## 6AG1010-1AU00-4AA0

**Data sheet** 



SIPLUS SIMOCODE pro V Basic unit 2 -25...+60°C with conformal coating based on 3UF7010-1AU00-0 . E- type with "Safety ""12 Mbit/s, RS485;""" "4I/3O freely parameterizable;" "US: 110-240V AC/DC; input for" "thermistor connection;" "monostable relay outputs;" expandable by extension modules

Figure similar

product brand name	SIPLUS
product designation	Motor management system
design of the product	basic unit 2
product type designation	SIMOCODE pro V
General technical data	Oliviocobe pro v
product function	Vee
bus communication	Yes
data acquisition function	Yes
diagnostics function	Yes
password protection	Yes
• test function	Yes
maintenance function	Yes
product component	
<ul> <li>input for thermistor connection</li> </ul>	Yes
digital input	Yes
<ul> <li>input for analog temperature sensors</li> </ul>	No
<ul> <li>input for ground fault detection</li> </ul>	No
relay output	Yes
product extension	
<ul> <li>temperature monitoring module</li> </ul>	Yes
<ul> <li>current measuring module</li> </ul>	Yes
<ul> <li>current/voltage measuring module</li> </ul>	Yes
<ul> <li>fail-safe digital I/O module</li> </ul>	Yes
<ul> <li>ground-fault monitoring module</li> </ul>	Yes
<ul> <li>control unit with display</li> </ul>	Yes
<ul> <li>control unit</li> </ul>	Yes
analog I/O module	Yes
insulation voltage with degree of pollution 3 at AC rated value	300 V
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance	
• acc. to IEC 60068-2-27	15g / 11 ms
vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g
switching capacity current of the NO contacts of the relay outputs at AC-15	
• at 24 V	6 A

