SIEMENS

Data sheet

6ES7647-0KA01-0AA2

SIMATIC IoT2000 input/output module, 5x DI 2x AI 2x DQ, ARDUINO Shield for SIMATIC IoT2040 and IoT2050



General information		
Product type designation	IOT2000	
Installation type/mounting		
Mounting	On Arduino interface	
Design	Plug-in card	
Supply voltage		
Type of supply voltage	24 V DC	
Digital inputs		
Number of digital inputs	5	
Input voltage		
 Type of input voltage 	DC	
• for signal "0"	< 5 V DC	
● for signal "1"	> 12 V DC	
Input current		
 for signal "0", max. (permissible quiescent current) 	0.9 mA	
● for signal "1", typ.	2.1 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— at "0" to "1", max.	1.5 ms	
— at "1" to "0", max.	1.5 ms	
Digital outputs		
Type of digital output	transistor	
Number of digital outputs	2	
Short-circuit protection	Yes	
Output voltage		
 Type of output voltage 	DC	
 permissible voltage at output, min. 	0 V	
 permissible voltage at output, max. 	28.8 V	
Output current		
 for signal "1" rated value 	0.3 A	
Parallel switching of two outputs		
• for uprating	No	
Switching frequency		
 with resistive load, max. 	10 Hz	
 with inductive load, max. 	0.5 Hz	
Analog inputs		
Number of analog inputs	2	
Input ranges		
Voltage	Yes; 0 to 10V	
Current	Yes; 0 to 20 mA	

No No Residence function (action), voltages No Interfaces (action (action), voltages) Yes No to 10 V Yes Analog value generation for the input Bibl Integrating action (actions), voltages) Bibl Methods (actions) No Non-Non-No Bibl Integrate functions No Non-Non-No No Status LEDs No Interference immunity against discharge of static electricity Status LED (Status LED) Interference immunity against discharge of static electricity Status LED (Status LED) Interference immunity against discharge status adapted states adapted status adapted states adapted states adapted status adapted states adapt	• Activities No • Activities No Input ranges links values), contents • (a) 10 V • (b) 10 O rA Ves • (b) 20 rA Ves Activity links values), contents • (a) 20 rA • (b) 20 rA Ves Activity links values), contents • (a) 20 rA • (a) 20 rA Ves Activity links values, contents • (a) 20 rA • (a) 20 rA Ves • (a) 20 rA No • (a) 20 rA 20 rA		
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Instrument (redu values), sortinges Yes • 0 to 20 mA Yes Analog value generation for the imports Yes Integrated generation for the imports Integrated generation for the imports Presolution and conversion time/resolution per channel • 0 to 20 mA Presolution with overcarge (bit including sign), max. 9 bit Integrated Functions • 0 Monitoring function • 0 • * Tomportature monitoring No • * Status LEDB No • Interference immunity against discharge of status electricity • Interference immunity against discharge of status electricity • Interference immunity against high frequency reduction of XM contact discharge act. to IEC 61000-43, 3V min or 1.4 -2 Interference immunity against high frequency reduction of XM act. to IEC 61000-43, 1V min or 1.4 -2 • Interference immunity against high frequency reduction of XM act. to IEC 61000-43, 1V min or 1.4 -2 • Interference immunity against high frequency reduction of XM act. to IEC 61000-43, 1V min or 1.4 -2 • Interference immunity against high frequency reduction of XM act. to IEC 61000-43, surge symmetric • Interference immunity on signal cables >30m 2.1V act. to IEC 61000-45, surge symmetric <td>input ranges (rade values), solvinges Yes input ranges (rade values), currents Yes integrated parter (rade values), currents Yes integrated functions Yes integrated functions Yes integrated functions No integrate functions No integrated functions Status (ED for On-4, Status(</td> <td></td> <td></td>	input ranges (rade values), solvinges Yes input ranges (rade values), currents Yes integrated parter (rade values), currents Yes integrated functions Yes integrated functions Yes integrated functions No integrate functions No integrated functions Status (ED for On-4, Status(
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Instruments Yes • 0 (b 20 m) Yes • Analog value queuration for the Imputs • Nee John with werrange (bit including sign), max. 9 bit • Regulation with werrange (bit including sign), max. 9 bit • Nee John Net Werrange (bit including sign), max. • Nantoning functions • No • No • With those • No • No • With those • No • No • Status LEDs No • No • Interference immunity ugainst discharge of static electricity • Hit of freemos immunity ugainst discharge of static electricity • Interference immunity ugainst discharge of static electricity • Hit of freemos immunity ugainst discharge of static electricity • Interference immunity ugainst logh frequency radiation • 44 V contact discharge acc. to EC 61000-43; IV m for 14 - 2 • Interference immunity ugainst logh frequency radiation • 20 V M acc. to EC 61000-43; IV m for 14 - 2 • Interference immunity ugainst logh frequency radiation • 20 V M acc. to EC 61000-43; IV m for 14 - 2 • Interference immunity ugainst logh frequency radiation • 20 V M acc. to EC 61000-44; usage logh > 30 m • Interference immunity ugainst logh frequency • 20 V Acc. to EC 61000-45; usage asymmetric •	ispat mages (ade values) currents • 0 to 20 mA • 0 to 20 mA • 0 to 20 mA • 9 to 20 mA • 9 to 20 mA • 9 to 20 mA • 1 relayer also generation for the inputs • resolution and conversion innerivesolution per channel • resolution with overrange (bit including sign), max. 9 bit • Integrated Functions • Temperature monitoring • No • Varichog • V		
• 0 to 20 mA Yes Analog value generation for the puts • Resolution with overage (bi including sign), max. 9 bit • Margenet Functions • Resolution with overage (bi including sign), max. 9 bit • Margenet Functions • No • Variable (bit including sign), max. 9 bit • Margenet Functions • No • Warcholog No • Status LEDs No • Finan No • Interference immunity against high-frequency electromagnetic finance • Elect Ginoou-4:2, the No Analos, to IEC Ginoou-4:3, the No Finance No Hiez No Analos, No IE C Binoou-4:2, the No Analos, No IE C Binoou-4:3, the No Finance No Hiez No	• Or 20 mA Yes Analog value generation for the fungates Indication and conversion for the fungates • Resolution with overange (bit including sign) max. 9 bit • Resolution with overange (bit including sign) max. 9 bit • Resolution with overange (bit including sign) max. 9 bit • Interpretation monitoring No • Status LEDs No • Status LEDs No • Interference immunity against discharge of static electricity • Adv contact discharge acc. to IEC 61000-42; a8 kV ar discharge acc. to IEC 61000-43; to IEC 61000-44; a0 kV ar discharge acc. to IEC 61000-45; to IEC 61000-44; IEC 61000-44; IEC 61000-44; IEC 61000-44; IEC 61000-44; IEC	• 0 to +10 V	Yes
Analog value generation for the inputs Integrated Functions Monitoring functions Integrated Functions Monitoring functions No • Wethodg • Status LEDs • Fan No • End End Integrated size functions • Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against high-frequency reductorragents Electronic • Interference immunity against high-frequency reductorragents • Interference immunity against high-frequency reductorragents • Interference immunity against allocharge of static electricity • Interference immunity against high frequency reductorragents • Interference immunity in against allocharge of static electricity • Interference immunity on again allocharge of static electricity • Interference immunity on again allocharge of static electronic • Interference immunity on again allocharge of static electronic • Interference immunity against high-frequency reductor • Interference immunity against discharge of static electronic • Interference immunity against high-frequency electronic • Interference immunity against discharge of static electronic • Interference immunity against dincharge again • Interference	Analog value generation for the inputs Integrated stanctions and conversion time/resolution per channel • Resolution with overrange (bit including sign, max. 9 bit Integrated Functions Monitoring functions • Maniputs and conversion time/resolutions No • Wardshop No • Struice LEDs No • Fan No EMC Interference immunity signist discharge of static electricity • Interference immunity signist discharge of static electricity 44 KV contact discharge acc. to IEC 61000.4-2; 81 KV air discharge acc. to IEC Interference immunity signist discharge of static 44 KV contact discharge acc. to IEC 61000.4-3; 1V min for 14 - 2 Interference immunity signist light frequency relations 10 V/m for 80 - 1 000 MHz, 80%, All acc. to IEC 61000.4-3; 1V min for 14 - 2 Interference immunity signist light frequency relations 2 KV acc. to IEC 61000.4-3; 1V min for 14 - 2 Interference immunity on signial cables >30m 2 KV acc. to IEC 61000.4-4; surge symmetric Interference immunity on signial cables >30m 2 KV acc. to IEC 61000.4-5; surge symmetric Interference immunity acables distore freque	Input ranges (rated values), currents	
