## **SIEMENS**

Data sheet 3RB2066-1GC2



Overload relay 55...250 A for motor protection Size S10/S12, Class 10E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset

product brand name	SIRIUS		
product designation	solid-state overload relay		
product type designation	3RB2		
General technical data			
size of overload relay	S10, S12		
size of contactor can be combined company-specific	S10, S12		
insulation voltage with degree of pollution 3 at AC rated value	1 000 V		
surge voltage resistance rated value	8 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		
• acc. to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms		
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles		
thermal current	250 A		
recovery time after overload trip			
<ul> <li>with automatic reset typical</li> </ul>	3 min		
<ul> <li>with remote-reset</li> </ul>	0 min		
with manual reset	0 min		
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 06 ATEX 3001		
reference code acc. to IEC 81346-2	F		
Substance Prohibitance (Date)	01.07.2006 00:00:00		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
during storage	-40 +80 °C		
during transport	40 +80 °C		
temperature compensation	-25 +60 °C		
relative humidity during operation	10 95 %		
Main circuit			

number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  • rated value  poperating proquency rated value  operating proquent rated value  poperating proquent rated value  poperating proquent rated value  • 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  • note  • note  • note  • note  • note  • note  • rate of AC outlets for auxiliary contacts  • note  • at 110 V  • at 120 V  • at 120 V  • at 120 V  • at 125 V  • at 230 V  • at 125 V  • at 230 V  • at 110 V  • at 125 V  • at 220 V  • at 110 V  • at 125 V  • at 220 V  • at 110 V  • at 125 V  • at 220 V  • at 220 V  • at 250 A   contact rating of auxiliary contacts at AC-15  • at 26 W  • at 27 V  • at 10 V  • at 28 V  • at 30 V  • at 32 OV  • at 110 V  • at 32 OV				
current-dependent overload release operating voltage  • rated value • at AC-3 rated value maximum operating frequency rated value operating frequency rated value operating frequency rated value operating frequency rated value • of 3-phase motions at 400 V at 50 Hz • or 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 • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • at 24 V • at 110 V • at 120 V • at 120 V • at 120 V • at 125 V • at 3230 V • at 110 V • at 125 V • at 110 V • at 126 V • at 110 V • at 127 V • at 110 V • at 128 V • at 110 V • at 128 V • at 110 V • at 128 V • at 110 V • at 129 V • at 110 V • at 120 V • at 100 V • at 110 V • at 120 V • at 100 V • at 110 V • at 120 V • at 100 V • at 110 V • at 120 V • at 100 V • at 110 V • at 120 V • at 100 V • at 110 V • at 100 V • at 110 V • at 100 V	number of poles for main current circuit	3		
e rated value 1000 V operating frequency rated value 50 60 Hz operating frequency rated value 50 60 Hz operating prower 250 60 Hz operating prower 6 for 3-phase motors at 400 V at 50 Hz 50 50 132 kW of not Amotors at 500 V at 50 Hz 45 160 kW of not Amotors at 500 V at 50 Hz 55 250 kW Availlary ceruli design of the auxiliary switch 70 contacts for auxiliary contacts 10 for contactor disconnection 70 contacts for auxiliary contacts 10 for contacts of southern of NC contacts for auxiliary contacts 10 for contacts of southern of CO contacts for auxiliary contacts 10 for contacts of southern of CO contacts for auxiliary contacts 10 for contacts of southern of CO contacts for auxiliary contacts 10 for contacts of southern of CO contacts of southern of CO contacts at AC-15 ear 24 V eat 110 V 4A eart 120 V 6A e		55 250 A		
e at AC-3 related value maximum operational current rated value 50 60 Hz operational current rated value 250 A   e for 2-phose motors at 400 V at 50 Hz 45 160 kW   e for AC motors at 500 V at 50 Hz 45 160 kW   e for AC motors at 500 V at 50 Hz 45 160 kW   e for AC motors at 500 V at 50 Hz 45 160 kW   e for AC motors at 500 V at 50 Hz 45 160 kW   e for AC motors at 500 V at 50 Hz 55 250 kW    Auxiliary circuit   design of the usuiliary switch   number of NC contacts for auxiliary contacts 1   e note	operating voltage			
operating frequency rated value operating power  • for 3-phase motors at 400 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz  • for AC motors at 590 V at 50 Hz  design of the auxiliary switch number of NC contacts for auxiliary contacts • note  number of NC contacts for auxiliary contacts • note  number of NO contacts for auxiliary contacts • note  number of CO contacts for auxiliary contacts • note  number of CO contacts for auxiliary contacts • note  number of CO contacts for auxiliary contacts • note  number of CO contacts for auxiliary contacts • note  • at 24 V • at 110 V • at 1120 V • at 125 V • at 230 V  operational current of auxiliary contacts at DC-13 • at 24 V • at 80 V • at 125 V • at 80 V • at 110 V • at 110 V • at 110 V • at 125 V • at 220 V  operational current of auxiliary contacts at DC-13 • at 22 V • at 80 V • at 125 V • at 120 V • at 110 V • at 125 V • at 120 V • at 110 V • at 125 V • at 120 V • at 125 V • at 125 V • at 120 V • at 125 V • at 120 V • at 125 V • at 125 V • at 120 V	rated value	1 000 V		
