## **SIEMENS**

Data sheet 3RB3016-2SE0

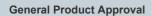


Overload relay 3...12 A Electronic For motor protection Size S00, Class 20E Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: Spring-type terminal Manual-Automatic-Reset

product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB3
General technical data	
size of overload relay	S00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	0.6 W
• per pole	0.2 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
<ul> <li>between main and auxiliary circuit</li> </ul>	690 V
shock resistance	15g / 11 ms
<ul> <li>according to IEC 60068-2-27</li> </ul>	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s <sup>2</sup> ; 10 cycles
thermal current	12 A
type of protection according to ATEX directive 2014/34/EU	Ex II (2) G [Ex e] [Ex d] [Ex px]; Ex II (2) D [Ex t] [Ex p]
certificate of suitability according to ATEX directive 2014/34/EU	PTB 09 ATEX 3001
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>during operation</li></ul>	-25 +60 °C
<ul><li>during storage</li></ul>	-40 +80 °C
<ul> <li>during transport</li> </ul>	-40 +80 °C
temperature compensation	-25 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	3 12 A
operating voltage	
• rated value	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V

operational current at AC-3e at 400 V rated value operating power  • for 3-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for Ac motors at 500 V at 50 Hz • for for Ac motors at 500 V at 50 Hz • for for Ac motors at 500 V at 50 Hz • for for for an ac motors at 500 V at 50 Hz • for for for an ac motors at 500 V at 50 Hz • for for for an ac motors at 500 V at 50 Hz • for forman contract for ac 500 V at 500 V	operating frequency rated value	50 60 Hz	
operating power  • for 3A melors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz  Auxiliary circuit  design of the auxiliary switch • note • at 110 V • at 110 V • at 110 V • at 120 V • at 110 V • at 120 V • at 120 V • at 120 V • at 110 V • at 120 V	operational current rated value	12 A	
• for 3-phase motions at 400 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz  Auxilliary zircuit  design of the auxilliary switch number of NC contacts for auxilliary contacts • for sunbar of NC contacts for auxilliary contacts • for contacts of auxilliary contacts • for contacts for auxilliary contacts • for contacts for auxilliary contacts • for mumber of CC contacts for auxilliary contacts • for the form auxiliary contacts • for auxiliary contacts • for a 120 V • for 120	operational current at AC-3e at 400 V rated value	12 A	
• for AC motors at 590 V at 50 Hz   156.5 kW	operating power		
of AC motors at 990 V at 50 Hz  Auxiliary circuit  design of the auxiliary switch number of NC contacts for auxiliary contacts oncle number of NC contacts for auxiliary contacts oncle number of NC contacts for auxiliary contacts oncle number of CO contacts for auxiliary contacts oncle number of CO contacts for auxiliary contacts oncle number of CO contacts for auxiliary contacts at AC-15 oncle oncle at 24 V oncle oncl oncle	<ul> <li>for 3-phase motors at 400 V at 50 Hz</li> </ul>	1.5 5.5 kW	
design of the auxiliary switch	<ul> <li>for AC motors at 500 V at 50 Hz</li> </ul>	1.5 5.5 kW	
design of the auxiliary switch number of NC contacts for auxiliary contacts 1 for contacts of number of NC contacts for auxiliary contacts 5 note 1 number of NC contacts for auxiliary contacts 5 note 1 number of CO contacts for auxiliary contacts 6 number of CO contacts for auxiliary contacts at AC-15 3 number of CO contacts for auxiliary contacts at AC-15 4 A A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	<ul> <li>for AC motors at 690 V at 50 Hz</li> </ul>	2.2 7.5 kW	
number of NC contacts for auxiliary contacts	Auxiliary circuit		
number of NC contacts for auxiliary contacts	design of the auxiliary switch	integrated	
note     number of NO contacts for auxiliary contacts     note     number of NO contacts for auxiliary contacts     note     number of CO contacts for auxiliary contacts     of 2 EV     out 110 V     out 125 V     out 125 V     out 125 V     out 126 V     out 127 V     out 127 V     out 128	•		
e note number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15  e at 24 V 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A		for contactor disconnection	
e note number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15  e at 24 V 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	number of NO contacts for auxiliary contacts	1	
number of CO contacts for auxiliary contacts at AC-15  • at 24 V • at 110 V • at 120 V • at 120 V • at 125 V • at 28 V • at 125 V • at 125 V • at 180 V • at 125 V •		for message "tripped"	
e al 24 V e at 110 V e at 125 V e at 125 V e at 25 V e at 230 V e at 60 V e at 120 V e at 120 V e at 60 V e at 220 V e at 20 V e at 220 V e at 20	number of CO contacts for auxiliary contacts		
at 124 V at 120 V at 120 V at 125 V at 230 V operational current of auxiliary contacts at DC-13 at 125 V at 230 V operational current of auxiliary contacts at DC-13 at 125 V at 100 V at 110 V at 110 V at 110 V at 125 V but 120 V  at 125 V but 120 V  cal 125 V but 120 V bricetive and monitoring functions trip class design of the overload release  CLASS 20E design of the overload release  CLASS 20E design of the overload release  CLASS 20E design of the overload release  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 but 12 A at 600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link but by or dassignment 2 required with type of conscipanent 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for information and the fuse information of the auxiliary switch required for conscitonals  product component removable terminal for auxiliary and control circuit rype of electrical connection for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit for auxiliary and control circuit for aux			
