## **SIEMENS**

**Data sheet** 

reversing contactor assembly, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, screw terminal, electrical and mechanical interlock

3RA2316-8XB30-1AP6



product brand name	SIRIUS	
product designation	Reversing contactor assembly	
product type designation	3RA23	
manufacturer's article number		
1 of the supplied contactor	3RT2016-1AP62	
2 of the supplied contactor	3RT2016-1AP62	
<ul> <li>of the supplied RH assembly kit</li> </ul>	3RA2913-2AA1	
General technical data		
size of contactor	S00	
product extension auxiliary switch	Yes	
shock resistance at rectangular impulse		
• at AC	6,7g / 5 ms, 4,2g / 10 ms	
• at DC	6,7g / 5 ms, 4,2g / 10 ms	
shock resistance with sine pulse		
• at AC	10,5g / 5 ms, 6,6g / 10 ms	
• at DC	10,5g / 5 ms, 6,6g / 10 ms	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
of the contactor with added auxiliary switch block typical	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
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		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
at AC-3e rated value maximum	690 V	
operational current		
• at AC-3		
— at 400 V rated value	9 A	
— at 500 V rated value	7.7 A	
— at 690 V rated value	6.7 A	
• at AC-3e		
— at 400 V rated value	9 A	

type of voltage of the control supply voltage  control supply voltage 1 at AC  at 50 Hz rated value 220 V  at 60 Hz rated value 240 V  operating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  at 50 Hz  at 60 Hz  27 VA  inductive power factor with closing power of the coil at 50 Hz  apparent holding power of magnet coil at AC  at 50 Hz  27 VA  inductive power factor with closing power of the coil at 50 Hz  apparent holding power of magnet coil at AC  at 50 Hz  4.2 VA  inductive power factor with the holding power of the coil at 50 Hz  at 50 Hz  4.2 VA  inductive power factor with the holding power of the coil at 50 Hz  4.2 VA  inductive power factor with the holding power of the coil at 50 Hz  4.2 VA  inductive power factor with the holding power of the coil at 50 Hz  4.2 VA  inductive power factor with the holding power of the coil at 50 Hz  4.2 VA  inductive power factor with the holding power of the coil at 50 Hz  4.2 VA  inductive power factor with the holding power of the coil at 50 Hz  4.2 VA  inductive power factor with the holding power of the coil at 50 Hz  4.2 VA		
special prover	— at 500 V rated value	7.7 A
* at AC-3	— at 690 V rated value	6.7 A
= at 30 V rated value	— at 400 V rated value	4 kW
# alt AC-3e	— at 500 V rated value	4 kW
	— at 690 V rated value	5.5 kW
at 800 V rated value  * at AC-4 at 40 V rated value  * at AC-3 maximum  * at AC-3 maxi	• at AC-3e	
a at AC-4 at 400 V raled value         4 kW           operating frequency         ****             ****             ****	— at 400 V rated value	4 kW
e al AC-3 maximum 750 thi   • al AC-3 maximum 750 thi   750 thi   • al AC-3 maximum 750 thi   750 thi   • al AC-3 maximum 750 thi   • al 50 Hz rated value 240 V   operating range factor control supply voltage rated value of magnet coil at AC   • al 50 Hz rated value 250 Ns	— at 690 V rated value	5.5 kW
AG-3 maximum	at AC-4 at 400 V rated value	4 kW
A AC-3 e maximum	operating frequency	
Control circuit/ Control         Control supply voltage         AC           control supply voltage 1 at AC         20 V           • at 50 Hz rated value         20 V           • at 50 Hz rated value         24 V           Operating range factor control supply voltage rated value of magnet coll at AC         0.8 1.1           • at 50 Hz         0.8 1.1           • at 50 Hz         0.8 1.1           • and 10 Hz apparent plc-up power of magnet coll at AC         27 VA           • at 50 Hz         0.8           inductive power factor with closing power of the coll         0.8           • at 50 Hz         4.2 VA           inductive power factor with the holding power of the coll         0.8           • at 50 Hz         4.2 VA           inductive power factor with the holding power of the coll         0.25           • at 50 Hz         4.2 VA           inductive power factor with the holding power of the coll         0.25           • at 48 Variating vicronit         7.6 A           contact reliability of auxiliary contacts         4 error per 100 million operating cycles           UI/SSA ratings         9 A           yielded mechanical performance [tp] for 3-phase AC motor         4 in 260 V acted value           • at 200/230 V rated value         5 hp	at AC-3 maximum	750 1/h
type of voltage of the control supply voltage 1 at AC		750 1/h
