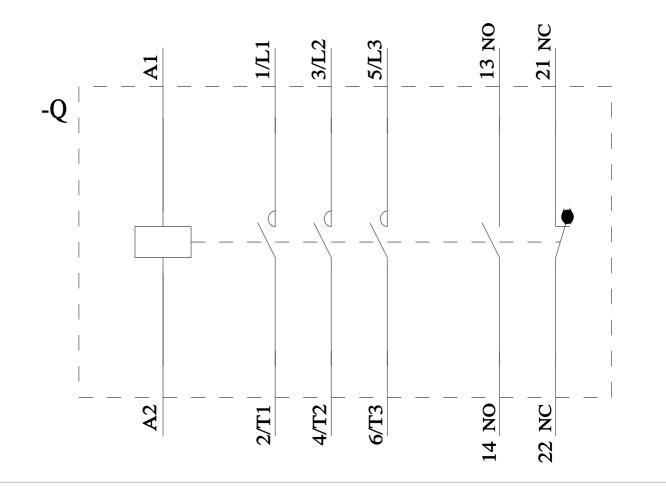
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AK60-1AA0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AK60-1AA0&objecttype=14&gridview=view1









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