## SIEMENS

## Data sheet

## 3RU2116-1HC1



Overload relay 5.5...8.0 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	0102
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	6.6 W
operating state	
• per pole	2.2 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>	440 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>between main and auxiliary circuit</li> </ul>	440 V
<ul> <li>between main and auxiliary circuit</li> </ul>	440 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001
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>	-40 +70 °C
during storage	-55 +80 °C
during transport	-55 +80 °C
temperature compensation	-40 +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	5.5 8 A
operating voltage	
<ul> <li>rated value</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz

Operational current at Ac-3e at 400 V rated value         9A           operating power         9A           - at 400 V rated value         3KV           - at 400 V rated value         3KV           - at 500 V rated value         5KW           - at 600 V rated value         6KW           - at 600 V rated value         6KW           - at 600 V rated value         7K           - at 600 V rated value         7K           - at 600 V         3A           - at 24 V         3A           - at 20 V         1A           operational current of auxiliary contacts at DC-13           - at 20 V         03A     <	operational current rated value	8 A
operational current of auxiliary contacts at DC-13         3 KW           - at 400 V rated value         3 KW           - at 500 V rated value         4 KW           - at 600 V rated value         5 KW           - at 400 V rated value         3 KW           - at 400 V rated value         3 KW           - at 400 V rated value         3 KW           - at 600 V rated value         3 KW           - at 600 V rated value         4 KW           - at 600 V rated value         5 KW           Auxiliary oricuit         Imported           - noise         in orizonation disconnection           number of NC contacts for auxiliary contacts         1           - noise         in message "Tripped"           number of NC contacts for auxiliary contacts at AC-15         3 A           - at 120 V         2 A           - at 240 V         2 A           - at 240 V         2 A           - at 100 V         3 A     <		
• # AC-3•- at 400 V rade value3 kW- at 500 V rade value3 kW- at 600 V rade value5 kW- at 600 V rade value5 kW- at 600 V rade value5 kW- at 600 V rade value6 kW- at 600 V rade value6 kW- at 600 V rade value6 kW- at 600 V rade value10 kW- at 600 V rade value10 kW- note6 contacts for auxiliary contacts- note6 contacts for auxiliary contacts- note7 kW- at 100 V3 A- at 100 V0 A- at 20 V0 A </td <td></td> <td></td>		
-     4 400 Y rated value     3 kW       -     at 500 Y rated value     5 kW       -     at 400 Y rated value     5 kW       -     at 400 V rated value     3 kW       -     at 600 V rated value     5 kW       -     at 600 V rated value     3 k       -     at 700 V		
- at 500 V raide Vaule     4 WV       - at 500 V raide Vaule     5 KW       - at 400 V raide Vaule     3 WV       - at 500 V raide Vaule     5 KW       - at 500 V raide Vaule     5 K       - at 500 V raide Vaule     5 KW       - at 500 V raide Vaule     5 K       - at 500 V raide Vaule <t< td=""><td></td><td>3 kW</td></t<>		3 kW
- af 800 V rated value5.5 kW- at 600 V rated value3 kW- at 600 V rated value3 kW- at 600 V rated value5.5 kWAnaltary service1edesign of the auxiliary contacts1number of NC contacts for auxiliary contacts1• notefor contactor disconnectionnumber of CC contacts for auxiliary contacts1• note0operational current of auxiliary contacts at AC-153• at 10 V3 A• at 125 V3 A• at 100 V3 A• at 100 V3 A• at 100 V0.3 A• at 100 V rated value8 A• at 200 V0.11 Acontact rating of auxiliary contacts at Cording to ULProtectional Current of Lab 10 A• at 200 V0.11 Acontact at 10 A• at 200 V0.11 Acontact at 10 A• at 200 V0.11 A <tr< td=""><td></td><td></td></tr<>		
• at AC-3e     -       - at 400 V rated value     3.5 kW       - at 800 V rated value     5.5 kW       - at 800 V rated value     5.5 kW       - at 800 V rated value     5.5 kW       Availary circum     integrated       number of NC contacts for auxiliary contacts     1       - note     for contactor disconnection       number of NC contacts for auxiliary contacts     1       - note     for contactor disconnection       number of NC contacts for auxiliary contacts at AC-15     0       - at 120 V     3.A       - at 10 V     0.22 A       - at 10 V     0.400 <td< td=""><td></td><td></td></td<>		
