## **SIEMENS**

Data sheet 5SV8701-2KK

Summation current transformer type B, 35 mm, 30 mA 1A



product brand name product designation design of the product residual current (Idin) minimum 10 mA internal diameter of summation current transformer 35 mm symmetrical tolerance of supply voltage at DC 12 V wire length maximum 10 m protection class IP at connection all terminals IP20 apparent power consumption maximum 2.5 VA type of voltage of the operating voltage for actuation surge voltage resistance rated value e maximum 6890 V  Main circuit e minimum 0 Hz e maximum 0 O Hz e at AC at 50 Hz rated value maximum 6890 V e at AC at 50 Hz rated value maximum 6890 V e at AC at 50 Hz rated value maximum 6890 V suitability suitability for use for AC and DC systems Product function error memory Connectable conductor cross-sections type of connectable conductor cross-sections 1 peg of connectable conductor cross-sections 2 peg of connectable conductor cross-sections 3 peg of connectable conductor cross-sections 4 peg of connectable conductor cross-sections 1 peg of connectable conductor cross-sections 2 peg of connectable conductor cross-sections 3 peg of connectable conductor 4 peg of connectable conductor 5 peg of connectable conductor 5 peg of connectable conductor 6 peg of connectable conductor 7 peg of connectable conductor 7 peg of connectable conductor 8 peg of connectable conductor 8 peg of connectable conductor 8 peg of connectable	Model	
design of the product residual current (Idn) minimum 10 mA 1 internal diameter of summation current transformer symmetrical tolerance of supply voltage at DC 12 V wire length maximum 10 m protection class IP at connection all terminals IP20 apparent power consumption maximum 2.5 VA type of voltage of the operating voltage for actuation surge voltage resistance rated value operating voltage rated value operating voltage rated value operating requency rated value operating frequency rated value operating frequency rated value operating frequency rated value operational current rated value maximum operational current control supply voltage of AC at 60 Hz rated value maximum of 90 V suitability suitability for use for AC and DC systems  Product function product function error memory No  Connections type of connectable conductor cross-sections bype of connectable conductor cross-sections product function Plug-in terminal  Mechanical Design height for yellow in terminal  Mechanical Design height for yellow in terminal for AC and DC systems  Froduct functions influence of the surrounding temperature influence	product brand name	SENTRON
residual current (Idn) minimum 10 mA internal diameter of summation current transformer 35 mm symmetrical loterance of supply voltage at DC 12 V wire length maximum 10 m protection class IP at connection all terminals IP20 apparent power consumption maximum 2.5 VA type of voltage of the operating voltage for actuation AC/DC surge voltage resistance rated value 8 kV operating voltage rated value • maximum 689 V	product designation	summation current transformer
internal diameter of summation current transformer symmetrical tolerance of supply voltage at DC 12 V wire length maximum protection class IP at connection all terminals apparent power consumption maximum 12.5 VA type of voltage of the operating voltage for actuation AC/DC surge voltage resistance rated value emaximum 690 V  Main circuit  operating frequency rated value emaximum 0 Hz emaximum 0 Hz operational current rated value emaximum 0 AC Oontroil current control supply voltage eat AC at 50 Hz rated value maximum 690 V  at AC at 60 Hz rated value maximum 690 V  at AC at 60 Hz rated value maximum 690 V  eat AC at 60 Hz rated value maximum 690 V  suitability for use for AC and DC systems  Product function product function error memory No Connections type of connectable conductor cross-sections fype of connectable conductor cross-sections fype of electrical connection  Mochanical Design height 55 mm width 99.5 mm depth net weight 79.2 mm net weight Environmental conditions influence of the surrounding temperature minimum -10 °C	design of the product	Type B
symmetrical tolerance of supply voltage at DC wire length maximum 10 m protection class IP at connection all terminals aparent power consumption maximum 2.5 VA type of voltage of the operating voltage for actuation surge voltage resistance rated value • maximum 690 V  Main circuit operating frequency rated value • miximum 0 Hz • miximum 0 Hz • miximum 0 O Hz • at AC at 50 Hz rated value maximum 690 V  Sultability sultability sultability sultability sultability sultabilitor true of connectable conductor cross-sections type of electrical connection Plug-in terminal Mechanical Design height 99.5 mm depth net weight 79.2 mm net weight 55 mm  Max. 95% humidity ambient temperature during operation • minimum - 10 °C	residual current (Idn) minimum	10 mA
