SIEMENS

Data sheet 3RT2037-3AV00



Power contactor, AC-3 65 A, 30 kW / 400 V 1 NO + 1 NC, 400 V AC, 50 Hz 3-pole, size S2 Spring-type terminals

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	\$2
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 	11.4 W
 at AC in hot operating state per pole 	3.8 W
 without load current share typical 	16 W
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 safe isolation 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 (switching 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 %

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	80 A
rated value	557.
• at AC-1	
— up to 690 V at ambient temperature 40 °C	80 A
rated value	
— up to 690 V at ambient temperature 60 °C	70 A
rated value	
• 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	56.9 A
value	
— up to 400 V for current peak value n=20 rated	56.9 A
value	
 up to 500 V for current peak value n=20 rated 	56.9 A
value	
 up to 690 V for current peak value n=20 rated value 	47 A
• at AC-6a	
	38 A
 up to 230 V for current peak value n=30 rated value 	30 A
— up to 400 V for current peak value n=30 rated	38 A
value	
— up to 500 V for current peak value n=30 rated	38 A
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 at 690 V rated value	22 A
operational current	LL IX
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 220 V rated value	5 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	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 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	0.0071
at AC-2 at 400 V rated value	30 kW
• at AC-3	OU IVV
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 400 V rated value — at 500 V rated value	30 kW
— at 500 V rated value — at 690 V rated value	37 kW
	O/ NVV
• at AC-3e	10 5 1/1/1
— 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 operating power for approx. 200000 operating cycles	37 kW
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
• 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	
• 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	5 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	400 1/h
> GC/TO E INGAINMIN	.00

