## **SIEMENS**

## Data sheet 6ES7144-6JF00-0BB0



SIMATIC ET 200eco PN, AI 8xRTD/TC, M12-L, 8x M12, 16-bit resolution, channel diagnostics for wire break at input, shared device with 2 controllers, prioritized startup, MSI, MRP, S2 redundancy, I&M0...3, multi-fieldbus, PN IO, Ethernet IP, Modbus TCP, degree of protection IP67 / IP69K

HW functional status FS01  Firmware version V5.1.x  • FW update possible Yes  Vendor identification (VendorID) 002AH  Device identifier (DeviceID) 0306H  Manufacturer ID according to ODVA (VendorID) 04E3H  Device ID according to ODVA (Product code) 0FAAH  Product function  • I&M data Yes: I&M0 to I&M3  • Isochronous mode No  • Prioritized startup Yes  • Measuring range scalable Yes  Engineering with  • STEP 7 TIA Portal configurable/integrated from version  • PROFINET from GSD version/GSD revision  • PROFINET from GSD version/GSD revision  • Null Fieldbus Configurable integrated from version  • ROFINET from GSD version/GSD revision  • NISI Yes  CIR - Configuration in RIN  Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required  Load voltage 1L+  • Rated value (DC)  • permissible range, upper limit (DC)  • Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 2L+, max.  Power loss  Power loss, Iyp.  • Address space  Address space per module  • Inputs  • Number of configurable submodules, max.  2	General information	
Vendor identification (VendorID)  Vendor identification (VendorID)  Device identific (DeviceID)  Manufacturer ID according to ODVA (VendorID)  Device ID according to ODVA (Product code)  Product function  IMM data Sischronous mode Prioritized startup Pender sta	HW functional status	FS01
Vendor identification (VendorID)  Device identifier (DeviceID)  Device identifier (DeviceID)  Device ID according to ODVA (VendorID)  Device ID according to ODVA (Product code)  Product function  I & M data I sochronous mode I isochronous mode Prioritized startup Yes I engineering with  I engineering with with HSP 0369 I engineering with Was a street with HSP 0369 I eng	Firmware version	V5.1.x
Device identifier (DeviceID)  Manufacturer ID according to ODVA (VendorID)  Device ID according to ODVA (Product code)  Product function  • I&M data • Isochronous mode • Prioritized startup • Measuring range scalable  Engineering with • STEP 7 TIA Portal configurable/integrated from version • PROFINET from GSD version/GSD revision • PROFINET from GSD version/GSD revision • Multi Fieldbus Configuration Tool (MFCT)  Operating mode • MSI  CIR - Configuration in RUN  Culibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required Load voltage 1L+ • Rated value (DC) • permissible range, lower limit (DC) • Reverse polarity protection  - Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  Power loss  Power loss, typ.  Address space per module • Inputs • I	FW update possible	Yes
Manufacturer ID according to ODVA (VendorID)  Device ID according to ODVA (Product code)  Product function  • I&M data  • Isochronous mode  • Prioritized startup  • Mesauring range scalable  Engineering with  • STEP 7 TIA Potral configurable/integrated from version  • PROFINET from GSD version/GSD revision  • Multi Fieldbus Configuration Tool (MFCT)  Operating mode  • MSI  CIR - Configuration in RUN  Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required  Load voltage 11+  • Rated value (DC)  • permissible range, lower limit (DC)  • permissible range, upper limit (DC)  • Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 11+, max.  Power loss  Power loss  Power loss  Power loss, typ.  6.3 W  Address area  Address space per module  • Inputs  Isochromation (SAM3)  No  O4E3H  OFAAH  Yes; I&M0 to I&M3  STEP 7 V17 or higher with HSP 0369  S	Vendor identification (VendorID)	002AH
Device ID according to ODVA (Product code) Product function  • I&M data • Isochronous mode • Prioritized startup • Measuring range scalable Engineering with • STEP 7 TIA Portal configurable/integrated from version • PROFINET from CSD version/CSD revision • Multi Fleidbus Configuration Tool (MFCT)  Operating mode • MSI GIR - Configuration in RUN  Calibration possible in RUN  Supply voltage power supply according to NEC Class 2 required Load voltage 11.+ • Rated value (DC) • permissible range, lower limit (DC) • permissible range, upper limit (DC) • Reverse polarity protection  Power tourph protection  Power loss  Form V1.3 SPA  No  Lad voltage 11.+ • Rated value (DC) • Permissible range, upper limit (DC) • Reverse polarity protection  Pyes; against destruction  Input current  Current consumption (rated value)  from load voltage 21.+, max.  Power loss  Power loss, typ.  Address space per module • Inputs  Industrian  In StMO to I&M3  Yes  STEP 7 V17 or higher with HSP 0369  GSDML V2.4.x  from V1.3 SP1  Ves  GISP 7 V17 or higher with HSP 0369  STEP 7 V17 or high	Device identifier (DeviceID)	0306H
