SIEMENS

Data sheet 3RT2038-1AK60



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	S2		
product extension			
 function module for communication 	No		
auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	17.1 W		
 at AC in hot operating state per pole 	5.7 W		
without load current share typical	6.5 W		
type of calculation of power loss depending on pole	quadratic		
insulation voltage			
 of main circuit with degree of pollution 3 rated value 	690 V		
of auxiliary circuit with degree of pollution 3 rated value	690 V		
surge voltage resistance			
 of main circuit rated value 	6 kV		
of auxiliary circuit rated value	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)			
 of contactor typical 	10 000 000		
 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 according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2014		
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 %		
Environmental footprint			

Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	236 kg
Global Warming Potential [CO2 eq] during manufacturing	4.11 kg
Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation	233 kg
Global Warming Potential [CO2 eq] during operation Global Warming Potential [CO2 eq] after end of life	-0.635 kg
Main circuit	-0.000 kg
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	3
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	90 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	90 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	80 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
• at AC-3e	80 A
— at 400 V rated value	80 A
— at 500 V rated value — at 690 V rated value	58 A
at AC-4 at 400 V rated value	55 A
at AC-5 up to 690 V rated value	79.2 A
• at AC-5b up to 400 V rated value	66.4 A
• at AC-6a	00.171
— up to 230 V for current peak value n=20 rated value	70 A
— up to 400 V for current peak value n=20 rated value	70 A
— up to 500 V for current peak value n=20 rated value	70 A
— up to 690 V for current peak value n=20 rated value	58 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	46.7 A
— up to 400 V for current peak value n=30 rated value	46.7 A
 up to 500 V for current peak value n=30 rated value 	46.7 A
— up to 690 V for current peak value n=30 rated value	46.7 A
minimum cross-section in main circuit at maximum AC-1 rated value	35 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	30 A
at 690 V rated value	24 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
with 2 current paths in series at DC-1 at 24 V rated value.	55 A
at 24 V rated value at 60 V rated value	55 A 45 A
— at 100 V rated value — at 110 V rated value	45 A
— at 110 V rated value — at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
- man o can one patrio in correct at DO-1	

— 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				
 at 1 current path at DC-3 at DC-5 					
— 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				
 with 2 current paths in series at DC-3 at DC-5 					
— 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				
 with 3 current paths in series at DC-3 at DC-5 					
— 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 	37 kW				
• at AC-3					
— at 230 V rated value	22 kW				
— at 400 V rated value	37 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	45 kW				
• at AC-3e					
— at 230 V rated value	22 kW				
— at 400 V rated value	37 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	45 kW				
operating power for approx. 200000 operating cycles at AC-					
at 400 V rated value	15.8 kW				
at 690 V rated value	21.8 kW				
operating apparent power at AC-6a					
up to 230 V for current peak value n=20 rated value	27.8 kVA				
up to 400 V for current peak value n=20 rated value	48.4 kVA				
• up to 500 V for current peak value n=20 rated value	60.6 kVA				
• up to 690 V for current peak value n=20 rated value	69.3 kVA				
operating apparent power at AC-6a					
up to 230 V for current peak value n=30 rated value	18.6 kVA				
• up to 400 V for current peak value n=30 rated value	32.3 kVA				
• up to 500 V for current peak value n=30 rated value	40.4 kVA				
• up to 690 V for current peak value n=30 rated value	55.8 kVA				
short-time withstand current in cold operating state up to 40 °C					
limited to 1 s switching at zero current maximum	1 298 A; Use minimum cross-section acc. to AC-1 rated value				
limited to 5 s switching at zero current maximum	898 A; Use minimum cross-section acc. to AC-1 rated value				
limited to 10 s switching at zero current maximum	640 A; Use minimum cross-section acc. to AC-1 rated value				
limited to 30 s switching at zero current maximum	414 A; Use minimum cross-section acc. to AC-1 rated value				
limited to 60 s switching at zero current maximum	333 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency	, , , , , , , , , , , , , , , , , , , ,				
• at AC	5 000 1/h				

operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3e maximum • at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage	700 1/h 350 1/h 500 1/h 500 1/h 150 1/h
at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control	350 1/h 500 1/h 500 1/h
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control	500 1/h 500 1/h
at AC-3e maximum at AC-4 maximum Control circuit/ Control	500 1/h
at AC-4 maximum Control circuit/ Control	
Control circuit/ Control	150 1/h
type of voltage of the control supply voltage	
	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
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	0.0 1.1
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	100 VA
at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	0.00
• at 50 Hz	18.5 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	10.5 VA
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	0.00
• at AC	10 80 ms
opening delay	10 00
• 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	1A
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	1A
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
at 60 V rated value	2 A
• at 110 V rated value	1A
• 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)