control supply voltage 1 at AC  a 16 OHz rated value and to Hz rated value operating range factor control supply voltage rated value of magnet coil at AC a 15 OHz a 16 OHz a 16 OHz a 16 OHz b 10 Hz a 16 OHz apparent pick-up power of magnet coil at AC a 16 OHz apparent pick-up power factor with closing power of the coil a 15 OHz apparent holding power of magnet coil at AC a 16 OHz apparent holding power of magnet coil at AC a 16 OHz apparent holding power of magnet coil at AC a 16 OHz apparent holding power of magnet coil at AC a 16 OHz apparent holding power of magnet coil at AC a 16 OHz apparent holding power of magnet coil at AC a 16 OHz apparent holding power of magnet coil at AC a 16 OHz a 16 OHz apparent holding power of magnet coil at AC a 16 OHz a 16 OHz apparent holding power of magnet coil at AC a 16 OHz a 16 O	Control circuit/ Control	
• at 50 Hz rated value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 50 Hz  • at 50 Hz  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  operating range power of magnet coil at AC  • at 50 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz  apparent holding power of magnet coil at AC  • at 600 Hz  apparent holding power of magnet coil at AC  • at 600 Hz  apparent holding power of magnet coil at AC  • at 600 Hz  apparent holding power of magnet coil at AC  • at 50 Hz  apparent holding power of magnet coil at AC  • at 600 Hz  apparent holding power of magnet coil at AC  • at 600 Hz  apparent holding power of magnet coil at AC  • at 600 Hz  apparent holding power of magnet coil at AC  • at 600 Hz  apparent holding power of magnet coil at	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 60 Hz  at 60 Hz  at 60 Hz  ot 60 Hz  apparent pick-up power of magnet coil at AC  • at 60 Hz  apparent holding power of the coil  • at 50 Hz  apparent holding power of magnet coil at AC  • at 60 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  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  • at 50 Hz  value yellow power factor with the holding power of the coil  • at 50 Hz  contact reliability of auxiliary contacts  viellow for taled value  • at 600 V rated value  • at 600 V rated value  • at 2000/280 V rated value  • at 460/480 V rated value  • at 575/680 V rated value  • at 575/680 V rated value  • at 675/680 V rated value  • of short-circuit protection of the main circuit  — with type of coordination 1 required  • of short-circuit protection of the main circuit  — with type of coordination 1 required  • of short-circuit protection of the main circuit  — with type of coordination 1 required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switch required  • of short-circuit protection of the auxiliary switc	control supply voltage 1 at AC	
operating range factor control supply voltage rated value of magnet coil at AC	at 50 Hz rated value	220 V
magnet coil at AC	at 60 Hz rated value	240 V
apparent pick-up power of magnet coil at AC at 50 Hz linductive power factor with closing power of the coil at 50 Hz linductive power factor with closing power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor with the holding power of the coil at 50 Hz linductive power factor withe		
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  inductive power factor with the holding power of the coil  • at 50 Hz  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  • at 600 V rated value  • at 220/230 V rated value  • at 220/230 V rated value  • at 220/230 V rated value  • at 460/480 V rated value  • at 675600 V rated value  • for 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  • 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 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 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 o	• at 50 Hz	0.8 1.1
inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 50 Hz but 50 Hz at 50 Hz at 50 Hz but 50 Hz but 60 Hz but 70 Hz but	• at 60 Hz	0.85 1.1
inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz beta description beta description at 50 Hz beta description beta de	apparent pick-up power of magnet coil at AC	
apparent holding power of magnet coil at AC a 150 Hz at 50 Hz at 50 Hz building circuit contact reliability of auxiliary contacts  **Contact reliability of auxiliary contacts  **A	• at 50 Hz	27 VA
apparent holding power of magnet coil at AC  at 50 Hz  inductive power factor with the holding power of the coil at 50 Hz  ontact reliability of auxiliary contacts  contact reliability of auxiliary contacts  VICSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value by Additional according by rated value at 200/208 V rated value at 200/208 V rated value bi at 220/230 V rated value at 480 V rated value bi at 575/600 V rated value bi b	inductive power factor with closing power of the coil	
e at 50 Hz   diductive power factor with the holding power of the coil   e at 50 Hz   0.25	● at 50 Hz	0.8