Product function  • 18M data • Isochronous mode • Prioritized startup • Measuring range scalable Ergineering with • STEP 7 TIA Portal configurable/integrated from version • PROFINET from GSD version/GSD revision • PROFINET from GSD version/GSD revision • Multi Fieldbus Configuration Tool (MFCT)  Operating mode • MSI CIR - Configuration in RUN Calibration possible in RUN Supply voltage  power supply according to NEC Class 2 required No Load voltage 1L+ • Rated value (DC) • permissible range, upper limit (DC) • permissible range, upper limit (DC) • Reverse polarity protection  Input current Current consumption (rated value)  from load voltage 2L+, max.  Power loss Power loss Power loss Power loss, typ.  6.3 W  Address area  Address sarea  Address space per module • Inputs  Individed information  Hardware configuration Submodules	Manufacturer ID according to ODVA (VendorID)	04E3H
IskM data Iscorronous mode Iscorronous mode Prioritized startup Measuring range scalable Pres Engineering with  Ist P 7 TIA Portal configurable/integrated from version PROFINET from GSD version/GSD revision Multi Fieldbus Configuration Tool (MFCT)  Operating mode  MSI Pes  CIR - Configuration in RUN  Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required Load voltage 1L+ Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Permitsible range, upper limit (DC) Permissible range, upper limit (DC) Permitsible range, lower limit (DC) Permitsible range, lower limit (DC) Permissible range, lower limit (D	Device ID according to ODVA (Product code)	0FAAH
Isochronous mode Prioritized startup Measuring range scalable Engineering with STEP 7 TIA Portal configurable/integrated from version PROFINET from GSD version/GSD revision Multi Fieldbus Configuration Tool (MFCT)  Operating mode MSI  Cit-Configuration in RUN Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required  Load voltage 1L+ Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Permissible range, upper limit (DC) Reverse polarity protection  Series Maximum value  from load voltage 1L+ (unswitched voltage) from load voltage 2L+, max.  Power loss Power loss, typ. Address area  Address sace Address space per module Inputs  In Measure Age As	Product function	
Prioritized startup  Measuring range scalable  Engineering with  STEP 7 TIA Portal configurable/integrated from version  PROFINET from GSD version/GSD revision  Multi Fieldbus Configuration Tool (MFCT)  Operating mode  MSI  Cill- Configuration in RUN  Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required  No  Load voltage 11.+  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 21.+ (unswitched voltage)  From V1.3 SP1  Over loss  Power loss, typ.  Address sarea  Address space  Inputs  Hardware configuration  Submodules	• I&M data	Yes; I&M0 to I&M3
Measuring range scalable  Engineering with  STEP 7 TIA Portal configurable/integrated from version PROFINET from GSD version/GSD revision Multi Fieldbus Configuration Tool (MFCT)  Operating mode  MSI  MSI  CIR - Configuration in RUN  Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required Load voltage 1L+  Rated value (DC) permissible range, upper limit (DC) Permissible range, upper limit (DC) Reverse polarity protection  Input current  Current consumption (rated value) from load voltage 2L+, max.  Power loss  Power loss, typ.  Address area  Address space per module  Inputs  Inp	<ul> <li>Isochronous mode</li> </ul>	No
Engineering with  STEP 7 TIA Portal configurable/integrated from version PROFINET from GSD version/GSD revision Multi Fieldbus Configuration Tool (MFCT) GesDML V2.4.x from V1.3 SP1  Operating mode  MSI Yes  CIR - Configuration in RUN  Calibration possible in RUN Supply voltage power supply according to NEC Class 2 required No Load voltage 1L+ Rated value (DC) Permissible range, lower limit (DC) Permissible range, lower limit (DC) Reverse polarity protection  Input current  Current consumption (rated value) From load voltage 1L+ (unswitched voltage) From load voltage 2L+, max.  Power loss Power loss, typ.  Address area  Address pace per module Inputs  Limit (DC) Liputs Lipu	<ul> <li>Prioritized startup</li> </ul>	Yes