• at 120 V • at 230 V switching capacity current of the NO contacts of the relay outputs at 0C-13 • at 24 V • at 80 V • at 125 V • a		
switching capacity current of the NO contacts of the relay outputs at DC-13  • at 24 V	• at 120 V	6 A
relay outputs at DC-19  • at 24 V  • at 60 V  • at 125 V  mechanical service life (switching cycles) typical electrical endurance (witching cycles) typical 10 000 000  butfering time in the event of power failure 0 2 s  reference code acc. to LEC 81346-2  continuous current of the NO contacts of the relay outputs • at 50 °C • at 60 °C • at 60 °C • at 60 °C  type of input characteristic Type 1 in accordance with EN 61131-2  Substance Prohibitance (Date) 0 1.05 2012 00:00:00  Electromagnetic compatibility  EMC emitted interference acc. to IEC 6047-1  EMC minutely acc. to IEC 00494-1  conducted interference • due to burst acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-3 electromagnetic discharge acc. to IEC 61000-4-2  conducted If Interference acc. to IEC 61000-4-3  electrostactic discharge acc. to IEC 61000-4-2  folid-based interference emission acc. to CISPR11  field-bound HF interference emission acc. to CISPR11  field-bound HF interference emission acc. to CISPR11  fiputs / Outputs  product function  • parameterizable inputs • for thermistor connection  • parameterizable inputs • for thermistor connection  • parameterizable outputs  • for thermistor connection  • parameterizable outputs  • for thermistor connection  • parameterizable inputs • for thermistor connection  • with conductor cross-section = 1.5 mm² maximum  • with condu	• at 230 V	3 A
* at 24 V		
at 18 DV at 125 V call 25 V mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical 100 000  buffering time in the event of power failure 0.2 s reference code acc. to IEC 81346-2 continuous current of the NO contacts of the relay outputs at 50 °C at 80 °C s at 80 °C yee of input characteristic Type of the Type of Input Characteristic Type of Type o	•	
electrical endurance (ewitching cycles) typical electrical endurance (ewitching cycles) typical 10 000 000 bufforing time in the ovent of power fallure reference code acc. to IEC 81345-2 continuous current of the NO contacts of the relay outputs 4 at 80 °C 4 at 80 °C 5 A Type 1 in accordance with EN 81131-2 Substance Prohibitance (Date)  Electromagnetic compatibility Electromagnetic compatibil		
mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical buffering time in the event of power failure 0.2 s reference code acc. to IEC 81246-2		
electrical endurance (switching cycles) typical  Duffering time in the event of power failure reference code acc. to IEC 81348-2  continuous current of the NO contacts of the relay outputs		
buffering time in the event of power failure reference code acc. to IEC 81346-2 continuous current of the NO contacts of the relay outputs  • at 50 °C 5 A  type of input characteristic Type 1 in accordance with EN 61131-2 Substance Prohibitance (Date) Dictromsprotic compatibility EMC emitted interference acc. to IEC 60947-1 conducted interference • due to burst acc. to IEC 60947-1 conducted interference • due to burst acc. to IEC 61000-4-5 • due to conductor-canductor surge acc. to IEC 61000-4-6 • due to high-frequency radiation acc. to IEC 61000- 4-6 field-based interference acc. to IEC 61000-4-2 conducted HF interference acc. to IEC 61000-4-3 eloctrostatic discharge acc. to IEC 61000-4-3 • due to high-frequency radiation acc. to ICS PR11 field-bound HF interference emissions acc. to ICSPR11		
reference code acc. to IEC 81346-2 continuous current of the NO contacts of the relay outputs a 15 0° C a 16 0° C b 2 16 0° C a 16 0° C b 2 16 0° C b		
continuous current of the NO contacts of the relay outputs  • at 50 °C  5 A  type of input characteristic  Substance Prohibitance (Date)  Electromagnetic compatibility  EMC emitted interference acc. to IEC 60947-1  conducted interference  • due to burst acc. to IEC 61000-4-5  • due to conductor-conductor surge acc. to IEC 61000-4-5  • due to burst acc. to IEC 61000-4-5  • due to burst acc. to IEC 61000-4-2  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-2  conducted Hinterference acc. to IEC 61000-4-2  field-based interference acc. to IEC 61000-4-2  conducted Hinterference emissions acc. to IESPR11  field-bound HF Interference emissions acc. to IESPR11  field-bound HF Interference emissions acc. to IEC 81000-4-2  or parameterizable inputs  product function  parameterizable outputs  number of inputs  of themistor connection  number of digital inputs with a common reference potential digital input veision type 1 acc. to IEC 61101  number of outputs  input voltage at digital input at DC rated value  vwith conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 0.5 mm² maximum  protective and monitoring functions  product function  passe reliable detection  passe reliable detection		
e at 50 °C		F
• at 60 °C  Type of input characteristic  Type 1 in accordance with EN 61131-2  Substance Prohibitance (Date)  Electromagnetic compatibility  EMC emitted interference acc. to IEC 60947-1  conducted interference  • due to burst acc. to IEC 60004-4  • due to conductor-conductor surge acc. to IEC 61000-4-5  • due to burst acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-2  • due to high-frequency radiation acc. to IEC 61000-4-2  • due to high-frequency radiation acc. to IEC 61000-4-2  • due to high-frequency radiation acc. to IEC 61000-4-3  • field-based interference acc. to IEC 61000-4-2  conducted HF interference emissions acc. to CISPR11  field-based interference emissions acc. to CISPR11  field-based interference emissions acc. to CISPR11  field-bound HF interference emission acc. to CISPR11  field-based interference emission acc. to CISPR11	,	
type of input characteristic  Substance Prohibitance (Date)  Electromagnetic compatibility  EMC emitted interference acc. to IEC 60947-1  EMC immunity acc. to IEC 60947-1  conducted interference  • due to burst acc. to IEC 61000-4-4  • due to conductor-conductor surge acc. to IEC 61000-4-5  • due to conductor-conductor surge acc. to IEC 61000-4-5  • due to be high-frequency radiation acc. to IEC 61000-4-5  foldo-4-5  • due to bigh-frequency radiation acc. to IEC 61000-4-3  foldo-4-6  field-based interference emissions acc. to IEC 61000-4-3  electrostatic discharge acc. to IEC 61000-4-3  foldo-4-6  field-based interference emissions acc. to CISPR11  field-bound HF interference emissions acc. to CISPR11  finputs/Outputs  product function  • parameterizable inputs  • for thermistor connection  number of digital inputs with a common reference potential  digital input version type 1 acc. to IEC 61131  yes  input voltage at digital input at DC rated value  with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section =		
