SIEMENS

Data sheet

3RA2337-8XB30-1AK6

Reversing contactor assembly AC-3, 30 kW/400 V 110 V AC 50 Hz/120 V 60 Hz, 3-pole Size S2, screw terminal electrical and mechanical Interlock 2 NO integrated



Product brand name	SIRIUS
Product designation	Reversing contactor assembly
Product type designation	3RA23
Manufacturer's article number	
 1 of the supplied contactor 	3RT2037-1AK60
 2 of the supplied contactor 	3RT2037-1AK60
 of the supplied RS assembly kit 	3RA2933-2AA1

General technical data	
Size of contactor	S2
Product extension	
 Auxiliary switch 	Yes
Insulation voltage	
 with degree of pollution 3 rated value 	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
Shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 11.6g / 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 auxiliary switch block typical 	10 000 000
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	

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

Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating voltage	
 at AC-3 rated value maximum 	690 V
Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	80 A
— at ambient temperature 60 °C rated value	70 A
• at AC-2 at 400 V rated value	65 A
● at AC-3	
— at 400 V rated value	65 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
Operating current	
• 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
• with 2 current paths in series at DC-3 at DC-5	

at 24 V rated value		
• with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value • 55 A Coperating power • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 640-V rated value • at AC-4 at 400 V rated value — at 640-V rated value • at AC-4 at 400 V rated value • at AC-4 at 400 V rated value • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum 200 1/h Control circuit/ Control Type of voltage of the control supply voltage Control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value 120 V Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at	— at 24 V rated value	55 A
- at 24 V rated value 55 A - at 110 V rated value 55 A Operating power • at AC-2 at 400 V rated value 30 kW • at AC-3 - at 400 V rated value 30 kW - at 690 V rated value 30 kW - at 690 V rated value 30 kW No-load switching frequency 1500 1/h Operating frequency • at AC-1 maximum 800 1/h • at AC-2 maximum 400 1/h • at AC-3 maximum 200 1/h Control araximum 200 1/h Control supply voltage 1 at AC • at 50 Hz rated value 110 V • at 60 Hz 12 VA • at 60 Hz 188 VA Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz	— at 110 V rated value	25 A
— at 110 V rated value 55 A Operating power • at AC-2 at 400 V rated value 30 kW • at AC-3 — at 400 V rated value 37 kW • at AC-4 at 400 V rated value 30 kW No-load switching frequency 1500 1/h Operating frequency • at AC-1 maximum 400 1/h • at AC-2 maximum 700 1/h • at AC-3 maximum 200 1/h • at AC-4 maximum 200 1/h Control circuit/ Control Type of voltage of the control supply voltage AC Control supply voltage 1 at AC • at 50 Hz rated value 120 V Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz	• with 3 current paths in series at DC-3 at DC-5	
Operating power • at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 690 V rated value — at 690 V rated value • at AC-4 at 400 V rated value • at AC-1 at 400 V rated value • at AC-1 at 400 V rated value • at AC-1 at ximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at SO Hz rated value • at SO Hz • at SO Hz	— at 24 V rated value	55 A
• at AC-2 at 400 V rated value • at AC-3 — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 640 V rated value — at AC-4 at 400 V rated value — at AC-4 at 400 V rated value — at AC-4 maximum — at AC-1 maximum — at AC-2 maximum — at AC-2 maximum — at AC-3 maximum — at AC-3 maximum — at AC-4 maximum — at 50 Hz rated value — at 60 Hz — at	— at 110 V rated value	55 A
• at AC-3 — at 400 V rated value — at 690 V rated value • at AC-4 at 400 V rated value • at AC-4 at 400 V rated value • at AC-4 at 400 V rated value 30 kW No-load switching frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum Control circuit/ Control Type of voltage of the control supply voltage Control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz Apparent plok-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz	Operating power	
at 400 V rated value 30 kW at 690 V rated value 37 kW • at AC-4 at 400 V rated value 30 kW No-load switching frequency 1500 1/h Operating frequency • at AC-1 maximum 800 1/h • at AC-2 maximum 400 1/h • at AC-3 maximum 700 1/h • at AC-4 maximum 200 1/h Control circuit/ Control Type of voltage of the control supply voltage AC Control supply voltage 1 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 • at 50 Hz 188 V-A Inductive power factor with closing power of the coil • at 50 Hz 0.65 Apparent holding power of magnet coil at AC • at 50 Hz 0.65 Apparent holding power of magnet coil at AC • at 50 Hz 188 V-A Inductive power factor with the holding power of the coil • at 50 Hz 18.5 V-A Inductive power factor with the holding power of the coil • at 50 Hz 18.5 V-A Inductive power factor with the holding power of the coil • at 50 Hz 18.5 V-A	• at AC-2 at 400 V rated value	30 kW
at 690 V rated value • at AC-4 at 400 V rated value 30 kW No-load switching frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-4 maximum • at AC-5 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-8 maximum • at AC-9 maximum • at BC-1 maxim	• at AC-3	
• at AC-4 at 400 V rated value No-load switching frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum Control circuit/ Control Type of voltage of the control supply voltage Control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz Inductive power factor with coil at AC • at 50 Hz • at 60 Hz Inductive power factor with coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Inductive power factor with the holding power of the coil	— at 400 V rated value	30 kW