e at 120 V e at 125 V e at 220 V operational current of auxiliary contacts at DC-13  at 24 V e at 60 V e at 110 V e at 125 V e at 120 V e at 120 V e at 110 V e at 120 V e at 120 V e at 120 V e at 110 V e at 120 V e at 220 V elective and monitoring functions  trip class design of the overload release  ULCSS 20E design of the overload release electronic  ULCSA ratings  full-load current (FLA) for 3-phase AC motor e at 480 V rated value e at 600		4 A	
at 125 V at 230 V operational current of auxilliary contacts at DC-13 at 24 V at 60 V ot 20,55 A at 110 V ot 20,0 A at 125 V ot 20,0 A at 120 V ot 11 A  Protective and monitoring functions  trip class design of the overload release UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 600 V rated value at 600 V rated value other contact rating of auxillary 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 coordination 1 required for short-circuit protection of the auxillary switch required  for short-circuit protection of the auxillary switch required  Installation mounting/ dimensions  mounting position fastening method height  width depth 90 mm  Connections/ Terminals  product component removable terminal for auxillary and control circuit type of electrical connection  for main contacts  for auxillary and control circuit  for auxillary and co	● at 110 V	4 A	
at 230 V operational current of auxiliary contacts at DC-13  at 24 V at 60 V 0.55 A at 110 V 0.3 A at 125 V 0.3 A ot 125 V 0.11 A  Protective and monitoring functions  trip class design of the overload release  ULIOSA ratings  full-load current (FLA) for 3-phase AC motor at 60 V rated value at 600 V rated value ontact 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 with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required muniting position fastening method height for auxiliary contacts for auxiliary and control circuit report of electrical connection for auxiliary and control circuit for auxiliary and control circuit report occurrent of electrical connectors for main current circuit for auxiliary and control circuit report occurrent of the circuit connectors for main current circuit for auxiliary and control circuit for auxiliary and contr	• at 120 V	4 A	
e at 24 V 2 A e at 60 V 0.55 A e at 110 V 0.3 A e at 125 V 0.3 A e at 220 V 0.11 A  Protective and monitoring functions trip class design of the overload release electronic  UL/CSA ratings  UL/CSA ratings  UL/CSA ratings  UL/CSA ratings  UL/CSA ratings  ### Titll-load current (FLA) for 3-phase AC motor e at 480 V rated value 12 A e at 600 V rated value 12 A 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 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 system of the circuit specific of the auxiliary switch required  for short-circuit system of the circuit specific of the auxiliary switch required  for sho	• at 125 V	4 A	
* at 24 V * at 80 V * at 110 V * at 112 V * at 125 V * at 122 V * 0.11 A  Protective and monitoring functions  trip class design of the overload release  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 * 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 coordination 1 required * for short-circuit protection of the auxiliary switch required  Installation/ mounting dimensions  mounting position fastening method height 72 mm width dopth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  * for main current circuit * for auxiliary and control circuit arrangement of electrical connectors  * for main current circuit type of connectable conductor cross-sections  * for main current circuit  * for main current circuit  * poid or stranded — solid — solid or stranded — finely stranded with core end processing — at AWG cables for main cortacts  * for general contacts  * for main cortacts  * at AWG cables for main cortacts  * for general contacts  * for main cortacts  *	● at 230 V	3 A	
at 160 V at 175 V at 175 V at 125 C at	operational current of auxiliary contacts at DC-13		
at 110 V at 125 V at 122 V 0.3 A 0.11 A  Protective and monitoring functions  trip class design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 80 V rated value at 600 V rated value tontact rating of auxiliary contacts according to UL 8600 / R300  Short-circuit protection  design of the fuse link or for short-circuit protection of the main circuit —with type of coordination 1 required fuse gG: 50 A, RK5: 45 A gG: 50 A, J: 45 A fuse gG: 6 A  Installation/ mounting/ dimensions  mounting position fastening method height 72 rm width depth  Connections/ Terminals  Product component removable terminal for auxillary and control circuit or for main current circuit or for main current circuit spring-loaded terminals  Top and bottom  **Top and bottom  **	● at 24 V	2 A	
• at 125 V 0.11 A  Protective and monitoring functions  trip class CLASS 2DE electronic  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value 12 A contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions  mounting position fastening method height width dopth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit • for auxiliary and control circuit connections • for auxiliary and control circuit circuit type of electrical connection • for main current circuit • for auxiliary and control circuit connectable conductor cross-sections • for main contacts  — solid — solid or stranded — finely stranded with core end processing — finely stranded with core end processing • at AWG cables for main contacts  • at AWG cables for main contacts  • at AWG cables for main contacts  1 x (0.5 2.5 mm²)	● at 60 V	0.55 A	
• at 220 V  Protective and monitoring functions  trip class design of the overload release electronic  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 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 coordination 1 required • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position fastening method height width 45 mm depth 90 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit so for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded with core end processing • at AWG cables for main contacts  • at AWG cables for main contacts  • at AWG cables for main contacts  • ta AWG cables for main contacts  1x (0.5 2.5 mm²)	● at 110 V	0.3 A	