Substance Prohibitance (Date)  Electromagnetic compatibility  EMC emitted interference acc. to IEC 60947-1 class A  EMC limited interference acc. to IEC 60947-1 conducted interference acc. to IEC 61000-4-5 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 due to ionductor-conductor surge acc. to IEC 61000-4-5 due to ionductor-conductor surge acc. to IEC 61000-4-6 due to high-frequency radiation acc. to IEC 61000-4-8 due to high-frequency radiation acc. to IEC 61000-4-8 del to ionductor-conductor surge acc. to IEC 61000-4-8 del to industriate discharge acc. to IEC 61000-4-2 del to high-frequency radiation acc. to IEC 61000-4-2 del to industriate discharge acc. to IEC 61000-4-2 del to IV/m  Inputs/Outputs  Inputs/Outputs  Inputs/Outputs acc. to IEC 61000-4-2 del to IV/m  Inputs/Outputs acc. to IEC 61000-4-2 del to IV/m  Inputs/Outputs acc. to IEC 61000-4-2 del to IV/m  Inputs/Outputs/Outputs acc. to IEC 61000-4-2 del to IV/m  Inputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs/Outputs		
Electromagnetic compatibility  EMC emitted interference acc. to IEC 60947-1  conducted interference  • due to burst acc. to IEC 61000-4-4  • due to conductor-conductor surge acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-6  field-based interference acc. to IEC 61000-4-3  electrostatic discharge acc. to IEC 61000-4-2  conducted HF interference emission acc. to CISPR11  field-bound HF interference emission acc. to CISPR11  fiputs/ Outputs  product function  • parameterizable inputs  • parameterizable outputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131  number of outputs  input voltage at digital input at DC rated value  number of outputs as contact-affected switching element  switching behavior  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with cond		- 21
EMC emitted interference acc. to IEC 60947-1  EMC immunity acc. to IEC 60947-1  conducted thereference  • due to burst acc. to IEC 61000-4-4  • due to conductor-earth surge acc. to IEC 61000-4-5  • due to conductor-onductor surge acc. to IEC 61000-4-5  • due to conductor-onductor surge acc. to IEC 61000-4-5  • due to bigh-frequency radiation acc. to IEC 61000-4-6  field-based interference acc. to IEC 61000-4-3  electrostatic discharge acc. to IEC 61000-4-3  electrostatic discharge acc. to IEC 61000-4-2  conducted HF interference emissions acc. to CISPR11  field-bound HF interference emission acc. to CISPR11  field-bound HF interference emission acc. to CISPR11  Inputs/ Outputs  product function  • parameterizable inputs  • parameterizable outputs  number of inputs  • for thermistor connection  number of digital input writh a common reference potential digital input version type 1 acc. to IEC 61011  number of outputs acc semiconductor outputs  number of outputs as emiconductor outputs  number of outputs as esemiconductor outputs  number of outputs as contact-affected switching element  with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • power factor monitoring  • pass a failure detection  • phase sequence recognition  • votage detection  • phase sequence recognition  • votage de		01.05.2012 00:00:00
conducted Interference  • due to burst acc. to IEC 61000-4-4 • due to conductor-conductor surge acc. to IEC 61000-4-5 • due to burst acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-5 • due to high-frequency radiation acc. to IEC 61000-4-6 • due to high-frequency radiation acc. to IEC 61000-4-8  field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 finguts/ Outputs  product function • parameterizable inputs • for thermistor connection • parameterizable outputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs as contact-affected switching element switching behavior wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section		
conducted interference  • due to burst acc. to IEC 61000-4-4  • due to conductor-earth surge acc. to IEC 61000-4-5  • due to conductor-conductor surge acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-5  • due to high-frequency radiation acc. to IEC 61000-4-2  • delectrostatic discharge acc. to IEC 61000-4-2  • delectrostatic discharge acc. to IEC 61000-4-2  conducted HF interference emissions acc. to CISPR11  Inputs/ Outputs  product function  • parameterizable inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131  input voltage at digital input at DC rated value  number of outputs  number of outputs  vire length for digital signals maximum  with conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  blocking current evaluation  asymmetry detection  asymmetry detection  blocking current evaluation  yes  ground fault detection  phase sequence recognition  yes  yes  has failure detection  phase sequence recognition  yes  yes		
due to burst acc. to IEC 61000-4-4     due to conductor-earth surge acc. to IEC 61000-4-5     due to conductor-conductor surge acc. to IEC 61000-4-5     due to high-frequency radiation acc. to IEC 61000-4-8     due to high-frequency radiation acc. to IEC 61000-4-3     fleld-based interference acc. to IEC 61000-4-3     delectrostatic discharge acc. to IEC 61000-4-2     conducted HF interference emissions acc. to CISPR11     fleld-bound HF interference emissions acc. to CISPR11     fleld-bound HF interference emission acc. to CISPR11     fleld-bound HF in		corresponds to degree of severity 3
• due to conductor-earth surge acc. to IEC 61000-4-5     • due to conductor-conductor surge acc. to IEC 61000-4-5     • due to high-frequency radiation acc. to IEC 61000-4-8     • due to high-frequency radiation acc. to IEC 61000-4-3     • electrostatic discharge acc. to IEC 61000-4-3     • electrostatic discharge acc. to IEC 61000-4-3     • fleid-based interference emissions acc. to CISPR11     fleid-bound HF interference emissions acc. to CISPR11     fleid-bound HF interference emission acc. to CISPR11     fleid-bound HF interference emission acc. to CISPR11     imputs/ Outputs     product function     • parameterizable inputs     • parameterizable outputs     ves     • parameterizable outputs     ves     inumber of inputs     • for themistor connection     number of digital input swith a common reference potential     digital input version type 1 acc. to IEC 61131     input voltage at digital input at DC rated value     number of outputs     unumber of outputs     unumber of outputs accontact-affected switching     element     switching behavior     with conductor cross-section = 0.5 mm² maximum     • power factor monitoring     • power factor monitoring     • ground fault detection     • phase failure detection     • phase		
due to conductor-conductor surge acc. to IEC 61000-4-5		
e due to high-frequency radiation acc. to IEC 61000-4-6 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 inputs/ Outputs product function  • parameterizable inputs • parameterizable inputs • for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 riput voltage at digital input at DC rated value number of outputs number of outputs a contact-affected switching element switching behavior wire length for digital signals maximum e with conductor cross-section = 0.5 mm² maximum e with conductor cross-section = 0.5 mm² maximum e with conductor cross-section = 2.5 mm² maximum e with conductor		
due to high-frequency radiation acc. to IEC 61000-4-6 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 corresponds to degree of severity A corresponds to degree of severity		1 kV
field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 inputs/ Outputs  product function		10.1/
field-based interference acc. to IEC 61000-4-3   10 V/m		10 V