- at 400 V rated value3 kW- at 500 V rated value4 kW- at 600 V rated value5 S kWAnallary eticulintegratednumber of NC contacts for auxiliary contacts1• rolefor contactor disconnectionnumber of NC contacts for auxiliary contacts1• nolefor contactor disconnectionontable of OC contacts for auxiliary contacts3 A• at 24 V3 A• at 25 V3 A• at 24 V3 A• at 24 V3 A• at 24 V03 A• at 24 V03 A• at 24 V03 A• at 25 V022 A• at 26 V03 A• at 27 V022 A• at 28 V03 A• at 400 V14 AOperational current of auxiliary contacts at DC-13• at 28 V03 A• at 28 V03 A• at 28 V03 A• at 40 V14 ADotact at ating of auxiliary contacts according to ULBoto Protective and monitoring functionsthe contact ating of auxiliary contacts according to ULBoto Protective atter at according to ULA A• at 400 V atter value• at 400 V		5.5 KVV
- at 500 V rated value     4 KW       - at 690 V rated value     5 KW       Auxilary circuit     integrated       - at 690 V rated value     integrated       - at 690 V rated value     integrated       - at 690 V rated value     for contactor disconnection       - number of NC contacts for auxiliary contacts     for message "Tripped"       - number of CO contacts for auxiliary contacts     0       - orde     3A       - at 10 V     3A       - at 12 V     0.3 A       - at 12 V     0.22 A       - at 120 V Tabe Value     8A       - at 120 V Tabe Value     8A		0.111/
Auxillary circuit         integrated           design of the auxillary switch         integrated           number of KC contacts for auxillary contacts         for contactor disconnection           number of KC contacts for auxillary contacts         for message "Tripped"           number of CC contacts for auxillary contacts at AC-15         integrated           eit 24 V         3 A           eit 120 V         3 A           eit 120 V         3 A           eit 120 V         3 A           eit 24 V         3 A           eit 25 V         3 A           eit 20 V         3 A           eit 20 V         2 A           eit 20 V         0 Operational current of auxillary contacts at DC-13           eit 20 V         0.11 A           contact rating of auxillary contacts at DC-13         eit 20 V           eit 20 V         0.22 A           eit 120 V         0.11 A           contact rating of auxillary contacts according to UL         B600 / R300           Protective and monitoring functions         UL/GSA ratings           UL/GSA ratings         CLASS 10           full-bad current (FLA) for 3-phase AC motor         eit 480 V rade value           eit or solf-circuit protection of the auxillary switch required         stand-alone installati		
design of the auxiliary switch         integrated           number of NC contacts for auxiliary contacts         1           note         for contactor disconnection           number of NO contacts for auxiliary contacts         1           note         for contactor disconnection           number of CO contacts for auxiliary contacts         0           operational current of auxiliary contacts at AC-15         3A           eit 120 V         3A           eit 120 V         3A           eit 220 V         3A           eit 24 V         3A           eit 24 V         3A           eit 250 V         2A           eit 240 V         01A           eit 250 V         0.22 A           eit 220 V         0.24 ASS 10		5.5 KW
number of NC contacts for auxiliary contacts         1           • note         for contactor disconnection           number of NC contacts for auxiliary contacts         1           • note         for message "Inipped"           operational current of auxiliary contacts at AC-15         3 A           • att 10 V         3 A           • att 10 V         3 A           • att 25 V         3 A           • att 20 V         1           • att 20 V         2 A           • att 20 V         2 A           • att 20 V         2 A           • att 20 V         0.3 A           • att 20 V         0.22 A           • att 20 V rated value         8 A           • att 80 V rated value         8 A		
