## **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 protective separation 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	
between main and auxiliary circuit	690 V	
shock resistance	15g / 11 ms	
according to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms	
thermal current	250 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 06 ATEX 3001	
reference code according to IEC 81346-2	F	
Substance Prohibitance (Date)	07/01/2006	
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8	
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	3	
adjustable current response value current of the current- dependent overload release	55 250 A	
operating voltage		
rated value	1 000 V	
at AC-3e rated value maximum	1 000 V	
operating frequency rated value	50 60 Hz	
operational current rated value	250 A	
operational current at AC-3e at 400 V rated value	250 A	

spensing power  * for 5-phase motion 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 Contacts for auxillary contacts  * for contacts for auxillary contacts  * for contacts of NC contacts for auxillary contacts  * for contacts of Contacts for auxillary contacts  * for contacts of CO contacts for auxillary contacts  * for contacts of CO contacts for auxillary contacts  * for contacts of CO contacts for auxillary contacts at AC-16  * for contacts of CO contacts for auxillary contacts at AC-16  * for contacts of CO contacts for auxillary contacts at AC-16  * for contacts of CO contacts for auxillary contacts at AC-16  * for contacts of CO contacts for auxillary contacts at AC-16  * for contacts of CO contacts for auxillary contacts at AC-16  * for contacts of auxillary contacts at DC-13  * for contacts of auxillary contacts at DC-13  * for contacts of auxillary contacts at DC-13  * for contact for auxillary contacts according to U.  * for contact rating of auxillary contacts according to U.  * for short-circul protection of the main crout  * for short-circul protection of the main crout  * for short-circul protection of the auxillary avintor required  * for short-circul protection of the auxillary avintor required  * for short-circul protection of the auxillary avintor required  * for for auxillary contacts  * for auxillary contacts		
For AC motions al 500 V at 50 Hz   55 _ 250 NW		
## Ac Criticis and Book 14 So P.E.  ## Activities a		
Auxiliary circuit design of the auxiliary switch integrated number of NC contacts for auxiliary contacts • note •		
design of the auxiliary switch number of NC contacts for auxiliary contacts 1 note 1 n		55 250 kW
number of NC contacts for auxiliary contacts  • note  for contactor disconnection  number of NO contacts for auxiliary contacts  • note  number of CO contacts for auxiliary contacts  • note  operational current of auxiliary contacts  • at 24 V  • at 110 V  • at 120 V  • at 123 V  • at 120 V  • at 125 V  • at 124 V  • at 110 V  • at 125 V  • at 125 V  • at 125 V  • at 110 V  • at 125 V  • at 125 V  • at 126 V  • at 126 V  • at 100 V  • os 55 A  • at 110 V  • at 126 V  • at 127 V  • at 128 V  • at 100 V retact vitue  • at 600 V retact vitue  • at 100 V retact vitue  •		
number of NO contacts for auxiliary contacts 1		
number of NO contacts for auxiliary contacts  * note:  *	-	
nonce     number of CO contacts for auxiliary contacts     operational current of auxiliary contacts at AC-15     old 24 V     old 110 V     old 120 V     old 120 V     old 120 V     old 220 V     operational current of auxiliary contacts at DC-13     old 230 V     operational current of auxiliary contacts at DC-13     old 220 V     old 100 V     old 220 V     old 100 V     old 220 V     old 100 V     old 120 V		
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 120 V  at 120 V  at 120 V  at 120 V  operational current of auxiliary contacts at DC-13  at 280 V  operational current of auxiliary contacts at DC-13  at 280 V  operational current of auxiliary contacts at DC-13  at 120 V  ot 100 V  at 110 V  ot 110 V  ot 120 V		
• at 24 V		0
e at 110 V 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	•	
e at 120 V e at 128 V e at 230 V 3 A operational current of auxillary contacts at DC-13 e at 24 V 2 A e at 60 V 0.55 A e at 110 V 0.3 A e at 125 V e at 125 V e at 125 V e at 125 V e at 126 V e at 126 V e at 127 C e at 128 C e at 120 V e at 127 C e at 128 C e at 129 C e at 129 C e at 120 V e at 12		
e at 125 V operational current of auxiliary contacts at DC-13 e at 24 V a at 80 V o at 80 V e at 110 V o at 125 V o at 12		
e at 230 V operational current of auxiliary contacts at DC-13  • at 24 V • at 50 V 0.55 A • at 110 V 0.3 A at 125 V 0.31 A at 125 V 0.31 A  • at 220 V 0.11 A  Protective and monitoring functions  trip class design of the overload release UEGSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • or short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required installation/mounting / dimensions mounting position fastening method Contact of the auxiliary switch required depth  119 mm width 119 mm  depth  120 mm  depth  Contactions/Torminals  product component removable terminal for auxiliary and control circuit  arrangement of electrical connection • for main current circuit  arrangement of electrical connectors for main current circuit  **Position of auxiliary and control circuit  arrangement of electrical connectors for main current circuit  **Of auxiliary contacts  • solid  - solid or stranded  - finely stranded  - finely stranded  - finely stranded vills core end processing  • for AWIC acubics for auxiliary contacts  **For main contacts with screw-type terminals  **For auxiliary contacts with screw-type terminals  **For auxi		
e at 24 V 2 A   at 80 V		
at 24 V at 60 V billion at 125 V cal 125 V ca		3 A
at 160 V at 125 V building section of the overload release  CLASS 10E design of the overload release  ULCSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value building of the section of the main circuit  with type of coordination 1 required with type of coordination 1 required for short-circuit protection of the main circuit  of or short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required fastening method for short-circuit protection of the auxiliary switch required fastening method holight  119 mm  width 120 mm  depth 119 mm  width 120 mm  depth 155 mm  Connections Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  of or main current circuit  urangement of electrical connectors for main current circuit  Lype of connectable conductor cross-sections  of or auxiliary contacts  of or auxiliary contacts  of or wailloary contacts with screw-type terminals  of or auxiliary con	•	2.4
e at 110 V e at 122 V e at 123 V e at 125 V		
at 125 V at 122 V brotective and monitoring functions  trip class  design of the overload release  ULCSA 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  for auxiliary contact to the auxiliary and control circuit  for auxiliary and control circuit  screw-type terminals  for auxiliary and control circuit  screw-type terminals  for auxiliary contacts  for auxiliary contacts  for auxiliary contacts with screw-type terminals  for auxiliary contacts with screw-type terminals  contact reminals  contact reminals  class 12 N-m  class		