STEP 7 TIA Portal configurable/integrated from version PROFINET from GSD version/GSD revision Multi Fieldbus Configuration Tool (MFCT) Gerating mode  MSI Yes  CIR - Configuration in RUN  Calibration possible in RUN  Supply voltage power supply according to NEC Class 2 required No  Load voltage 1L+ Rated value (DC) permissible range, lower limit (DC) Reverse polarity protection  Input current  Current consumption (rated value) from load voltage 2L+, max.  Power loss Power loss, typ.  Address space per module Inputs I by text of the Mark of	Measuring range scalable	Yes
PROFINET from GSD version/GSD revision Multi Fieldbus Configuration Tool (MFCT)  Operating mode  MSI Yes  CIR - Configuration in RUN  Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required Load voltage 1L+  Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection  Input current  Current consumption (rated value) from load voltage 2L+, max.  Power loss Power loss, typ.  Address area  Address space per module  Inputs	Engineering with	
Multi Fieldbus Configuration Tool (MFCT)  Operating mode     MSI     Yes  CiR - Configuration in RUN  Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required  Load voltage 1L+  Rated value (DC)     permissible range, lower limit (DC)     permissible range, upper limit (DC)     Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 2L+, max.  Power loss  Power loss, typ.  6.3 W  Address space per module  Inputs  Inpu	<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	STEP 7 V17 or higher with HSP 0369
Operating mode  • MSI  CIR - Configuration in RUN  Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required  • Rated value (DC) • Parmissible range, lower limit (DC) • permissible range, upper limit (DC) • Permissible range, upper limit (DC) • Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  12 A; Maximum value  Power loss  Power loss, typ.  6.3 W  Address space per module • Inputs  16 byte; + 1 byte for Ql information  Submodules	<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	GSDML V2.4.x
MSI Yes  CIR - Configuration in RUN  Calibration possible in RUN Yes  Supply voltage  power supply according to NEC Class 2 required No Load voltage 1L+      Rated value (DC) 24 V     permissible range, lower limit (DC) 20.4 V     permissible range, upper limit (DC) 28.8 V     Reverse polarity protection Yes; against destruction  Input current  Current consumption (rated value) 85 mA; without load from load voltage 1L+ (unswitched voltage) 12 A; Maximum value  from load voltage 2L+, max. 12 A; Maximum value  Power loss  Power loss, typ. 6.3 W  Address space per module     Inputs 16 byte; + 1 byte for QI information  Hardware configuration  Submodules	Multi Fieldbus Configuration Tool (MFCT)	from V1.3 SP1
Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required  No  Load voltage 1L+  • Rated value (DC) • permissible range, lower limit (DC) • permissible range, upper limit (DC) • Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  Power loss  Power loss  Power loss, typ.  Address space per module • Inputs  Input	Operating mode	
Calibration possible in RUN  Supply voltage  power supply according to NEC Class 2 required  Load voltage 1L+  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  Power loss  Power loss, typ.  Address area  Address space per module  Inputs  16 byte; + 1 byte for QI information  Submodules	• MSI	Yes
Supply voltage  power supply according to NEC Class 2 required  Load voltage 1L+  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  Power loss  Power loss, typ.  Address space per module  Inputs	CiR - Configuration in RUN	
power supply according to NEC Class 2 required  Load voltage 1L+  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  Power loss  Power loss, typ.  Address area  Address space per module  Inputs  Inputs  Av  Av  24 V  24 V  28.8 V  29.4 V	Calibration possible in RUN	Yes
Load voltage 1L+  Rated value (DC)  permissible range, lower limit (DC)  permissible range, upper limit (DC)  Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  Power loss  Power loss  Power loss, typ.  Address area  Address space per module  Inputs  Address by type for QI information  Address space per module  Inputs  Address by type for QI information  By type for QI information  Bubmodules	Supply voltage	
