SIEMENS

Data sheet

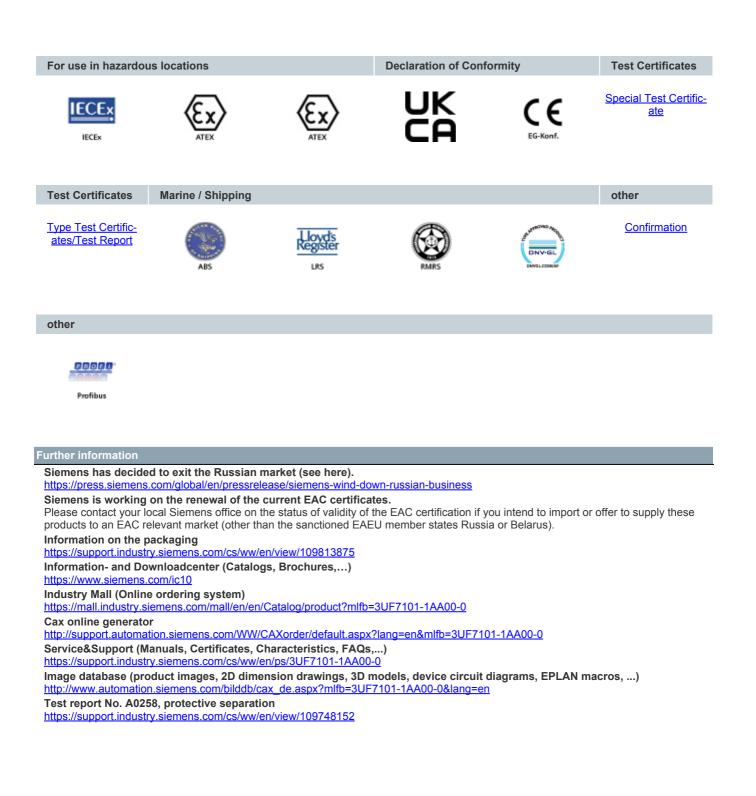
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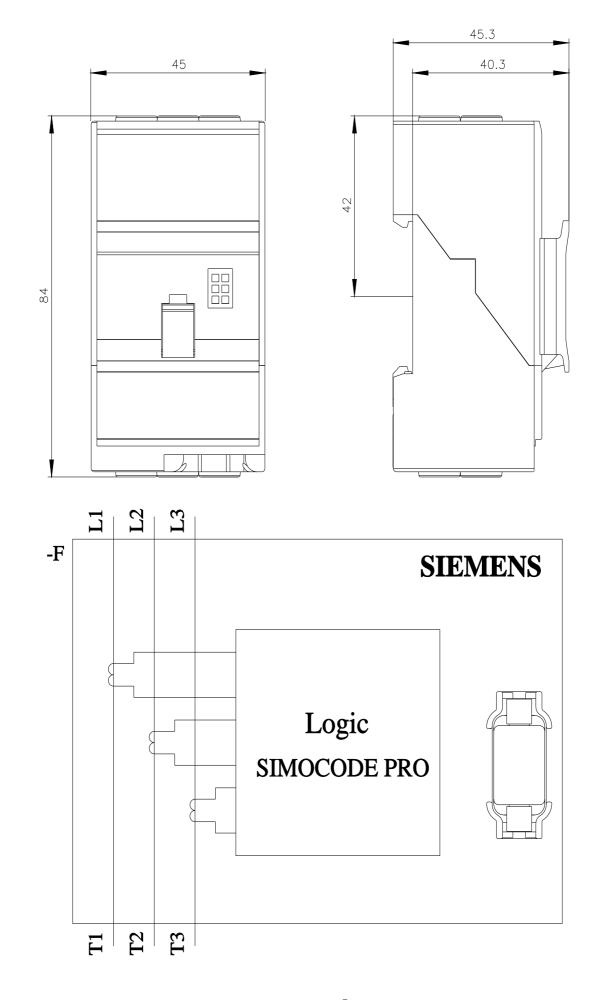


Current measuring module, Set current 2.4...25 A Overall width 45 mm, straight-through transformer

product brand name product designation SIRUS Current measuring module Central technical data • product function • • current measurement Yes • voltage measurement No • active power measurement No • input for thermistor connection No • input for thermistor connection No • or wites of main circuit according to IEC 60947-1 rated value 690 V • for wires of main circuit according to IEC 60947-1 rated value 600 V • for wires of main circuit according to IEC 60947-1 rated value 600 V • protection class IP shock resistance rated value 600 V • for wires of main circuit according to IEC 60068-2-27 15g / 11 ms vibration resistance 1920 shock resistance according to IEC 80368-2 F Substance Prohibitance (Date) 05/28/2009 cartificato of suitability 63/28/2009 • according to ATEX directive 2014/34/EU BVS 06 ATEX F001 • according to ATEX directive 2014/34/EU BVS 06 ATEX F001 • according to ATEX directive 2014/34/EU US 06 ATEX F001 • according to IEC 60947-1			
product designation Current measuring module Central tochnical data product function • current measurement Yes • voltage measurement No • active power measurement No • product function No • product organization No • frequency measurement No • input for thermistor connection No • tor wires of main circuit according to IEC 60947-1 6800 V • tor wires of main circuit according to IEC 60947-1 6000 V rated value 6000 V surge voltage resistance 6000 V protection class IP IP20 shock resistance according to IEC 6008-2-27 15g / 11 ms vibration resistance 05/28/2009 certificate of suitability BVS 06 ATEX F001 • according to IEC 61004-4 2 kV • due to burst according to IEC 60947-1 class A certificate of suitability BVS 06 ATEX F001 • according to UKCA according to ATEX tirective 2014/34/EU BVS 06 ATEX F001 • according to IEC 60947-1	product brand name	SIRIUS	
product function vurtent measurement Yes • oklage measurement No • active power measurement No • power measurement No • inquery measurement No • inquery measurement No • inquery measurement No • inquery measurement No • ording active power 0.2 W insulation voltage • with degree of pollution 3 at AC rated value 690 V • for wires of main circuit according to IEC 6098-2-27 15g / 11 ms vibration registrance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 6008-2-27 15g / 11 ms vibration registrance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 6008-2-27 15g / 11 ms vibration resistance 0228/2009 cortificate of suitability according to ATEX directive 2014/34/EU • according to IEC 60947-1 Class A conducter compatibility carresponds to degree of severity 3 conductor-earth surge according to IEC 6100-4-4 2 kV • due to conductor-earth surge according to IEC 6100-4-3 10 V/m	product designation	Current measuring module	
• current measurement Yes • voltage measurement No • active power measurement No • product component No • input for thermistor connection No • input for thermistor connection No • orosumed active power 0.2 W • with degree of pollution 3 at AC rated value 690 V • or wrives of main circuit according to IEC 60947-1 6 kV • rated value 600 V • protection class IP IP20 surge voltage resistance rated value 6000 V • protection class IP IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability # • according to ATEX directive 2014/34/EU BVS 06 ATEX F001 • according to IEC 60947-1 corresponds to degree of severity 3 conducted interference according to IEC 60947-1 corresponds to degree of severity 3 conductor-earth surge according to IEC 6000-4-4 2 kV • due to conductor-earth surge according to IEC 2 kV et to conductor-earth surge according to IEC 2 kV et due to conductor-earth	General technical data		