e 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  e at 480 V rated value 250 A  at 600 V rated value 250 A  below on the fuse link 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 Contact rating method Contactor mounting dimensions  mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm  Connections/ Torminals  product component removable terminal for auxiliary and control circuit type of electrical connection of or auxiliary and control circuit sorew-type terminals  arrangement of electrical connectors for main current circuit for auxiliary and control circuit sorew-type terminals  for auxiliary contacts  solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0.		
trip class CLASS 10E design of the overload release electronic  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor		
trip class design of the overload release design of the overload release  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 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  if or short-circuit protection of the auxiliary switch required  fuse gG: 500 A, Class L: 700 A gG: 500 A fuse gG: 6 A  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 auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for auxiliary and control circuit  **Type of connectable conductor cross-sections • for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  1 (2, 5 4 mm²), 2x (0, 5 2, 5 mm²)  †*X (0, 5 4 mm²), 2x (0, 5 2, 5 mm²)  **Yex (20 14)  **Uption of conductor with screw-type terminals • for auxiliary contacts with screw-type terminals		U.11 A
design of the overload release  DL/CSA ratings  full-load current (FLA) for 3-phase AC motor		01 400 405
full-load current (FLA) for 3-phase AC motor  at 480 V rated value 250 A  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  fuse gG: 60 A  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 auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  for auxiliary and control circuit  point of connectable conductor cross-sections  for auxiliary contacts  - solid 1x (0.5 4 mm²), 2x (0.5 2,5 mm²)  - finely stranded with core end processing  for auxiliary contacts with screw-type terminals  e for auxiliary contacts with screw-type terminals  20 22 N-m  for auxiliary contacts with screw-type terminals  20 22 N-m  for auxiliary contacts with screw-type terminals  20 22 N-m  for auxiliary contacts with screw-type terminals  20 22 N-m  for auxiliary contacts with screw-type terminals  20 22 N-m  for auxiliary contacts with screw-type terminals  20 22 N-m	·	
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  of or short-circuit protection of the main circuit  — with type of condition of the auxiliary switch required for short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  fuse gC: 500 A  fuse gC: 60 A  Installation/ fuse gC: 60 A  Installati		electronic
at 480 V rated value at 600 V rated value be at 600 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link of short-circuit protection of the main circuit —with type of coordination 1 required —with type of coordination 1 required gG: 500 A, Class L: 700 A gG: 500 A of rate of A, Class L: 700 A gG: 500 A fuse gG: 6 A  Installation/ mounting/ dimensions  mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection of or awixiliary and control circuit arrangement of electrical connectors for main current circuit product or component and control circuit screw-type terminals  for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing of or auxiliary contacts with screw-type terminals  for auxiliary contacts with screw-type terminals of or auxiliary contacts with screw-type terminals  for or main contacts with screw-type terminals of or auxiliary contacts with screw-type terminals  for or main contacts with screw-type terminals of or auxiliary contacts with screw-type terminals		
e 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  • for short-circuit protection of the main circuit  — 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  fastening method  Contactor mounting/stand-alone installation  height  119 mm  width  120 mm  depth  7 yes  Connections/ Terminals  product component removable terminal 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 auxiliary contacts  — solid  — solid or stranded — finely stranded with core end processing • for AUXC cables for auxiliary contacts  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals		050 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 coordination 1 required — with type of assignment 2 required — with type of assignment 2 required  • 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 • for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AUVG cables for auxiliary contacts • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for of main contacts with screw-type terminals  20 22 N-m • for auxiliary contacts with screw-type terminals  - con main contacts with screw-type terminals  20 22 N-m • for auxiliary contacts with screw-type terminals  - con auxiliary contacts with screw-type terminals - con auxiliary contacts with screw-type terminals - con auxiliary contacts with screw-type terminals - con auxiliary contacts with screw-type terminals - con auxiliary contacts with screw-type terminals - contacts with screw-type terminals		
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 — with type of assignment 2 required 9G: 500 A, Class L: 700 A gG: 500 A fuse gG: 6 A  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 • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for auxiliary contacts  — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts • for Max contacts with screw-type terminals  • for main curroact  tightening torque • for maxiliary contacts with screw-type terminals  20 22 N·m  • for maxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals		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  Installation/ mounting/ dimensions  mounting position any fastening method Contactor mounting/stand-alone installation  height 119 mm  width 120 mm  depth Connections/ Terminals  product component removable terminal 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 auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts • for main contacts with screw-type terminals  20 22 N·m  • for maixiliary contacts with screw-type terminals • for maxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals		
