SIEMENS

Product data sheet

3RU1136-4EB0



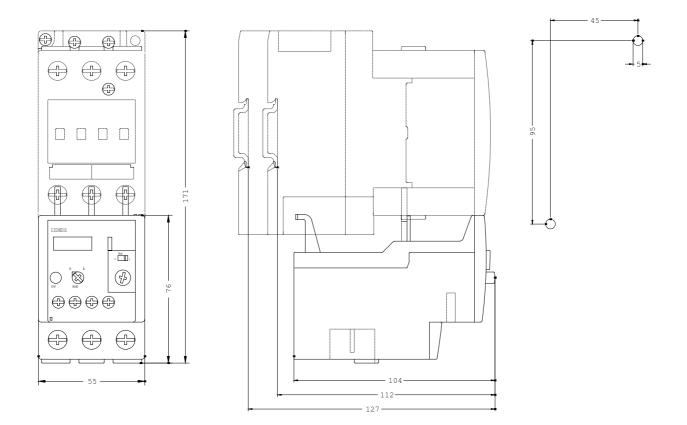
OVERLOAD RELAY, 22...32 A, 1NO+1NC, SIZE S2, CLASS 10, FOR CONTACTOR MOUNTING

General technical details:				
Product brand name		SIRIUS		
Product designation		thermal overload relay		
Protection class IP / frontal/front side		IP20		
Insulation voltage / with degree of pollution 3 / rated value	V	690		
Altitude of installation site / at a height over sea level / maximum	m	2,000		
Ambient temperature				
 during the operating phase 	°C	-20 70		
during storage	°C	-55 80		
during transport	°C	-55 80		
Relative humidity / during the operating phase / maximum	%	100		
Resistance against shock		8g / 10 ms		
Impulse voltage resistance / rated value	kV	6		
Real loss power / total / typical	W	9		
Item designation				
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F		
according to DIN EN 61346-2		F		
Operating current / of the fuse link / rated value	А	80		
Trip class		CLASS 10		

