SIEMENS

Product data sheet

3SK1230-1AW20

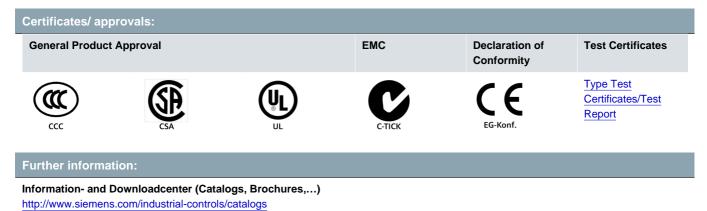


SIRIUS SAFETY RELAY POWERSUPPLY FOR 3SK1 ADVANCED SERIES US = 115 - 230 V AC SCREW CONNECTION

General technical data:

General technical data:		
product brand name		SIRIUS
protection type IP / of the enclosure		IP20
Insulation voltage / rated value	V	300
Impulse voltage resistance / rated value	V	4,000
Air pressure / according to SN 31205	kPa	90 106
Relative humidity / during operating phase	%	10 95
Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against vibration / according to IEC 60068-2-6		5 500 Hz: 0,75 mm
Resistance against shock		10g / 11 ms
EMC emitted interference		IEC 60947-5-1, Class A
Overvoltage class		Installation category III
Degree of pollution		3
Ambient temperature		
during storage	°C	-40 +80
during operating	°C	-25 +60
Type of current supply		24 V / 0,6 A
Galvanic isolation / between entrance and outlet		Yes
Type of display / for normal operation		Green LED for 24 V OK
Characteristic feature of the output / short-circuit protected		Yes