electrostatic discharge acc. to IEC 61000-4-2 conducted HF interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 pruts/ Outputs  product function		10 V/m
conducted HF Interference emissions acc. to CISPR11 field-bound HF interference emission acc. to CISPR11 finputs/ Outputs  product function		
field-bound HF interference emission acc. to CISPR11  Inputs/ Outputs  product function  • parameterizable inputs  • parameterizable outputs  • for thermistor connection  • umber of inputs  • for thermistor connection  • with conductor output at DC rated value  • for thermistor connection  • with conductor outputs  • for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section		
Inputs/ Outputs  product function  • parameterizable inputs  • parameterizable outputs  number of inputs  • for thermistor connection  number of digital inputs with a common reference potential  digital input version type 1 acc. to IEC 61131  riput voltage at digital input at DC rated value  number of outputs  number of outputs  number of outputs as contact-affected switching element  switching behavior  wire length for digital signals maximum  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximu		,
product function		corresponds to degree of severity A
parameterizable inputs parameterizable outputs parameterizable outputs  parameterizable outputs  parameterizable outputs  parameterizable outputs  for thermistor connection  number of digital inputs with a common reference potential  digital input version type 1 acc. to IEC 61131 yes input voltage at digital input at DC rated value number of outputs number of outputs  number of outputs as contact-affected switching element switching behavior wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum product function  asymmetry detection asymmetry detection power factor monitoring yes ground fault detection phase failure detection yes voltage detection yes voltage detection yes voltage detection Yes voltage detection Yes	field-bound HF interference emission acc. to CISPR11	corresponds to degree of severity A
parameterizable outputs     number of inputs	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs	corresponds to degree of severity A
number of inputs  • for thermistor connection 1 number of digital inputs with a common reference potential 4 digital input version type 1 acc. to IEC 61131 Yes input voltage at digital input at DC rated value 24 V number of outputs 3 number of semiconductor outputs 0 number of outputs as contact-affected switching element switching behavior wire length for digital signals maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  protective and monitoring functions  product function  asymmetry detection • asymmetry detection • phase failure detection • phase failure detection • phase sequence recognition • voltage detection • voltage detection • ves	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	
• for thermistor connection     number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 riput voltage at digital input at DC rated value 24 V number of outputs 3 number of semiconductor outputs 0 number of outputs as contact-affected switching element switching behavior wire length for digital signals maximum wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum      • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum      • with conductor cross-section = 2.5 mm² maximum      • with conductor cross-section = 2.5 mm² maximum      • with conductor cross-section = 2.5 mm² maximum      • with conductor cross-section = 2.5 mm² maximum      • protective and monitoring functions  Protective and monitoring functions  product function • asymmetry detection • power factor monitoring      • power factor	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function • parameterizable inputs	Yes
number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 riput voltage at digital input at DC rated value number of outputs number of outputs number of outputs as contact-affected switching element switching behavior wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum but conductor cross-section = 2.5 mm² maximum conductor tross-section = 2.5 mm² maximum reference product function product function  Protective and monitoring functions  Product function power factor monitoring product function power factor monitoring product function power factor monitoring product detection phase failure detection phase sequence recognition phase sequence recognition pounts digital signals maximum yes power factor monitoring yes phase sequence recognition yes voltage detection Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes
digital input version type 1 acc. to IEC 61131  input voltage at digital input at DC rated value  number of outputs  number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  wire length for digital signals maximum  wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 1.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  but conductor cross-section = 2.5 mm² maximum  cut the conductor cross-section = 2.5 mm² maximum  protective and monitoring functions  product function  asymmetry detection  blocking current evaluation  power factor monitoring  yes  ground fault detection  phase failure detection  phase sequence recognition  ves  voltage detection  Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs product function	Yes Yes 4
input voltage at digital input at DC rated value  number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  wire length for digital signals maximum  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • blocking current evaluation  • asymmetry detection  • blocking current evaluation  • power factor monitoring  • ground fault detection  • phase failure detection  • phase sequence recognition  • voltage detection  • ves	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function  • parameterizable inputs  • parameterizable outputs  number of inputs  • for thermistor connection	Yes Yes 4
number of outputs number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  wire length for digital signals maximum  wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 1.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  be with conductor cross-section = 2.5 mm² maximum  sum to maximum  be of the maximum  yes  blocking current evaluation  prover factor monitoring  yes  pround fault detection  phase failure detection  phase sequence recognition  ves  voltage detection  Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function  • parameterizable inputs  • parameterizable outputs  number of inputs  • for thermistor connection  number of digital inputs with a common reference potential	Yes Yes 4 1
number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  monostable  wire length for digital signals maximum  wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 1.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  but conductor cross-section = 2.5 mm² maximum  results for thermistor connection  with conductor cross-section = 2.5 mm² maximum  the conductor cro	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function  • parameterizable inputs  • parameterizable outputs  number of inputs  • for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131	Yes Yes 4 1 4 Yes