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number of NO contacts for auxiliary contacts     1       • note     for message "Tripped"       number of CO contacts for auxiliary contacts     0       operational current of auxiliary contacts at AC-15     3 A       • at 120 V     3 A       • at 120 V     3 A       • at 230 V     2 A       • at 24 V     3 A       • at 230 V     2 A       • at 24 V     0 O       • at 24 V     2 A       • at 24 V     0 O       • at 24 V     0 A       • at 25 V     2 A       • at 24 V     0 A       • at 25 V     0 A       • at 26 V     0 A       • at 27 V     0 A       • at 28 V     0 A       • at 29 V     0 A       • at 20 V     0 A       • at 60 V rated value     8 A       • bort-circuit protection of the auxiliary switch required     8 A       • at 600 V rated value     8 A       • bor short-circuit protection of the auxiliary switch required	-	
• nolefor message "Tripped"number of CO contacts for auxiliary contacts at AC-150• 12 XV3 A• at 110 V3 A• at 120 V3 A• at 120 V3 A• at 230 V2 A• at 240 V0 A• at 240 V2 A• at 240 V0 A• at 250 V Tade Value8 A• at 400 V rade Value8 A• at 400 V rade Value8 A• at 260 V rade Value8 A• bor short-circuit protection of the auxiliary switch required102 min• for alk 1040 Control circuit4 A• bor short-circuit protection of the auxiliary and control circuit required4 A• bor auxiliary and control circuit • for main contactsNocontacting 1 Co		
number of CO contacts for auxiliary contacts         0           operational current of auxiliary contacts at AC-15         3 A           • at 110 V         3 A           • at 120 V         3 A           • at 230 V         2 A           • at 400 V         1 A           operational current of auxiliary contacts at DC-13         -           • at 80 V         0.22 A           • at 155 V         0.22 A           • at 100 V         0.22 A           • at 125 V <td< td=""><td>number of NO contacts for auxiliary contacts</td><td></td></td<>	number of NO contacts for auxiliary contacts	
operational current of auxiliary contacts at AC-15         3 A           • at 24 V         3 A           • at 120 V         3 A           • at 120 V         3 A           • at 125 V         3 A           • at 230 V         2 A           • at 400 V         1 A           operational current of auxiliary contacts at DC-13         2 A           • at 40 V         0.3 A           • at 20 V         0.22 A           • at 220 V         0.22 A           • at 220 V         0.11 A           contact rating of auxiliary contacts according to U         B600 / R300           Protective and monitoring functions         E           trip class         CLASS 10           design of the overload release         themal           U/CSA ratings         E           full-dad current (FLA) for 3-phase AC motor         8 A           • at 400 V rated value         8 A           • at 600 V rated value         8 A           • Installation/ mounting/ dimensions         fuse gG: 6 A, quick: 10 A           mounting position		
• at 24 V3A• at 110 V3A• at 110 V3A• at 120 V3A• at 125 V3A• at 230 V2A• at 24 V3A• at 24 V2A• at 24 V0.3A• at 24 V0.3A• at 24 V0.3A• at 20 V0.3A• at 25 V0.22 A• at 220 V0.22 A• at 220 V0.22 A• at 220 V0.22 A• at 220 V0.11Acontact rating of auxiliary contacts according to ULPR00Protective and monitoring functionsTermaltrip classCLASS 10trip classCLASS 10design of the overload releasethermalU/CSA ratingsTermalfull-load current (FLA) for 3-phase AC motor8 A• at 400 V rated value8 A• at 600 V rated value8 A• at 600 V rated value8 AShort-circuit protection of the auxiliary switch requiredfuse gG: 6 A, quick: 10 Arequired functionstime design of the fuse link• for short-circuit protection of the auxiliary switch requiredstand-alone installationInstallation/ mounting/ dimensionsanyfastening methodanyheight70 mmConnections/ Terminalsspring-loaded terminals• for nanci current circuitspring-loaded terminals• for nanci current circuitspring-loaded terminals• for nanci current circuitspring-loaded terminals• for nanci current		0
• at 110 V3 A• at 120 V3 A• at 120 V3 A• at 120 V3 A• at 230 V2 A• at 230 V2 A• at 240 V2 A• at 24 V2 A• at 60 V0.3 A• at 110 V0.22 A• at 125 V0.22 A• at 125 V0.22 A• at 125 V0.22 A• at 125 V0.22 A• at 120 V0.11 A• at 220 V0.11 A• at 220 V0.12 A• at 220 V0.12 A• at 220 V0.12 A• at 200 V rated valueB800 / R300Protective and monitoring functionsEtrip classCLASS 10tesign of the overload releasethermalUUCSA ratingsEfull-dad current (FLA) for 3-phase AC motor8 A• at 600 V rated value8 A• for soht-circuit protection of the auxiliary switch requiredfuse gG: 6 A, quick: 10 Arequiredfastaniad-alone installationheight102 mmwidth45 mmdestin grantedspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main current or circuit <td< td=""><td></td><td></td></td<>		