Type of protection2Type of protectionDMT 98 ATEX 6 001Size of overficed relayS2Size of the contactor / can be combined / company-specificS2Protection against electrical shockimgersateMather of poles / for main current clircuit3Operating voltage / at 3 AC / rated value-• maximumV900Service power / at AC-3-• at 400 VKW15Adjustable response current-• of the current-dependent overlead releaseA22 32Autiliary circuit:Number of NG contactsNumber of NG contactsNumber of ContactsNumber of NG contacts•at 100 VAA3•at 110 VAA3•at 24 VAA3•at 24 VAA3•at 24 VAA1•at 24 VAA22•at 100 VAA22•at 100 VAA0.22•at 100 VAA0.22•at 100 VAA0.22•at 24 VAA0.11•at 24 VAA0.22•at 100 VAA0.22•at 100 VAA0.22•at 100 VAA0.22•at 100 V <th>Time of accimement</th> <th>_</th> <th>2</th>	Time of accimement	_	2
Size of vertoad relayS2Size of the contactor / can be combined / company-specificS2Protection against electrical shockS2Mintercuit:Imger-safeNumber of poles / for main current circuitSOperating voltage / at 3 AC / rated valueS• maximumV600Service power / at AC-3S• at 400 VKW15Adjustable response currentS• of the current-dependent overload releaseA2 2 32Auxiliary circuit:acceptability for PLC control (17 V, 5 mA)Number of NG contacts1Number of Contacts1Number of Contacts1Number of Contacts1I at 22 VA• at 230 VA• at 240 VA• at 230 VA• at 240 VA• at 250 VA• at 260 VA• at 270 VA• at 280 VA<			
Size of the contactor / can be combined / company-specific S2 Protection against electrical shock finger-safe Main circuit: 3 Number of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value - • maximum V 690 Service power / at AC-3 W 15 • af 400 V W 15 Adjustable response current - - • of the current-dependent overload release A 2232 Auxiliary circuit: acceptability for PLC control (17 V. 5 mA) Number of NC contacts 1 1 Number of NC contacts 1 1 Number of NC contacts 4 3 • at 10 V A 3 • at 24 V A 3 • at 10 V A 3 • at 125 V A 3 • at 126 V A 1 • at 120 V A 1 • at 120 V A 22 • at 24 V A 2			
Protection against electrical shock inger-safe Main circuit: 3 Number of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value 90 • maximum V 800 Service power / at AC-3 - • at 400 V KW 15 Adjustable response current - - • of the current-dependent overload release A 22 32 Auxiliary circuit: - acceptability for PLC control (17 V, 5 mA) Number of NG contacts 1 1 Number of NG contacts 1 0 Number of NG contacts 0 0 Operating current / of the auxiliary contacts / at AC-15 - - • at 24 V A 3 - • at 10 V AA 3 - • at 24 V A 3 - • at 24 V A 3 - • at 400 V AA 3 - • at 400 V AA 3 - • at 400 V AA 3 - • at 40 V A 3 - • at 40 V A 3 - • at 400 V A 1 - <	-		
Namber of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value 0 • maximum V 690 Service power / at AC-3 0 • at 400 V KW 15 Adjustable response current A 22 32 • of the current-dependent overload release A 22 32 Atxiliary circuit: Contact reliability / of PLC control (17 V, 5 mA) Number of NC contacts 1 1 Number of NC contacts 1 1 Number of NC contacts 1 1 • at 24 V A 3 - • at 24 V AA 3 - • at 24 V A 3 - • at 24 V A 3 - • at 10 V AA 3 - • at 24 V AA 3 - • at 20 V AA 3 - • at 24 V AA 3 - • at 24 V AA 1 - <			
Number of poles / for main current circuit 3 Operating voltage / at 3 AC / rated value / 690 • maximum V 690 Service power / at AC-3 ////////////////////////////////////	Protection against electrical shock		tinger-sate
Operating voltage / at 3 AC / rated valueV690• maximumV690Service power / at AC-3I• at 400 VKW15Adjustable response currentA2 32• of the current-dependent overload releaseA2 32Aviillary circuit:Iacceptability for PLC control (17 V, 5 mA)Number of NC contactsI1Number of NC contacts00Number of Change-over switches00Operating current / of the auxiliary contacts / at AC-15I• at 100 VA3• at 100 VA3• at 100 VA3• at 24 VA3• at 20 VA1• at 20 VA0.22• at 20 VA0.22• at 20 VA0.11Short-circuitIves gL/gG: 6 A, quick: 10 AShort-circuitIve gL/gG: 6 A, quick: 10 AInstallation/mounting surface +/-135* rotatable, with vertical mounting surf	Main circuit:		
• maximumV690Service power / at AC-3 • at 400 VKW15Adjustable response current • of the current-dependent overload releaseA22 32Autiliary circuit:acceptability for PLC control (17 V, 5 mA)Number of NC contacts1Number of NC contacts1Number of change-over switches0Operating current / of the auxiliary contacts / at AC-15 • at 24 VA33• at 100 VA• at 20 VA• at 20 VA• at 20 VA• at 20 VA• at 24 VA• at 25 VA• at 24 VA• at 20 VA• at	Number of poles / for main current circuit		3
Service power / at AC-3 Image: Constant of the current dependent overload release Method of the current dependent overload release Method of the current dependent overload release Method of the current dependent overload release A 22 32 Autiliary circuit: Contact reliability / of the auxiliary contacts A acceptability for PLC control (17 V, 5 mA) Number of NC contacts 1 1 Number of NC contacts 1 0 Number of Change-over switches 0 0 Operating current / of the auxiliary contacts / at AC-15 Image: Contact of the auxiliary contacts / at AC-15 0 • at 10 V A 3 3 3 • at 12 V A 3 3 3 • at 12 V A 3 3 3 • at 20 V A 1 1 • at 20 V A 2 3 3 • at 20 V A 2 3 3 • at 20 V A 1 1 • at 20 V A 1 2 • at 20 V A 1<	Operating voltage / at 3 AC / rated value		