Rated value (DC)     permissible range, lower limit (DC)     permissible range, upper limit (DC)     Pewerse polarity protection     Reverse polarity protection  Input current  Current consumption (rated value)     from load voltage 1L+ (unswitched voltage)     from load voltage 2L+, max.  Power loss  Power loss, typ.  Address area  Address space per module     Inputs     Inpu	power supply according to NEC Class 2 required	No
<ul> <li>permissible range, lower limit (DC)</li> <li>permissible range, upper limit (DC)</li> <li>Reverse polarity protection</li> <li>Yes; against destruction</li> </ul> Input current Current consumption (rated value) <ul> <li>from load voltage 1L+ (unswitched voltage)</li> <li>from load voltage 2L+, max.</li> </ul> Power loss Power loss, typ. <ul> <li>6.3 W</li> </ul> Address area Address space per module <ul> <li>Inputs</li> <li>lo byte; + 1 byte for QI information</li> </ul> Hardware configuration Submodules	Load voltage 1L+	
◆ permissible range, upper limit (DC)     ◆ Reverse polarity protection  Input current  Current consumption (rated value) from load voltage 1L+ (unswitched voltage) from load voltage 2L+, max.  Power loss  Power loss, typ.  Address area  Address space per module     ◆ Inputs  Inputs  12 8.8 V  Yes; against destruction  85 mA; without load  12 A; Maximum value  12 A; Maximum value  6.3 W  Address area  Address space per module  • Inputs  16 byte; + 1 byte for QI information  Hardware configuration  Submodules	Rated value (DC)	24 V
● Reverse polarity protection  Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  Power loss  Power loss, typ.  Address area  Address space per module  ● Inputs  Inputs  Yes; against destruction  85 mA; without load  12 A; Maximum value  12 A; Maximum value  6.3 W  Address area  Address open module  • Inputs  16 byte; + 1 byte for QI information  Hardware configuration  Submodules	<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
Input current  Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  12 A; Maximum value  Power loss  Power loss, typ.  6.3 W  Address area  Address space per module  Inputs  Inputs  Inputs  Information  Information  Information	<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
Current consumption (rated value)  from load voltage 1L+ (unswitched voltage)  from load voltage 2L+, max.  12 A; Maximum value  Power loss  Power loss, typ.  6.3 W  Address area  Address space per module  Inputs  Inputs  Inputs  Information  Information  Information  Address space per module  Submodules	<ul> <li>Reverse polarity protection</li> </ul>	Yes; against destruction
from load voltage 1L+ (unswitched voltage) from load voltage 2L+, max.  12 A; Maximum value  Power loss  Power loss, typ.  Address area  Address space per module  Inputs  Inputs  Inputs  In byte; + 1 byte for QI information  Hardware configuration  Submodules	Input current	
from load voltage 2L+, max.  Power loss  Power loss, typ.  6.3 W  Address area  Address space per module  Inputs  Inputs  Inputs  Information  Hardware configuration  Submodules	Current consumption (rated value)	85 mA; without load
Power loss Power loss, typ. 6.3 W  Address area  Address space per module  Inputs 16 byte; + 1 byte for QI information  Hardware configuration  Submodules	from load voltage 1L+ (unswitched voltage)	12 A; Maximum value
Power loss, typ.  Address area  Address space per module  Inputs  Inputs  Inputs  Information  Hardware configuration  Submodules	from load voltage 2L+, max.	12 A; Maximum value
Address area  Address space per module  Inputs  Inputs  Information  Hardware configuration  Submodules	Power loss	
Address space per module  • Inputs  16 byte; + 1 byte for QI information  Hardware configuration  Submodules	Power loss, typ.	6.3 W
● Inputs 16 byte; + 1 byte for QI information  Hardware configuration  Submodules	Address area	
Hardware configuration Submodules	Address space per module	
Submodules	• Inputs	16 byte; + 1 byte for QI information
Submodules	Hardware configuration	
Number of configurable submodules, max.     2		
	Number of configurable submodules, max.	2

Analog inputs	
Number of analog inputs	8
For voltage measurement	8
For resistance/resistance thermometer measurement	8
For thermocouple measurement	8
permissible input voltage for voltage input (destruction limit), max.	24 V
Constant measurement current for resistance-type transmitter, typ.	0.7 mA
Cycle time (all channels), min.	Sum of the basic conversion times and additional processing times (depending on the parameterization of the active channels); for line compensation in case of a three-wire connection, an additional cycle is necessary