number of outputs as contact-affected switching element  switching behavior monostable  wire length for digital signals maximum 300 m  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum 50 m  • with conductor cross-section = 1.5 mm² maximum 150 m  • with conductor cross-section = 2.5 mm² maximum 250 m  Protective and monitoring functions  product function  • asymmetry detection Yes  • blocking current evaluation Yes  • power factor monitoring Yes  • ground fault detection Yes  • phase failure detection Yes  • phase sequence recognition Yes  • voltage detection Yes  • voltage detection Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V
element  switching behavior  wire length for digital signals maximum  wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 1.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  protective and monitoring functions  product function  asymmetry detection  blocking current evaluation  yes  power factor monitoring  yes  ground fault detection  phase failure detection  phase sequence recognition  ves  voltage detection  Yes  voltage detection  Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3
wire length for digital signals maximum 300 m   wire length for thermistor connection 50 m   • with conductor cross-section = 0.5 mm² maximum 50 m   • with conductor cross-section = 1.5 mm² maximum 150 m   • with conductor cross-section = 2.5 mm² maximum 250 m   Protective and monitoring functions   product function Yes   • asymmetry detection Yes   • blocking current evaluation Yes   • power factor monitoring Yes   • ground fault detection Yes   • phase failure detection Yes   • phase sequence recognition Yes   • voltage detection Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  250 m  Protective and monitoring functions  product function  • asymmetry detection • blocking current evaluation • power factor monitoring • ground fault detection • phase failure detection • phase sequence recognition • voltage detection  • voltage detection • Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>250 m</li> </ul> Protective and monitoring functions <ul> <li>product function</li> <li>asymmetry detection</li> <li>blocking current evaluation</li> <li>power factor monitoring</li> <li>ground fault detection</li> <li>phase failure detection</li> <li>phase sequence recognition</li> <li>ves</li> <li>voltage detection</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>Protective and monitoring functions</li> <li>product function</li> <li>asymmetry detection</li> <li>blocking current evaluation</li> <li>power factor monitoring</li> <li>ground fault detection</li> <li>phase failure detection</li> <li>phase sequence recognition</li> <li>ves</li> <li>voltage detection</li> <li>yes</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>Protective and monitoring functions</li> <li>product function <ul> <li>asymmetry detection</li> <li>blocking current evaluation</li> <li>power factor monitoring</li> <li>ground fault detection</li> <li>phase failure detection</li> <li>phase sequence recognition</li> <li>voltage detection</li> </ul> </li> <li>with conductor maximum</li> <li>Yes</li> <li>yes</li> <li>yes</li> <li>yes</li> <li>voltage detection</li> <li>Yes</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable
Protective and monitoring functions  product function  asymmetry detection blocking current evaluation power factor monitoring ground fault detection phase failure detection phase sequence recognition voltage detection  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m
product function	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m
<ul> <li>asymmetry detection</li> <li>blocking current evaluation</li> <li>power factor monitoring</li> <li>ground fault detection</li> <li>phase failure detection</li> <li>phase sequence recognition</li> <li>voltage detection</li> </ul> Yes Yes Yes Yes Yes Yes Yes Yes Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m
<ul> <li>blocking current evaluation</li> <li>power factor monitoring</li> <li>ground fault detection</li> <li>phase failure detection</li> <li>phase sequence recognition</li> <li>voltage detection</li> <li>Yes</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m
<ul> <li>power factor monitoring</li> <li>ground fault detection</li> <li>phase failure detection</li> <li>phase sequence recognition</li> <li>voltage detection</li> <li>Yes</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m
<ul> <li>ground fault detection</li> <li>phase failure detection</li> <li>phase sequence recognition</li> <li>voltage detection</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m 250 m
<ul> <li>phase failure detection</li> <li>phase sequence recognition</li> <li>voltage detection</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes  4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m 250 m
<ul> <li>phase sequence recognition</li> <li>voltage detection</li> <li>Yes</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes  4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m 250 m
• voltage detection Yes	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m 250 m  Yes Yes Yes
	field-bound HF interference emission acc. to CISPR11  Inputs/ Outputs  product function  parameterizable inputs product function parameterizable outputs  number of inputs  for thermistor connection number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131 input voltage at digital input at DC rated value number of outputs number of semiconductor outputs number of outputs as contact-affected switching element switching behavior wire length for digital signals maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum protective and monitoring functions  product function asymmetry detection blocking current evaluation power factor monitoring ground fault detection	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m 50 m 150 m 250 m  Yes Yes Yes Yes Yes
	field-bound HF interference emission acc. to CISPR11  Inputs/ Outputs  product function  parameterizable inputs  product function  parameterizable outputs  number of inputs  for thermistor connection  number of digital inputs with a common reference potential digital input version type 1 acc. to IEC 61131  input voltage at digital input at DC rated value  number of outputs  number of semiconductor outputs  number of outputs as contact-affected switching element  switching behavior  wire length for digital signals maximum  wire length for thermistor connection  with conductor cross-section = 0.5 mm² maximum  with conductor cross-section = 1.5 mm² maximum  with conductor cross-section = 2.5 mm² maximum  Protective and monitoring functions  product function  asymmetry detection  blocking current evaluation  power factor monitoring  ground fault detection  phase failure detection	Yes Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m 250 m  Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>monitoring of number of start operations</li> <li>Yes</li> </ul>	field-bound HF interference emission acc. to CISPR11 Inputs/ Outputs  product function	Yes Yes 4 1 4 Yes 24 V 3 0 3 monostable 300 m  50 m 150 m 250 m  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

