



intelligent link module reversing starter high feature 1.2-12 A up to 690 V AC frame size S00 for 3RV2.1 and 3RT2.1 for ET 200SP system

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Intelligent link module
<b>design of the product</b>	reversing starter high feature
<b>product type designation</b>	3RC7
<b>General technical data</b>	
<b>number of monitored phases</b>	3
<b>suitability for use</b>	
• direct starter	No
• reversing starter	Yes
<b>product function external reset</b>	Yes
<b>product component RESET button</b>	Yes
<b>design of the overcurrent release</b>	electronic
<b>size of the circuit-breaker</b>	S00
<b>size of contactor can be combined company-specific</b>	S00
<b>product function</b>	
• remote firmware update	Yes
• for power supply reverse polarity protection	Yes
<b>insulation voltage</b>	
• <b>rated value</b>	690 V
• for overvoltage category III according to IEC 60664 with degree of pollution 2 rated value	690 V
<b>degree of pollution</b>	2
<b>overvoltage category</b>	3
<b>surge voltage resistance rated value</b>	6 kV
<b>shock resistance according to IEC 60068-2-27</b>	6g / 11,0 ms (3 shocks); 10g / 6,0 ms (1000 shocks)
<b>vibration resistance</b>	5-8,4 Hz, 3,5 mm; 8,4-150 Hz, 1 g; 10 cycles / 10-60 Hz, 0,35 mm; 60-500 Hz, 5 g; 10 cycles
<b>operating frequency maximum</b>	3 600 1/h
<b>mechanical service life (operating cycles) typical</b>	10 000 000
<b>reference code according to IEC 81346-2</b>	F
<b>continuous current rated value</b>	12 A
<b>Substance Prohibitance (Date)</b>	06/21/2024
<b>SVHC substance name</b>	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Silicic acid, lead salt - 11120-22-2 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
<b>Weight</b>	0.26 kg
<b>Ambient conditions</b>	
<b>installation altitude at height above sea level maximum</b>	2 000 m
<b>ambient temperature</b>	
• during operation	-20 ... +60 °C
• during storage	-40 ... +80 °C

<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +80 °C
environmental category during operation according to IEC 60721	3C3 (without salt spray)
relative humidity during operation	10 ... 95 %
<b>Main circuit</b>	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	1.2 ... 12 A
type of the motor protection	solid-state
type of voltage for main current circuit	AC
operating voltage	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	690 V
<ul style="list-style-type: none"> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 ... 60 Hz
operational current rated value	12 A
<b>Control circuit/ Control</b>	
control supply voltage at AC	
<ul style="list-style-type: none"> <li>at 50 Hz rated value</li> </ul>	690 ... 690 V
<ul style="list-style-type: none"> <li>at 60 Hz rated value</li> </ul>	690 ... 690 V
control supply voltage at DC rated value minimum	690 V
<b>Auxiliary circuit</b>	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
auxiliary voltage at DC rated value	24 V
auxiliary voltage at DC rated value	20.4 ... 28.8 V
inrush current peak for auxiliary voltage at DC at 24 V	2.5 A
duration of inrush current peak for auxiliary voltage at DC at 24 V	1 ms
power loss [W] at the auxiliary voltage in holding operation at DC at 24 V	0.9 W
<b>Protective and monitoring functions</b>	
type of protection function of the overcurrent release	electronic
product function	
<ul style="list-style-type: none"> <li>ground fault detection</li> </ul>	No
<ul style="list-style-type: none"> <li>phase failure detection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>phase sequence recognition</li> </ul>	Yes
<ul style="list-style-type: none"> <li>overcurrent detection 1 phase</li> </ul>	Yes
<ul style="list-style-type: none"> <li>undercurrent detection 3 phases</li> </ul>	Yes
<ul style="list-style-type: none"> <li>undercurrent monitoring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>overcurrent and undercurrent monitoring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>undercurrent detection 1 phase</li> </ul>	Yes
<ul style="list-style-type: none"> <li>overcurrent detection 3 phase</li> </ul>	Yes
<ul style="list-style-type: none"> <li>overload protection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>overload warning</li> </ul>	Yes
<ul style="list-style-type: none"> <li>active current monitoring</li> </ul>	No
<ul style="list-style-type: none"> <li>operating hours counter</li> </ul>	Yes
trip class	CLASS 10E / CLASS 20E
design of the overload release	electronic
<b>UL/CSA ratings</b>	
operating voltage	
<ul style="list-style-type: none"> <li>according to UL 60947 rated value</li> </ul>	600 V
<ul style="list-style-type: none"> <li>at AC at 60 Hz according to CSA and UL rated value</li> </ul>	600 V
<b>Installation/ mounting/ dimensions</b>	
mounting position	vertical, on horizontal standard mounting rail
fastening method	clip-on
height	103 mm
width	45 mm
depth	130 mm
<b>Connections/ Terminals</b>	

