SIEMENS

Data sheet 3RT2037-1NF34



Power contactor, AC-3 65 A, 30 kW / 400 V 2 NO + 2 NC, 84-155 V AC / DC with varistor 3-pole, size S2 screw terminals

product type designation product type designation General technical data size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical Insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum auximum auximum auximum auximum auximum calculary switch block during operation • duri	product brand name	SIRIUS
Section Sect	product designation	Power contactor
size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical Insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit value (6kV) surge voltage resistance • of main circuit rated value • of auxiliary circuit rated value • of the contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at DC • at AC • at DC • at AC • at DC • according to EN 60947-1 shock resistance with sine pulse • at AC • at DC • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor wit	product type designation	3RT2
product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) // Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation // Auxiliary switch block auxiliary switch block during operation // C // C	General technical data	
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insulation voltage	 at AC in hot operating state per pole 	3.8 W
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shock resistance at rectangular impulse • at AC • at DC • at AC • at DC • at AC • at BC • at AC • at BC • at AC • at BC • at BC	of auxiliary circuit rated value	6 kV
at AC at DC block resistance with sine pulse at AC at AC block resistance with sine pulse at AC block resistance with sine pulse at AC block resistance with sine pulse block resistance r		400 V
at DC shock resistance with sine pulse at AC at DC shock resistance with sine pulse at DC shock resistance with sine pulse at AC at DC shock resistance with sine pulse at DC shock resistance with sine pulse at AC shock resistance with sine pulse shock resistance with shock (switching cycles) shock resistance shock shoc	shock resistance at rectangular impulse	
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at DC 9.6g / 5 ms, 5.8g / 10 ms mechanical service life (switching cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation 9.6g / 5 ms, 5.8g / 10 ms 10 000 000 10 000 000 10 000 000 10 000 00	shock resistance with sine pulse	
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Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature ● during operation -25 +60 °C	Substance Prohibitance (Date)	10/01/2014
ambient temperature ● during operation -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
◆ during storage −55 +80 °C	 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 %
ain 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	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	80 A
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	80 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ 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	
— 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
at AC-5a up to 690 V rated value	70.4 A
at AC-5b up to 400 V rated value	53.9 A
• at AC-6a	
up to 230 V for current peak value n=20 rated value	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 38 A
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated 	38 A
value minimum cross-section in main circuit at maximum AC-1	25 mm²
rated value 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 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 110 V rated value	45 A

— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 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 110 V rated value	2.5 A
— at 220 V rated value	1A
	0.1 A
— at 440 V rated value	
— 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 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 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	OT RVV
— at 230 V rated value	18.5 kW
	30 kW
— at 400 V rated value	
— 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 400 V rated value at 690 V rated value	20 kW
	ZU NVV
operating apparent power at AC-6a	22.6 kV/A
up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value	22.6 kVA
up to 400 V for current peak value n=20 rated value	39.4 kVA
• up to 500 V for current peak value n=20 rated value	49.2 kVA
up to 690 V for current peak value n=20 rated value	56.1 kVA
operating apparent power at AC-6a	45.4104
• up to 230 V for current peak value n=30 rated value	15.1 kVA
 up to 400 V for current peak value n=30 rated value 	26.2 kVA
 up to 500 V for current peak value n=30 rated value 	32.8 kVA
• up to 690 V for current peak value n=30 rated value	45.3 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 055 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	730 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	520 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	336 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	272 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 500 1/h
- 40710	. 000 ///