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 900 V at 50 Hz • for AC motors at 900 V at 50 Hz • for AC motors at 900 V at 50 Hz • for AC motors at 900 V at 50 Hz • for AC motors at 900 V at 50 Hz • for AC motors at 900 V at 50 Hz • note  number of NC contacts for auxiliary contacts • note  number of NC contacts for auxiliary contacts • note  number of CO contacts for auxiliary contacts • note  operational current of auxiliary contacts at AC-15 • at 24 V • at 110 V • at 125 V • at 220 V • at 125 V • at	<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V		
Operating power  • for 3-phase motors at 400 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz • for AC motors at 590 V at 50 Hz  ### Actility Country    design of the auxiliary switch   Integrated   1	operating frequency rated value	50 60 Hz		
for 7-sphase 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 AC motors at 500 V at 50 Hz     for AC motors at 500 V at 50 Hz     for mote     number of NC contacts for auxiliary contacts     in onte     number of NC contacts for auxiliary contacts     in onte     number of CO contacts for auxiliary contacts     in at 24 V     at 110 V     for at 120 V     for at 100 V     for at 120 V     for at 100 V	operational current rated value	250 A		
for 7-sphase 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 AC motors at 500 V at 50 Hz     for AC motors at 500 V at 50 Hz     for mote     number of NC contacts for auxiliary contacts     in onte     number of NC contacts for auxiliary contacts     in onte     number of CO contacts for auxiliary contacts     in at 24 V     at 110 V     for at 120 V     for at 100 V     for at 120 V     for at 100 V	operating power			
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts • note • note  number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • a note 1 operational current of auxiliary contacts at AC-15 • at 24 V • at 110 V • at 120 V • at 125 V • at 230 V • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V • at 120 V • at	• for 3-phase motors at 400 V at 50 Hz	30 132 kW		
Auxiliary circuit  design of the auxiliary switch number of NC contacts for auxiliary contacts • note  number of NO contacts for auxiliary contacts • note  number of NO contacts for auxiliary contacts • note  number of CO contacts for auxiliary contacts • note  number of CO contacts for auxiliary contacts • note  number of CO contacts for auxiliary contacts • at 24 V • at 110 V • at 110 V • at 120 V • at 125 V • at 125 V • at 125 V • at 160 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 10 V • at 125	• for AC motors at 500 V at 50 Hz	45 160 kW		
design of the auxiliary switch	<ul> <li>for AC motors at 690 V at 50 Hz</li> </ul>	55 250 kW		
design of the auxiliary switch	Auxiliary circuit			
number of NC contacts for auxiliary contacts  • note  number of NO contacts for auxiliary contacts  • note  number of CO contacts for auxiliary contacts  • note  number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15  • at 24 V		integrated		
note     number of NO contacts for auxiliary contacts     note     number of CO contacts for auxiliary contacts     number of CO contacts for auxiliary contacts     operational current of auxiliary contacts at AC-15     at 24 V     at 110 V     4 A     at 110 V     4 A     at 120 V     at 125 V     at 230 V     operational current of auxiliary contacts at DC-13     at 24 V     at 120 V     at 24 V     at 25 V     operational current of auxiliary contacts at DC-13     at 24 V     at 20 V     at 20 V     at 10 V     at 20 V     at 10 V     at 20 V     at 10 V				
number of NO contacts for auxiliary contacts				
e note number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15  e at 24 V e at 110 V 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A				
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15				
operational current of auxiliary contacts at AC-15  • at 24 V  • at 110 V  • at 120 V  • at 125 V  • at 230 V  operational current of auxiliary contacts at DC-13  • at 24 V  • at 60 V  • at 10 V  • at 10 V  • at 10 V  • at 24 V  • at 60 V  • at 110 V  • at 125 V  • at 10 V  • at 110 V  • at 125 V  • at 10 V  • at 110 V  • at 125 V  • at 10 V  • at 125 V  • at 20 V  Out at 110 V  • at 20 V  • at 20 V  Protective and monitoring functions  trip class  design of the overload release  UL/GSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 680 V rated value  • at 680 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  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • 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 character at Canada and Contactor mounting/stand-alone installation  height  119 mm  • for main current circuit  busbar connection				
at 24 V at 110 V at 120 V at 120 V at 125 V at 230 V operational current of auxiliary contacts at DC-13  at 24 V at 60 V at 100 V at 110 V at 110 V at 125 V at 100 V at 120 V at 100 V at 120 V  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 of or short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required of or short-circuit protection of the auxiliary switch required fustallation/ mounting/ dimensions mounting position fastening method height height midth 119 mm depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection  for main current circuit busbar connection	·			