trip class clestronic class clectronic clears clear clears clear c	● at 125 V	0.3 A	
trip class design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V reted value • with type of assignment 2 required — with type of coordination 1 required — with type of assignment 2 required • of or short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions  mounting position fastening method height vidth depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit vpo of connectable conductor cross-sections • for main current circuit type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded without core end processing • at AWG cables for main contacts  - to AB A A A A A A A A A A A A A A A A A A	• at 220 V	0.11 A	
design of the overload release  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 600 V rated value  • at 600 V rated value  • at 600 V rated value    Short-circuit protection    With syle of coordination 1 required	Protective and monitoring functions		
### DUCSA ratings    full-load current (FLA) for 3-phase AC motor   • at 480 V rated value   12 A     • at 600 V rated value   12 A     • for short-circuit protection of the main circuit     — with type of coordination 1 required   9G: 50 A, RK5: 45 A     — with type of assignment 2 required   9G: 50 A, J: 45 A     • for short-circuit protection of the auxiliary switch required   9G: 50 A, J: 45 A     • for short-circuit protection of the auxiliary switch required   9G: 50 A, J: 45 A     • for short-circuit protection of the auxiliary switch required   9G: 50 A, J: 45 A     • for short-circuit protection of the auxiliary switch required   9G: 50 A, J: 45 A     • for short-circuit protection of the auxiliary and control circuit   45 mm     • for auxiliary and control circuit   90 mm     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5 pring-loaded terminals     • for auxiliary and control circuit   5	trip class	CLASS 20E	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  • at 600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required  installation/ mounting/ dimensions  mounting position fastening method height 72 mm vidth depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connecton • for main current circuit of or main current circuit type of connectable conductor cross-sections • for main contacts  - solid - solid or stranded - finely stranded withot core end processing • at AWG cables for main contacts  12 A  8600 / R300   SHOTCH  Gravillary contacts in a picurent  gG: 50 A, RK5: 45 A  gG: 50 A, RK	design of the overload release	electronic	
at 480 V rated value at 600 V rated value at 600 V rated value before 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 coordination 1 required fastening method required  Installation/mounting/dimensions mounting position fastening method height vidth depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts  for minely stranded with core end processing at AWG cables for main contacts  12 A 12	UL/CSA ratings		
at 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	full-load current (FLA) for 3-phase AC motor		
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • 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 fuse gG: 50 A, RK5: 45 A  gG: 50 A, J: 45 A  fuse gG: 6 A  respectively a many  Contactor mounting  **Product components of the main circuit arrangement of electrical connection  • for main current circuit arrangement of electrical connectors for main current circuit arrangement of electrical connectors  • for main contacts  — solid  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts  • type of connectables for main contacts  - finely stranded without core end processing • at AWG cables for main contacts   **Top and bottom*  **Top and bottom*  1x (0.5 4 mm²)  1x (0.5 4 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)	<ul> <li>at 480 V rated value</li> </ul>	12 A	
Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG: 50 A, RK5: 45 A gG: 50 A, J: 45 A fuse gG: 6 A  required nequired solve gG: 6 A  fuse gG: 6 A  fuse gG: 6 A   mounting position fastening method height your mounting position fastening method height your mounting poly members  product component removable terminal for auxiliary and control circuit type of electrical connection  • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections  • for main contacts  — solid — solid or stranded — finely stranded with our end processing • at AWG cables for main contacts  • at AWG cables for main contacts  1x (0.5 2.5 mm²)	<ul> <li>at 600 V rated value</li> </ul>	12 A	
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 9G: 50 A, RK5: 45 A 9G: 50 A, J: 45 A fuse gG: 6 A  Installation/ mounting/ dimensions  mounting position fastening method height 72 mm width depth 90 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts  — solid — solid or stranded — finely stranded without core end processing • at AWG cables for main contacts  • at AWG cables for main contacts    Section 1	contact rating of auxiliary contacts according to UL	B600 / R300	
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    statilation/ mounting/ dimensions    mounting position	Short-circuit protection		
- with type of coordination 1 required - with type of assignment 2 required of for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position fastening method height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection of or auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections of or main contacts - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts  with type of selectrical connectors - with type of connect or main current - finely stranded without core end processing - at AWG cables for main contacts - solid - solid on stranded - finely stranded without core end processing - at AWG cables for main contacts - solid - solid on stranded on the strands of the solid on the solid o	design of the fuse link		