wire length maximum 10 m protection class IP at connection all terminals IP20 apparent power consumption maximum 2.5 VA type of voltage of the operating voltage for actuation AC/DC surge voltage resistance rated value 8 kV operating voltage rated value • maximum 690 V  Main circuit operating frequency rated value • minimum 0 Hz • maximum 2 00 Hz • maximum 2 00 Hz • maximum 2 00 Hz  operational current rated value 80 A  Control current control supply voltage • at AC at 50 Hz rated value maximum 690 V  suitability for use for AC and DC systems  Product function product function product function error memory No Connections type of connectable conductor cross-sections 6 x 0.75 mm² type of electrical connection Plug-in terminal Mechanical Dosign height 55 mm width 99.5 mm depth 79.2 mm net weight 340 g  Environmental conditions influence of the surrounding temperature Ambient temperature during operation • minimum -10 °C	internal diameter of summation current transformer	35 mm
protection class IP at connection all terminals IP20 apparent power consumption maximum 2.5 VA type of voltage of the operating voltage for actuation AC/DC surge voltage resistance rated value 8 kV operating voltage resistance rated value • maximum 690 V  Main circuit operating frequency rated value • minimum 0 Hz • maximum 2 0 Hz • maximum 2 00 Hz operational current rated value 80 A  Control current control supply voltage • at AC at 50 Hz rated value maximum 690 V  Suitability suitability suitability or use for AC and DC systems  Product function product function error memory No  Connections type of connectable conductor cross-sections 6 x 0.75 mm² type of electrical connection Plug-in terminal  Mechanical Design height 55 mm yel-gith 99.5 mm depth 79.2 mm net weight 340 g  Environmental conditions influence of the surrounding temperature Max. 95% humidity ambient temperature during operation • minimum -10 °C	symmetrical tolerance of supply voltage at DC	12 V
apparent power consumption maximum 2.5 VA type of voltage of the operating voltage for actuation surge voltage resistance rated value 9 maximum 690 V  Main circuit 0 perating frequency rated value 9 minimum 0 Hz 1 maximum 0 Hz 1 ma	wire length maximum	10 m
type of voltage of the operating voltage for actuation surge voltage resistance rated value operating voltage rated value • maximum 690 V  Main circuit  operating frequency rated value • minimum 0 Hz • maximum 2 000 Hz operational current rated value • minimum 0 ACONTO current  control current control surphy voltage • at AC at 50 Hz rated value maximum 690 V  suitability suitability suitability suitability or use Product function error memory type of electrical connection type of connectable conductor cross-sections type of electrical connection Plug-in terminal Mechanical Design height width 99.5 mm depth 179.2 mm net weight Environmental conditions influence of the surrounding temperature ambient temperature during operation • minimum -10 °C	protection class IP at connection all terminals	IP20
surge voltage resistance rated value operating voltage rated value	apparent power consumption maximum	2.5 VA
operating voltage rated value  • maximum  Main circuit  operating frequency rated value  • minimum  • maximum  0 Hz  • maximum  0 DHz  • maximum  0 OHz  • maximum  0 OHz  0 operational current rated value  80 A  Control current  control supply voltage  • at AC at 50 Hz rated value maximum  690 V  • at AC at 60 Hz rated value maximum  690 V  Suitability  suitability  suitability for use  Product function  product function error memory  No  Connections  type of connectable conductor cross-sections  type of electrical connection  Mechanical Design  height  55 mm  width  99.5 mm  depth  79.2 mm  net weight  Environmental conditions  influence of the surrounding temperature  ambient temperature during operation  • minimum  -10 °C	type of voltage of the operating voltage for actuation	AC/DC
maximum  ma	surge voltage resistance rated value	8 kV
Main circuit  operating frequency rated value  • minimum  • maximum  operational current rated value  80 A  Control current  control supply voltage  • at AC at 50 Hz rated value maximum  690 V  • at AC at 60 Hz rated value maximum  690 V  Suitability  suitability  product function  product function error memory  No  Connections  type of connectable conductor cross-sections  type of electrical connection  Plug-in terminal  Mechanical Design  height  55 mm  width  99.5 mm  depth  79.2 mm  net weight  Environmental conditions  influence of the surrounding temperature ambient temperature during operation  • minimum  -10 °C	operating voltage rated value	