• at 400 VKW15Adjustable response current • of the current-dependent overload releaseA22 32Auxillary circuit:acceptability for PLC control (17 V, 5 mA)Number of NC contacts1Number of NC contacts1Number of NC contacts0Operating current / of the auxillary contacts / at AC-150• at 24 VA• at 10 VA• at 20 VA• at 20 VA• at 20 VA• at 24 VA• at 25 VA• at 20 VA	• maximum	V	690
Adjustable response current A 2232 Auxiliary circuit: acceptability for PLC control (17 V, 5 mA) Number of NC contacts 1 Number of NC contacts 0 Operating current / of the auxiliary contacts / at AC-15 0 • at 24 V A 3 • at 10 V A 3 • at 20 V A 3 • at 20 V A 3 • at 22 V A 1 • at 22 V A 3 • at 10 V A 3 • at 22 V A 3 • at 22 V A 3 • at 22 V A 1 • at 22 V A 2 • at 22 V A 3 • at 22 V A 1 • at 20 V A 1 • at 20 V A 2 • at 20 V A 1 • at 20 V A 0.22 • at 20 V A 0.22 • at 20 V A 0.22 • at 22 V A 0.11 <	Service power / at AC-3		
A 2232 Axiliary circuit: acceptability for PLC control (17 V, 5 mA) Number of NC contacts 1 Number of NC contacts 1 Number of NC contacts 1 Operating current / of the auxiliary contacts / at AC-15 - • at 24 V A 3 • at 10 V A 3 • at 20 V A 3 • at 24 V A 3 • at 20 V A 1 • at 20 V A 3 • at 20 V A 3 • at 20 V A 1 • at 20 V A 1 • at 20 V A 1 • at 24 V A 0.22 • at 24 V A 0.22 • at 25 V A 0.22 • at 20 V A 0.11 • bott-circuit Insellation/mounting/dimensions: Insellation/mounting surface ±/-135° rotatable, with vertical mounting surface ±/-135° rotatable, with	• at 400 V	kW	15
Auxiliary circuit: acceptability for PLC control (17 V, 5 mA) Number of NC contacts 1 Number of NC contacts 1 Number of NO contacts 0 Operating current / of the auxiliary contacts / at AC-15 - • at 24 V A • at 10 V A • at 20 V A • at 20 V A • at 24 V A • at 20 V A	Adjustable response current		
Contact reliability / of the auxiliary contactsacceptability for PLC control (17 V, 5 mA)Number of NC contacts1Number of NO contacts0Operating current / of the auxiliary contacts / at AC-150• at 24 VA3• at 110 VA3• at 120 VA3• at 120 VA3• at 120 VA3• at 120 VA1• at 120 VA3• at 120 VA3• at 120 VA1• at 24 VA1• at 24 VA3• at 120 VA3• at 24 VA3• at 25 VA2• at 20 VA1Operating current / of the auxiliary contacts / at DC-13-• at 24 VA1• at 24 VA0.22• at 24 VA0.22• at 24 VA0.11• at 25 VA0.11• at 20 VA0.11Short-circuitfuse gL/gG: 6 A, quick: 10 AInstallation/mounting/dimensions:-built in orientationwith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-145° litable to the front and back	 of the current-dependent overload release 	А	22 32
Contact reliability / of the auxiliary contactsacceptability for PLC control (17 V, 5 mA)Number of NC contacts1Number of NO contacts0Operating current / of the auxiliary contacts / at AC-150• at 24 VA3• at 110 VA3• at 120 VA3• at 230 VA3• at 240 VA1• at 120 VA3• at 120 VA3• at 120 VA3• at 120 VA3• at 240 VA1• at 240 VA3• at 250 VA2• at 240 VA1• at 250 VA1• at 240 VA1• at 240 VA1• at 240 VA0.22• at 240 VA0.22• at 240 VA0.22• at 240 VA0.11• at 240 VA0.11• at 240 VA0.11• at 240 VA0.11• at 250 VA0.22• at 260 VA0.11Short-circuitfuse gL/gG: 6 A, quick: 10 AInstallation/mounting/dimensions:Installation/mounting surface +/-135° rotatable, with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° iltable to the front and back	Auxiliary circuit:		
Number of NC contacts1Number of NO contacts1Number of change-over switches0Operating current / of the auxiliary contacts / at AC-150• at 24 VA3• at 21 VA3• at 21 VA3• at 22 VA3• at 120 VA3• at 120 VA3• at 230 VA3• at 240 VA3• at 230 VA2• at 400 VA1Operating current / of the auxiliary contacts / at DC-13			acceptability for PLC control (17 V, 5 mA)
Number of change-over switches0Operating current / of the auxiliary contacts / at AC-15///////////////////////////////			
Operating current / of the auxiliary contacts / at AC-15Image: contacts / at AC-15• at 24 VA3• at 110 VA3• at 120 VA3• at 125 VA3• at 230 VA2• at 400 VA1Operating current / of the auxiliary contacts / at DC-13• at 24 VA1• at 24 VA0.22• at 110 VA0.22• at 125 VA0.22• at 24 VA0.11• at 25 VA0.11Short-circuit:Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredInstallation/mounting/dimensions:Duilt in orientationbuilt in orientationImage: colspan="2">with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back	Number of NO contacts		1
Operating current / of the auxiliary contacts / at AC-15Image: contacts / at AC-15• at 24 VA3• at 110 VA3• at 120 VA3• at 125 VA3• at 230 VA2• at 400 VA1Operating current / of the auxiliary contacts / at DC-13• at 24 VA1• at 24 VA0.22• at 110 VA0.22• at 125 VA0.22• at 24 VA0.11• at 25 VA0.11Short-circuit:Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredInstallation/mounting/dimensions:Duilt in orientationbuilt in orientationImage: colspan="2">with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back	Number of change-over switches		0