Integrated and conversion limit inderivations 9 bit • Resolution with overrange (bit including sign), max. 9 bit Monitoring functions • Temperature monitoring No • Variabidity functions • No • Fan No • Status LEDs No • No • Fan No • Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against high-frequency radiation 64 kV contact discharge acc. to IEC 61000-4-2; s8 kV air discharge acc. to IEC 61000-4-2; s8 kV air discharge acc. to IEC 6100-4-2; s8 kV air discharge acc. to IEC 6100-4-2; s8 kV air discharge acc. to IEC 6100-4-2; s8 kV air discharge acc. to IEC 6100-4-3; s0 km Air ac, to IEC 6100-4-3; s0 km Air ac, to IEC 6100-4-4; surge asymmetric • Interference immunity on signal cables >30m = 21 kV acc, to IEC 61000-4-4; surge asymmetric • Interference immunity on signal cables >30m = 21 kV acc, to IEC 61000-4-4; surge asymmetric • symmetric interference = 21 kV acc, to IEC 61000-4-4; surge asymmetric • symmetric interference = 100 Air; to IEC 61000-4-3; surge asymmetric • Interference immunity	Integrated Functions		Yes
• Resolution with overange (bit including sign), max. 9 bit Integrated Functions • Temperature monitoring No • Temperature monitoring No • No • Watchdog No • No • Status LEDs No • No • Fan • No • No EWC • Interference immunity against discharge of static electricity • Interference immunity against thigh frequency relationst electricity • Interference immunity against high frequency relationst electricity • Interference immunity against high frequency relationst electricity • Interference immunity against high frequency relationst electricity • Interference immunity against high frequency relationst electricity • Interference immunity on supply cables • 12 KV acc. to IEC 61000-4-3, 10 W for 150 Mitz. 80% Ad acc. to IEC 61000-4-5, surge asymmetric • Interference immunity on supply cables • 2 KV acc. to IEC 61000-4-4, 10 W for 160 Mitz, 80% Mit acc. 10 Mitz, 80% Mitz, 80% Mitz, 80% Mitz, 80% Mitz, 80	• Resolution with overrange (bit including sign), max. 9 bit Integrated Functions • • Temperature monitoring No • Witcholog No • Strutus LEDs No • Fam No interference immunity against discharge of static electricity • • Interference immunity against discharge of static electricity • • Interference immunity against high frequency radiation • • Interference immunity against high frequency radiation • • Interference immunity against high frequency radiation 10 V/m top N-1 00 MHz 60% AM arc to IEC 61000-4.3, 3 V/m to 1.4 · 2 • Interference immunity on supply cables • 2.2 W arc to IEC 61000-4.4, surge again muticity • Interference immunity on supply cables • 2.2 W arc to IEC 61000-4.4, surge again muticity • Interference immunity on supply cables • 2.2 W arc to IEC 61000-4.4, surge again muticity • Interference immunity on supply cables • 2.4 V arc to IEC 61000-4.4, surge again muticity • Interference immunity on supply cables • 2.4 V arc to IEC 61000-4.5, surge again muticity • Interference immunity on supply cables 3.0 m 2.4 V arc to IEC 61000	Analog value generation for the inputs	
Integrated Functions Metaloing functions • Temporative monitoring No • Watchdog No • Status LEDs No • Fan No • Fan No • Interference immunity against discharge of static electricity • Interference immunity against high frequency electromagnetic fields • Interference immunity against high frequency electromagnetic fields 10 Vm for 80 - 1 000 MHz, 80% AM acc, to IEC 61000-4-3; 1 Vm for 2.2 / 2 KM acc, to IEC 61000-4-3; 1 Vm for 2.2 / 2 KM acc, to IEC 61000-4-3; 1 Vm for 2.2 / 2 KM acc, to IEC 61000-4-5; surge against high frequency electromagnetic fields • Interference immunity on supply cables • 2 KW acc, to IEC 61000-4-5; surge against high frequency electromagnetic fields • Interference immunity on supply cables • 2 KW acc, to IEC 61000-4-5; surge against all kHz 80% AM acc, to IEC 61000-4-5; surge against all kHz 80% AM acc, to IEC 61000-4-5; surge against all kHz 80% AM acc, to IEC 61000-4-5; surge against all kHz 80% AM acc, to IEC 61000-4-5; surge against all kHz 80% AM acc, to IEC 61000-4-5; surge against all kHz 80% AM acc, to IEC 61000-4-5; surge against all kHz 80% AM acc, to IEC 61000-4-5; surge against 80% • Interference immunity on signal cables > 20m • 2 KW acc, to IEC 61000-4-5; surge against 80% • Interference immunity on signal cables > 20m • 2 KW acc, to IEC 61000-4-5; surge against 80% • Interference immunity on signal cables >	Integrated Functions No Monitoring functions No • Temperature monitoring No • Status EDDs No • Fan No • Fan Status EDDs • Interference immunity against discharge of static electricity 44 W contact discharge acc. to IEC 61000-4-2; 45 KV air discharge acc. to IEC 61000-4-2; 10 km for 2 × 27 KM acc. to IEC 61000-4-3; 10 km for 2 × 27 KM acc. to IEC 61000-4-3; 10 km for 2 × 27 KM acc. to IEC 61000-4-3; 10 km for 2 × 27 KM acc. to IEC 61000-4-3; 10 km for 2 × 27 KM acc. to IEC 61000-4-4; 20 km Ad acc. to	Integration and conversion time/resolution per channel	
Monitoring functions Interpretature monitoring No • Temperature monitoring No No • Waitridog No No • Fran No Interference immunity against discharge of static electricity ±4 W contract discharge acc. to EC 61000-4-2; ±8 kV aff discharge acc. to EC 61000-4-2; ±8 kV aff discharge acc. to EC 61000-4-2; Interference immunity against high-frequency radiation ±4 W contract discharge acc. to EC 61000-4-3; ±5 kV aff discharge acc. to EC 61000-4-4; • Interference immunity against high-frequency radiation 10 Vm dy, AU acc. to EC 61000-4-4; ±4 kW contract discharge acc. to EC 61000-4-4; • Interference immunity on supply cables ±2 kV acc. to EC 61000-4-4; ±4 kW contract (etc. bit EC 61000-4-4; • Interference immunity on algoble a S0m ±2 kV acc. to EC 61000-4-4; ±4 kW contract (etc. bit EC 61000-4-4; • Interference immunity on algoble a S0m ±2 kV acc. to EC 61000-4-4; ±4 kW contract (etc. bit EC 61000-4-4; • Interference immunity on algoble a S0m ±2 kV acc. to EC 61000-4-4; ±4 kW acc. to EC 61000-4-5; • Interference immunity on algoble a S0m ±2 kV acc. to EC 61000-4-5; ±2 kV acc. to EC 61000-4-5; • Interference immunity on algoble a S0m ±2 kV acc. to EC 610000-4-5; ±2 kV acc. to EC 61000-4-5; </td <td>Monitories functions No • Temperature monitoring No • Watchoog No • Status LEDs No • Fam No Interference immunity against discharge of static electricity =4.4 W contact discharge act. to IEC 61000-4-2; ±6.4 W indischarge act. to IEC 61000-4-2; the V contact discharge act. to IEC 61000-4-2; ±6.4 W contact discharge act. to IEC 61000-4-3; 3 Wm for 1.4 - 2 • Interference immunity against high-frequency radiation =4.4 W contact discharge act. to IEC 61000-4-3; 1 Wm for 2.4 27 CHz; 80% AM act. to IEC 61000-4-4; the V contact discharge act. to IEC 61000-4-5; wage asymmetric • Interference immunity