• at DC	1 500 1/h
operating frequency	1 000 1/11
• at AC-1 maximum	800 1/h
at AC-1 maximum at AC-2 maximum	400 1/h
at AC-2 maximum at AC-3 maximum	700 1/h
at AC-3 maximum at AC-3e maximum	700 1/h
at AC-3e maximum at AC-4 maximum	200 1/h
	200 1111
Control circuit/ Control	ACIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	02 155 \/
at 50 Hz rated value	83 155 V
• at 60 Hz rated value	83 155 V
control supply voltage at DC	02 455 \/
• rated value	83 155 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
full-scale value	1.1
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
design of the surge suppressor	with varistor
inrush current peak	1.5 A
duration of inrush current peak	50 μs
locked-rotor current mean value	0.45 A
locked-rotor current peak	0.8 A
duration of locked-rotor current	230 ms
holding current mean value	12 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	2 VA
• at 60 Hz	2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 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	2
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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 1		
• al 600 V rated value	 at 125 V rated value 	2 A
operational current at DC-13	 at 220 V rated value 	1 A
e. at 24 V rated value	at 600 V rated value	0.15 A
eli 48 Virietal value	operational current at DC-13	
	 at 24 V rated value 	6 A
e at 110 V rated value	at 48 V rated value	2 A
• at 125 V rated value • 220 V rated value • 3 at 600 V rated value • 4 480 V rated value • 3 at 600 V rated value • 4 at 600 V rated value • 5 A • 6 A	at 60 V rated value	2 A
• at 220 V rated value	at 110 V rated value	1 A
• at 220 V rated value	at 125 V rated value	0.9 A
• at 800 V rated value contact reliability of auxillary contacts ULICSA ratings Tull-load current (FLA) for 3-phase AC motor • at 800 V rated value • at 800 V rated value • at 800 V rated value • for single-phase AC motor — at 110/120 V rated value • for single-phase AC motor — at 200208 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • at 220/230 V rated value • at 220/230 V rated value — at 260-600 V rated value — at 60-6049 0 V rated value — at 60-6049 0 V rated value — at 60-6049 0 V rated value — at 60-6050 V rated value — at 60-600 V rated value — at 60-6049 0 V rated value — at 60-6000 V rated value — with type of constants according to UL Short-circuit protection of the main circuit — with type of constants or required — for short-circuit protection of the auxiliary switch — ger-128A (690V-100AA), aM: 63A (690V, 100 AA), BS88: 200 A (415V, 80 AA) • for short-circuit protection of the auxiliary switch — for shor		
Contact reliability of auxiliary contacts		
Short-circuit protection of the main circuit with type of assignment 2 required with type of assignment 3 with type of assignment 4 with type of assignment 5 with type of as		
Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value 65 A • at 600 V rated value 52 A yielded mechanical performance [hp] • for single-phase AC motor • at 100/120 V rated value 5 hp • for single-phase AC motor • at 200/208 V rated value 20 hp • at 220/230 V rated value 50 hp • at 260/2030 V rated value 50 hp • at 260/2030 V rated value 50 hp • at 460/480 V rated value 50 hp • at 460/480 V rated value 50 hp • at 575/600 V rated value 50 hp • at 575/600 V rated value 50 hp • or antar traing 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 (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) (52, 10 A (500 V, 10 kA), alf: 60 A (690 V, 100 kA), BS88: 200 A (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) (53, 10 A (500 V, 10 kA), alf: 60 A (690 V, 100 kA), BS88: 200 A (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) (53, 10 A (500 V, 10 kA), alf: 60 A (690 V, 100 kA), BS88: 200 A (415, 98, ka) • for short-circuit protection of the auxiliary switch required (415, 98, ka) (53, 10 A (500 V, 10 kA), alf: 60 A (690 V, 100 kA), alf: 60 A (690 V, 100 kA),		r laulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value • at 600 V rated value • at 600 V rated value yleided 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 200/208 V rated value — at 260/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 1 required • for short-diruit protection of the main circuit — with type of assignment 2 required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • for short-diruit protection of the auxiliary switch required • side-by-side mounting of the function of the auxiliary switch required • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by		
• at 600 V rated value 52 A		05.4
vielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 10 hp • for 3-phase AC motor — at 2200/208 V rated value 20 hp — at 2200/208 V rated value 20 hp — at 260/800 V rated value 50 hp — at 460/880 V rated value 50 hp — at 575/600 V rated value 50 hp — at 575/600 V rated value 50 hp — at 575/600 V rated value 50 hp — at 675/600 V rated value 50 hp — with type of coordination 1 required 96: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), aM: 160		