• at 24 VA3• at 110 VA3• at 120 VA3• at 125 VA3• at 230 VA2• at 400 VA1Operating current / of the auxiliary contacts / at DC-13• at 24 VA1• at 24 VA0.22• at 110 VA0.22• at 125 VA0.11• at 125 VA0.11• at 220 VA0.11Short-circuitDesign of the fuse link / for short-circuit protection of the auxiliary switch / requiredInstallation/mounting/dimensions:Duilt in orientationbuilt in orientationwith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back			
• at 120 VA3• at 125 VA3• at 230 VA2• at 230 VA1• at 400 VA1Operating current / of the auxiliary contacts / at DC-13• at 24 VA1• at 24 VA0.22• at 125 VA0.22• at 125 VA0.11• at 220 VA0.11Installation/mounting/dimensions:Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredIsse gL/gG: 6 A, quick: 10 AUnstallation/mounting/dimensions:built in orientationwith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back		А	3
• at 125 VA3• at 230 VA2• at 230 VA1• at 400 VA1Operating current / of the auxiliary contacts / at DC-13-• at 24 VA1• at 110 VA0.22• at 125 VA0.22• at 220 VA0.11Short-circuitDesign of the fuse link / for short-circuit protection of the auxiliary switch / requiredInstallation/mounting/dimensions:built in orientationwith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back	• at 110 V	A	3
• at 230 VA2• at 400 VA1Operating current / of the auxiliary contacts / at DC-13• at 24 VA1• at 110 VA0.22• at 125 VA0.22• at 220 VA0.11Short-circuitShort-circuitInstallation/mounting/dimensions:built in orientationIf use gL/gG: 6 A, quick: 10 Awith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back	• at 120 V	A	3
• at 400 VA1Operating current / of the auxiliary contacts / at DC-13• at 24 VA1• at 110 VA0.22• at 125 VA0.22• at 220 VA0.11Short-circuitDesign of the fuse link / for short-circuit protection of the auxiliary switch / requiredInstallation/mounting/dimensions:Duilt in orientationbuilt in orientationwith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back	• at 125 V	A	3
Operating current / of the auxiliary contacts / at DC-13AI• at 24 VA1• at 10 VA0.22• at 125 VA0.22• at 220 VA0.11Short-circuit:Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredIuse gL/gG: 6 A, quick: 10 AInstallation/mounting/dimensions:built in orientationwith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back	• at 230 V	A	2
• at 24 VA1• at 110 VA0.22• at 125 VA0.22• at 220 VA0.11Short-circuit:Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredIssal 20 VInstallation/mounting/dimensions:VUnitstallation/mounting/dimensions:built in orientationVith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back	• at 400 V	А	1
• at 110 VA0.22• at 125 VA0.22• at 220 VA0.11Short-circuit:Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredIsse gL/gG: 6 A, quick: 10 AInstallation/mounting/dimensions:with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/-45° tiltable to the front and back	Operating current / of the auxiliary contacts / at DC-13		
• at 125 V • at 220 VA 0.22 0.11Short-circuit:A0.11Design of the fuse link / for short-circuit protection of the auxiliary switch / requiredIsse gL/gG: 6 A, quick: 10 AInstallation/mounting/dimensions:Vbuilt in orientationWith vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back	• at 24 V	А	1
• at 220 VA0.11Short-circuit:Image: Short-circuit protection of the auxiliary switch / requiredImage: Short-circuit protection of the auxiliary switch / requiredImage: Short-circuit protection of the short-circuit protecircuit protection of the short-circuit protection o	• at 110 V	А	0.22
Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required fuse gL/gG: 6 A, quick: 10 A Installation/mounting/dimensions: Installation/mounting surface +/-135° rotatable, with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back	• at 125 V	А	0.22
Design of the fuse link / for short-circuit protection of the auxiliary switch / required fuse gL/gG: 6 A, quick: 10 A Installation/mounting/dimensions: Installation/mounting surface +/-135° rotatable, with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back	• at 220 V	А	0.11
Design of the fuse link / for short-circuit protection of the auxiliary switch / required fuse gL/gG: 6 A, quick: 10 A Installation/mounting/dimensions: Installation/mounting surface +/-135° rotatable, with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back	Short-circuit:		
built in orientation with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back	Design of the fuse link / for short-circuit protection of the		fuse gL/gG: 6 A, quick: 10 A
vertical mounting surface +/- 45° tiltable to the front and back	Installation/mounting/dimensions:		
Type of fixing/fixation direct mounting	built in orientation		vertical mounting surface +/- 45° tiltable to the front
	Type of fixing/fixation		direct mounting