on signal cables > 30m =2.4 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on signal cables > 30m =2.2 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields =1.4 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields =2.2 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields =2.2 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields at 50 Hz 100 Am; to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields =2.4 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields at 50 Hz</td> <td> Resolution with overrange (bit including sign), max. </td> <td>9 bit</td>	Monitories functions No • Temperature monitoring No • Watchoog No • Status LEDs No • Fam No Interference immunity against discharge of static electricity =4.4 W contact discharge act. to IEC 61000-4-2; ±6.4 W indischarge act. to IEC 61000-4-2; the V contact discharge act. to IEC 61000-4-2; ±6.4 W contact discharge act. to IEC 61000-4-3; 3 Wm for 1.4 - 2 • Interference immunity against high-frequency radiation =4.4 W contact discharge act. to IEC 61000-4-3; 1 Wm for 2.4 27 CHz; 80% AM act. to IEC 61000-4-4; the V contact discharge act. to IEC 61000-4-5; wage asymmetric • Interference immunity on signal cables > 30m =2.4 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on signal cables > 30m =2.2 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields =1.4 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields =2.2 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields =2.2 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields at 50 Hz 100 Am; to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields =2.4 W act. to IEC 61000-4-5; surge asymmetric • Interference immunity on angenetic fields at 50 Hz	 Resolution with overrange (bit including sign), max. 	9 bit
• Temperature monitoring No • Watchdog No • Status LEDos No • Fan No • Interference immunity against discharge of static electricity # AV contact discharge acc. to IEC 61000-4-2; 138 kV air discharge acc. to IEC 61000-4-3; 3 kV m for 1.4 - 2 CH2, 80% AM acc. to IEC 61000-4-3; 1 vm for 2.2 CH2, 80% AM acc. to IEC 61000-4-3; 3 Vm for 1.4 - 2 CH2, 80% AM acc. to IEC 61000-4-3; 1 vm for 2.2 CH2, 80% AM acc. to IEC 61000-4-3; a Vm for 1.4 - 2 CH2, 80% AM acc. to IEC 61000-4-4; ur the symmetric electricity • Interference immunity against high frequency radiation 10 Vm for 80 -1 0EC 61000-4-4; ur the symmetric electricity. • Interference immunity against discharge as: 20m 21 kV acc. to IEC 61000-4-4; ur the for 61000-4-3; ur the symmetric electricity against discharge as: 20m • Interference immunity on signal cables > 30m 22 kV acc. to IEC 61000-4-5; urgs symmetric • Interference immunity on signal cables > 30m 24 kV acc. to IEC 61000-4-5; urgs symmetric • Interference immunity on signal cables > 30m 24 kV acc. to IEC 61000-4-5; urgs symmetric • Interference immunity on signal cables > 30m 24 kV acc. to IEC 61000-4-5; urgs symmetric • Interference immunity on signal cables > 30m 24 kV acc. to IEC 61000-4-5; urgs symmetric • Interference immun	• Transporture monitoring No • Watchdog No • Status EDDs No • Status EDDs No • Fan No • Interference immunity against discharge of static electricity #4 W contact discharge acc. to IEC 61000-4.2; ±6 KV air discharge acc. to IEC 61000-4.2; terminative against high-frequency relations • Interference immunity against high-frequency electromagnetic fields 10 Vm for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4.3; 1 Vm for 2.2 ° 7 8/K AM acc. to IEC 61000-4.3; 1 Vm for 2.2 ° 7 8/K AM acc. to IEC 61000-4.4; surge asymmetric • Interference immunity on supply cables ± 2 KV acc. to IEC 61000-4.4; surge asymmetric • Interference immunity on supply cables ± 2 KV acc. to IEC 61000-4.4; surge asymmetric • Interference immunity on signal cables > 30m ± 2 KV acc. to IEC 61000-4.5; surge asymmetric • Interference immunity on signal cables < 30m	Integrated Functions	
No No Status LEDs No Fan No EMC Interference immunity against discharge of static electricity 4 fV contact discharge acc. to IEC 61000-4-2; 18 kV air discharge acc. to IEC 61000-4-3; 10 V in for 9 1-0 00 MirLs 80% AM acc. to IEC 61000-4-3; 3 V in for 14-2 GV AM acc. to IEC 61000-4-3; 10 V in for 9 1-0 00 MirLs 80% AM acc. to IEC 61000-4-3; 10 V in for 9 1-2 27 GHz, 20% AM acc. to IEC 61000-4-4; 20% AM acc. to IEC 61000-4-4; 3 V in for 14-2 GV AM acc. to IEC 61000-4-4; 3 V in for 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in for 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in for 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in for 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in for 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in for 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in tor 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in for 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in tor 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in tor 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in tor 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in tor 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in tor 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-4; 3 V in tor 2 -2 7 GHz, 20% AM acc. to IEC 61000-4-5; surge symmetric - Interference immunity on signal cables > 30m +2 kV acc. to IEC 61000-4-4; surge symmetric - Interference immunity on signal cables > 30m +2 kV acc. to IEC 61000-4-5; surge symmetric - Symmetric interference +1 V Aucc. to IEC 61000-4-4; burst; eff AM ACC <td>No No Status LEDs No France No Exerce No Exerce Status LEDs Interference immunity against discharge of static electricity 44 KV contact discharge acc. to EC 61000-4.2; ±8 KV air discharge acc. to EC 61000-4.3; 41 Vm for 50.2; ±2 C 64:2; 80% AM acc. to EC 61000-4.3; a Vm for 1.4; ± 2 KV acc. to EC 61000-4.4; bust, ±0 KV acc. to EC 61000-4.5; surge asymmetric Interference immunity to magnetic fields at 50 Hz 100 Am; to EC 61000-4.4; bust, ±0 KV acc. to EC 61000-4.5; surge asymmetric Intefference inmunity to magnetic fiel</td> <td>Monitoring functions</td> <td></td>	No No Status LEDs No France No Exerce No Exerce Status LEDs Interference immunity against discharge of static electricity 44 KV contact discharge acc. to EC 61000-4.2; ±8 KV air discharge acc. to EC 61000-4.3; 41 Vm for 50.2; ±2 C 64:2; 80% AM acc. to EC 61000-4.3; a Vm for 1.4; ± 2 KV acc. to EC 61000-4.4; bust, ±0 KV acc. to EC 61000-4.5; surge asymmetric Interference immunity to magnetic fields at 50 Hz 100 Am; to EC 61000-4.4; bust, ±0 KV acc. to EC 61000-4.5; surge asymmetric Intefference inmunity to magnetic fiel	Monitoring functions	
• Status LÉDs No • Fan No Exect Interference immunity against discharge of static electricity • Interference immunity against high-frequency electromagnetic fields +4 KV contact discharge acc. to IEC 61000-4-2; 18 kV air discharge acc. to IEC 61000-4-2; 18 kV air discharge acc. to IEC 61000-4-2; 18 kV air discharge acc. to IEC 61000-4-3; 3 Vim for 1.4 - 2 GH2, 80% AM acc. to IEC 61000-4.3; Vim for 2.2 r GH2, 80% AM acc. to IEC 61000-4.3; Vim for 2.2 r GH2, 80% AM acc. to IEC 61000-4.4; 10 Vim for 80 - 1 000 MH2, 80% AM acc. to IEC 61000-4.5; augre asymmetric act to IEC 61000-4.5; augre asymmetric ac	Status LEDs No Fan No EXEC Exec Exec Status LEGS in munity against discharge of static electricity - Interference immunity against discharge of static electricity Status LEGS in the Status electricity - Interference immunity against high-frequency radiation 44 KV contact discharge acc. to EC 61000-4-2; 38 KV all discharge acc. to EC 61000-4-3; 3 VIII for 1 - 2; 0 KV Adv Adv Co. To EC 61000-4-3; 10 VIII for 52 - 50 KV Adv Adv Co. To EC 61000-4-3; 10 VIII for 52 - 50 KV Adv Adv Co. To EC 61000-4-3; 10 VIII for 52 - 50 KV Adv Adv Co. To EC 61000-4-3; 10 VIII for 52 - 50 KV Adv Adv Co. To EC 61000-4-3; 10 VIII for 52 - 50 KV Adv Adv Co. To EC 61000-4-4; usit ±1 KV acc. to EC 61000-4-5; using Asymmetric - Interference immunity on supply cables ±2 KV acc. To EC 61000-4-4; usit ±1 KV acc. to EC 61000-4-5; using Asymmetric - Interference immunity on supply cables ±2 KV acc. To EC 61000-4-5; using Asymmetric - Interference immunity on supply cables ±2 KV acc. To EC 61000-4-5; using Asymmetric - Interference immunity on supply cables ±2 KV acc. To EC 61000-4-5; using Asymmetric - Interference immunity on supply cables ±2 KV acc. To EC 61000-4-5; using Asymmetric - Interference immunity on supply cables ±2 KV acc. To EC 61000-4-5; using Asymmetric - Interference immunity on supply cables ±2 KV acc. To EC 61000-4-5; using Asymmetric	Temperature monitoring	No