- with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position fastening method height width depth  Contactor mounting for auxiliary and control circuit type of electrical connection  • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections  • for main contacts  - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts  • for short-circuit protection of tuse gG: 6 A  fuse gG: 50 A, J: 45 A fuse gG: 6 A  f	<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position fastening method height width depth 72 mm width depth 90 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 50 A, RK5: 45 A	
Installation/ mounting/ dimensions  mounting position fastening method height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection	<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 50 A, J: 45 A	
Installation/ mounting/ dimensions  mounting position fastening method height width depth 72 mm 45 mm depth 90 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit of for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts  - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts  - solid - finely stranded without core end processing - at AWG cables for main contacts  - solid or stranded - finely stranded without core end processing - at AWG cables for main contacts  - solid or stranded - finely stranded without core end processing - solid or stranded or stranded - finely stranded without core end processing - solid or stranded or stranded - finely stranded without core end processing - solid or stranded or stranded - finely stranded without core end processing - solid or stranded or stranded - solid or stranded -		fuse gG: 6 A	
mounting position fastening method height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections  • for main contacts  - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts  any  Contactor mounting  Yes  Yes  Yes  Types  Yes  Yes  1 x (0.5 4 mm²)  1 x (0.5 4 mm²)  1 x (0.5 4 mm²)  1 x (0.5 2.5 mm²)	·		
fastening method height width depth 45 mm 90 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit of or auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts  - solid - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts  1 Contactor mounting 72 mm 45 mm 90 mm  Yes  spring-loaded terminals spring-loaded terminals Top and bottom  1 x (0.5 4 mm²) 1 x (0.5 4 mm²) 1 x (0.5 4 mm²) 1 x (0.5 2.5 mm²)	Installation/ mounting/ dimensions		
height width 45 mm  depth 90 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts  - solid 1x (0.5 4 mm²) - solid or stranded 1x (0.5 4 mm²) - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for main contacts  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)		any	
width depth 90 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  • for main current circuit spring-loaded terminals  • for auxiliary and control circuit spring-loaded terminals  arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections  • for main contacts  - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts  1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²)	_	•	
depth 90 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections  • for main contacts  - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts  1x (0.5 4 mm²) 1x (0.5 2.5 mm²)	_		
product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts  Yes  Spring-loaded terminals  Top and bottom  1x (0.5 4 mm²)  1x (0.5 4 mm²)  1x (0.5 4 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)			
product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts  Yes  Spring-loaded terminals  Top and bottom  1x (0.5 4 mm²)  1x (0.5 4 mm²)  1x (0.5 4 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)		90 mm	
and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts  1x (0.5 4 mm²)  1x (0.5 4 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)			
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> <li>spring-loaded terminals</li> <li>Top and bottom</li> <li>1x (0.5 4 mm²)</li> <li>1x (0.5 4 mm²)</li> <li>1x (0.5 4 mm²)</li> <li>1x (0.5 2.5 mm²)</li> </ul>		Yes	
<ul> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> <li>spring-loaded terminals</li> <li>Top and bottom</li> <li>1x (0.5 4 mm²)</li> <li>1x (0.5 4 mm²)</li> <li>1x (0.5 4 mm²)</li> <li>1x (0.5 2.5 mm²)</li> </ul>	type of electrical connection		
arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections			
type of connectable conductor cross-sections  • for main contacts  — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts  1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²)	-		
<ul> <li>for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— at AWG cables for main contacts</li> <li>1x (0.5 4 mm²)</li> <li>1x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²)</li> <li>1x (20 12)</li> </ul>	•	Top and bottom	
<ul> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> <li>1x (0.5 4 mm²)</li> <li>1x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²)</li> <li>1x (20 12)</li> </ul>	type of connectable conductor cross-sections		
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<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>1x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²)</li> <li>1x (20 12)</li> </ul>	— solid	1x (0.5 4 mm²)	
<ul> <li>— finely stranded without core end processing</li> <li>1x (0.5 2.5 mm²)</li> <li>1x (20 12)</li> </ul>	<ul><li>— solid or stranded</li></ul>		
• at AWG cables for main contacts 1x (20 12)	<ul> <li>finely stranded with core end processing</li> </ul>		
type of connectable conductor cross-sections		1x (20 12)	
	type of connectable conductor cross-sections		