• vollage measurement No • active power measurement No • power measurement No • inquit for thermistor connection No • inquit for thermistor connection No • orget forger esistance rated value 690 V • for wires of main circuit according to IEC 60947-1 6 kV rated value 6 000 V protection class IP IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 16 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability IS210/KEX0464 • according to UKCA II (2) G, II (2) D, I (M2) directive 2014/34/EU BVS 06 ATEX F001 Electromagnetic compatibility Corresponds to degree of severity 3	product function		
• active power measurement No • power measurement No • incquency measurement No • input for thermistor connection No • onsumed active power 0.2 W • with degree of pollution 3 at AC rated value 690 V • for wires of main circuit according to IEC 60947-1 6kV • or wires of main circuit according to IEC 60947-1 6kV rated value 600 V surge voltage resistance rated value 600 V protection class IP IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability BVS 06 ATEX F001 • according to XIEX directive 2014/34/EU BVS 06 ATEX F001 • according to IEC 60947-1 class A cording to ATEX directive 2014/34/EU BVS 06 ATEX F001 • according to IEC 60947-1 class A conducted interference corresponds to degree of severity 3 conducted interference corresponds to degree of severity 3 con	-	Yes	
• power measurement No • frequency measurement No product component	 voltage measurement 	No	
• frequency measurement No product component No • input for thermistor connection No consumed active power 0.2 W • with degree of pollution 3 at AC rated value 690 V • for wires of main circuit according to IEC 60947-1 6 kV rated value 6 000 V protection class IP IP20 shock resistance according to IEC 6068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 cortificate of suitability 05/28/2009 excording to ATEX directive 2014/34/EU BVS 06 ATEX F001 insaccording to UKCA ITS21UKEX0464 explosion device group and category according to ATEX II (2) G, II (2) D, I (M2) Electromagnetic compatibility carresponds to degree of severity 3 conductor earth surge according to IEC 60947-1 class A edue to burst according to IEC 60947-1 class A edue to burst according to IEC 60947-1 class A edue to burst according to IEC 60947-1 class A edue to burst according to IEC 60947-1 class A edue to burst according to IEC 60947-1 class A edue to burst according to IEC 61000-4-4 2 kV </th <td> active power measurement </td> <td>No</td>	 active power measurement 	No	
product component • input for thermistor connection No • input for thermistor connection 0.2 W insulation voltage • with degree of pollution 3 at AC rated value 680 V • for wires of main circuit according to IEC 60947-11 rated value 6000 V surge voltage resistance rated value 6000 V protection class IP 6000 V stock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 ecrificate of suitability 9 • according to ATEX directive 2014/34/EU BVS 06 ATEX F001 irrective 2014/34/EU BVS 06 ATEX F001 explosin device group and category according to ATEX II (2) G, II (2) D, I (M2) directive 2014/34/EU Electromagnetic compatibility Electromagnetic compatibility class A e due to burst according to IEC 61004-1 corresponds to degree of severity 3 ording to LEC 6100-4-3 10 V/m • due to bounductor-conductor surge according to IEC 6100-4-3 2 kV • due to conductor-conductor surge according to IEC 61000-4-3 1 kV <td> power measurement </td> <td>No</td>	 power measurement 	No	