operating frequency rated value  • minimum  • maximum  0 Hz  • maximum  2 000 Hz  operational current rated value  80 A  Control current  control supply voltage  • at AC at 50 Hz rated value maximum  690 V  • at AC at 60 Hz rated value maximum  590 V  Suitability  suitability for use  Froduct function  product function error memory  No  Connections  type of connectable conductor cross-sections  type of electrical connection  Plug-in terminal  Mechanical Design  height  99.5 mm  depth  79.2 mm  net weight  55 mm  width  99.5 mm  depth  79.2 mm  net weight  540 g  Environmental conditions  influence of the surrounding temperature  ambient temperature during operation  • minimum  -10 °C	• maximum	690 V
maximum	Main circuit	
maximum operational current rated value  control current  control supply voltage  at AC at 50 Hz rated value maximum 690 V  at AC at 60 Hz rated value maximum 690 V  suitability  suitability  rorduct function  product function  product function error memory No  Connections  type of connectable conductor cross-sections type of electrical connection  Plug-in terminal  Machanical Design  height 99.5 mm depth net weight 79.2 mm net weight 55. mm influence of the surrounding temperature ambient temperature during operation  minimum  at Control tracetor  # Max. 95% humidity ambient temperature during operation  minimum  at Control current  # Max. 95% humidity  # minimum  at Control current  # Max. 95% humidity  # minimum  and Control current  # Max. 95% humidity	operating frequency rated value	
operational current rated value 80 A  Control current  control supply voltage  • at AC at 50 Hz rated value maximum 690 V  • at AC at 60 Hz rated value maximum 690 V  Suitability  suitability for use for AC and DC systems  Product function  product function rror memory No  Connections  type of connectable conductor cross-sections 6 x 0.75 mm² type of electrical connection Plug-in terminal  Mechanical Design  height 55 mm width 99.5 mm depth 79.2 mm net weight 340 g  Environmental conditions  influence of the surrounding temperature Max. 95% humidity ambient temperature during operation  • minimum -10 °C	• minimum	0 Hz
Control current  control supply voltage  • at AC at 50 Hz rated value maximum  690 V  • at AC at 60 Hz rated value maximum  690 V  Suitability  suitability for use  Froduct function  product function error memory  No  Connections  type of connectable conductor cross-sections  type of electrical connection  Mechanical Design  height  55 mm  width  99.5 mm  depth  79.2 mm  net weight  190.0 mm	maximum	2 000 Hz
control supply voltage  • at AC at 50 Hz rated value maximum 690 V  • at AC at 60 Hz rated value maximum 690 V  Suitability  suitability for use for AC and DC systems  Product function product function error memory No  Connections type of connectable conductor cross-sections type of electrical connection  Mechanical Design height 55 mm width 99.5 mm depth 99.5 mm depth 79.2 mm net weight 1340 g  Environmental conditions influence of the surrounding temperature influence of the surrounding temperature 10°C	operational current rated value	80 A
at AC at 50 Hz rated value maximum  at AC at 60 Hz rated value maximum  by Suitability  suitability suitability for use  Product function  product function error memory  No  Connections  type of connectable conductor cross-sections  type of electrical connection  Mechanical Design  height  by 99.5 mm  depth  net weight  Type of the surrounding temperature  influence of the surrounding temperature  minimum  at AC at 60 Hz rated value maximum  for AC and DC systems  for AC and D	Control current	
● at AC at 60 Hz rated value maximum  Suitability  suitability for use  Froduct function  product function error memory  No  Connections  type of connectable conductor cross-sections type of electrical connection  Mechanical Design  height  sight  99.5 mm  depth  net weight  T9.2 mm  net weight  Environmental conditions  influence of the surrounding temperature  minimum  690 V  for AC and DC systems  ### AC at 60 Hz rated value maximum  690 V   Suitability  for AC and DC systems  for AC and DC systems  ### AC at 60 Hz rated value maximum  690 V  ### AC and DC systems  ### AC at 60 Hz rated value maximum  690 V   ### AC and DC systems  ### AC at 60 Hz rated value maximum  ### AC and DC systems  ### AC and D	control supply voltage	
Suitability suitability for use  Product function  product function error memory  No  Connections  type of connectable conductor cross-sections type of electrical connection  Mechanical Design height beight beigh	<ul> <li>at AC at 50 Hz rated value maximum</li> </ul>	690 V