No-load switching frequency	— at 690 V rated value	37 kW
Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum 200 1/h Control circuit/ Control Type of voltage of the control supply voltage Control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz	• at AC-4 at 400 V rated value	30 kW
at AC-1 maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-6 maximum at AC-6 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-8 maximum at AC-9 maxim	No-load switching frequency	1 500 1/h
at AC-2 maximum at AC-3 maximum at AC-4 maximum 200 1/h Control circuit/ Control Type of voltage of the control supply voltage Control supply voltage 1 at AC at 50 Hz rated value 110 V Operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz Apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz Apparent pick-up power of the coil at 60 Hz 188 V-A Inductive power factor with closing power of the coil at 50 Hz at 60 Hz 18.5 V-A at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.65 Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 0.67 at 60 Hz 18.5 V-A at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.36	Operating frequency	
at AC-3 maximum at AC-4 maximum 200 1/h Control circuit/ Control Type of voltage of the control supply voltage Control supply voltage 1 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 at 60 Hz Apparent pick-up power of magnet coil at AC at 60 Hz Apparent pick-up power of magnet coil at AC at 60 Hz Inductive power factor with closing power of the coil at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Apparent holding power of ma	• at AC-1 maximum	800 1/h
at AC-4 maximum 200 1/h Control circuit/ Control Type of voltage of the control supply voltage Control supply voltage 1 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 at 60 Hz Apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz Inductive power factor with closing power of the coil at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 50 Hz at 50 Hz at 50 Hz at 50 Hz at 50 Hz at 50 Hz at 50 Hz O.36	• at AC-2 maximum	400 1/h
Control circuit/ Control Type of voltage of the control supply voltage Control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value 110 V Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz • at 50 Hz O.36	• at AC-3 maximum	700 1/h
Type of voltage of the control supply voltage Control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value 120 V Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz • at 60 Hz O.67 O.65 Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz O.36	at AC-4 maximum	200 1/h
Control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value 120 V Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz O.36	Control circuit/ Control	
at 50 Hz rated value at 60 Hz rated value 120 V Operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz O.8 1.1 Apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz 188 V-A Inductive power factor with closing power of the coil at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 18.5 V-A at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 50 Hz 0.65 Apparent holding power of magnet coil at AC at 50 Hz at 50 Hz 0.36	Type of voltage of the control supply voltage	AC
at 60 Hz rated value Operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz Apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz Inductive power factor with closing power of the coil at 50 Hz at 60 Hz Inductive power of magnet coil at AC at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Inductive power factor with closing power of the coil at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz O.36	Control supply voltage 1 at AC	
Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz O.36	● at 50 Hz rated value	110 V
value of magnet coil at AC • at 50 Hz • at 60 Hz Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz O.67 • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz O.36	• at 60 Hz rated value	120 V
 at 50 Hz at 60 Hz 0.8 1.1 Apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz Inductive power factor with closing power of the coil at 50 Hz at 60 Hz O.67 at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz 0.36 		
at 60 Hz Apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz Inductive power factor with closing power of the coil at 50 Hz at 60 Hz 0.67 at 60 Hz 0.65 Apparent holding power of magnet coil at AC at 50 Hz at 50 Hz 18.5 V·A Inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.36		
Apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz O.67 • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz O.36		
 at 50 Hz at 60 Hz 188 V·A Inductive power factor with closing power of the coil at 50 Hz at 60 Hz 0.65 Apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz 18.5 V·A at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 50 Hz 		0.8 1.1
at 60 Hz Inductive power factor with closing power of the coil at 50 Hz at 60 Hz 0.67 at 60 Hz 0.65 Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 18.5 V·A 16.5 V·A Inductive power factor with the holding power of the coil at 50 Hz 0.36		
Inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 18.5 V·A • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz 0.65		
 at 50 Hz at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 18.5 V·A at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz 0.36 		188 V·A
at 60 Hz Apparent holding power of magnet coil at AC at 50 Hz at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 50 Hz 0.65 18.5 V·A 16.5 V·A 16.5 V·A		
Apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz 0.36		
 at 50 Hz at 60 Hz 18.5 V·A 16.5 V·A Inductive power factor with the holding power of the coil at 50 Hz 0.36 		0.65
at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz 16.5 V·A 0.36		
Inductive power factor with the holding power of the coil • at 50 Hz 0.36		
coil ● at 50 Hz 0.36		16.5 V·A
● at 60 Hz 0.39	● at 50 Hz	0.36
	● at 60 Hz	0.39