• input for thermistor connection No consumed active power 0.2 W insulation voltage 690 V • with degree of pollution 3 at AC rated value 690 V • for wires of main circuit according to IEC 60947-1 rated value 6 kV surge voltage resistance rated value 6 000 V protection class IP IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 16 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability 05/28/2009 • according to ATEX directive 2014/34/EU BVS 06 ATEX F001 • according to UKCA II (2) G, II (2) D, I (M2) explosing device group and category according to ATEX II (2) G, II (2) D, I (M2) Electomagnetic compatibility corresponds to degree of severity 3 conducted interference 4 kV • due to burst according to IEC 60094-1 class A conductor-conductor surge according to IEC 2 kV • due to conductor-conductor surge according to IEC 2 kV • due to conductor-conductor surge according to IEC 1 kV	 frequency measurement 	No	
consumed active power0.2 Winsulation voltage• with degree of pollution 3 at AC rated value690 V• for wires of main circuit according to IEC 60947-1 rated value6 kVsurge voltage resistance rated value6 000 Vprotection class IPIP20shock resistance according to IEC 60068-2-2715g / 11 msvibration resistance1-6 Hz / 15 mm; 6-500 Hz / 2 greference code according to IEC 81346-2FSubstance Prohibitance (Date)05/28/2009certificate of suitability8VS 06 ATEX F001• according to NCCAITS21 UKEX0464explosion device group and category according to ATEXII (2) G, II (2) D, I (M2)Electromagnetic compatibilitycorresponds to degree of severity 3• due to conductor-cent usrge according to IEC 60947-1 conductor-cent usrge according to IEC 61000-4-42 kV• due to conductor-conductor surge according to IEC 61000-4-310 V/mInputs/ Outputs0number of outputs as contact-affected switching element0	product component		
insulation voltage insulation voltage • with degree of pollution 3 at AC rated value 690 V • for wires of main circuit according to IEC 60947-1 rated value 6 kV surge voltage resistance rated value 6 000 V protection class IP IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability - • according to ATEX directive 2014/34/EU BVS 06 ATEX F001 • according to UKCA ITS21UKEX0464 explosion device group and category according to ATEX II (2) G, II (2) D, I (M2) Electromagnetic compatibility corresponds to degree of severity 3 conducted interference according to IEC 60947-1 class A conducted interference according to IEC 61000-4-4 2 kV • due to conductor-earth surge according to IEC 2 kV • due to conductor-conductor surge according to IEC 1 kV • due to conductor-conductor surge according to IEC 1 kV • due to conductor-conductor surge according to IEC 1 kV • due to conductor-conductor surge according to IEC 1 kV • due to conductor-conductor surge according to IEC 1 kV	 input for thermistor connection 	No	
• with degree of pollution 3 at AC rated value 690 V • for wires of main circuit according to IEC 60947-1 6 kV surge voltage resistance rated value 6 000 V protection class IP IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability 0 • according to ATEX directive 2014/34/EU BVS 06 ATEX F001 • according to VCA ITS21UKEX0464 explosion device group and category according to ATEX II (2) G, II (2) D, I (M2) Electromagnetic compatibility corresponds to degree of severity 3 conducted interference 2 kV • due to conductor-conductor surge according to IEC 61000-4-4 2 kV • due to conductor-conductor surge according to IEC 61000-4-3 10 V/m Inputs/ Outputs 10 V/m Inputs/ Outputs 0 Protective and monitoring functions 0	consumed active power	0.2 W	