Fan No EXC Interference immunity against discharge of stalic electricity #4 KV contact discharge acc. to IEC 61000-4-2; #8 KV air discharge acc. to IEC 61000-4-3; 30 Vm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; 10 Vm for 8.0 - 10 C 10 10 MHz. 80% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVm for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C 61-2 00% AM acc. to IEC 61000-4-3; aVM for 1.4 - 2 C Fom acc. AVM for 1.4 - 2 C Fom acc. AVM for 1.4 - 2 C Fom acc. AV	• Fan No EMC Interference immunity against discharge of static electricity 4 4 V contact discharge acc. to IEC 61000-4.2; ±8 kV air discharge acc. to IEC 61000-4.3; 10 V m for 80.1 000 MHz. 80% AM acc. to IEC 61000-4.3; 10 V m for 80.1 100 MHz. 80% AM acc. to IEC 61000-4.3; a V m for 14 22 r 04z; 80% AM acc. to IEC 61000-4.3; a V m for 14 22 r 04z; 80% AM acc. to IEC 61000-4.3; a V m for 14.1 contact be acceled accele	Watchdog	No
EMC Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against discharge of static electricity • Interference immunity against high-frequency electromagnetic folds • Interference immunity on supply cables • Interference immunity on supply cables • Interference immunity on supply cables • Interference immunity on signal cables > 30m • Interference immunity on signal cables > 30m • Interference • Interference immunity on signal cables > 30m • Interference • asymmetric interference • asymmetric interference • Interference immunity on agnetic fields • Interference immunity on agnetic fields 50 Hz	EMC Interference immunity against discharge of static electricity Interference immunity against discharge of static electricity 44 KV contact discharge act. to IEC 61000-4-2; 84 KV air discharge act. to IEC 61000-4-2; 80 KV air discharge act. to IEC 61000-4-3; 3 Wm for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-3; 3 Wm for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 2 - 27 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 2 - 27 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 2 - 27 GHz. 80% AM acc. to IEC 61000-4-4; 1 W for 2 - 27 GHz. 80% AM acc. to IEC 61000-4-4; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 2 - 27 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-4; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-3; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-4; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-4; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-4; 1 W for 1 a - 2 GHz. 80% AM acc. to IEC 61000-4-5; surge asymmetric Interference immunity on signal cables -30m ± 2 KV acc. to IEC 61000-4-4; surge asymmetric Interference immunity on signal cables -30m ± 2 KV acc. to IEC 61000-4-4; surge asymmetric Interference immunity on signal cables -30m ± 2 KV acc. to IEC 61000-4-4; surge asymmetric Interference immunity on signal cables -30m ± 2 KV acc. to IEC 61000-4-4; surge asymmetric Interference immunity on signal cables -30m ± 2 KV acc. to IEC 61000-4-4; surge asymmetric Inte	Status LEDs	No
Interference immunity against discharge of static electricity ±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-2; the static electricity Interference immunity against high frequency relationagenetic fields ±4 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to IEC 61000-4-3; 12 km for 2 - 27 GHz, 80% AM acc. to IEC 61000-4-3; 12 km for 2 - 27 GHz, 80% AM acc. to IEC 61000-4-3; 12 km for 2 - 27 GHz, 80% AM acc. to IEC 61000-4-6; IEC 61000-4-6; IEC 61000-4-6; IEC 61000-4-5; LV acc. to IEC 61000-4-6; LV acc. to IEC 61000-4-6; LV acc. to IEC 61000-4-6; LV acc. to IEC 61000-4-5; LV acc. to IEC 61000-4-6; IEC 61000-4-5; IEC 61000-4-2; IE	Interference immunity against discharge of static electricity 44 kV contact discharge acc. to IEC 61000-4-2; 48 kV air discharge acc. to IEC 61000-4-2; 48 kV air discharge acc. to IEC 61000-4-2; 48 kV air discharge acc. to IEC 61000-4-2; 48 kV air discharge acc. to IEC 61000-4-2; 48 kV air discharge acc. to IEC 61000-4-2; 48 kV air discharge acc. to IEC 61000-4-2; 48 kV air discharge acc. to IEC 61000-4-3; 1V im for K4, acc. for IEC 61000-4-4; burst, 41 kV acc. to IEC 61000-4-5; burge, length > 30 m interference interference imunity on signal cables >30m 24 kV acc. to IEC 61000-4-4; burst, 41 kV acc to IEC 61000-4-4; burst, 41 kV acc to IEC 61000-4-5; burge asymmetric 24 kV acc to IEC 61000-4-5; burge asymmetric interference imunity on signal cables >30m 24 kV acc to IEC 61000-4-5; burge asymmetric 14 kV acc to IEC 61000-4-5; burge asymmetric interference imunity to magnetic fields to IV arm, to IEC 61000-4-5; burge asymmetric interference interference imunity to magnetic fields to IV to acc t	• Fan	No
• Interference immunity against discharge of static electricity = 4 KV contact discharge acc. to IEC 61000-4-2; ±8 KV air discharge acc. to IEC 61000-4-2 Interference immunity against high frequency radiation Thereference immunity against high frequency radiation 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 14 - 2 642, 80% AM acc. to IEC 61000-4-4; 11 V/m for 2 - 2.7 640% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-5; 10 V/m r80 - 1 000 MHz, 10 IEC 61000-4-8; 10 V/m r80 - 1 000 MHz, 10 IEC 61000-4-8; 10 V/m r80 - 1 000 MHz, 10 IEC 61000-4-8; 10 V/m r80 - 1 000 MHz, 10 IEC 61000-4-8; 10 V/m r80 - 1 000 MHz, 10 IEC 61000-4-8; 10 V/m r80 - 1 000 MHz, 10 IEC 61000-4-8; 10 V/m r80 - 1 000 MHz, 10 IEC 61000-4-8; 10 V/m r80 - 1 000 Hz, 10 IEC 60008-2-30; 10 IEC 6008-2-30;	Interference immunity against discharge of static electricity. interference immunity against high-frequency electromagnetic fields interference immunity against high-frequency electromagnetic fields interference immunity against high-frequency electromagnetic fields interference immunity against high-frequency radiation interference immunity on supply cables interference immunity on signal cables >30m interference	EMC	
electricity 61000-4.2 Interference immunity against high-frequency relation 10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4.3; 3 V/m for 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4.3; 10 V/m for 81.2 * 2 GHz, 80% AM acc. to IEC 61000-4.4; Interference immunity to cable-borne interference • Interference immunity on cable-borne interference ± 2 KV acc. to IEC 61000-4.4; utry, 200 MHz, 80% AM acc. to IEC 61000-4.4; Interference immunity on signal cables >30m • Interference immunity on signal cables >30m ± 2 KV acc. to IEC 61000-4.4; utry, 200 MHz, 80% AM acc. to IEC 61000-4.5; Interference immunity on signal cables >30m • Interference immunity on signal cables >30m ± 2 KV acc. to IEC 61000-4.5; Interference immunity on signal cables >30m • Interference immunity on signal cables >30m ± 2 KV acc. to IEC 61000-4.5; Interference immunity on signal cables > 30m • Interference immunity on signal cables > 30m ± 2 KV acc. to IEC 61000-4.5; Interference immunity on magnetic fields • Interference immunity to magnetic fields 100 Am; to IEC 61000-4.5; Interference immunity on magnetic fields • Interference immunity to magnetic fields 100 Am; to IEC 61000-4.8 Emission of conducted and