inductive power factor with the holding power of the coil  at 50 Hz  Auxiliary circuit  Contact reliability of auxiliary contacts  at 480 V rated value  at 600 V rated value  at 200/208 V rated value  at 200/208 V rated value  at 60/409 V rated value  at 575/600 V rated value  at 575/600 V rated value  for short-circuit protection of the main circuit  with type of coordination 1 required  with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  for short-circuit protection of the suiliary switch required  for short-circuit protection of the auxiliary switch required  for short-circuit protection of the auxiliar	apparent holding power of magnet coil at AC	
■ at 50 Hz     Auxiliary circuit  Contact reliability of auxiliary contacts	• at 50 Hz	4.2 VA
Auxiliary circuit  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor	inductive power factor with the holding power of the coil	
Contact reliability of auxiliary contacts  VL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value 9 A  yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value 2 h p  • at 200/208 V rated value 5 h p  • at 460/480 V rated value 5 h p  • at 460/480 V rated value 5 h p  • at 460/480 V rated value 5 h p  • at 4575/600 V rated value 7.5 h p  contact rating of auxiliary contacts according to UL 8600 / Q600  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of assignment 2 required go NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A go NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse for short-circuit protection of the auxiliary switch required installation/mounting/dimensions  mounting position 4-/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface  fastening method 58 mm  width 90 mm  depth 73 mm  required spacing  • with side-by-side mounting  — forwards 6 mm  • on mm	● at 50 Hz	0.25
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  9 A  yielded mechanical performance [hp] for 3-phase AC motor  • at 220/230 V rated value  • at 220/230 V rated value  • at 460/480 V rated value  • at 475/600 V rated value  • at 460/480 V rated value  • at 460/480 V rated value  • at 460/480 V rated value  • at 575/600 V rated value  • for short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • 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 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 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 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	Auxiliary circuit	
full-load current (FLA) for 3-phase AC motor		< 1 error per 100 million operating cycles
at 480 V rated value at 600 V rated value 9 A  yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 2 hp at 220/230 V rated value 3 hp at 460/480 V rated value 5 hp at 575/600 V rated value 7.5 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the fuse link 6 for short-circuit protection of the main circuit — with type of assignment 2 required 9 G NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A 9 GS NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gS: 10 A  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 DIN rail height width 90 mm  depth 73 mm  required spacing  with side-by-side mounting — forwards — backwards  0 mm	UL/CSA ratings	
• at 600 V rated value  yielded mechanical performance [hp] for 3-phase AC motor • at 220/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 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 675/600 V rated value • for 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 • 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 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 required  • for short-circuit protection of the main circuit  • for short-circuit protection of the main circuit  • fuse gG: 10 A   - hand place and short-circuit protection of the auxiliary switch required  • screw and snap-on 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° o		704
yielded mechanical performance [hp] for 3-phase AC motor  • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 675/600 V rated value • at 675/600 V rated value • at 675/600 V rated value  • at 675/600 V rated value  Contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  fastening method  height • 68 mm  width • 90 mm  depth • with side-by-side mounting — forwards — backwards • 6 mm  0 mm  0 mm		
<ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>at 575/600 V rated value</li> <li>at 575/600 V rated value</li> <li>7.5 hp</li> </ul> Contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link <ul> <li>of or short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>of or short-circuit protection of the auxiliary switch required</li> <li>of or short-circuit protection of the auxiliary switch required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>seg NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A</li> <li>gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A</li> <li>fuse gG: 10 A</li> </ul> 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; 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 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 forw		9 A
at 220/230 V rated value at 460/480 V rated value at 5 hp 7.5 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link		0.1
• at 460/480 V rated value • at 575/600 V rated value 7.5 hp  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 • 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 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 main circuit  - with type of coordination 1 required  • scie 35 A  • G NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A  • fuse gG: 10 A   • fuse gG: 10 A  • fuse gG: 10 A   • with slow 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; 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 surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by		
• at 575/600 V rated value  contact rating of auxiliary contacts according to UL  A600 / Q600  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A  • with type of assignment 2 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A  • for short-circuit protection of the auxiliary switch required fuse gG: 10 A  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 DIN rail  height  ## 68 mm  width  90 mm  required spacing  • with side-by-side mounting  — forwards — backwards  6 mm  0 mm		
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  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  #/-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 DIN rail  height  width  90 mm  required spacing  • with side-by-side mounting  — forwards — backwards  0 mm		
Short-circuit protection  design of the fuse link		·
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A  — with type of assignment 2 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A  • for short-circuit protection of the auxiliary switch required fuse gG: 10 A  Installation/ mounting/ dimensions  mounting position		A600 / Q600
• for short-circuit protection of the main circuit     — with type of coordination 1 required     — with type of assignment 2 required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions    **Mounting** position**   **Mounting** po		
— with type of coordination 1 required — with type of assignment 2 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A  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 DIN rail  height 68 mm width 90 mm  depth 73 mm  required spacing  ● with side-by-side mounting — forwards — backwards  6 mm 0 mm	•	
— with type of assignment 2 required  • 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  screw and snap-on mounting onto 35 mm DIN rail  height  68 mm  width  90 mm  depth  73 mm  required spacing  • with side-by-side mounting  — forwards  — backwards  6 mm  0 mm	•	-CAULONA DIAZED FOR ALECZED FOE OF A
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position		
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  screw and snap-on mounting onto 35 mm DIN rail  height  68 mm  width  90 mm  depth  73 mm  required spacing  • with side-by-side mounting  — forwards — backwards  6 mm  0 mm		
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; 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 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 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 surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward by +/- 22.5° on vertical mounting surface; can be tilted forward by +/- 22.5		ruse go: 10 A
backward by +/- 22.5° on vertical mounting surface  fastening method screw and snap-on mounting onto 35 mm DIN rail  height 68 mm  width 90 mm  depth 73 mm  required spacing  • with side-by-side mounting  — forwards — backwards 6 mm  0 mm		1/4000
height         68 mm           width         90 mm           depth         73 mm           required spacing		backward by +/- 22.5° on vertical mounting surface
width 90 mm  depth 73 mm  required spacing  • with side-by-side mounting  — forwards — backwards  6 mm  0 mm		
depth 73 mm  required spacing  ● with side-by-side mounting  — forwards — backwards  6 mm 0 mm		
required spacing  • with side-by-side mounting  — forwards  — backwards  6 mm  0 mm		
<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>6 mm</li> <li>0 mm</li> </ul>	· · · · · · · · · · · · · · · · · · ·	73 mm
<ul><li>forwards</li><li>backwards</li><li>6 mm</li><li>0 mm</li></ul>		
— backwards 0 mm	-	
— upwards 6 mm		
	— upwards	6 mm