Consumed current / maximumA0.25Control supply voltageFF- inited valueV10240- inited valueV10240- inited valueV10240- inited valueV10240- inited valueV10240- inited valueV0.851.1- inited value0.851.1- inited value0.811- inited value0.811- inited value0.811- inited value0.811- inited value0.811- inited value1.1- inited value1.1	Product feature / Bridging of channels		No	
• for DCV10 240• rated valueV110 240• ated valueV0.85 1.1• ated value0.85 1.1• ated value0.85 1.1• ated valueV17• ated valueV17• ated valueV17• ated valueV24• ated valueV24• ated valueV24• ated valueV24• ated valueV24• ated valueV24• ated valueV36• ated valueV36• ated valueV24• ated valueV36• ated valueV<	Consumed current / maximum	А	0.25	
• rated valueV10 240• rated valueV0.85 1.1• of DC0.85 1.10.85 1.1• at 50 HZ0.85 1.10.85 1.1• at 60 HZ0.85 1.10.85 1.1• of AC0.85 1.10.85 1.1• of AC0.85 1.10.85 1.1• otrad Circuit/ Control:V24Output voitage / for DC / nominal valueV24Output voitage / for DC / nominal valueV24Output urrentImmedically start-up• ondinal rangeV30Output urrentImmedically start-up• ondinal rangeImmedically start-upInstallation/ mounting/ dimensions:Immedical start-up• ondinal to carthed part / sidewardsImmedical start-upInstance, to be maintained, to earthed part / sidewardsImmedical start-upInstance, to be maintained, to earthed part / sidewardsImmedical start-upInstance, to be maintained, to earthed part / sidewardsImmedical start-upInstance, to be maintained, to earthed part / sidewardsImmedical start-upInstance,	Control supply voltage	_		
• at 50 Hz / at ACV10 240• at 60 Hz / at ACV10 240• at 60 Hz / at ACV10 240• at 60 Hz / at ACV10 240• for DC0.85 1.1• at 50 Hz0.85 1.1• at 50 Hz0.85 1.1• for AC0.85 1.1• at 60 Hz0.85 1.1• for AC0.85 1.1• for AC0.85 1.1• at 60 Hz0.85 1.1• for AC0.85 1.1• for AC0.85 1.1• at 60 Hz0.85 1.1• for AC0.85 1.1• for AC1.0• for AC1.0 <th>• for DC</th> <th></th> <th></th>	• for DC			
• rated valueV10 240• rated valueV10 240Operating range factor control supply voltage rated valueV10 240• ror DCV0.85 1.1• rated value0.85 1.10.85 1.1• rated value0.85 1.10.85 1.1• ror AC0.85 1.10.85 1.1• ror AC0.60.85 1.1• ror AC0.80.8• ror AC0.80.8<	rated value	V	110 240	
• at 60 Hz / at AC V 10 240 • rated value V 10 240 Operating range factor control supply voltage rated value 0.85 1.1 • or DC 0.85 1.1 • at 60 Hz 0.85 1.1 • or AC 0.85 1.1 • at 60 Hz 0.85 1.1 • or AC 0.85 1.1 • at 60 Hz 0.85 1.1 • or AC 0.85 1.1 Post of C / rominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value V 0 / toput voltage / for DC / nominal value 0.6 Distance, to be maintained, to the	• at 50 Hz / at AC			
• rated valueV10 240Operating range factor control supply voltage rated value • for DC • at 50 H2 • for AC • at 50 H2 • for AC • for	rated value	V	110 240	
Operating range factor control supply voltage rated value A • for DC 0.85 1.1 • at 50 H2 0.85 1.1 • for AC 0.85 1.1 • at 60 H2 0.85 1.1 • tor AC 0.85 1.1 • tortact Control Control 0.6 • tortact Control 0.6 • tortact Control 0.6 • tortact Patheoremething Controcontor 0.8 •	• at 60 Hz / at AC			
• for DC	rated value	V	110 240	
• at 50 Hz	Operating range factor control supply voltage rated value			
• for AC1• at 60 Hz1• at 60 Hz1• for AC1Resistive lossW7Control circuit/ Control:WOutput correntV0 tuput voltage / for DC / nominal valueV2 duput corrent1• nominal range/ADesign of the short-circuit protection	• for DC		0.85 1.1	
• at 60 Hz • for ACImage: Section of ACResistive lossW17Control circuit/ Control:V24Output voltage / for DC / nominal valueV24Output current • nominal range/A0.6Design of the short-circuit protection/A0.6Design of the short-circuit protectionImage: Section of AC100Distance, to be maintained, to earthed part / sidewardsmm5Distance, to be maintained, to the ranks assembly / sidewardsmm0Munting typeImage: Section of AC100Withmm100100Depthmm121.6Connections/ terminals:image: Section of AC1x (0.52.5 mm?), 2x (1.01.5 mm?)Type of the connectable conductor cross-sections / for AWGinal, 1x (0.52.5 mm?), 2x (0.51.0 mm?)Type of the connectable conductor cross-sections / for AWGinal, 1x (0.52.5 mm?), 2x (0.51.0 mm?)	• at 50 Hz			
• for AC0.85 1.1Resistive lossW17Control circuit/ Control:V24Output voltage / for DC / nominal valueV24Output currentVautomatically start-up• nominal range/ A0.6Design of the short-circuit protectionIautomatically start-upInstallation/ mounting/ dimensions:Iautomatically start-upInstallation/ mounting/ dimensions:IandDistance, to be maintained, to earthed part / sidewardsmm5Distance, to be maintained, to the ranks assembly / sidewardsmm0Mounting typearew and snap-on mountingWithmm10.0Depthmm121.6Connections/ terminalsscrew-upp terminalsType of the econtectionscrew-type terminals'solidinnel y strandedinnel y stranded•with wire end processingin (0,5, 2.5 mm?), 2x (1.0, 1.5 mm?)Type of the connectable conductor cross-sections / for AWGin (0,5, 2.5 mm?), 2x (0,5, 1.0 mm?)	• for AC		0.85 1.1	
W 17 Control circuit/ Control: V 24 Output voitage / for DC / nominal value V 24 Output current /A 0.6 nominal range /A 0.6 Design of the short-circuit protection automatically star-up Installation/ mounting/ dimensions: any mounting position 6 any Distance, to be maintained, to earthed part / sidewards Mm 5 Distance, to be maintained, to the ranks assembly / sidewards Mm 0 Mounting type any crew and snap-on mounting Width mm 121.6 crew and snap-on mounting Depth mm 121.6 crew and snap-on mounting Depth mm 121.6 crew and snap-on mounting Depth mm 121.6 crew and snap-on mounting Posign of the electrical connection screw-type terminals crew and snap-on mounting Posign of the electrical connection int (0.5 2.5 mm ²), 2x (1.0 1.5 mm ²) Posign of the electrical connection int (0.5 2.5 mm ²), 2x	• at 60 Hz			
Control circuit/ Control: V 24 Output current N 0.6 nominal range /A 0.6 Design of the short-circuit protection automatically start-up Installation/ mounting/ dimensions: any mounting position any Distance, to be maintained, to earthed part / sidewards mm Distance, to be maintained, to the ranks assembly / sidewards mm Mounting type screw and snap-on mounting Width mm 121.6 Connections/ terminals: screw-type terminals Connections/ terminals screw-type terminals Type of the connectable conductor cross-sections / for AWG onductors 1x (052.5 mm ²), 2x (0.51.0 mm ²) Type of the connectable conductor cross-sections / for AWG onductors 1x (052.5 mm ²), 2x (0.51.0 mm ²)	• for AC		0.85 1.1	
Output voltage / for DC / nominal value V 24 Output current • nominal range / A 0.6 Design of the short-circuit protection automatically start-up Installation/ mounting/ dimensions: any mounting position any Distance, to be maintained, to earthed part / sidewards mm 5 Distance, to be maintained, to the ranks assembly / sidewards mm 0 Mounting type screw and snap-on mounting Width mm 121.6 Design of the electrical connection screw-type terminals Type of the connectable conductor cross-sections / for AWG ix (0.52.5 mm ²), 2x (1.01.5 mm ²) • solid	Resistive loss	W	17	
Output current • nominal range / A 0.6 Design of the short-circuit protection automatically start-up Installation/ mounting/ dimensions: any mounting position any Distance, to be maintained, to earthed part / sidewards mm 5 Distance, to be maintained, to the ranks assembly / sidewards mm 0 Mounting type screw and snap-on mounting Width mm 100 Destign of the electrical connection mm 121.6 Connections/ terminals: screw-type terminals Type of the connectable conductor cross-section ix (0.52.5 mm ²), 2x (1.01.5 mm ²) • solid	Control circuit/ Control:			