• at 120 V3 A• at 125 V3 A• at 125 V2 A• at 400 V1 Aoperational current of auxiliary contacts at DC-132• at 24 V2 A• at 26 V0.3 A• at 100 V0.22 A• at 125 V0.222 A• at 220 V0.11 Acontact rating of auxiliary contacts according to ULB600 / R300Protective and monitoring functionsB600 / R300Protective and monitoring functionsULCSA ratingsULCSA ratingsCLASS 10ULVSA ratings8 A• at 480 V rated value8 A• at 600 V rated value8 A• for short-circuit protection of the auxiliary switch required• for short-circuit protection of the auxiliary switch required102 mm• for short-circuit protection of the auxiliary switch required9 mm• for main genetical connection + 5 mm9 mm• for main current torcuit9 mm• for main current torcuitspring-loaded terminals• for main current of curuitspring-loaded terminals• for main current of curu		
• at 125 V3 A• at 230 V2 A• at 400 V1 Aoperational current of auxiliary contacts at DC-132 A• at 24 V2 A• at 60 V0.3 A• at 125 V0.22 A• at 110 V0.22 A• at 220 V0.11 Acontact rating of auxillary contacts according to ULB600 / R300Protective and monitoring functionsEdeal OR (ASO)trip classCLASS 10design of the overload releasethermalUL/CSA ratingsUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor8 A• at 430 V rated value8 A• at 600 V rated value8 A• for short-circuit protection of the auxiliary switch requiredInstallation/ mounting/ dimensionsfuse gG: 6 A, quick: 10 Amounting positionanyfastening methodstand-atone installationheight102 mmwidth45 mmdepth79 mmConnectional Verminalsspring-loaded terminals• for main current circuitspring-loaded terminals• for main contactsspring-loaded terminals• for main contactsspring-loaded terminals• for main contac	● at 110 V	3 A
• at 230 V2 A• at 400 V1 Aoperational current of auxiliary contacts at DC-132 A• at 24 V2 A• at 60 V0.3 A• at 110 V0.22 A• at 125 V0.22 A• at 220 V0.11 Acontact rating of auxiliary contacts according to ULB600 / R300Protective and monitoring functionsUL/CSA ratingstrip classCLASS 10design of the overload releasethermalUL/CSA ratingsSAShort-circuit protection and value8 A• at 600 V rated value8 A• bort-circuit protectionfuse gC: 6 A, quick: 10 AInstallation/ mounting/ dimensionsanymounting positionanyfastening methodstand-clone installationheight102 mmwidth45 mmdepth79 mmConnections/ Terminalspring-loaded terminalsproduct component removable terminal for auxiliary and control circuitNotype of electrical connectors for main current circuitTop and bottom• for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuit <td>• at 120 V</td> <td>3 A</td>	• at 120 V	3 A
• at 400 V1 Åoperational current of auxiliary contacts at DC-132• at 24 V2 Å• at 26 V0.3 Å• at 110 V0.22 Å• at 125 V0.22 Å• at 220 V0.11 Åcontact rating of auxiliary contacts according to ULB600 / R300Protective and monitoring functionsEdon / R300Protective and monitoring functionsUL/CSA ratingstrip classCLASS 10design of the overload releasethermailUL/CSA ratingsItem and the set of th	● at 125 V	3 A
operational current of auxiliary contacts at DC-13       2 A         • at 24 V       2 A         • at 60 V       0.3 A         • at 10 V       0.22 A         • at 125 V       0.22 A         • at 220 V       0.11 A         contact rating of auxiliary contacts according to UL       B600 / R300         Protective and monitoring functions       thermal         trip class       CLASS 10         design of the overload release       thermal         U/CSA ratings       thermal         full-load current (FLA) for 3-phase AC motor       8 A         • at 480 V rated value       8 A         • at 480 V rated value       8 A         • or short-circuit protection       fuse gG: 6 A, quick: 10 A         instaliator/ mounting/ dimensions       any         mounting position       stand-alone instaliation         height       102 mm         vidth       45 mm         depth       79 mm         Connections/ Terminals       spring-loaded terminals         product component removable terminal for auxiliary and control circuit       spring-loaded terminals         i for auxiliary and control circuit       spring-loaded terminals         i for auxiliary and control circuit       spring-loaded terminals	• at 230 V	2 A