Height	mm	105
Width	mm	55
Depth	mm	118
distance, to be maintained, to the ranks assembly		
• upwards	mm	0
downwards	mm	0
• forwards	mm	0
backwards	mm	0
• sidewards	mm	0
distance, to be maintained, to earthed part		
• upwards	mm	0
downwards	mm	0
• forwards	mm	0
backwards	mm	0
• sidewards	mm	6
distance, to be maintained, conductive elements		
• upwards	mm	0
downwards	mm	0
• forwards	mm	0
backwards	mm	0
• sidewards	mm	6
Connection type:		
Product function		
 removable terminal for auxiliary and control circuit 		No
design of the electrical connection		
• for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of the connectable conductor cross-section		
for main contacts		
• unifilar		2x (0.75 16 mm2)
• stranded wire		2x (0.75 25 mm2), 0.75 35 mm2
• stranded wire		
with conductor end processing		2x (0.75 16 mm2), 0.75 25 mm2
for auxiliary contacts		
		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
• solid		
• solid • finely stranded		
		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2)
finely stranded		2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2) 2x (0,5 1,5 mm2), 2x (0,75 2,5 mm2)

for main contacts		2x (18 3), 1x (18 1)							
for auxiliary contacts		2x (18 14)							
Conductor cross section that can be connected									
for main contacts									
• unifilar	mm²	0.75 16							
stranded wire	mm²	0.75 35							
stranded wire									
with conductor end processing	mm²	0.75 25							
for auxiliary contact									
• unifilar	mm²	0.5 2.5							
stranded wire									
with conductor end processing	mm²	0.5 2.5							
 without conductor final cutting 	mm²	0.5 2.5							
AWG number / as coded connectable conductor cross-section									
• for main contacts / minimum		18							
 for auxiliary contact 		18 14							
Certificates/approvals:									
verification of suitability		CSA / UL / CC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS							
varification of suitability / ATEX		Yes							
Further information:									
Information- and Downloadcenter (Catalogs, Brochures,)									
http://www.siemens.com/industrial-controls/catalogs Global Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RU1136-4EB0/all									
					Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1136-4EB0				



last change:

Jun 14, 2010