• for auxiliary contacts - solid 2x (0.25 ... 1.5 mm²) 2x (0,25 ... 1,5 mm<sup>2</sup>) - solid or stranded - finely stranded with core end processing 2x (0.25 ... 1.5 mm²) - finely stranded without core end processing 2x (0.25 ... 1.5 mm<sup>2</sup>) • at AWG cables for auxiliary contacts 1x (24 ... 16), 2x (24 ... 16) design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv PZ 2 Safety related data protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protocol type of voltage supply via input/output link master No Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 • due to conductor-earth surge according to IEC 2 kV (line to earth) corresponds to degree of severity 3 61000-4-5 • due to conductor-conductor surge according to IEC 1 kV (line to line) corresponds to degree of severity 3 61000-4-5 • due to high-frequency radiation according to IEC 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 61000-4-6 kHz field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge display version for switching status Slide switch



EMC



Certificates/ approvals

Confirmation









For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



## Marine / Shipping





LRS









## other

Confirmation

## **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=3RB3016-2SE0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RB3016-2SE0$ 

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-2SE0

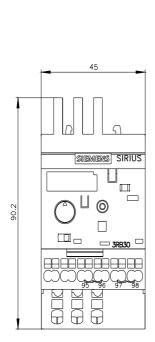
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RB3016-2SE0&lang=en

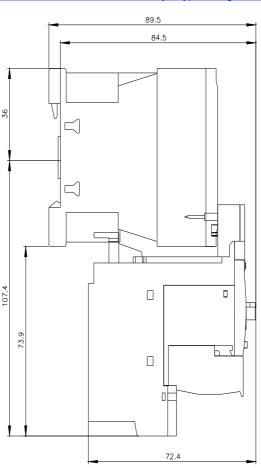
Characteristic: Tripping characteristics, I2t, Let-through current

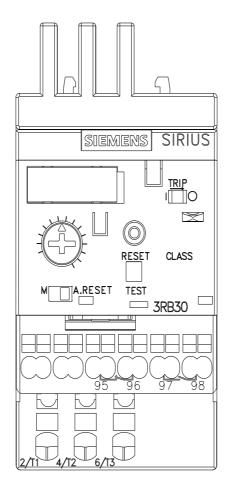
https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-2SE0/char

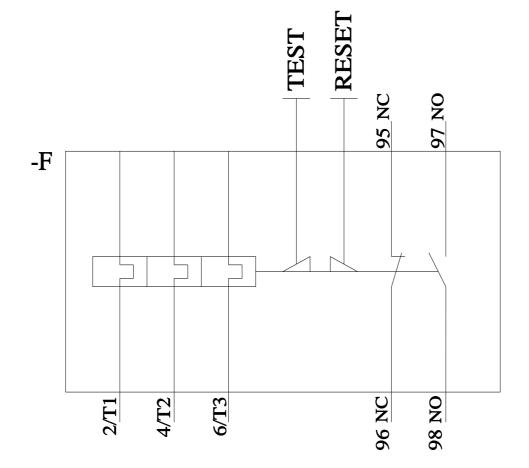
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3016-2SE0&objecttype=14&gridview=view1









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