• at 24 V2 A• at 60 V0.3 A• at 110 V0.22 A• at 125 V0.22 A• at 125 V0.22 A• at 220 V0.11 Acontact rating of auxiliary contacts according to ULB600 / R300Protective and monitoring functionsEtrip classCLASS 10design of the overload releasethermalUL/CSA ratingsUL/SA ratingsfull-load current (FLA) for 3-phase AC motor8 A• at 480 V rated value8 A• at 600 V rated value8 A• at 600 V rated value8 A• for short-circuit protection of the auxiliary switch requiredfuse gG: 6 A, quick: 10 AInstallation/ mounting/ dimensionsanyfastening methodsand-alone installationheight102 mmwidth45 mmdepth79 mmConnections/ Terminalsspring-loaded terminalsfype of electrical connectionspring-loaded terminalsi for main current circuitspring-loaded terminalsi for main current circuitspri	• at 400 V	1 A
• at 60 V0.3 A• at 110 V0.22 A• at 125 V0.22 A• at 220 V0.11 Acontact rating of auxiliary contacts according to ULB600 / R300Protective and monitoring functionstrip classCLASS 10design of the overload releasethermalUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value8 A• at 600 V rated value9 A• at 600 V rated value8 A• at 600 V rated value8 A• at 600 V rated value9 A• at 600 V rated value9 A• at 600 V rated value9 A• at 600 V rated value8 A• for short-circuit protection of the auxiliary switch requiredfuse gG: 6 A, quick: 10 A• for auxiliary and control of the auxiliary and control of the auxiliary and control circuit9 mm• for auxiliary and control circuit9 mm• for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuit <t< td=""><td>operational current of auxiliary contacts at DC-13</td><td></td></t<>	operational current of auxiliary contacts at DC-13	
• at 110 V0.22 A• at 125 V0.22 A• at 220 V0.11 AContact rating of auxiliary contacts according to ULB600 / R300Protective and monitoring functionsEnd of the overload releaseCLASS 10design of the overload releasethermalU/CSA ratingsCLASS 10full-load current (FLA) for 3-phase AC motora 4 480 V rated value• at 480 V rated value8 A• at 600 V rated value8 A• at 600 V rated value8 A• at 600 V rated value8 A• for short-circuit protection of the auxiliary switch requiredfuse gG: 6 A, quick: 10 Arequired fuse linkfuse gG: 6 A, quick: 10 A• for short-circuit protection of the auxiliary switch requiredanyfastening methodstand-alone installationheight102 mmwidth45 mmdepth79 mmConnections/ Terminalsspring-loaded terminalstype of electrical connectionspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main contactsTop and bottom	• at 24 V	2 A
• at 125 V0.22 A• at 220 V0.11 Acontact rating of auxiliary contacts according to ULB600 / R300Protective and monitoring functionsEtrip classCLASS 10design of the overload releasethermalUL/CSA ratingsUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor8 A• at 480 V rated value8 A• at 640 V rated value8 A• at 640 V rated value8 A• at 600 V rated value8 A• for short-circuit protectionfuse gG: 6 A, quick: 10 Afastening methodanyfastening methodanyfastening method102 mmwidth45 mmdepth79 mmConnections/ TerminalsNocontrol circuitspring-loaded terminalsif or main current circuitspring-loaded terminalsif or main current circuitspring-loaded terminalsif or main current circuitspring-loaded terminalsif or main contactsfor anal current circuit	• at 60 V	0.3 A
• at 220 V0.11 AB600 / R300Protective and monitoring functionstrip classCLASS 10design of the overload releasethermalUL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value8 A• at 600 V rated value8 A• at 600 V rated value8 A• at 600 V rated value8 A• for short-circuit protectiondesign of the fuse link• for short-circuit protection of the auxiliary switch requiredInstallation/ mounting/ dimensionsmounting positionfastening methodstand-alone installationheight102 mmwidth45 mmdepth79 mmConnections/ Terminalsproduct component removable terminal for auxiliary and control circuitNofor main current circuit • for main current circuitspring-loaded terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections • for main contactsFor and control circuit	• at 110 V	0.22 A
contact rating of auxiliary contacts according to UL         B600 / R300           Protective and monitoring functions         trip class         CLASS 10           design of the overload release         thermal         UU/CSA ratings           full-load current (FLA) for 3-phase AC motor <ul></ul>	• at 125 V	0.22 A