at 110 V at 125 V at 125 V at 125 V at 230 V  operational current of auxiliary contacts at DC-13 at 24 V at 60 V at 100 V at 110 V at 125 V at 110 V at 125 V at 120 V at 100 V at 125 V at 120 V at 120 V at 125 V at 120 V at 120 V at 120 V  contact ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 800 V rated value at 600 V rated value		4.4		
e at 120 V e at 125 V e at 230 V operational current of auxiliary contacts at DC-13 e at 24 V e at 60 V e at 110 V e at 125 V e at 110 V e at 125 V e at 125 V e at 110 V e at 125 V e at 126 V e at 127 V e at 10 V e at 128 V e at 128 V e at 128 V e at 220 V e Protective and monitoring functions  trip class  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor e at 480 V rated value e at 600 V rated value e ontact rating of auxiliary contacts according to UL Short-circuit protection  design of the fuse link e for short-circuit protection of the main circuit — with type of coordination 1 required e with type of coordination 1 required gc; 500 A, Class L: 700 A gc; 500 A fuse gC: 6 A				
at 125 V at 230 V operational current of auxillary contacts at DC-13 at 24 V at 60 V ot 10 0.55 A at 110 V ot 125 V at 125 V at 125 V ot				
operational current of auxiliary contacts at DC-13  • at 24 V • at 60 V • at 110 V • at 125 V • at 1220 V  Protective and monitoring functions  trip class				
operational current of auxiliary contacts at DC-13  • at 24 V  • at 60 V  • at 110 V  • at 125 V  • at 220 V  • at 220 V  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 • for short-circuit protection of the main circuit  — with type of coordination 1 required   — 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  119 mm  width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit busbar connection				
at 24 V at 60 V billion Signature at 110 V at 110 V at 125 V billion Signature at 220 V brotective and monitoring functions trip class design of the overload release design of the overload release  classing of the overload release design of the overload release  classing of the overload release design of the overload release  classing full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value billion 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 sasignment 2 required for short-circuit protection of the auxiliary switch for short-circuit protection of the auxiliary switch for short-circuit protection of the auxiliary switch for short-circuit protection on the short protection of the switch short protection on the short protection on		_ 3 A		
at 10 V at 115 V at 125 V at 1220 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 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  1 stallation/ mounting/ dimensions  mounting position  fastening method  Contactor mounting/stand-alone installation  height  119 mm  depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  for main current circuit  busbar connection		0.0		
at 110 V at 125 V at 125 V but 125 V contact rating of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 480 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 assignment 2 required wift type of assignment 2 required for short-circuit protection of the auxiliary switch required frequired  Installation/ mounting/ dimensions  mounting position fastening method contactor mounting/ stand-alone installation height depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of redectrical connection for main current circuit busbar connection				
at 125 V at 220 V  at 220 V  .11 A  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 800 V rated value at 800 V rated value at 800 V rated value before verticuit 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 required  nounting position fastening method height depth  Connections/ Terminals product component removable terminal for auxiliary and control circuit  type of electrical connection for main current circuit busbar connection  of main current circuit busbar connection  outling busbar connection  outling connections  Outling A  O				
e at 220 V  Protective and monitoring functions  trip class				
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 250 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  119 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit  vertical connection  busbar connection				
trip class CLASS 10E design of the overload release electronic  UL/CSA ratings full-load current (FLA) for 3-phase AC motor		0.11 A		
design of the overload release electronic  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value 250 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 gG: 500 A, Class L: 700 A  — with type of assignment 2 required gG: 500 A  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position any  fastening method Contactor mounting/stand-alone installation  height 119 mm  width 120 mm  depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit business  busbar connection		01.100.40		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value 250 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 — with type of assignment 2 required gG: 500 A, Class L: 700 A gG: 500 A  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width depth 120 mm depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit busbar connection	-			