- with type of coordination 1 required     - with type of assignment 2 required     - with type of auxiliary and control circuit  type of electrical connection      - for auxiliary and control circuit  type of connectable conductor cross-sections     - solid     - solid or stranded     - finely stranded with core end processing     - for MG cables for auxiliary contacts     - for main contacts with screw-type terminals     - for main contacts with screw-type terminals     - for main contacts with screw-type terminals     - solid - for main contacts with screw-type terminals     - solid - suxiliary contacts     - for main contacts with screw-type terminals     - solid - suxiliary contacts     - for main contacts with screw-type terminals     - solid - suxiliary contacts     - for main contacts with screw-type terminals     - solid - suxiliary contacts     - for main contacts with screw-type terminals     - solid - suxiliary contacts with screw	-	
with type of assignment 2 required for short-circuit protection of the auxiliary switch required fuse gG: 6 A  Installation/ mounting/ dimensions mounting position fastening method height interpretation of the auxiliary and control circuit  type of electrical connections for auxiliary and control circuit  type of connectable conductor cross-sections of or auxiliary contacts  for or MVG cables for auxiliary contacts  for main contacts with screw-type terminals  for auxiliary switch required  for auxiliary switch required  for auxiliary switch required  for auxiliary switch required  for auxiliary switch req	·	aG: 500 A. Class I: 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  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 auxiliary contacts  — solid  — solid  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  20 22 N·m  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals		
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		
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 • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  tightening torque • for main contacts with screw-type terminals  20 22 N·m • for auxiliary contacts with screw-type terminals 0.8 12 N·m		103C 9O. 0 A
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  • for auxiliary and control circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded — solid or stranded of tircuit (0.5 4 mm²), 2x (0.5 2.5 mm²) — finely stranded with core end processing  • for AWG cables for auxiliary contacts  • for main contacts with screw-type terminals  20 22 N·m  • for auxiliary contacts with screw-type terminals  0.8 1.2 N·m		anv
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 auxiliary and control circuit busbar connection  • for auxiliary and control circuit screw-type terminals  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  - solid 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)  - solid or stranded 1x (0.5 4 mm²), 2x (0.5 2.5 mm²)  - finely stranded with core end processing 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  • for AWG cables for auxiliary contacts 2x (20 14)  tightening torque  • for main contacts with screw-type terminals 0.8 1.2 N·m		·
width 120 mm  depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection		
depth  Connections/ Terminals  product component removable terminal 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 auxiliary contacts  — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals • for auxiliary contacts  • for auxiliary contacts  - solid - finely stranded with core end processing • for AWG cables for auxiliary contacts  • for main contacts with screw-type terminals • for auxiliary contacts with screw-type 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 auxiliary contacts  — solid  — solid or stranded — finely stranded with core end processing  • for AWG cables for auxiliary contacts  • for auxiliary contacts  2 x (20 14)  tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type 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 auxiliary contacts  — solid  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  • for main contacts with screw-type terminals  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals		
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 auxiliary contacts  — solid — solid or stranded — finely stranded with core end processing  • for AWG cables for auxiliary contacts  type of or main contacts with screw-type terminals  20 22 N·m  • for auxiliary contacts with screw-type terminals		Yes
<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 auxiliary contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>0.8 1.2 N·m</li> </ul>		
<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 auxiliary contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>0.8 1.2 N·m</li> </ul>	type of electrical connection	
arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections	• for main current circuit	busbar connection
type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals		
<ul> <li>for auxiliary contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>0.8 1.2 N·m</li> </ul>	for auxiliary and control circuit	screw-type terminals
<ul> <li>— solid</li> <li>— solid or stranded</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> <li>• for main contacts with screw-type terminals</li> <li>• for auxiliary contacts with screw-type terminals</li> </ul>	arrangement of electrical connectors for main current	• •
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>0.8 1.2 N·m</li> </ul>	arrangement of electrical connectors for main current circuit	• •
— finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (20 14)  tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  0.8 1.2 N⋅m	arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom
• for AWG cables for auxiliary contacts	arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts	Top and bottom  1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  0.8 1.2 N⋅m	arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid	Top and bottom  1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> <li>20 22 N⋅m</li> <li>0.8 1.2 N⋅m</li> </ul>	arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded	Top and bottom  1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
• for auxiliary contacts with screw-type terminals 0.8 1.2 N·m	arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded  — finely stranded with core end processing	Top and bottom  1x (0.5 4 mm²), 2x (0.5 2.5 mm²)  1x (0,5 4 mm²), 2x (0,5 2,5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
	arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts	Top and bottom  1x (0.5 4 mm²), 2x (0.5 2.5 mm²)  1x (0,5 4 mm²), 2x (0,5 2,5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
design of the thread of the connection screw	arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  tightening torque	Top and bottom  1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 4 mm²), 2x (0,5 2,5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (20 14)
	arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid  — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  tightening torque  • for main contacts with screw-type terminals	Top and bottom  1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (20 14)  20 22 N·m