contact rating of auxiliary contacts according to UL         B600 / R300           Protective and monitoring functions         trip class         CLASS 10           design of the overload release         thermal         UU/CSA ratings           full-load current (FLA) for 3-phase AC motor <ul></ul>	• at 220 V	0.11 A
Protective and monitoring functions         trip class       CLASS 10         design of the overload release       thermal         UL/CSA ratings          full-load current (FLA) for 3-phase AC motor       8 A         • at 480 V rated value       8 A         • at 600 V rated value       8 A         • at 600 V rated value       8 A         Short-circuit protection       design of the fuse link         • for short-circuit protection of the auxiliary switch required       fuse gG: 6 A, quick: 10 A         Installation/ mounting/ dimensions       any         mounting position       any         fastening method       stand-alone installation         height       102 mm         width       45 mm         depth       79 mm         Connections/ Terminals       product component removable terminal for auxiliary and control circuit         • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit	contact rating of auxiliary contacts according to UL	B600 / R300
trip class       CLASS 10         design of the overload release       thermal         UL/CSA ratings       full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>BA</li> </ul> Short-circuit protection         8 A           design of the fuse link <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> <li>fastening method</li> <ul> <li>fastening method</li> <li>fastening method</li> <li>for main connections/ Terminals</li> </ul> <ul> <li>product component removable terminal for auxiliary and control circuit</li> <li>spring-loaded terminals</li> </ul>		
design of the overload release     thermal       UL/CSA ratings     full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>b at 600 V rated value</li> <li>b A</li> <li>Short-circuit protection</li> <li>design of the fuse link             <ul></ul></li></ul>		CLASS 10
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value       8 A         • at 600 V rated value       8 A         short-circuit protection       8 A         design of the fuse link       • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions       fuse gG: 6 A, quick: 10 A         mounting position       any         fastening method       stand-alone installation         height       102 mm         width       45 mm         depth       79 mm         Connections/ Terminals       No         product component removable terminal for auxiliary and control circuit       spring-loaded terminals         • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         • for an control circuit       spring-loaded terminals         • for main controls       for and bottom	•	
full-load current (FLA) for 3-phase AC motor       8 A         • at 480 V rated value       8 A         • at 600 V rated value       8 A         Short-circuit protection       8 A         design of the fuse link       • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions       fuse gG: 6 A, quick: 10 A         mounting position       any         fastening method       stand-alone installation         height       102 mm         width       45 mm         depth       79 mm         Connections/ Terminals       No         product component removable terminal for auxiliary and control circuit       spring-loaded terminals spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         • for auxiliary and control circuit       Top and bottom         • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       Top and bottom		
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• at 600 V rated value8 AShort-circuit protectiondesign of the fuse link • for short-circuit protection of the auxiliary switch requiredfuse gG: 6 A, quick: 10 AInstallation/ mounting/ dimensionsmounting positionanyfastening methodstand-alone installationheight102 mmwidth45 mmdepth79 mmConnections/ Terminalsproduct component removable terminal for auxiliary and control circuitNotype of electrical connection • for main current circuitspring-loaded terminals spring-loaded terminalstype of connectable conductor cross-sections • for main contactsTop and bottom		0.4