overvoltage detection	Yes
<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undervoltage detection</li> </ul>	Yes
<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
active power monitoring	Yes
product function	
current detection	Yes
<ul> <li>overload protection</li> </ul>	Yes
evaluation of thermistor motor protection	Yes
response value of thermoresistor	3 400 3 800 Ω
release value of thermoresistor	1 500 1 650 Ω
Motor control functions	
product function	
<ul> <li>parameterizable overload relay</li> </ul>	Yes
<ul> <li>circuit breaker control</li> </ul>	Yes
direct start	Yes
reverse starting	Yes
star-delta circuit	Yes
star-delta reversing circuit	Yes
Dahlander circuit	Yes
Dahlander reversing circuit	Yes
pole-changing switch circuit	Yes
pole-changing switch reversing circuit	Yes
slide control	Yes
valve control	Yes
Communication/ Protocol	
	Yes
protocol is supported PROFIBUS DP protocol     protocol is supported PROFIBET IO protocol	No
protocol is supported PROFINET IO protocol     protocol is supported PROFINET in protocol	
protocol is supported PROFIsafe protocol     protocol is supported Madhus PTI.	Yes
protocol is supported Modbus RTU     protocol is supported EtherNet/IP.	No No
protocol is supported EtherNet/IP	No
protocol is supported OPC UA Server	No
protocol is supported LLDP	No
<ul> <li>protocol is supported Address Resolution Protocol (ARP)</li> </ul>	No
protocol is supported SNMP	No
protocol is supported HTTPS	No
protocol is supported NTP	No
protocol is supported Media Redundancy Protocol	No
(MRP)	
<ul> <li>product function is supported Device Level Ring (DLR)</li> </ul>	No
number of interfaces	
acc. to PROFIBUS	1
product function	
web server	No
shared device	No
at the Ethernet interface Autocrossover	No
at the Ethernet interface Autonegotiation	No
at the Ethernet interface Autosensing	No
is supported PROFINET system redundancy	No
supports PROFlenergy measured values	No
<ul> <li>supports PROFlenergy shutdown</li> </ul>	No
transfer rate maximum	12 Mbit/s
identification & maintenance function	
I&M0 - device-specific information	Yes
I&M1 – higher level designation/location designation	Yes
I&M2 - installation date	Yes
I&M3 - comment	Yes
→ Idivio - Comment	100