• for main contacts	M10			
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3			
Safety related data				
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover			
touch protection on the front according 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				
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3			
<ul> <li>due to conductor-earth surge according 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 according 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 according 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 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				
display version for switching status	Slide switch			
Approvals Certificates				
General Product Approval		EMC		

**(1)** 

Confirmation









For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping







Confirmation

other

Miscellaneous

## 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=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/3RB2066-1GC2

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=er

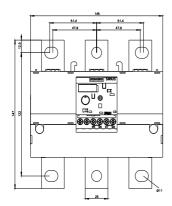
Characteristic: Tripping characteristics, I²t, Let-through current

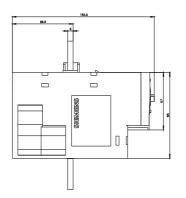
https://support.industry.siemens.com/cs/ww/en/ps/3RB2066-1GC2/char

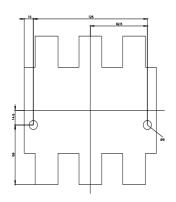
Further characteristics (e.g. electrical endurance, switching frequency)

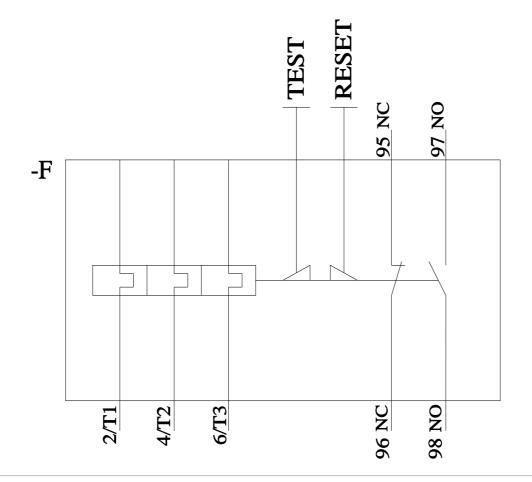
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2066-1GC2&objecttype=14&gridview=view1











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