• for wires of main circuit according to IEC 60947-1 rated value 6 kV surge voltage resistance rated value protection class IP 6 000 V shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability 8 VS 06 ATEX F001 • according to XEX directive 2014/34/EU BVS 06 ATEX F001 • according to UKCA ITS21UKEX0464 explosion device group and category according to ATEX II (2) G, II (2) D, I (M2) etectromagnetic compatibility corresponds to degree of severity 3 conducted interference 0 • due to burst according to IEC 61000-4-3 2 kV • due to conductor-earth surge according to IEC 61000-4-3 10 V/m field-based interference according to IEC 61000-4-3 10 V/m number of outputs as contact-affected switching element 0	insulation voltage		
rated value 6 000 V surge voltage resistance rated value 6 000 V protection class IP IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability excording to ATEX directive 2014/34/EU e according to ATEX directive 2014/34/EU BVS 06 ATEX F001 e according to JKCA ITS21UKEX0464 explosion device group and category according to ATEX II (2) G, II (2) D, I (M2) Electromagnetic compatibility corresponds to degree of severity 3 conducted interference e due to burst according to IEC 60947-1 corresponds to degree of severity 3 conducted interference 2 kV e due to conductor-conductor surge according to IEC 61000-4-4 2 kV e due to conductor-conductor surge according to IEC 61000-4-5 10 V/m field-based interference according to IEC 61000-4-3 10 V/m element 0	 with degree of pollution 3 at AC rated value 	690 V	
protection class IP IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance 1-6 Hz / 15 mm; 6-500 Hz / 2 g reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability 05/28/2009 • according to ATEX directive 2014/34/EU EVS 06 ATEX F001 • according to UKCA ITS21UKEX0464 explosion device group and category according to ATEX II (2) G, II (2) D, I (M2) etectromagnetic compatibility EMC emitted interference according to IEC 60947-1 conducted interference corresponds to degree of severity 3 e due to burst according to IEC 61000-4-4 2 kV e due to conductor-earth surge according to IEC 1 kV field-based interference according to IEC 61000-4-3 10 V/m Inputs/Outputs 10 V/m number of outputs as contact-affected switching element 0		6 kV	
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vibration resistance1-6 Hz / 15 mm; 6-500 Hz / 2 greference code according to IEC 81346-2FSubstance Prohibitance (Date)05/28/2009certificate of suitabilityBVS 06 ATEX F001• according to UKCAITS21UKEX0464explosion device group and category according to ATEXII (2) G, II (2) D, I (M2)centited interference according to IEC 60947-1class Aconducted interferencecorresponds to degree of severity 3• due to burst according to IEC 61000-4-42 kV• due to conductor-conductor surge according to IEC1 kV61000-4-51 kV• due to conductor-conductor surge according to IEC0 V/mInputs/ Outputs0number of outputs as contact-affected switching element0	protection class IP	IP20	
reference code according to IEC 81346-2 F Substance Prohibitance (Date) 05/28/2009 certificate of suitability BVS 06 ATEX F001 • according to UKCA ITS21UKEX0464 explosion device group and category according to ATEX II (2) G, II (2) D, I (M2) Electromagnetic compatibility Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 class A conducted interference corresponds to degree of severity 3 • due to burst according to IEC 61000-4-4 2 kV • due to conductor-centh surge according to IEC 2 kV • due to conductor-conductor surge according to IEC 1 kV 61000-4-5 1 kV • due to conductor-conductor surge according to IEC 1 kV 61000-4-5 10 V/m Inputs/ Outputs 0 number of outputs as contact-affected switching element 0	shock resistance according to IEC 60068-2-27	15g / 11 ms	