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value 250 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 gG: 500 A, Class L: 700 A with type of assignment 2 required gG: 500 A for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position fastening method height 119 mm width depth Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit busbar connection		electronic		
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     of reshort-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         of ror 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 ror main current circuit  busbar connections				
ontact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link     ofor short-circuit protection of the main circuit				
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 depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit  B600 / R300  B600 /				
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 gG: 500 A, Class L: 700 A  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit  busbar connection				
design of the fuse link       for short-circuit protection of the main circuit         — with type of coordination 1 required       gG: 500 A, Class L: 700 A         — with type of assignment 2 required       gG: 500 A         • for short-circuit protection of the auxiliary switch required       fuse gG: 6 A         Installation/ mounting/ dimensions       any         fastening method       Contactor mounting/stand-alone installation         height       119 mm         width       120 mm         depth       155 mm         Connections/ Terminals       Yes         product component removable terminal for auxiliary and control circuit       Yes         type of electrical connection       busbar connection		B600 / R300		
for short-circuit protection of the main circuit     — with type of coordination 1 required     — with type of assignment 2 required     of required	Short-circuit protection			
- with type of coordination 1 required - with type of assignment 2 required 9G: 500 A, Class L: 700 A  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position fastening method height 119 mm width 120 mm depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit  gG: 500 A, Class L: 700 A gG: 500 A fuse gG:				
— 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  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  gG: 500 A  fuse gG: 6 A  fuse gG: fu	design of the fuse link			
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection     for main current circuit  fuse gG: 6 A  fuse gG: 6 A  fuse gG: 6 A  required  fuse gG: 6 A  required  Any  Fuse  Fuse give a product on auxiliation  fuse give any	design of the fuse link  • for short-circuit protection of the main circuit			
Installation/ mounting/ dimensions  mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm  Connections/ Terminals product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit busbar connection	design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required	gG: 500 A, Class L: 700 A		
mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit  any Contactor mounting/stand-alone installation  119 mm  120 mm  155 mm  Yes  busbar connection	<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul>	gG: 500 A		
fastening method  height  width  120 mm  depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  Contactor mounting/stand-alone installation  119 mm  Yes  Yes	<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 500 A		
height width 120 mm depth 155 mm  Connections/ Terminals product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit  119 mm Yes  120 mm Yes	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	gG: 500 A		
width depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection • for main current circuit  120 mm Yes  Ves  busbar connection	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	gG: 500 A fuse gG: 6 A		
depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit busbar connection	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	gG: 500 A fuse gG: 6 A any		
Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  ● for main current circuit  busbar connection	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	gG: 500 A fuse gG: 6 A  any Contactor mounting/stand-alone installation		
product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  Yes  busbar connection	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	gG: 500 A fuse gG: 6 A  any Contactor mounting/stand-alone installation 119 mm		
type of electrical connection  • for main current circuit busbar connection	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	gG: 500 A fuse gG: 6 A  any Contactor mounting/stand-alone installation 119 mm 120 mm		
• for main current circuit busbar connection	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  depth	gG: 500 A fuse gG: 6 A  any Contactor mounting/stand-alone installation 119 mm 120 mm		
	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  depth  Connections/ Terminals  product component removable terminal for auxiliary and	gG: 500 A fuse gG: 6 A  any  Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm		
• for auxiliary and control circuit screw-type terminals	design of the fuse link	gG: 500 A fuse gG: 6 A  any  Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm		
	design of the fuse link	gG: 500 A fuse gG: 6 A  any Contactor mounting/stand-alone installation 119 mm 120 mm 155 mm		