Technical unit for temperature measurement adjustable	Yes; Degrees Celsius / degrees Fahrenheit / Kelvin
Input ranges (rated values), voltages	
• -80 mV to +80 mV	Yes; 16 bit incl. sign
— Input resistance (-80 mV to +80 mV)	10 ΜΩ
Input ranges (rated values), thermocouples	
• Type B	Yes; 16 bit incl. sign
— Input resistance (Type B)	10 ΜΩ
• Type C	Yes; 16 bit incl. sign
— Input resistance (Type C)	10 ΜΩ
• Type E	Yes; 16 bit incl. sign
— Input resistance (Type E)	10 MΩ
• Type J	Yes; 16 bit incl. sign
Input resistance (type J)	10 MΩ
• Type K	Yes; 16 bit incl. sign
- Input resistance (Type K)	10 MΩ
• Type L	Yes; 16 bit incl. sign
	10 MΩ
<ul><li>— Input resistance (Type L)</li><li>◆ Type N</li></ul>	Yes; 16 bit incl. sign
•	
— Input resistance (Type N)	10 MΩ
• Type R	Yes; 16 bit incl. sign
— Input resistance (Type R)	10 ΜΩ
• Type S	Yes; 16 bit incl. sign
— Input resistance (Type S)	10 ΜΩ
• Type T	Yes; 16 bit incl. sign
— Input resistance (Type T)	10 ΜΩ
• Type U	Yes; 16 bit incl. sign
— Input resistance (Type U)	10 ΜΩ
Input ranges (rated values), resistance thermometer	
• Ni 100	Yes; Standard/climate
— Input resistance (Ni 100)	10 ΜΩ
• Ni 1000	Yes; Standard/climate
— Input resistance (Ni 1000)	10 ΜΩ
● Ni 120	Yes; Standard/climate
— Input resistance (Ni 120)	10 ΜΩ
• Ni 200	Yes; Standard/climate
— Input resistance (Ni 200)	10 ΜΩ
• Ni 500	Yes; Standard/climate
— Input resistance (Ni 500)	10 ΜΩ
• Pt 100	Yes; Standard/climate
— Input resistance (Pt 100)	10 MΩ
• Pt 1000	Yes; Standard/climate
— Input resistance (Pt 1000)	10 ΜΩ
• Pt 200	Yes; Standard/climate
— Input resistance (Pt 200)	10 MΩ
• Pt 500	Yes; Standard/climate
— Input resistance (Pt 500)	10 MΩ
	10 18177
Input ranges (rated values), resistors	Voc
• 0 to 150 ohms	Yes
— Input resistance (0 to 150 ohms)	10 ΜΩ
• 0 to 300 ohms	Yes

<ul><li>— Input resistance (0 to 300 ohms)</li></ul>	10 ΜΩ
• 0 to 600 ohms	Yes
<ul><li>— Input resistance (0 to 600 ohms)</li></ul>	10 ΜΩ
• 0 to 3000 ohms	Yes
<ul><li>— Input resistance (0 to 3000 ohms)</li></ul>	10 ΜΩ
• 0 to 6000 ohms	Yes
— Input resistance (0 to 6000 ohms)	10 ΜΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	Yes
<ul> <li>internal temperature compensation</li> </ul>	Yes
external temperature compensation with	Yes
compensations socket	Yes
<ul> <li>— dynamic reference temperature value</li> <li>— fixed reference temperature</li> </ul>	Yes
Cable length	165
shielded, max.	30 m
Analog value generation for the inputs	30 111
	CIMATIC C7 formed
Analog value display	SIMATIC S7 format
Measurement principle	integrating
Integration and conversion time/resolution per channel	16 bit
<ul> <li>Resolution with overrange (bit including sign), max.</li> <li>Integration time, parameterizable</li> </ul>	
	Yes; channel by channel
Integration time (ms)      Pagin conversion time including integration time (ms)	0.84 / 16.7 (50) / 20 (60) / 60 (180)
Basic conversion time, including integration time (ms)  additional conversion time for wire break manifering.	4.50 / 21.5 (54) / 24 (64) / 64 (184)
<ul> <li>additional conversion time for wire-break monitoring</li> <li>Interference voltage suppression for interference</li> </ul>	2 ms; for 3/4-wire transducer 4 ms none / 60 / 50 / 16.7
frequency f1 in Hz	110116 / 00 / 30 / 10.7
Smoothing of measured values	
parameterizable	Yes
• Step: None	Yes; 1x cycle time
Step: low	Yes; 4x cycle time
Step: Medium	Yes; 16x cycle time
Step: High	Yes; 32x cycle time
Encoder	
Connection of signal encoders	
for resistance measurement with two-wire connection	Yes
	Yes
<ul> <li>for resistance measurement with three-wire connection</li> </ul>	1 03
<ul> <li>for resistance measurement with three-wire connection</li> <li>for resistance measurement with four-wire connection</li> </ul>	Yes
for resistance measurement with four-wire connection	
• for resistance measurement with four-wire connection Errors/accuracies	Yes
for resistance measurement with four-wire connection     Errors/accuracies     Linearity error (relative to input range), (+/-)	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance
• for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple
• for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB
• for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %
• for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %
• for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C
for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range  Voltage, relative to input range, (+/-)	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 %