non-conducted interference ± KV acc. to IEC 61000-4.8 Emission of conducted interference EN 61000-6-4:2007 +A1:2011 Degree and class of protection res P (d the front) n.a. Standards, approvals, certificates EN 61000-6-1:2007 CE mark Yes	electricity 61000-4-2 Interference immunity against high-frequency electromagnetic fields • Interference immunity against high frequency electromagnetic fields 10 Yum for 801 000 MHz, 200% AM acc: to IEC 61000-4-3; YVm for 22 C G YL 200% AM acc: to IEC 61000-4-3; YVm for 22 C G YL 200% AM acc: to IEC 61000-4-6 Interference immunity to cable-borne interference +2 KV acc: to IEC 61000-4-3; YVm for 22 C G YL 200% AM acc: to IEC 61000-4-6 Interference immunity on supply cables +2 KV acc: to IEC 61000-4-4; burst; ±1 KV acc: to IEC 61000-4-5; surge asymmetric • Interference immunity on signal cables >30m +2 KV acc: to IEC 61000-4-5; surge asymmetric • Interference immunity on signal cables >30m +2 KV acc: to IEC 61000-4-5; surge asymmetric • Interference immunity on agnetic fields at 50 Hz 100 Am; to IEC 61000-4-5; surge asymmetric • Interference immunity to magnetic fields at 50 Hz 100 Am; to IEC 61000-4-8; surge asymmetric Interference emission via III infe/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection n.a. Standards, approval Yes OL approval Yes OL approval Yes OL approval Yes OL approval O' Co 50 °C Relative humidity Tested according to IEC 60008-2-40; SHz to 200, Fz to 8% magnetic fields • Nothert enduring operation O' Co 105 °C Rel	Interference immunity against discharge of static electricity	
Interference immunity against high-frequency radiation 10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-43; 3 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-43; 10 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-43; 10 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-43; 10 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-43; 10 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-43; 10 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-44; 10 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-44; 10 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-44; 10 V/m for 2 - 27 GHz, 80% AM acc. to IEC 61000-45; surge symmetric Interference immunity on suppl cables 22 V/acc. to IEC 61000-45; surge symmetric Interference immunity on signal cables < 30m	Interference immunity against high-frequency electromagnetic fields 10 V/m for 80 - 1 000 MHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 1.4 - 2 642, 80% AM acc. to IEC 61000-4-3; 11 V/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-3; 10 V/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-3; 10 V/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-4; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-4; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-5; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-2; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-2; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-2; U/m for 2 - 2, 7 40% AM acc. to IEC 61000-4-2; U/m for 2 - 2, 7 40% AM accc. to IEC 61000-4-2; U/m for 2 - 2, 7 40% AM acc. to	, , , ,	0
• Interference immunity against high frequency radiation 10 V/m for 80 - 1 000 MHz, 80% AM acc. bit EC 61000-4-3; 1/V fm for 2 - 2 ToHz, 80% AM acc. to IEC 61000-4-3; 10 V for 150 kHz, 80% AM acc. to IEC 61000-4-4; 10 V for 150 kHz, 80% AM acc. to IEC 61000-4-4; 10 V for 150 kHz, 80% AM acc. to IEC 61000-4-4; 10 V for 150 kHz, 80% AM acc. to IEC 61000-4-4; 10 V for 150 kHz, 80% AM acc. to IEC 61000-4-5; surge asymmetric • Interference immunity on signal cables >30m ± 2 kV acc. to IEC 61000-4-4; surge asymmetric • Interference immunity on signal cables >30m ± 2 kV acc. to IEC 61000-4-5; surge asymmetric • symmetric interference ± 2 kV acc. to IEC 61000-4-4; surge asymmetric • symmetric interference ± 2 kV acc. to IEC 61000-4-5; surge asymmetric • symmetric interference ± 2 kV acc. to IEC 61000-4-5; surge asymmetric • symmetric interference ± 1 kV acc. to IEC 61000-4-5; surge asymmetric • interference immunity to magnetic fields 100 A/m; to IEC 61000-4-3; • interference immunity to magnetic fields 100 A/m; to IEC 61000-4-3; • interference immunity to magnetic fields 100 A/m; to IEC 61000-4-3; • interference immunity on signal cables > 50 Hz 100 A/m; to IEC 61000-4-3; • interference immunity to magnetic fields 100 A/m; to IEC 61000-4-3; • interference immunity on magnetic fields 100 A/m; to IEC 61000-4-3; • interference immunity omagnetic fields <t< td=""><td>Interference immunity against high frequency radiation Interference immunity to supply cables Interference immunity on supply cables Interference immunity on signal cables >30m Interference Interference immunity on magnetic fields Interference Interf</td><td></td><td></td></t<>	Interference immunity against high frequency radiation Interference immunity to supply cables Interference immunity on supply cables Interference immunity on signal cables >30m Interference Interference immunity on magnetic fields Interference Interf		
GHz, 80% AM acc. to IEC 61000-4-7, 10 Vm for 2 - 27 GHz, 80% AM acc. to IEC 61000-4-6 Interference immunity to cable-borne interference Interference immunity on supply cables 12 KV acc. to IEC 61000-4-5, surge asymmetric 24 KV acc. to IEC 61000-4-5, surge asymmetric 12 KV acc. to IEC 61000-4-5, surge asymmetric 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-5, surge asymmetric 24 KV acc. to IEC 61000-4-5, surge asymmetric 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 24 KV acc. to IEC 61000-4-4, burst, length > 30 m 25 KV acc. to IEC 61000-4-4, burst, length > 30 m 26 KV acc. to IEC 61000-4-2, burst, length > 30 m 27 Krapproval 28 KC approval 29 Kr approval 29 Kr approval 29 Kr approval 20 KC to 50 °C 20 Kr approval 20 KC approval <li< td=""><td>GHz, 80% AM acc, to IEC 61000-4.3; 10 V for 150 kHz, 80% AM acc, to IEC 61000-4.6 Interference immunity to supply cables ±2 kV acc, to IEC 61000-4.3; 10 V for 150 kHz, 80% AM acc, to IEC 61000-4.6 Interference immunity on supply cables ±2 kV acc, to IEC 61000-4.5, surge symmetric Interference immunity on signal cables >30m ±2 kV acc, to IEC 61000-4.5, surge symmetric Interference immunity on signal cables >30m ±2 kV acc, to IEC 61000-4.5, surge symmetric asymmetric interference ±2 kV acc, to IEC 61000-4.5, surge symmetric asymmetric interference ±2 kV acc, to IEC 61000-4.5, surge symmetric asymmetric interference ±2 kV acc, to IEC 61000-4.5, surge symmetric asymmetric interference ±1 kV acc, to IEC 61000-4.5, surge symmetric Interference immunity on signal cables <30m</td> ±2 kV acc, to IEC 61000-4.5, surge symmetric Interference immunity on signal cables 100 Am; to IEC 61000-4.5, surge symmetric Interference immunity on signal cables 100 Am; to IEC 61000-4.5 Interference immunity on signal cables 100 Am; to IEC 61000-4.5 Interference immunity on signal cables 100 Am; to IEC 61000-4.5 Interference immunity on signal cables 100 Am; to IEC 61000-4.5 Interference immunity on signal cables 100 Am; to IEC 61000-4.5 Interference immunity on signal cables 100 Am; to IEC 61000-4.5 Interference immunity on signal cables 100</li<>	GHz, 80% AM acc, to IEC 61000-4.3; 10 V for 150 kHz, 80% AM acc, to IEC 61000-4.6 Interference immunity to supply cables ±2 kV acc, to IEC 61000-4.3; 10 V for 150 kHz, 80% AM acc, to IEC 61000-4.6 Interference immunity on supply cables ±2 kV acc, to IEC 61000-4.5, surge symmetric Interference immunity on signal cables >30m ±2 kV acc, to IEC 61000-4.5, surge symmetric Interference immunity on signal cables >30m ±2 kV acc, to IEC 61000-4.5, surge symmetric asymmetric interference ±2 kV acc, to IEC 61000-4.5, surge symmetric asymmetric interference ±2 kV acc, to IEC 61000-4.5, surge symmetric asymmetric interference ±2 kV acc, to IEC 61000-4.5, surge symmetric asymmetric interference ±1 kV acc, to IEC 61000-4.5, surge symmetric Interference immunity on signal cables <30m		