Short-circuit protection         design of the fuse link • for short-circuit protection of the auxiliary switch required       fuse gG: 6 A, quick: 10 A         Installation/ mounting/ dimensions       any         mounting position       any         fastening method       stand-alone installation         height       102 mm         width       45 mm         depth       79 mm         Connections/ Terminals       No         ropoduct component removable terminal for auxiliary and control circuit       No         • for auxiliary and control circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         • for auxiliary and control circuit       top and bottom         • for main contacts       Top and bottom		
design of the fuse link     fuse gG: 6 A, quick: 10 A       • for short-circuit protection of the auxiliary switch required     fuse gG: 6 A, quick: 10 A       Installation/ mounting/ dimensions     any       mounting position     any       fastening method     stand-alone installation       height     102 mm       width     45 mm       depth     79 mm       Connections/ Terminals     No       product component removable terminal for auxiliary and control circuit     spring-loaded terminals       • for main current circuit     spring-loaded terminals       arrangement of electrical connectors for main current circuit     Top and bottom       type of connectable conductor cross-sections     • for main contacts		δ А
• for short-circuit protection of the auxiliary switch requiredfuse gG: 6 A, quick: 10 AInstallation/ mounting/ dimensionsanymounting positionanyfastening methodstand-alone installationheight102 mmwidth45 mmdepth79 mmConnections/ Terminalsproduct component removable terminal for auxiliary and control circuitNotype of electrical connectionspring-loaded terminalsof or auxiliary and control circuitspring-loaded terminalstype of connectable conductor cross-sections • for main curretsTop and bottom		
required       any         Installation/ mounting/ dimensions       any         fastening method       stand-alone installation         height       102 mm         width       45 mm         depth       79 mm         Connections/ Terminals         product component removable terminal for auxiliary and control circuit       No         type of electrical connection       spring-loaded terminals         • for main current circuit       spring-loaded terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections • for main contacts       For main contacts	-	
Installation/ mounting/ dimensions           mounting position         any           fastening method         stand-alone installation           height         102 mm           width         45 mm           depth         79 mm           Connections/ Terminals         No           product component removable terminal for auxiliary and control circuit         No           type of electrical connection         spring-loaded terminals           of or auxiliary and control circuit         spring-loaded terminals           arrangement of electrical connectors for main current circuit         Top and bottom           type of connectable conductor cross-sections         of or main contacts		fuse gG: 6 A, quick: 10 A
mounting positionanyfastening methodstand-alone installationheight102 mmwidth45 mmdepth79 mmConnections/ Terminalsproduct component removable terminal for auxiliary and control circuitfor main current circuitNoe for main current circuitspring-loaded terminalse for auxiliary and control circuitTop and bottomarrangement of electrical connectors for main current circuitTop and bottom		
fastening methodstand-alone installationheight102 mmwidth45 mmdepth79 mmConnections/ Terminalsproduct component removable terminal for auxiliary and control circuitNotype of electrical connection • for main current circuitspring-loaded terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections 		
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width45 mmdepth79 mmConnections/ TerminalsNoproduct component removable terminal for auxiliary and control circuitNotype of electrical connectionspring-loaded terminals• for main current circuitspring-loaded terminals• for auxiliary and control circuitTop and bottomtype of connectable conductor cross-sections • for main contactsTop and bottom	fastening method	stand-alone installation