Substance Prohibitance (Date)05/28/2009certificate of suitability• according to ATEX directive 2014/34/EUBVS 06 ATEX F001• according to UKCAITS21UKEX0464explosion device group and category according to ATEX directive 2014/34/EUII (2) G, II (2) D, I (M2)Electromagnetic compatibilityElectromagnetic compatibilityEMC emitted interference according to IEC 60947-1 conducted interference• due to burst according to IEC 61000-4-42 kV• due to conductor-earth surge according to IEC 61000-4-51 kV• due to conductor-conductor surge according to IEC 61000-4-51 kVfield-based interference according to IEC 61000-4-310 V/mInputs/ Outputs0	vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g	
certificate of suitabilityBVS 06 ATEX F001• according to ATEX directive 2014/34/EUBVS 06 ATEX F001• according to UKCAITS21UKEX0464explosion device group and category according to ATEXII (2) G, II (2) D, I (M2)cirective 2014/34/EUElectromagnetic compatibilityEMC emitted interference according to IEC 60947-1class Aconducted interferencecorresponds to degree of severity 3conducted interference• due to burst according to IEC 61000-4-42 kV• due to conductor-earth surge according to IEC2 kV61000-4-51 kVfield-based interference according to IEC 61000-4-310 V/mInputs/ Outputs0number of outputs as contact-affected switching element0	reference code according to IEC 81346-2	F	
• according to ATEX directive 2014/34/EUBVS 06 ATEX F001 ITS21UKEX0464• according to UKCAITS21UKEX0464explosion device group and category according to ATEX directive 2014/34/EUII (2) G, II (2) D, I (M2)Electromagnetic compatibilityEMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1class A conducted interference• due to burst according to IEC 61000-4-42 kV• due to burst according to IEC 61000-4-42 kV• due to conductor-earth surge according to IEC 61000-4-51 kV• due to conductor-conductor surge according to IEC 61000-4-51 kV• field-based interference according to IEC 61000-4-30• number of outputs as contact-affected switching element0	Substance Prohibitance (Date)	05/28/2009	
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explosion device group and category according to ATEX directive 2014/34/EU II (2) G, II (2) D, I (M2) Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 corresponds to degree of severity 3 EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 corresponds to degree of severity 3 conducted interference 4 • 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 61000-4-3 1 kV field-based interference according to IEC 61000-4-3 10 V/m Inputs/ Outputs 0 Protective and monitoring functions 0	 according to ATEX directive 2014/34/EU 	BVS 06 ATEX F001	
directive 2014/34/EU Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 class A EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 conducted interference - • due to burst according to IEC 61000-4-4 2 kV • due to conductor-earth surge according to IEC 2 kV 61000-4-5 - • due to conductor-conductor surge according to IEC 1 kV 61000-4-5 10 V/m Inputs/ Outputs 0 number of outputs as contact-affected switching element 0 Protective and monitoring functions 0	-	ITS21UKEX0464	
EMC emitted interference according to IEC 60947-1 class A EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 conducted interference edue to burst according to IEC 61000-4-4 2 kV e due to conductor-earth surge according to IEC 2 kV 61000-4-5 edue to conductor-conductor surge according to IEC 1 kV 61000-4-5 1 kV 61000-4-5 10 V/m Inputs/ Outputs 0 Protective and monitoring functions 0		II (2) G, II (2) D, I (M2)	
EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 conducted interference e due to burst according to IEC 61000-4-4 2 kV e due to conductor-earth surge according to IEC 2 kV 61000-4-5 e due to conductor-conductor surge according to IEC e due to conductor-conductor surge according to IEC 1 kV field-based interference according to IEC 61000-4-3 10 V/m Inputs/ Outputs 0 Protective and monitoring functions 0	Electromagnetic compatibility		
conducted interference • due to burst according to IEC 61000-4-4 2 kV • due to conductor-earth surge according to IEC 2 kV 61000-4-5 1 kV • due to conductor-conductor surge according to IEC 1 kV 61000-4-5 10 V/m Inputs/ Outputs 0 Protective and monitoring functions 0	0	class A	
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC field-based interference according to IEC 61000-4-3 Inputs/ Outputs number of outputs as contact-affected switching element Protective and monitoring functions 		corresponds to degree of severity 3	
 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 1 kV 61000-4-5 field-based interference according to IEC 61000-4-3 10 V/m Inputs/ Outputs number of outputs as contact-affected switching element Protective and monitoring functions 			
61000-4-5 - Minor State Constrained and the second	-		
61000-4-5 field-based interference according to IEC 61000-4-3 10 V/m Inputs/ Outputs number of outputs as contact-affected switching element Protective and monitoring functions 0		2 kV	
Inputs/ Outputs number of outputs as contact-affected switching element Protective and monitoring functions		1 kV	
number of outputs as contact-affected switching element 0 Protective and monitoring functions 0	field-based interference according to IEC 61000-4-3	10 V/m	
element Protective and monitoring functions	Inputs/ Outputs	Inputs/ Outputs	
		0	
product function	Protective and monitoring functions		

power factor monitoring	No
ground-fault monitoring	No
voltage detection	No
trip class	CLASS 5E
product function	
 current detection 	Yes
overload protection	Yes
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	84 mm
width	45 mm
depth	45 mm
required spacing	
• top	30 mm
• bottom	30 mm
• left	0 mm
• right	0 mm
diameter of inlet opening	7.5 mm
diameter of inlet opening for current measurement	7.5 mm
Ambient conditions	
installation altitude at height above sea level	
• 1 maximum	2 000 m
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
• 3 maximum	4 000 m; max. +40 °C (no protective separation)
ambient temperature	···· , · · · · · · · · · · · · · · · ·
during operation	-25 +60 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
environmental category	
 during operation according to IEC 60721 	3K6 (no formation of ice, no condensation, relative humidity 10 95%),
	3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during storage according to IEC 60721 	1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist),
	1S2 (sand must not get into the devices), 1M4
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2
relative humidity during operation	5 95 %
Short-circuit protection	
product function short circuit protection	No
Galvanic isolation	
(electrically) protective separation according to IEC	All circuits with protective separation (double creepage paths and
60947-1	clearances), the information in the "Protective Separation" test report,
	No. A0258, must be observed (link see further information)
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	2.4 25 A
current-dependent overload release	
operating voltage	
• at AC	
— at 50 Hz rated value	110 690 V
— at 60 Hz rated value	110 690 V
operating frequency rated value	50 60 Hz
Control circuit/ Control	
type of voltage	AC
Certificates/ approvals	
General Product Approval	EMC
Confirmation	<u> </u>
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