type of electrical connection for main current circuit	spring-loaded terminals
type of electrical connection for supply voltage line-side	spring-loaded terminals (push-in)
<b>type of connectable conductor cross-sections at the inputs for supply voltage</b>	
• solid	0.2 ... 1.5 mm <sup>2</sup>
• finely stranded without core end processing	0.2 ... 1.5 mm <sup>2</sup>
• finely stranded with core end processing	0.2 ... 1.0 mm <sup>2</sup>
type of connectable conductor cross-sections at the inputs for supply voltage for AWG cables solid	24 ... 16
<b>Electrical Safety</b>	
<b>touch protection on the front according to IEC 60529</b>	finger-safe
<b>Communication/ Protocol</b>	
<b>product function bus communication</b>	Yes
<b>address space memory of address range</b>	
• of the inputs	16 byte
• of the outputs	2 byte
type of electrical connection of the communication interface	RJ45
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	environment A
EMC immunity according to IEC 60947-1	environment A
<b>conducted interference</b>	
• due to burst according to IEC 61000-4-4	2 kV
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV
• due to high-frequency radiation according to IEC 61000-4-6	10 V
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge according to IEC 61000-4-2</b>	6 kV contact discharge / 8 kV air discharge
<b>conducted HF interference emissions according to CISPR11</b>	Class A for industrial environment
<b>field-bound HF interference emission according to CISPR11</b>	Class A for industrial environment
<b>Supply voltage</b>	
<b>type of voltage of the supply voltage</b>	DC
<b>supply voltage 1 at DC rated value</b>	
• minimum permissible	19.2 V
• maximum permissible	28.8 V
<b>auxiliary voltage at DC rated value</b>	20.4 ... 28.8 V
<b>supply voltage at DC rated value</b>	24 V
<b>inrush current peak with supply voltage at DC at 24 V</b>	1.25 A
<b>duration of inrush current peak with supply voltage at DC at 24 V</b>	5 ms
<b>power loss [W] at supply voltage at DC at 24 V</b>	0.5 W
<b>Approvals Certificates</b>	
General Product Approval	EMV



[KC](#)

Test Certificates

other

[Type Test Certificates/Test Report](#)

[Confirmation](#)

#### Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RC7141-1KE10>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RC7141-1KE10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RC7141-1KE10>