• nominal range/ A0.6Design of the short-circuit protectionutomatically start-upInstallation/ mounting/ dimensions:nmmmounting position1Distance, to be maintained, to earthed part / sidewardsmmDistance, to be maintained, to the ranks assembly / sidewardsmmMounting type6WidthmmPeth22.5HeightmmDesign of the electrical connectionmmType of the connectable conductor cross-sections / for AWGsreew-type terminalsType of the connectable conductor cross-sections / for AWGint (0.52.5 mm?), 2x (1.01.5 mm?)Type of the connectable conductor cross-sections / for AWGint (0.52.5 mm?), 2x (0.51.0 mm?)	Output voltage / for DC / nominal value	V	24	
Design of the short-circuit protection automatically start-up Installation/ mounting/ dimensions: any mounting position any Distance, to be maintained, to earthed part / sidewards mm 5 Distance, to be maintained, to the ranks assembly / sidewards mm 0 Mounting type screw and snap-on mounting Width mm 100 Depth mm 121.6 Connections/ terminals: screw-type terminals Type of the connectable conductor cross-section screw-type terminals • solid in x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • with wire end processing 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) Type of the connectable conductor cross-sections / for AWG conductors Ix (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	Output current			
Installation/ mounting/ dimensions: any mounting position any Distance, to be maintained, to earthed part / sidewards mm 5 Distance, to be maintained, to the ranks assembly / sidewards mm 0 Mounting type screw and snap-on mounting Width mm 22.5 Height mm 100 Depth mm 121.6 Connections/ terminals: screw-type terminals Pesign of the electrical connection screw-type terminals Type of the connectable conductor cross-section ix (0.5 2.5 mm ²), 2x (1.0 1.5 mm ²) • solid ixt (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) Type of the connectable conductor cross-sections / for AWG ix (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²)	nominal range	/ A	0.6	
mounting positionanyDistance, to be maintained, to earthed part / sidewardsmm5Distance, to be maintained, to the ranks assembly / sidewardsmm0Mounting type100screw and snap-on mountingWidthmm100Heightmm121.6Connections/ terminals:Connections/ terminals:Type of the electrical connectionscrew-type terminals* solidif inely strandedix (0.5 2.5 mm²), 2x (1.0 1.5 mm²)• with wire end processing1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)Type of the connectable conductor cross-sections / for AWG conductorsIs any	Design of the short-circuit protection		automatically start-up	
Distance, to be maintained, to earthed part / sidewardsmm5Distance, to be maintained, to the ranks assembly / sidewardsmm0Mounting typermscrew and snap-on mountingWidthmm22.5Heightmm100Depthmm121.6Connections/ terminals:Type of the electrical connectionscrew-type terminalsType of the connectable conductor cross-section • with wire end processing1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²)Type of the connectable conductor cross-sections / for AWG conductorsIt (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	Installation/ mounting/ dimensions:			
Distance, to be maintained, to the ranks assembly / sidewardsmm0Mounting typescrew and snap-on mountingWidthmm22.5Heightmm100Depthmm121.6Connections/ terminals:Design of the electrical connectionscrew-type terminalsType of the connectable conductor cross-sectionscrew-type terminalsinley strandedinley stranded1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²)Type of the connectable conductor cross-sections / for AWGInley Stranded	mounting position		any	
Mounting typescrew and snap-on mountingWidthmm22.5Heightmm100Depthmm121.6Connections/ terminals:Design of the electrical connectionscrew-type terminalsType of the connectable conductor cross-sectionscrew-type terminals• solidifinely strandedix (0.5 2.5 mm²), 2x (1.0 1.5 mm²)• with wire end processingIx (0.5 2.5 mm²), 2x (0.5 1.0 mm²)Type of the connectable conductor cross-sections / for AWGIx (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	Distance, to be maintained, to earthed part / sidewards	mm	5	
Widthmm22.5Heightmm100Depthmm121.6Connections/ terminals:Connections/ terminals:Vertical connectionscrew-type terminalsType of the connectable conductor cross-section1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²)• solid1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)Type of the connectable conductor cross-sections / for AWG conductors1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	Distance, to be maintained, to the ranks assembly / sidewards	mm	0	
Height mm 100 Depth mm 121.6 Connections/ terminals: Design of the electrical connection screw-type terminals Type of the connectable conductor cross-section screw-type terminals 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) think wire end processing tx (0.5 2.5 mm²), 2x (0.5 1.0 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) Type of the connectable conductor cross-sections / for AWG conductors Is (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	Mounting type		screw and snap-on mounting	
Depth mm 121.6 Connections/ terminals: Design of the electrical connection screw-type terminals Type of the connectable conductor cross-section screw-type terminals • solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • with wire end processing 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) Type of the connectable conductor cross-sections / for AWG conductors 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	Width	mm	22.5	
Connections/ terminals: screw-type terminals Design of the electrical connection screw-type terminals Type of the connectable conductor cross-section 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • solid 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) • with wire end processing 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) Type of the connectable conductor cross-sections / for AWG conductors Image: Conductor cross-sections / for AWG conductor cross-sections / for AWG conductors	Height	mm	100	
Design of the electrical connection screw-type terminals Type of the connectable conductor cross-section Image: solid • solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • finely stranded 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) • with wire end processing 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) Type of the connectable conductor cross-sections / for AWG Image: solid	Depth	mm	121.6	
Type of the connectable conductor cross-section Image: solid • solid 1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²) • finely stranded 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) • with wire end processing 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) Type of the connectable conductor cross-sections / for AWG conductors Image: solid so	Connections/ terminals:			
 solid finely stranded with wire end processing Type of the connectable conductor cross-sections / for AWG conductors 	Design of the electrical connection		screw-type terminals	
 finely stranded with wire end processing Type of the connectable conductor cross-sections / for AWG conductors 	Type of the connectable conductor cross-section			
• with wire end processing 1x (0.5 2.5 mm ²), 2x (0.5 1.0 mm ²) Type of the connectable conductor cross-sections / for AWG conductors	• solid		1x (0.5 2.5 mm²), 2x (1.0 1.5 mm²)	
Type of the connectable conductor cross-sections / for AWG conductors	finely stranded			
conductors	with wire end processing		1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)	
• solid 1x (20 14), 2x (18 16)				
	• solid		1x (20 14), 2x (18 16)	



Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

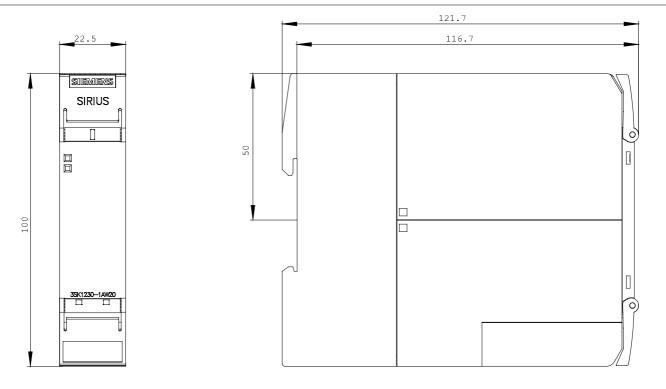
Cax online generator

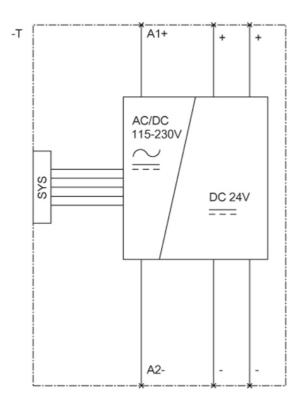
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3SK1230-1AW20/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3SK1230-1AW20





last change:

Mar 24, 2014