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value — at 575/900 V rated value — at 60/480 V rated value — at 60/480 V rated value — at 60/480 V rated value — at 60 short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required (415 V, 80 kA) — with type of assignment 2 required (415 V, 80 kA) — with type of assignment 2 required (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required (Installation/ mounting/ dimensions mounting position **-180" rotation possible on vertical mounting surface; can be titled forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 **es depth required spacing • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • of or grounded parts — downwards — downwards — 10 mm — at the side • for grounded parts — forwards — 10 mm • of or ive parts — forwards • for live parts — forwards — at the side — downwards • for live parts — forwards — ownwards • for live parts — forwards — ownwards • for mm — ownwards —		52 A
- at 110/120 V rated value - at 230 V rated value - 10 hp - 10		
■ 1230 V rated value ■ for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 4575/600 V rated value — at 4575/600 V rated value — at 575/600 V rated value — other circuit protection design of the fuse link ■ for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of sassignment 2 required — for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method ■ side-by-side mounting ■ height width ■ 55 mm depth required spacing ■ with side-by-side mounting ■ with side-by-side mounting ■ or invards — upwards — at the side — downwards ■ 10 mm - upwards — at the side — downwards ■ for live parts — forwards — odwnwards ■ for live parts — forwards — upwards — odwnwards —	5 .	
• for 3-phase AC motor — at 200/209 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 480/480 V rated value — at 480/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 675/600 V rated value - at 75/600 V	 — at 110/120 V rated value 	5 hp
- at 200/208 V rated value	— at 230 V rated value	10 hp
at 220/230 V rated value at 460/480 V rated value 50 hp -	• for 3-phase AC motor	
at 220/230 V rated value at 460/480 V rated value 50 hp -	— at 200/208 V rated value	20 hp
- at 460/480 V rated value	— at 220/230 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		
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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position **Table Toward and backward by */- 22.5* on vertical mounting surface; can be tilted forward and backward by */- 22.5* on vertical mounting rail according to DIN EN 60715 • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting — forwards — downwards — at the side — downwards • for grounded parts — forwards — at the side — downwards — ownwards —		
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required (415 V, 80 kA) (415 V, 80		
design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) — with side on wortical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be		
• for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required — with required — with required — with side-oby-side mounting — side-by-side mounting — side-by-side mounting — side-by-side mounting — with side-by-side mounting — with side-by-side mounting — with side-by-side mounting — of onwards — upwards — downwards — of mards — upwards — of with side-by-side mounting — forwards — at the side — downwards — of mm — forwards — upwards — of mm — forwards — upwards — ownwards — ownward		
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 with type of assignment 2 required for short-circuit protection of the auxiliary switch required with type of assignment 2 required with side-by-side mounting with side-by-side mounting mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting sur	_	
(415 V, 80 KA) - with type of assignment 2 required of cr short-circuit protection of the auxiliary switch required of or short-circuit protection of the 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 can be tilted forward and backward by +/- 22.5" on vertical mounting surface serve and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • *side-by-side mounting • *side-by-side mounting width forwards - upwards - upwards - downwards - at the side - downwards - at the side - downwards - at the side - forwards - forwards - forwards - at the side - forwards - forwards - forwards - forwards - forwards - at the side - forwards - forwards - forwards - forwards - at the side - forwards - upwards - forwards - forwards - forwards - forwards - at the side - forwards - upwards - forwards - forwards - upwards - forwards - forwards - forwards - forwards - forwards - upwards - forwards - forwards - upwards - forwards - upwards - forwards - forwards - upwards - forwards - forwards - upwards - forwards - upwards - forwards - forwards - upwards - downwards - downwards - downwards - downwards - at the side - downwards - downwards - downwards - downwards - at the side - downwards - downw	·	O 050 A (000 V 400 LA)
for short-circuit protection of the 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 side-by-side mounting * side-by-side mounting * ves height #-/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface **every and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 **esemble of the mounting of the standard mounting rail according to DIN EN 60715 **esemble of the mounting of the standard mounting rail according to DIN EN 60715 **every and the side of the mounting of the standard mounting rail according to DIN EN 60715 **every and the side of the mounting of the standard mounting surface; can be tilted forwards on vertical mounting surface; can be tilted forward and backwards on vertical mounting surface; can be tilted forwards on vertical mounting surface; can be tilted forwards on vertical mounting surface; can be tilted forward and backwards on vertical mounting surface; can be tilted forwards on vertical mount		(415 V, 80 kA)