• Interference immunity on supply cables ±2.kV acc. to IEC 61000-4-5, surge asymmetric • Interference immunity on signal cables >30m ±2.kV acc. to IEC 61000-4-5, surge asymmetric • Interference immunity on signal cables < 30m	Interference immunity on supply cables #2 kV acc. to IEC 61000-4.4, burst; 1 kV acc. to IEC 61000-4.5, surge symmetric; #2 kV acc. to IEC 61000-4.5, surge symmetric #1 kV acc. to IEC 6100-4.5, surge symmetric #1 kV ac		GHz, 80% AM acc. to IEC 61000-4-3; 1 V/m for 2 - 2.7 GHz, 80% AM acc. to
Interference immunity on signal cables >30m interference immunity on signal cables > 30m interference immunity against voltage surge isymmetric interference interference immunity to magnetic fields interference immunity to magnetic fields at 50 Hz interference interference immunity to magnetic fields interference interference immunity to magnetic fields interference int	symmetric: ±2 kV acc. to IEC 61000-4.5, surge asymmetric + 2 kV acc. to IEC 61000-4.5, surge, length > 30 m + 2 kV in acc. to IEC 61000-4.5, surge, length > 30 m + 2 kV in acc. to IEC 61000-4.5, surge, length > 30 m + 2 kV in acc. to IEC 61000-4.5, surge asymmetric + 2 kV acc. to IEC 61000-4.2 + 2 kV acc. to IEC 61006-2 + 2 kV acc. to IEC 6100	· ·	
• Interference immunity on signal cables >30m ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m • Interference immunity against voltage surge ±2 kV in accordance with IEC 61000-4-4, burst, length > 30 m Interference immunity against voltage surge ±2 kV acc. to IEC 61000-4-5, surge asymmetric • symmetric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric Interference immunity to magnetic fields ±1 kV acc. to IEC 61000-4-5, surge asymmetric • Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference • 181000-6-4:2007 +A1:2011 Degree and class of protection Protection IP (at the forth) n.a. Standards, approval Yes CE mark Yes UL approval Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-1:2007 Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30. Operation: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85	Interference immunity on signal cables >30m ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m ±2 kV in accordance with IEC 61000-4-4, burst, length > 30 m ±2 kV in accordance with IEC 61000-4-4, burst, length > 30 m ±2 kV acc. to IEC 61000-4-5, surge asymmetric tertiference immunity and acables < 30m ±2 kV acc. to IEC 61000-4-5, surge asymmetric tertiference immunity to magnetic fields tertiference immunity to magnetic fields tertiference immunity to magnetic fields tertiference immunity to magnetic fields to 11/2 to address of protection Interference immunity to magnetic fields tertiference immunity to magnetic fields to 11/2 Terest according to IEC 61000-4-3 Emission of conducted and non-conducted interference interference emission via line/AC current cables Encode tass of protection IP (at the front) n.a. Standards, approvals, certificates CE mark Ves CUlus Yes Culus Yes Culus Yes Culus Yes Culus Ambient conditions Ambient temperature during operation or occondensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no con	 Interference immunity on supply cables 	
• Interference immunity on signal cables < 30m	Interference immunity on signal cables < 30m 12 kV in accordance with IEC 61000-44, burst, length > 30 m Interference immunity against voltage surge 2 kV acc. to IEC 61000-45, surge asymmetric asymmetric interference 1 kV acc. to IEC 61000-45, surge asymmetric interference immunity to magnetic fields interference emission via line/AC current cables EN 61000-64:2007 +A1:2011 Degree and class of protection IP (at the front) n.a. Standards, approvals, cortificates CE mark Yes UL approval Yes CUlus Yes Ambient conditions Ambient temperature during operation	 Interference immunity on signal cables >30m 	
Interference immunity against voltage surge ±2 kV acc. to IEC 61000-4-5, surge asymmetric • symmetric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric • Interference immunity to magnetic fields 100 A/m; to IEC 61000-4-5, surge symmetric • Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 • Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 • Interference mission via line/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection n.a. IP (at the front) n.a. Standards, approvals, certificates CE mark UL approval Yes otLus Yes cULus Yes cULus Yes modient temperature during operation 0 °C to 50 °C elative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport. 5 % to 85 % at 30 °C (no condensation), storage / transport. 5 % to 85 % at 30 °C (no condensation), storage / transport. 5 % to 85 % at 30 °C (no condensation), storage / transport. 5 % to 85 % at 30 °C (no condensation), storage / transport. 5 % to 85 % at 30 °C (no condensation), storage / transport. 5 % to 85 % at 30 °C (no condensation), storage / transport. 5 % to 85 % at 30 °C (no condensation), storage / transport. 5 % to 85 % at 30	Interference immunity against voltage surge ±2 kV acc. to IEC 61000-4-5, surge asymmetric • symmetric interference ±1 kV acc. to IEC 61000-4-5, surge asymmetric • Interference immunity to magnetic fields 100 A/m; to IEC 61000-4-8 • Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference • Interference emission via line/AC current cables Envision of conducted and non-conducted interference • Interference emission via line/AC current cables Envision of conducted and non-conducted interference • Interference emission via line/AC current cables Envision of conducted and non-conducted interference • Interference emission via line/AC current cables Extra conducted and non-conducted interference • Interference emission via line/AC current cables Extra conducted and non-conducted interference • Interference emission via line/AC current cables Extra conducted and non-conducted interference • Interference UL approval Yes UL approval Yes Culus Yes Motiont conditions • Anbient conditions Ambient temperature during operation 0 * C to 50 * C • Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 3		
• asymmetric interference ±2 kV acc. to IEC 61000-4-5, surge asymmetric • symmetric interference ±1 kV acc. to IEC 61000-4-5, surge symmetric Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference 100 A/m; to IEC 61000-4-8 Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference 100 A/m; to IEC 61000-4-8 Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Degree and class of protection Immetric interference IP (at the front) n.a. Standards, approvals, certificates Ves CL approval Yes cULus Yes CULus Yes CL portval Yes PMEC CE, EN 61000-6-3:2007 + A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011, EN 61000-6-3:2007 + A1:2011, EN 61000-6-3:2007 + A1:2011, EN 61000-6-3:2007 + A1:2011, EN 61000-6-3:2007 Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 85 % at 30 °C (no condens	e symmetric interference interference immunity to magnetic fields interference immunity to magnetic fields at 50 Hz IO A/m; to IEC 61000-4-5, surge symmetric interference immunity to magnetic fields at 50 Hz IO A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference interference emission via line/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection IP (at the front) In.a. Standards, approvals, certificates CE mark Yes UL approval CE mark Yes UL approval CE, EN 61000-6-4:2007 +A1:2011 EN 61000-6-2:2005, EN 61000-6-3:2007 Antionation Ambient conditions Ambient temperature during operation wholen temperature wholen wholen		