for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual
for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range      Voltage, relative to input range, (+/-)      Resistance, relative to input range, (+/-)      Resistance thermometer, relative to input range, (+/-)	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual
for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range      Voltage, relative to input range, (+/-)      Resistance, relative to input range, (+/-)      Resistance thermometer, relative to input range, (+/-)      Thermocouple, relative to input range, (+/-)	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual
for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual 0.3 %
for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual 0.3 %  0.1 %
for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual 0.3 %  0.1 % 0.05 %; See deviations in the manual
• for resistance measurement with four-wire connection  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Temperature error of internal compensation  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  • Resistance, relative to input range, (+/-)  • Thermocouple, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  • Resistance, relative to input range, (+/-)  • Resistance thermometer, relative to input range, (+/-)	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual 0.3 %  0.1 % 0.05 %; See deviations in the manual 0.15 %
<ul> <li>for resistance measurement with four-wire connection</li> <li>Errors/accuracies</li> <li>Linearity error (relative to input range), (+/-)</li> <li>Temperature error (relative to input range), (+/-)</li> <li>Crosstalk between the inputs, max.</li> <li>Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)</li> <li>Temperature error of internal compensation</li> <li>Operational error limit in overall temperature range</li> <li>Voltage, relative to input range, (+/-)</li> <li>Resistance, relative to input range, (+/-)</li> <li>Resistance thermometer, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Basic error limit (operational limit at 25 °C)</li> <li>Voltage, relative to input range, (+/-)</li> <li>Resistance, relative to input range, (+/-)</li> <li>Resistance thermometer, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Interference voltage suppression for f = n x (f1 +/- 0.5 %), f1 = interference</li> </ul>	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual 0.3 %  0.1 % 0.05 %; See deviations in the manual 0.15 %
<ul> <li>for resistance measurement with four-wire connection</li> <li>Errors/accuracies</li> <li>Linearity error (relative to input range), (+/-)</li> <li>Temperature error (relative to input range), (+/-)</li> <li>Crosstalk between the inputs, max.</li> <li>Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)</li> <li>Temperature error of internal compensation</li> <li>Operational error limit in overall temperature range</li> <li>Voltage, relative to input range, (+/-)</li> <li>Resistance, relative to input range, (+/-)</li> <li>Resistance thermometer, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Basic error limit (operational limit at 25 °C)</li> <li>Voltage, relative to input range, (+/-)</li> <li>Resistance, relative to input range, (+/-)</li> <li>Resistance thermometer, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Interference voltage suppression for f = n x (f1 +/- 0.5 %), f1 = interference value of input range), min.</li> </ul>	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual 0.3 %  0.1 % 0.05 %; See deviations in the manual 0.05 %; See deviations in the manual 0.15 %  reference frequency
<ul> <li>for resistance measurement with four-wire connection</li> <li>Errors/accuracies</li> <li>Linearity error (relative to input range), (+/-)</li> <li>Temperature error (relative to input range), (+/-)</li> <li>Crosstalk between the inputs, max.</li> <li>Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)</li> <li>Temperature error of internal compensation</li> <li>Operational error limit in overall temperature range</li> <li>Voltage, relative to input range, (+/-)</li> <li>Resistance, relative to input range, (+/-)</li> <li>Resistance thermometer, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Basic error limit (operational limit at 25 °C)</li> <li>Voltage, relative to input range, (+/-)</li> <li>Resistance, relative to input range, (+/-)</li> <li>Resistance thermometer, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Interference voltage suppression for f = n x (f1 +/- 0.5 %), f1 = interestication</li> <li>Series mode interference (peak value of interference &lt; rated value of input range), min.</li> <li>Interfaces</li> </ul>	O.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual 0.3 %  0.1 % 0.05 %; See deviations in the manual 0.05 %; See deviations in the manual 0.15 %  rference frequency 40 dB