type of electrical connection of the communication	9-pin SUB-D socket (12 Mbit) / screw terminal (1.5 Mbit)
interface	5-pin 30B-D socket (12 Mbit) / Sciew terminal (1.5 Mbit)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	111 mm
width	45 mm
depth	124 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables solid	1x (20 12), 2x (20 14)
at AWG cables stranded	1x (20 14), 2x (20 16)
tightening torque with screw-type terminals	0.8 1.2 N·m
tightening torque [lbf·in] with screw-type terminals	7 10.3 lbf·in
type of connectable conductor cross-sections for	2x 0.34 mm², AWG 22
PROFIBUS wire	
Ambient conditions	
installation altitude at height above sea level	
• 1 maximum	2 000 m
• 2 maximum	3 000 m
• 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
relative humidity	
with condensation maximum	100 %; RH incl. condensation/frost (no commissioning in bedewed state)
ambient condition relating to ambient temperature - air pressure - installation altitude	-25 +60°C at 1080 hPa 795 hPa (-1000 m +2000 m) // -25 +50°C at 795 hPa 658 hPa (+2000 m +3500 m) // -25 +40°C at 658 hPa 540 hPa (+3500 m +5000 m)
resistance to mechanically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3S4 incl. sand, dust; the supplied plug covers must remain in place on the unused interfaces during operation.
resistance to chemically active substances conformity	Yes; Compliant with EN 60721-3-3, Class 3B2 mold and fungal spores
acc. to EN 60721-3-3	(except fauna); the supplied plug covers must remain in place on the unused interfaces during operation.
resistance to biologically active substances conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3C4 incl. salt spray in accordance with EN 60068-2-52 (severity 3); the supplied plug covers must remain in place on the unused interfaces during operation.
resistance to salt-laden atmosphere conformity acc. to EN 60068-2-52	Yes; Severity 3
contact rating of auxiliary contacts according to UL	B300 / R300
Short-circuit protection	
design of short-circuit protection per output	Fuse links: gG 6 A, quick-response 10 A (IEC 60947-5-1), miniature circuit-breaker C char.: 1.6 A (IEC 60947-5-1) or 6 A (I_K < 500 A)
Safety related data	
touch protection against electrical shock	finger-safe
Main circuit	
operating voltage	
• at AC	
— at 50 Hz rated value	110 240 V
— at 60 Hz rated value	110 240 V
at DC rated value	110 240 V
	110 240 V
Control circuit/ Control	V
product function soft starter control	Yes
type of voltage of the control supply voltage	AC/DC