• symmetric interference ±1 kV acc. to IEC 61000-4-5, surge symmetric Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference - • Interference emission via line/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection - IP (at the front) n.a. Standards, approvals, cortificates - CE mark Yes UL approval Yes cULus Yes CULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE; EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient temperature during operation 0 "C to 50 "C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 "C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 "C (no condensation) Vibrations - • Vibration resistance during operation acc. to IEC 60068-2-78, IEC 60068-2-78; IEC 60068-2-30: Operation: 5 % to 85 % at 30 "C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 "C (no condensation)] Vibrations <t< td=""><td>• symmetric interference ±1 kV acc. to IEC 61000-4-5, surge symmetric Interference immunity to magnetic fields 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference 100 A/m; to IEC 61000-6-4:2007 +A1:2011 Degree and class of protection n.a. IP (at the front) n.a. Standards, approvals, certificates CE mark VL approval Yes CLus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ambient conditions Yes; For use inside SIMATIC IoT2040 Ambient conditions CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ambient conditions Ambient conditions Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30. Operation: 5 % to 85 % c (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to</td><td></td><td>+2 kV acc. to IEC 61000 4.5, surge asymmetric</td></t<>	• symmetric interference ±1 kV acc. to IEC 61000-4-5, surge symmetric Interference immunity to magnetic fields 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference 100 A/m; to IEC 61000-6-4:2007 +A1:2011 Degree and class of protection n.a. IP (at the front) n.a. Standards, approvals, certificates CE mark VL approval Yes CLus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ambient conditions Yes; For use inside SIMATIC IoT2040 Ambient conditions CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ambient conditions Ambient conditions Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30. Operation: 5 % to 85 % c (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport. 5 % to		+2 kV acc. to IEC 61000 4.5, surge asymmetric
Interference immunity to magnetic fields 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference 100 A/m; to IEC 61000-64:2007 +A1:2011 Degree and class of protection Interference emission via line/AC current cables IP (at the front) n.a. Standards, approvals, certificates CE mark UL approval Yes UL us Yes UL approval Yes cULus Yes KC approval Yes, For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 At1:2011, EN 61000-6-1:2007 Ad1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ad1:2011, EN 61000-6-1:2007 Ad1:2011, EN 61000-6-1:2007 Ambient conditions 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25	Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference EN 61000-6-4:2007 +A1:2011 Degree and class of protection IP (at the front) IP (at the front) n.a. Standards, approvals, certificates CE mark CE mark Yes UL approval Yes CLus Yes CLus Yes CLus Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 Ambient conditions - Ambient temperature during operation 0 *C to 50 °C Relative humidity Tested according to IEC 60068-2-78; IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations - • Vibration resistance during operation acc. to IEC 60068- Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 ms² Shock testing - • Noterating system Yes Umensions Yes Width 75 mm Height 75 mm <	-	- · ·
• Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference • Interference emission via line/AC current cables • Interference emission via line/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection n.a. IP (at the front) n.a. Standards, approvals, certificates • CE mark Yes UL approval Yes cULus Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions • Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibration Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock lead during operation acc. to IEC 60068-2-8: Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock lead during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock lead during operation <	• Interference immunity to magnetic fields at 50 Hz 100 A/m; to IEC 61000-4-8 Emission of conducted and non-conducted interference • • Interference emission via line/AC current cables EN 61000-6-4;2007 +A1:2011 Degree and class of protection Interference emission via line/AC current cables IP (at the front) n.a. Standards, approvals, certificates Ves CE mark Yes UL approval Yes CLus Yes KC approval Yes CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ambient conditions Yes Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock leating Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating systems Yes Without operating systems Yes Without operating systems Yes Without operating systems Yes Without operating systems Yes		TT KV acc. to IEC 01000-4-3, surge symmetric
Emission of conducted and non-conducted interference • Interference emission via line/AC current cables Pegree and class of protection IP (at the front) n.a. Standards, approvals, certificates CE mark Yes UL approval Yes cULus Yes ULus Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions CE, EN 61000-6-1:2007 Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 20 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s^2 Shock testing • Shock load during operation • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s^2 Shock testing • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 9.3 m/s^3, 11 ms Operating systems Yes Dimensions With 75 mm <td>Emission of conducted and non-conducted interference • Interference emission via line/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection IP (at the front) IP (at the front) n.a. Standards, approvals, certificates Ves UL approval Yes cE mark Yes UL approval Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC E. EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Athient conditions Ambient temperature during operation • Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation) Vibrations Vibration resistance during operation acc. to IEC 60068-2-40: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing * • Shock load during operation Tested according to IEC 60068-2-40: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock lead during operation Tested according to IEC 60068-2-40: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock lead during operation Tested according to IEC 60068-2-40</td> <td></td> <td>100 A/m; to IEC 61000 4 8</td>	Emission of conducted and non-conducted interference • Interference emission via line/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection IP (at the front) IP (at the front) n.a. Standards, approvals, certificates Ves UL approval Yes cE mark Yes UL approval Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC E. EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Athient conditions Ambient temperature during operation • Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation) Vibrations Vibration resistance during operation acc. to IEC 60068-2-40: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing * • Shock load during operation Tested according to IEC 60068-2-40: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock lead during operation Tested according to IEC 60068-2-40: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock lead during operation Tested according to IEC 60068-2-40		100 A/m; to IEC 61000 4 8