<ul> <li>for resistance measurement with four-wire connection</li> <li>Errors/accuracies</li> <li>Linearity error (relative to input range), (+/-)</li> <li>Temperature error (relative to input range), (+/-)</li> <li>Crosstalk between the inputs, max.</li> <li>Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)</li> <li>Temperature error of internal compensation</li> <li>Operational error limit in overall temperature range</li> <li>Voltage, relative to input range, (+/-)</li> <li>Resistance, relative to input range, (+/-)</li> <li>Resistance thermometer, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Basic error limit (operational limit at 25 °C)</li> <li>Voltage, relative to input range, (+/-)</li> <li>Resistance, relative to input range, (+/-)</li> <li>Resistance thermometer, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Thermocouple, relative to input range, (+/-)</li> <li>Interference voltage suppression for f = n x (f1 +/- 0.5 %), f1 = interference value of input range), min.</li> </ul>	Yes  0.01 %; ±0.1 % for resistance thermometers and resistance 0.0009 %/K; ±0.005 % / K at thermocouple -70 dB 0.008 %  ±1,5 °C  0.2 % 0.1 %; See deviations in the manual 0.1 %; See deviations in the manual 0.3 %  0.1 % 0.05 %; See deviations in the manual 0.05 %; See deviations in the manual 0.15 %  reference frequency

	PROFINET III 400 MINU 6 III - 1 (100 PAGE TIII
Interface type	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
Interface types	Vari Or MAO A nin D and al
• M12 port	Yes; 2x M12, 4-pin, D-coded
<ul> <li>Number of ports</li> </ul>	2
integrated switch	Yes
Protocols	
PROFINET IO Device	Yes
Open IE communication	Yes
Interface types	
M12 port	
<ul> <li>Autonegotiation</li> </ul>	Yes
<ul> <li>Autocrossing</li> </ul>	Yes
Transmission rate, max.	100 Mbit/s
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
EtherNet/IP	Yes
Modbus TCP	Yes
PROFINET IO Device	
Services	
— IRT	Yes; 250 µs to 4 ms in 125 µs frame
— Prioritized startup	Yes
— Shared device	Yes
Number of IO Controllers with shared device, max.	2
Redundancy mode	
PROFINET system redundancy (S2)	Yes
— on S7-1500R/H	Yes
— on S7-400H	Yes
PROFINET system redundancy (R1)	No
H-Sync forwarding	Yes
Media redundancy	
— MRP	Yes
EtherNet/IP	
Services	
— CIP Implicit Messaging	Yes
CIP Explicit Messaging	Yes
— CIP Safety	No
— Shared device	Yes; 2x EtherNet/IP Scanner
Number of scanners with shared device, max.	2
·	2
Updating times	2 mc
— Requested Packet Interval (RPI)	2 ms
Redundancy mode	Na
— DLR (Device Level Ring)	No
Address area	00 h. 4-
— Address space per module, max.	38 byte
— LargeForwardOpen (Class3)	No
Modbus TCP	
Services	·
— read coils (code=1)	Yes
— read discrete inputs (code=2)	Yes
— Read Holding Registers (Code=3)	Yes
— write single coil (code=5)	Yes
— write multiple coils (code=15)	Yes
<ul><li>— Write Multiple Registers (Code=16)</li></ul>	Yes
<ul> <li>Parameter change by master</li> </ul>	No
<ul> <li>Modbus TCP Security Protocol</li> </ul>	No
Address space per station	
<ul> <li>Address space per station, max.</li> </ul>	38 byte
<ul> <li>Access-consistent address space</li> </ul>	2 byte
Updating time	
— I/O request interval	2 ms

Connections	
Number of connections per slave	12
Open IE communication	12
• TCP/IP	Yes; (only EtherNet/IP or Modbus TCP)
• SNMP	Yes
• LLDP	Yes
• ARP	Yes
Interrupts/diagnostics/status information	165
Alarms	
Diagnostic alarm	Yes; Parameterizable
Maintenance interrupt	Yes; Parameterizable
Limit value alarm	Yes; two upper and two lower limit values in each case
Diagnoses	res, two upper and two lower limit values in each case
Diagnostic information readable	Yes
Monitoring the supply voltage	Yes
— parameterizable	Yes
Wire-break	Yes; Not for ±80 mV
Overflow/underflow     Diagnostics indication LED	Yes
Diagnostics indication LED	Vec. green LED
• RUN LED	Yes; green LED
ERROR LED      MAINT LED	Yes; red LED Yes; Yellow LED
NS LED	Yes; green/red LED
• MS LED	Yes; green/red LED
• IO LED	Yes; red/green/yellow LEDs
Channel status display	Yes; green LED
• for channel diagnostics	Yes; red LED
Connection display LINK TX/RX	Yes; green LED, only link
Potential separation	W.