suitability for use for AC and DC systems  Product function product function error memory No  Connections type of connectable conductor cross-sections 6 x 0.75 mm² type of electrical connection Plug-in terminal  Mechanical Design height 55 mm width 99.5 mm depth 79.2 mm net weight 340 g  Environmental conditions influence of the surrounding temperature Max. 95% humidity ambient temperature during operation  • minimum  • minimum  -10 °C	• at AC at 60 Hz rated value maximum	690 V
Product function product function error memory  Connections type of connectable conductor cross-sections type of electrical connection  Plug-in terminal  Mechanical Design height 55 mm width 99.5 mm depth 79.2 mm net weight 1340 g  Environmental conditions influence of the surrounding temperature  minimum  • minimum  -10 °C	Suitability	
product function error memory  Connections  type of connectable conductor cross-sections type of electrical connection  Plug-in terminal  Mechanical Design  height  55 mm  width  99.5 mm  depth  79.2 mm  net weight  1340 g  Environmental conditions  influence of the surrounding temperature  minimum  Max. 95% humidity  ambient temperature during operation  minimum  • minimum  • minimum	suitability for use	for AC and DC systems
type of connectable conductor cross-sections  type of electrical connection  Plug-in terminal  Mechanical Design height bight	Product function	
type of connectable conductor cross-sections  type of electrical connection  Plug-in terminal  Mechanical Design  height  55 mm  width  99.5 mm  depth  79.2 mm  net weight  Environmental conditions  influence of the surrounding temperature  ambient temperature during operation  • minimum  • minimum  6 x 0.75 mm²  6 x 0.75 mm²  6 x 0.75 mm²  A x 0.75 mm²  Symma  Max. 95 mm  Max. 95% humidity  -10 °C	product function error memory	No
type of electrical connection  Mechanical Design  height  55 mm  width  99.5 mm  depth  79.2 mm  net weight  340 g  Environmental conditions  influence of the surrounding temperature  ambient temperature during operation  • minimum  • minimum  Plug-in terminal  99.5 mm  And  99.5 mm  And  99.5 mm  And  79.2 m	Connections	
Mechanical Design   height 55 mm   width 99.5 mm   depth 79.2 mm   net weight 340 g   Environmental conditions   influence of the surrounding temperature Max. 95% humidity   ambient temperature during operation -10 °C	type of connectable conductor cross-sections	6 x 0.75 mm²
height 55 mm  width 99.5 mm  depth 79.2 mm  net weight 340 g  Environmental conditions  influence of the surrounding temperature Max. 95% humidity  ambient temperature during operation  • minimum -10 °C	type of electrical connection	Plug-in terminal
width 99.5 mm  depth 79.2 mm  net weight 340 g  Environmental conditions  influence of the surrounding temperature Max. 95% humidity  ambient temperature during operation  • minimum -10 °C	Mechanical Design	
depth 79.2 mm  net weight 340 g  Environmental conditions  influence of the surrounding temperature Max. 95% humidity  ambient temperature during operation  • minimum -10 °C	height	55 mm
net weight  Environmental conditions  influence of the surrounding temperature  ambient temperature during operation  • minimum  -10 °C	width	99.5 mm
Environmental conditions  influence of the surrounding temperature  mbient temperature during operation  minimum  Max. 95% humidity  -10 °C	depth	79.2 mm
influence of the surrounding temperature  Amax. 95% humidity  ambient temperature during operation  • minimum  -10 °C	net weight	340 g
influence of the surrounding temperature  Amax. 95% humidity  ambient temperature during operation  • minimum  -10 °C	Environmental conditions	
ambient temperature during operation  ● minimum  -10 °C		Max. 95% humidity
	ambient temperature during operation	
• maximum 55 °C		-10 °C
	• maximum	55 °C

ambient temperature during storage -10 °C • minimum • maximum 55 °C reference code • according to EN 61346-2 Т • according to IEC 81346-2 Т Approvals Certificates **General Product Approval Declaration of Conformity** other Confirmation Confirmation **Miscellaneous** 

## **Environment**

Environmental Confirmations

## 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,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SV8701-2KK

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

https://support.industry.siemens.com/cs/ww/en/ps/5SV8701-2KK

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SV8701-2KK

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications

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