arrangement of electrical connectors for main current circuit	Top and bottom			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)			
<ul><li>— solid or stranded</li></ul>	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 14)			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	20 22 N·m			
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m			
design of the thread of the connection screw				
<ul> <li>for main contacts</li> </ul>	M10			
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3			
Safety related data				
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover			
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover			
Communication/ Protocol				
type of voltage supply via input/output link master	No			
Electromagnetic compatibility				
conducted interference				
• due to burst acc. to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3			
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV (line to earth) corresponds to degree of severity 3			
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV (line to line) corresponds to degree of severity 3			
<ul> <li>due to high-frequency radiation acc. to IEC 61000- 4-6</li> </ul>	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz			
field-based interference acc. to IEC 61000-4-3	10 V/m			
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge			
Display				
display version for switching status	Slide switch			
Certificates/ approvals				
General Product Approval		EMC	For use in hazard- ous locations	













Declaration of Conformity

**Test Certificates** 

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

Miscellaneous

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=3RB2066-1GC2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2066-1GC2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB2066-1GC/

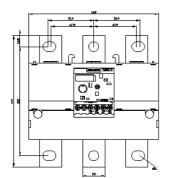
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

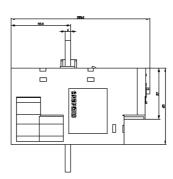
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB2066-1GC2&lang=en

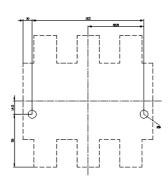
Characteristic: Tripping characteristics, I2t, Let-through current

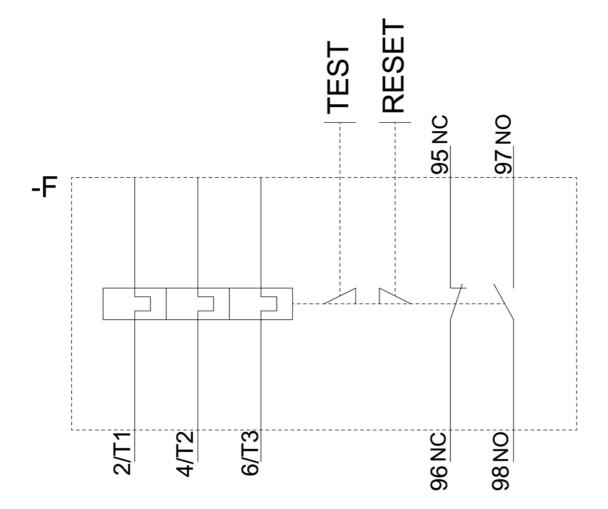
https://support.industry.siemens.com/cs/ww/en/ps/3RB2066-1GC2/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2066-1GC2&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2066-1GC2&objecttype=14&gridview=view1</a>









last modified: 12/15/2020 🖸