between the load voltages	Yes
between Ethernet and electronics	Yes
Potential separation channels	N
between the channels	No V
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes
Isolation	
150lation	
tested with	
	707 V DC (type test)
tested with • 24 V DC circuits	707 V DC (type test) 1 500 V; According to IEEE 802.3
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]	707 V DC (type test) 1 500 V; According to IEEE 802.3
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection	1 500 V; According to IEEE 802.3
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection	
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates	1 500 V; According to IEEE 802.3  IP65/67/69K
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01  Yes; Declaration of Conformity, see online support entry 109757262
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standard	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01  Yes; Declaration of Conformity, see online support entry 109757262  Yes; based on AMS 2750 F  ard modules
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standard  • Performance level according to ISO 13849-1	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standard  • Performance level according to ISO 13849-1  • Category according to ISO 13849-1	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3
tested with  • 24 V DC circuits  • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standard  • Performance level according to ISO 13849-1  • Category according to ISO 13849-1  • SIL acc. to IEC 62061	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standard • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standare • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown  Ambient conditions	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standa  • Performance level according to ISO 13849-1  • Category according to ISO 13849-1  • SIL acc. to IEC 62061  • remark on safety-oriented shutdown  Ambient conditions  Ambient temperature during operation	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standard • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown  Ambient conditions  Ambient temperature during operation • min.	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standard • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown  Ambient conditions  Ambient temperature during operation • min. • max.	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standare • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown  Ambient conditions  Ambient temperature during operation • min. • max.  Altitude during operation relating to sea level	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standa • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown  Ambient conditions  Ambient temperature during operation • min. • max.  Altitude during operation relating to sea level • Ambient air temperature-barometric pressure-altitude	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standa • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown  Ambient conditions  Ambient temperature during operation • min. • max.  Altitude during operation relating to sea level • Ambient air temperature-barometric pressure-altitude connection method	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632  -40 °C 60 °C  Up to max. 5 000 m, at installation height > 2 000 m additional restrictions
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standa • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown  Ambient conditions  Ambient temperature during operation • min. • max.  Altitude during operation relating to sea level • Ambient air temperature-barometric pressure-altitude  connection method  Design of electrical connection	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632  -40 °C 60 °C  Up to max. 5 000 m, at installation height > 2 000 m additional restrictions  4/5-pin M12 circular connectors
tested with  • 24 V DC circuits • Test voltage for interface, rms value [Vrms]  Degree and class of protection  IP degree of protection  Standards, approvals, certificates  Suitable for safety-related tripping of standard modules  Suitable for applications according to AMS 2750  Suitable for applications according to CQI-9  Highest safety class achievable for safety-related tripping of standa • Performance level according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown  Ambient conditions  Ambient temperature during operation • min. • max.  Altitude during operation relating to sea level • Ambient air temperature-barometric pressure-altitude connection method	1 500 V; According to IEEE 802.3  IP65/67/69K  Yes; From FS01 Yes; Declaration of Conformity, see online support entry 109757262 Yes; based on AMS 2750 F  ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632  -40 °C 60 °C  Up to max. 5 000 m, at installation height > 2 000 m additional restrictions

Dimensions	
Width	45 mm
Height	200 mm
Depth	48 mm
Weights	
Weight, approx.	780 g

last modified: 8/16/2023 🖸

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