at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method fastening method fastening method side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — downwards	65 A 62 A 5 hp 15 hp 20 hp 25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) gG: 10 A (500 V, 1 kA)			
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit — with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method fastening method fastening method fastening method side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — downwards	62 A 5 hp 15 hp 20 hp 25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
• at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor	62 A 5 hp 15 hp 20 hp 25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	5 hp 15 hp 20 hp 25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 6575/600 V rated value — with type of axiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — downwards	15 hp 20 hp 25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
— at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	15 hp 20 hp 25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
- at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — downwards	15 hp 20 hp 25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — downwards	20 hp 25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
— at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
— at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	25 hp 50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
— at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	50 hp 60 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
— at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	G0 hp A600 / P600 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	GG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
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— with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
— with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position				
Installation/ mounting/ dimensions mounting position • fastening method • fastening method side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards				
fastening method fastening method side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards				
fastening method side-by-side mounting height width depth required spacing	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
fastening method side-by-side mounting height width depth required spacing	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	Yes			
width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	114 mm			
depth required spacing • with side-by-side mounting — forwards — upwards — downwards	55 mm			
required spacing • with side-by-side mounting — forwards — upwards — downwards	130 mm			
with side-by-side mountingforwardsupwardsdownwards				
— forwards — upwards — downwards				
— upwards — downwards	10 mm			
— downwards	10 mm			
	10 mm			
— at the side	0 mm			
for grounded parts				
	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	screw-type terminals			
for auxiliary and control circuit	screw-type terminals			
at contactor for auxiliary contacts	Screw-type terminals			
• of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
for AWG cables for main contacts				
connectable conductor cross-section for main contacts	2x (18 2), 1x (18 1)			
finely stranded with core end processing	2x (18 2), 1x (18 1)			
connectable conductor cross-section for auxiliary contacts	2x (18 2), 1x (18 1) 1 35 mm ²			
• solid or stranded				

 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 mm²), 2x (0.75 2.5 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)			
AWG number as coded connectable conductor cross section				
• for main contacts	18 1			
 for auxiliary contacts 	20 14			
Safety related data				
product function				
 mirror contact according to IEC 60947-4-1 	Yes			
 positively driven operation according to IEC 60947-5-1 	No			
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism			
proportion of dangerous failures				
 with low demand rate according to SN 31920 	40 %			
 with high demand rate according to SN 31920 	73 %			
B10 value with high demand rate according to SN 31920	1 000 000			
failure rate [FIT] with low demand rate according to SN 31920	100 FIT			
IEC 61508				
T1 value				
 for proof test interval or service life according to IEC 61508 	20 a			
Electrical Safety				

IP20

Approvals Certificates

General Product Approval





protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529





finger-safe, for vertical contact from the front





General Product Approval	EMV	Functional Saftev	Test Certificates

<u>KC</u>





Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Dangerous Good Environment



Confirmation

Confirmation

Transport Information



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=3RT2038-1AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-1AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AK60

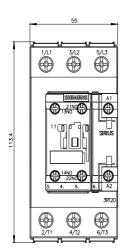
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

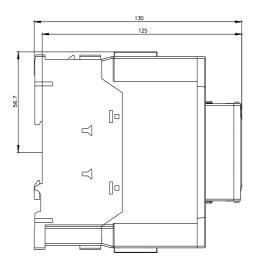
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2038-1AK60&lang=en

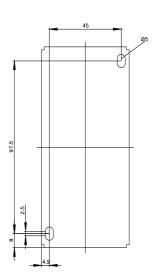
Characteristic: Tripping characteristics, I2t, Let-through current

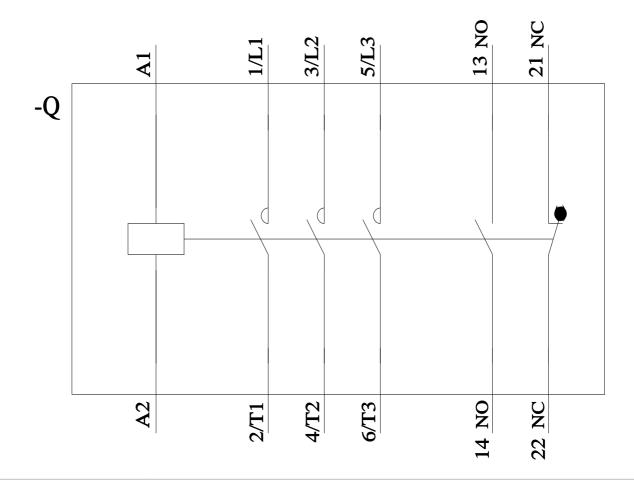
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AK60/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-1AK60&objecttype=14&gridview=view1









last modified: 3/15/2024 🖸