depth79 mmConnections/ TerminalsNoproduct component removable terminal for auxiliary and control circuitNotype of electrical connectionspring-loaded terminals• for main current circuitspring-loaded terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections • for main contactsTop and bottom	height	102 mm
Connections/ Terminals         product component removable terminal for auxiliary and control circuit       No         type of electrical connection <ul> <li>for main current circuit</li> <li>spring-loaded terminals</li> <li>spring-loaded terminals</li> <li>spring-loaded terminals</li> <li>type of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections             <ul> <li>for main contacts</li> </ul> </li> </ul>	width	45 mm
product component removable terminal for auxiliary and control circuit       No         type of electrical connection       spring-loaded terminals         • for main current circuit       spring-loaded terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       • for main contacts	depth	79 mm
and control circuitfunctiontype of electrical connectionspring-loaded terminals• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections • for main contactsElectrical connectors for main current circuit	Connections/ Terminals	
type of electrical connection       spring-loaded terminals         • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       • for main contacts		No
• for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       • for main contacts		
• for auxiliary and control circuit     spring-loaded terminals       arrangement of electrical connectors for main current circuit     Top and bottom       type of connectable conductor cross-sections     • for main contacts		
arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections <ul> <li>for main contacts</li> <lu> </lu></ul>		
circuit     type of connectable conductor cross-sections       • for main contacts     • for main contacts		
for main contacts	-	Top and bottom
- solid or stranded 1x (0,5 4 mm <sup>2</sup> )	<ul> <li>for main contacts</li> </ul>	
	— solid or stranded	1x (0,5 4 mm²)

— finely stra	nded with core end process	sina 1	lx (0.5 2.5 mm²)			
-	nded without core end proc	-	lx (0.5 2.5 mm²)			
at AWG cables for main contacts		-	1x (20 12)			
	conductor cross-section					
<ul> <li>for auxiliary cor</li> </ul>						
— solid or stranded			2x (0.5 2.5 mm²)			
— finely stranded with core end processing			2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
— finely stranded without core end processing			2x (0.5 1.5 mm <sup>2</sup> )			
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>		•	2x (20 14)			
design of screwdriver shaft			Diameter 3 mm			
size of the screwdriver tip		3	3,0 x 0,5 mm			
Safety related data						
failure rate [FIT] with low demand rate according to SN 31920		g to SN 5	50 FIT			
MTTF with high dem	nand rate	2	2 280 y			
T1 value for proof test interval or service life according to IEC 61508			20 y			
protection class IP of 60529	on the front according to	IEC	P20			
	the front according to IE	<b>C 60529</b> fi	inger-safe, for vertical conta	ct from the front		
Display						
display version for sw	vitching status	S	Slide switch			
Certificates/ approval	-					
Or manual Dura dura t Au					For use in hazard-	
General Product Ap	opiovai				ous locations	
SP C	<u>Confirmation</u>			EHC	IECEx	
For use in hazard- ous locations	Confirmation Declaration of Conform	ccc	UL Test Certificates	EAC	IECEx HECEx	
		nity	Image: Control of the second secon	Efficiency Type Test Certific- ates/Test Report		
	Declaration of Conform	nity	Special Test Certific-		Marine / Shipping	
ous locations	Declaration of Conform	ecc nity	Special Test Certific-		Marine / Shipping	
ous locations	Declaration of Conform	Hoyds Register	Special Test Certific-		Marine / Shipping	
ous locations	Declaration of Conform CECE EG-Konf.	Hoyds Register	Special Test Certific-		Marine / Shipping	

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=3RU2116-1HC1

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1HC1

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

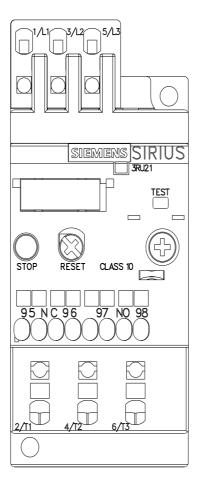
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1HC1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2116-1HC1&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1HC1/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1HC1&objecttype=14&gridview=view1



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