control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	110 240 V
at 60 Hz rated value	110 240 V
control supply voltage frequency	
1 rated value	50 Hz
2 rated value	60 Hz
control supply voltage at DC	
rated value	110 240 V
control supply voltage 1 at DC rated value	240 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.85
• full-scale value	1.1
Certificates/ approvals	

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=6AG1010-1AU00-4AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=6AG1010-1AU00-4AA0

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

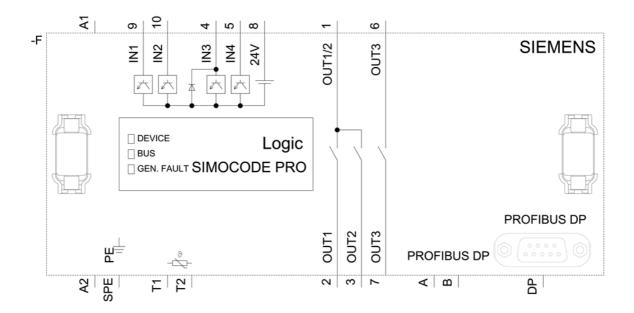
https://support.industry.siemens.com/cs/ww/en/ps/6AG1010-1AU00-4AA0

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=6AG1010-1AU00-4AA0&lang=en

Test report No. A0258, protective separation

https://support.industry.siemens.com/cs/ww/en/view/109748152



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