Number of NC contacts for auxiliary contacts

per direction of rotation	0
Number of NO contacts for auxiliary contacts	
 per direction of rotation 	1
Operating current of auxiliary contacts at AC-12 maximum	10 A
Operating current of auxiliary contacts at AC-15	
● at 230 V	6 A
● at 400 V	3 A
Operating current of auxiliary contacts at DC-13	
● at 24 V	10 A
● at 60 V	2 A
● at 110 V	1 A
● at 220 V	0.3 A
Contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	65 A
• at 600 V rated value	62 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
 for three-phase AC motor 	
— 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 / Q600

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
 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A
 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A

• for short-circuit protection of the auxiliary switch fuse gG: 10 A 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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
Height	141 mm
Width	120 mm

Short-circuit protection

Depth	130 mm
Required spacing	
with side-by-side mounting	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
 for grounded parts 	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
Type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 35 mm²), 1x (1 50 mm²)
 single or multi-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 conductors for main contacts 	2x (18 2), 1x (18 1)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— single or multi-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 conductors for auxiliary contacts 	2x (20 16), 2x (18 14)
Safety related data	
B10 value	
• with high demand rate acc. to SN 31920	1 000 000
• with high demand rate acc. to SN 31920 Proportion of dangerous failures	1 000 000
	1 000 000

Failure rate [FIT]

• with low demand rate acc. to SN 31920

100 FIT

T1 value for proof test interval or service life acc. to

IEC 61508

20 y

No

No

('ommir	nootion	/ Protocol
		/
Commi	110011	, , , , , , , , , , , , , , , , , , , ,

Product function Bus communication	No
------------------------------------	----

Protocol is supported

AS-Interface protocol

Product function Control circuit interface with IO link

Test Certific-

Certificates/ approvals

General Product Approval

Declaration of Conformity

ates









Miscellaneous

Type Test Certificates/Test Report

Marine / Shipping















Marine / Ship-

other

ping

Confirmation



Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2337-8XB30-1AK6

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1AK6

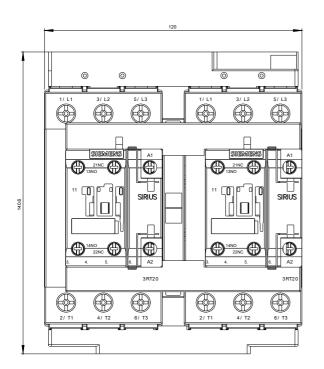
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2337-8XB30-1AK6&lang=en

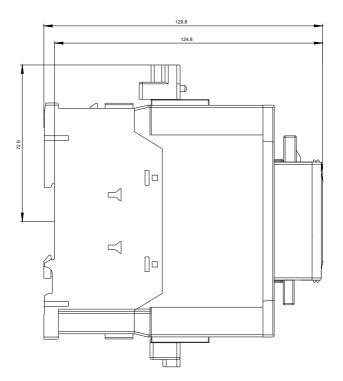
Characteristic: Tripping characteristics, I2t, Let-through current

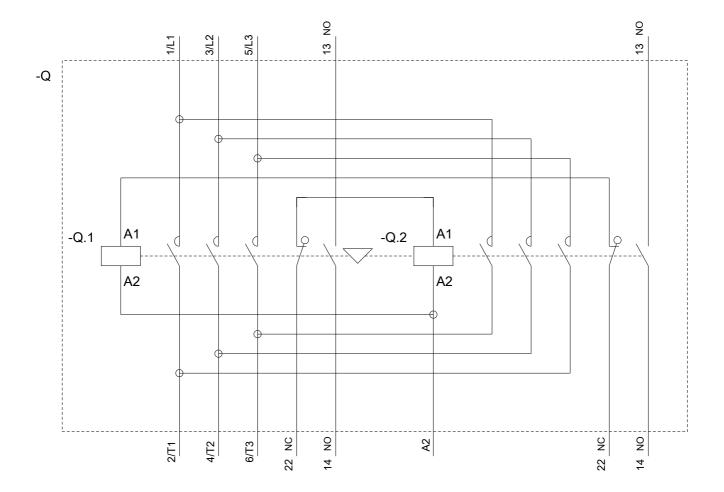
https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XB30-1AK6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XB30-1AK6&objecttype=14&gridview=view1







last modified: 09/24/2019