		T00 4#
AC-4 maximum 200 fth		
Section Sect		
ype of voltage of the control supply voltage control supply voltage at AC ■ at 60 Hz taled value operating range factor control supply voltage rated value of magnet coil at AC ■ at 50 Hz ■ at 50 Hz 190 VA 190 V		200 1/h
a st 0 Hz - trade value	Control circuit/ Control	
• et 50 Hz rated value operating range factor control supply voltage rated value of magnet coll at AC • et 60 Hz apparent pick-up power of magnet coll at AC • at 60 Hz apparent pick-up power factor with closing power of the coll • at 60 Hz apparent holding power of magnet coll at AC • at 50 Hz at 50 Hz closing delay • at AC opening delay • at AC opening delay • at AC opening of the switch operating mechanism Auxillary circuit number of NC contacts for auxillary contacts number of NC contacts for auxillary contacts at 600 V rated value • at 610 V rated valu	type of voltage of the control supply voltage	AC
operations angle factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz closing delay at AC 1080 ms operational current at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instandaneous contact number of NO contacts for auxiliary contacts at 30 Hz at 300 Hz at 300 Hz at 300 Hz auxiliary contacts for auxiliary circuit number of NO contacts for auxiliary contacts instandaneous contact 10 A operational current at AC-12 maximum operational current at AC-18 maximum operational current at AC-18 maximum operational current at AC-19 maximu	control supply voltage at AC	
val 00 Hz 0.81.1 apparent pick-up power of magnet coil at AC 150 Hz val 50 Hz 190 VA inductive power factor with closing power of the coil 0.72 apparent holding power of magnet coil at AC 16 VA val 50 Hz 0.72 closing delay 0.37 val AC 1080 ms opening delay 1080 ms val AC 1080 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary correctit 1080 ms number of NC contacts for auxiliary contacts instantaneous contact 1 number of NC contacts for auxiliary contacts instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 3 A val 280 V rated value 3 A val 280 V rated value 10 A val 280 V rated value 10 A val 280 V rated value 10 A val 280 V rated value 2 A val 280 V rated value 2 A val 280 V rated value 3 A val 280 V r	 at 50 Hz rated value 	400 V
apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz fuductive power factor with the holding power of the coil at 50 Hz closing delay at AC at 50 Hz closing delay at AC 10 80 ms opening delay at AC 10 80 ms opening delay at AC 10 80 ms control version of the switch operating mechanism control version of Contacts for auxiliary contacts instantaneous contact	value of magnet coil at AC	
ad 50 Hz	• at 50 Hz	0.8 1.1
Inductive power factor with closing power of the coil ■ at 50 Hz ■ at 50 Hz 16 VA 17 VA 18 VA 18 VA 18 VA 18 VA 19 VA 10 VA	apparent pick-up power of magnet coil at AC	
apparent holding power of magnet coil at AC at 50 Hz inductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 50 Hz at AC at 60 Hz at AC 10 80 ms opining delay at AC 10 18 ms arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 10 A at 800 V rated value at 800 V rated value at 80 V rated value at 80 V rated value at 800 V rated	• at 50 Hz	190 VA
apparent holding power of magnet coil at AC • at 50 Hz ot at 50 Hz 10 80 ms opening delay • at AC 10 80 ms opening delay • at AC acring time control version of the switch operating mechanism Auxiliary circuit unumber of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 60 V	inductive power factor with closing power of the coil	
at 50 Hz	• at 50 Hz	0.72
Inductive power factor with the holding power of the coil	apparent holding power of magnet coil at AC	
at 50 Hz 0.37 1080 ms 1080 ms 1020 ms	• at 50 Hz	16 VA
e at 50 Hz closing delay • at AC opening delay • at AC 10 80 ms opening delay • at AC acring time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 450 V rated value • at 45 V rated value • at 45 V rated value • at 45 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 45 V rated value • at 600 V rated value • 50 A	inductive power factor with the holding power of the	
closing delay	coil	
• at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts 1 number of NO contacts auxiliary contacts 1 number of NO contact flability of auxiliary contacts 1 number of NO contacts auxiliary contacts 1 number of NO co	● at 50 Hz	0.37
opening delay	closing delay	
e at AC 10 18 ms arcing time 10 20 ms control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1	• at AC	10 80 ms
arcing time	opening delay	
Control version of the switch operating mechanism Standard A1 - A2	• at AC	10 18 ms
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 690 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 48 V rated value • at 600	arcing time	10 20 ms
number of NC contacts for auxiliary contacts instantaneous contact 1	control version of the switch operating mechanism	Standard A1 - A2
number of NC contacts for auxiliary contacts instantaneous contact 1		
number of NO contacts for auxiliary contacts instantaneous contact 1 1 1 1 1 1 1 1 1	number of NC contacts for auxiliary contacts	1
Operational current at AC-12 maximum 10 A	number of NO contacts for auxiliary contacts	1
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 122 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 28 V rated value • at 290 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp		10 Δ
	•	10 A
• at 400 V rated value 2 A • at 500 V rated value 1 A operational current at DC-12 • at 24 V rated value 6 A • at 680 V rated value 10 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 110 V rated value 6 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 125 V rated value 1 A • at 48 V rated value 1 A • at 600 V rated value 1 A • at 48 V rated value 1 A • at 125 V rated value 1	•	10.4
• at 500 V rated value		
• at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 10 V rated value • at 25 V rated value • at 25 V rated value • at 25 V rated value • at 260 V rated value • at 30 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • 5 Pa vielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value		
Operational current at DC-12		
 at 24 V rated value at 48 V rated value at 6 A at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 7 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 at 600 V rated value 50 A 50 A<th></th><th>1 A</th>		1 A
 at 48 V rated value at 60 V rated value at 110 V rated value at 1125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 55 A at 600 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 65 A at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 	•	
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 30 V rated value at 600 V rated value 55 A at 65 A at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 80 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 200 V rated value at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value bp 		
• at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp		
• at 220 V rated value • at 600 V rated value 0.15 A operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value Contact reliability of auxiliary contacts I 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 • 65 A • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp	at 110 V rated value	3 A
• at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 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 • at 600 V rated value full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp	• at 125 V rated value	2 A
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value Contact reliability of auxiliary contacts I 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 • at 600 V rated value • 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp	at 220 V rated value	1 A
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 115 V rated value at 220 V rated value at 220 V rated value at 600 V rated value o.1 A contact reliability of auxiliary contacts full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 	at 600 V rated value	0.15 A
 at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 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 at 600 V rated value at 100 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 	operational current at DC-13	
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at at 200 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 	at 24 V rated value	10 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 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 at 600 V rated value for single-phase AC motor at 600 V rated value for single-phase AC motor at 110/120 V rated value 5 hp 	at 48 V rated value	2 A
 at 125 V rated value at 220 V rated value 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 at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 	at 60 V rated value	2 A
 at 220 V rated value 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 at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 	 at 110 V rated value 	1 A
 at 220 V rated value 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 at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 	• at 125 V rated value	0.9 A
 at 600 V rated value 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 at 600 V rated value for single-phase AC motor at 110/120 V rated value 5 hp 		
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 • at 600 V rated value 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp		
UL/CSA ratings full-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 110/120 V rated value 5 hp		
full-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 110/120 V rated value 5 hp		,
 at 480 V rated value at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp 	· ·	
at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 52 A 52 A 54 A 55 A		GE A
yielded mechanical performance [hp] ● for single-phase AC motor — at 110/120 V rated value 5 hp		
 ◆ for single-phase AC motor — at 110/120 V rated value 5 hp 		02 A
— at 110/120 V rated value 5 hp		
· ·		
— at 230 V rated value 10 hp		
	— at 230 V rated value	10 np

• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
 — at 220/230 V rated value 	20 hp
 at 460/480 V rated value 	50 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — 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)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
side-by-side mounting	Yes
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	·
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
	10 111111
• for live parts	40
— 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 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-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 1.5 mm²
finely stranded without core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
• for auxiliary contacts	
- 101 daminary contacto	

 solid or stranded 	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 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	

Certificates/ approvals

General Product Approval

• safety-related switching OFF



Confirmation





<u>KC</u>



EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
_			

Yes



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other	Railway	Dangerous Good
-------------------------	---------	----------------



<u>Confirmation</u> <u>Confirmation</u>

<u>1</u>

Vibration and Shock

Transport Information

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=3RT2037-3AV00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-3AV00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AV00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-3AV00&lang=en

 $\label{lem:characteristic:} \textbf{Characteristic: Tripping characteristics, } \ \ \textbf{l}^{2}\textbf{t, Let-through current}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AV00/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-3AV00&objecttype=14&gridview=view1

last modified: 2/15/2022 🖸