— downwards	6 mm
— at the side	6 mm
• for grounded parts	O THIN
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— at the side	6 mm
— downwards	6 mm
for live parts	Othin
— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
Connections/ Terminals	Offiliti
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	**
at contactor for auxiliary contacts	screw-type terminals Screw-type terminals
of magnet coil	Screw-type terminals Screw-type terminals
type of connectable conductor cross-sections for main contacts	Sciew-type terminals
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
solid     solid or stranded	2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	2x (0.0 1.0 mm ), 2x (0.70 2.0 mm )
• for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
Safety related data	ZA (20 10), ZA (10 14)
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	1 000 000
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	75 %
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	20 a
61508	ID00
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529  Communication/ Protocol	finger-safe, for vertical contact from the front
	Vee
product function bus communication	Yes
protocol is supported AS-Interface protocol	No No
product function control circuit interface with IO link Certificates/ approvals	INU
	Profes (C. 10.1)
General Product Approval	Declaration of Conformity

**A** 

Confirmation









**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping

other

Railway







## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2316-8XB30-1AP6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2316-8XB30-1AP6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1AP6

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

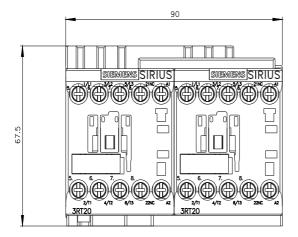
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2316-8XB30-1AP6&lang=en

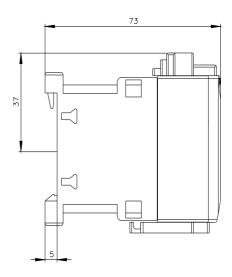
Characteristic: Tripping characteristics, I2t, Let-through current

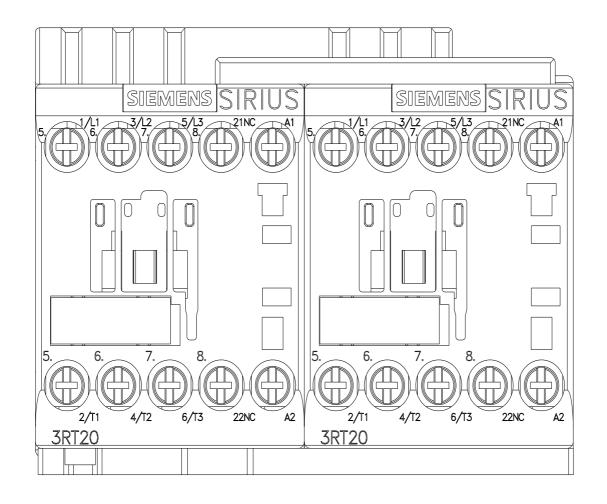
https://support.industry.siemens.com/cs/ww/en/ps/3RA2316-8XB30-1AP6/char

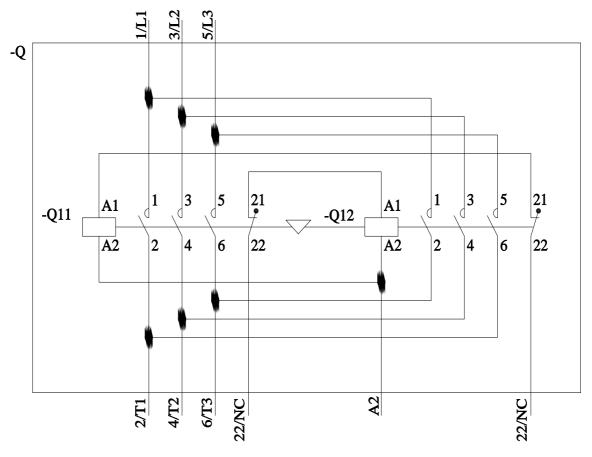
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2316-8XB30-1AP6&objecttype=14&gridview=view1









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