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

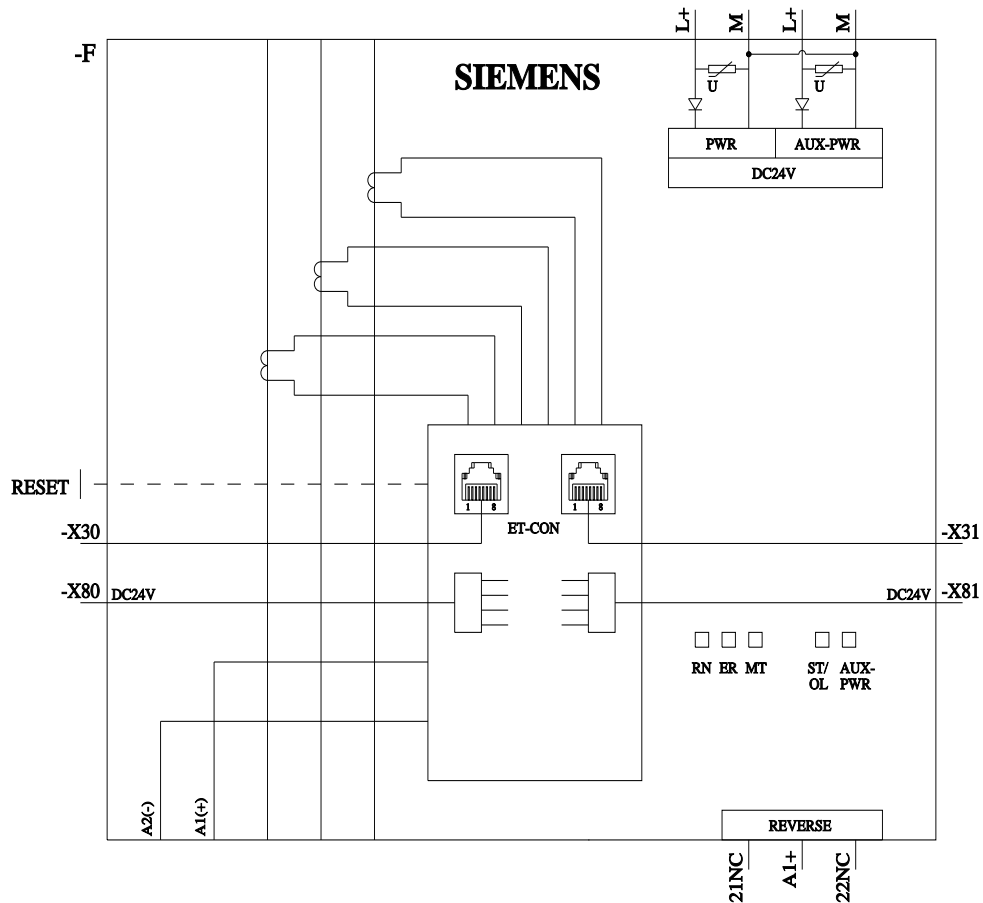
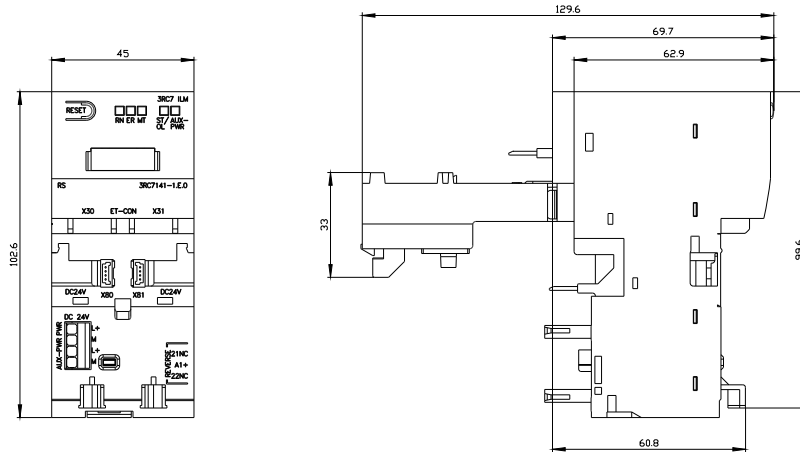
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RC7141-1KE10&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RC7141-1KE10&lang=en)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RC7141-1KE10/char>

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

<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RC7141-1KE10&objecttype=14&gridview=view1>



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