Installation/ mounting/ dimensions mounting position	 — with type of assignment 2 required 	
Installation/ mounting/ dimensions		gG: 10 A (500 V, 1 kA)
mounting position +/-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 standard mounting rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting Height 114 mm width 55 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side — downwards — odwnwards — of or grounded parts — forwards — upwards — at the side — downwards — to mm • for live parts — forwards — upwards — upwards — odwnwards — odwnwards — odwnwards — odwnwards — odwnwards — odwnwards — upwards — odwnwards — odwnward		
fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting Yes height 114 mm width 55 mm depth 174 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for mm - downwards — of mm - of mwards - of mm - of mwards - of mm - of orwards - of ownwards - of omm - of ownwards - of ownwards - of omm - of ownwards - of omm - of ownwards - of omm - of ownwards - of ownwards - of omm - of ownwards - of ownwards - of omm		
e side-by-side mounting Pes height ### Midth ### M		forward and backward by +/- 22.5° on vertical mounting surface
height 114 mm width 55 mm depth 174 mm required spacing 174 mm • with side-by-side mounting 10 mm — forwards 10 mm — upwards 10 mm — at the side 0 mm • for grounded parts 10 mm — forwards 10 mm — at the side 6 mm • for live parts 10 mm — forwards 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm	fastening method	
width 55 mm depth 174 mm required spacing 10 mm • with side-by-side mounting 10 mm — forwards 10 mm — upwards 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 10 mm — forwards 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm	side-by-side mounting	Yes
depth 174 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 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 — downwards 10 mm — at the side 6 mm	height	114 mm
required spacing ● with side-by-side mounting — forwards — upwards — downwards — at the side ● for grounded parts — forwards — upwards — upwards — at the side — downwards — at the side — forwards — at the side — downwards ● for live parts — forwards — upwards — upwards — downwards — to mm ● for live parts — forwards — upwards — downwards — upwards — to mm — downwards — upwards — downwards — upwards — downwards — to mm	width	55 mm
 with side-by-side mounting — forwards — upwards — downwards — at the side o mm o for grounded parts — forwards — upwards — at the side — at the side — at the side — downwards — for live parts — forwards — upwards — to mm — odwnwards — upwards — downwards — at the side 6 mm 	depth	174 mm
 with side-by-side mounting — forwards — upwards — downwards — at the side o mm o for grounded parts — forwards — upwards — at the side — at the side — at the side — downwards — for live parts — forwards — upwards — to mm — odwnwards — upwards — downwards — at the side 6 mm 	required spacing	
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 — downwards — at the side ● for grounded parts — forwards — upwards — at the side — at the side — downwards ● for live parts — forwards — upwards — to mm — odwnwards — upwards — upwards — downwards — downwards — at the side 6 mm 		
 — at the side ● for grounded parts — forwards — upwards — at the side — downwards ● for live parts — forwards — upwards — upwards — downwards — downwards — downwards — downwards — at the side 0 mm 10 mm — downwards — at the side 6 mm 	·	
 for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards downwards mm upwards downwards mm at the side 6 mm 		
— forwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm		
— upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm		10 mm
 — at the side — downwards • for live parts — forwards — upwards — downwards — downwards — at the side 6 mm 6 mm 		
 — downwards ● for live parts — forwards — upwards — downwards — at the side 10 mm 10 mm 6 mm 	·	
 for live parts forwards upwards downwards at the side 10 mm 10 mm 6 mm		
 forwards upwards downwards at the side 10 mm 10 mm 6 mm 		10 IIIIII
 upwards downwards at the side 10 mm 6 mm 	•	40
downwardsat the side6 mm		
— at the side 6 mm	•	
Connections/ Terminals		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)	
 at AWG cables for main contacts 	2x (18 2), 1x (18 1)	
connectable conductor cross-section for main contacts		
 finely stranded with core end processing 	1 35 mm²	
connectable conductor cross-section for auxiliary contacts		
solid or stranded	0.5 2.5 mm²	
 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)	
 at 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	
B10 value with high demand rate according to SN 31920	1 000 000	
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 y	
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	
suitability for use		
 safety-related switching OFF 	Yes	
Certificates/ approvals		

Certificates/ approvais

General Product Approval





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway **Dangerous Good**



Transport Informa-Confirmation Confirmation Vibration and Shock tion

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=3RT2037-1NF34

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2037-1NF34}}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NF34

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1NF34&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NF34/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NF34&objecttype=14&gridview=view1

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