• Interference emission via line/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection n.a. IP (at the front) n.a. Standards, approvals, certificates CE mark Yes UL approval Yes otlus Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient temperature during operation 0 *C to 50 *C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 9 Hz: 9.8 m/s² • Vibration resistance during operation acc. to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² • Shock lead during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m	• Interference emission via line/AC current cables EN 61000-6-4:2007 +A1:2011 Degree and class of protection .a. IP (at the front) n.a. Standards, approvals, certificates CE CE mark Yes UL approval Yes cULus Yes cULus Yes CA opproval Yes; For use inside SIMATIC IoT2040 EMC CE. B 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ambient conditions Ambient temperature during operation Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation) Vibration resistance during operation acc. to IEC 60068- Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing . • Vibration resistance during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock load during operation Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating system Yes Dimensions Yes Dimensions Width 75		
Degree and class of protection IP (at the front) n.a. Standards, approvals, certificates CE mark Yes UL approval Yes UL approval Yes ULus Yes KC approval Yes EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions Ambient temperature during operation Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 85 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Shock testing Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Without operating system Yes Dimensions Yes	Degree and class of protection IP (at the front) n.a. Standards, approvals, certificates CE mark Yes UL approval Yes cULus Yes cULus Yes CE mork Yes cULus Yes cULus Yes cULus Yes cULus Yes cULus Yes Motion CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions CE, EN 61000-6-4:2007 Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing • Vibration resistance during operation acc. to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz		
IP (at the front) n.a. Standards, approvals, certificates CE mark Yes UL approval Yes cULus Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:200, EN 60068-2:05 % [C condensation] • Ambient temperature during operation acc. to IEC 60068- 2-6 • Vibration resistance during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ⁴ • Shock load during operation Tested according to IEC 60068-2-27: 150 m/s ⁶ , 11 ms Operating system Yes Dimensions	IP (at the front) n.a. Standards, approvals, certificates CE mark Yes UL approval Yes cULus Yes cULus Yes CE mark Yes cULus Yes cULus Yes CE proval Yes EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions CE, EN 61000-6-1:2007 Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 25 / 55 °C (no condensation) Vibration Vibration resistance during operation acc. to IEC 60068- • Vibration resistance during operation acc. to IEC 60068- Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Without operating system		
Standards, approvals, certificates CE mark Yes UL approval Yes cULus Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions Ambient temperature during operation Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock lesting Shock lesting • Shock load during operation Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating systems Yes Width 75 mm	Standards, approvals, certificates CE mark Yes UL approval Yes cULus Yes CLUs Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions Ambient temperature during operation • Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Shock testing Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² without operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Without operating system Yes Dimensions Yes Width 75 mm Height 57 mm		20
CE mark Yes UL approval Yes cULus Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions Ambient temperature during operation • Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ^a Shock lesting • Shock load during operation • Shock load during operation Tested according to IEC 60068-2-27: 150 m/s ^a , 11 ms Operating systems Yes Width 75 mm	CE mark Yes UL approval Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions Ambient temperature during operation Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)) Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ⁴ Shock testing • Shock load during operation • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ⁴ without operating system Yes Dimensions Yes Width 75 mm Height 57 mm		n.a.
UL approval Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions CE, EN 61000-6-1:2007 Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ^a Shock testing Shock load during operation • Shock load during operation Tested according to IEC 60068-2-7: 150 m/s ^a , 11 ms Operating systems Yes Without operating system Yes Dimensions Yes	UL approval Yes cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions +A1:2011, EN 61000-6-1:2007 Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing Shock load during operation • Shock load during operation Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating system Yes Dimensions Yes Width 75 mm Height 57 mm		, , , , , , , , , , , , , , , , , , ,
cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions	cULus Yes KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions Ambient temperature during operation Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation)) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Shock testing Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Shock load during operation Tested according to IEC 60068-2-27: 150 m/s ² , 11 ms Operating systems Yes Width 75 mm Height 57 mm		
KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-4:2007 Ambient conditions Ambient temperature during operation • Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations • Vibration resistance during operation acc. to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Shock testing • Shock load during operation • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Shock testing • Shock load during operation • Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s ² Without operating systems Yes Dimensions Yes With 75 mm	KC approval Yes; For use inside SIMATIC IoT2040 EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-1:2007 Ambient conditions Ambient temperature during operation • Ambient temperature during operation 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock load during operation Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² without operating system Yes Operating systems Yes Width 75 mm Height 57 mm		
EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ambient temperature during operation 0 °C to 50 °C Relative humidity 0 °C to 50 °C Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock load during operation Tested according to IEC 60068-2-79; 150 m/s², 11 ms Operating systems Yes Without operating system Yes Dimensions Yes	EMC CE, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 +A1:2011, EN 61000-6-2:2005, EN 61000-6-3:2007 Ambient conditions Ambient temperature during operation 0 °C to 50 °C Relative humidity 0 °C to 50 °C • Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: Operation: 5 % to 85 % at 30 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation), storage / transport: 5 % to 95 % at 25 / 55 °C (no condensation) Vibrations Tested according to IEC 60068-2-6: 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 200 Hz: 9.8 m/s² Shock testing Tested according to IEC 60068-2-7: 150 m/s², 11 ms Operating system Yes Dimensions Yes Width 75 mm Height 57 mm		
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• Shock load during operation Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating systems Yes Dimensions Yes Width 75 mm	• Shock load during operation Tested according to IEC 60068-2-27: 150 m/s², 11 ms Operating systems Yes Dimensions Yes Width 75 mm Height 57 mm	2-6	
Operating systems without operating system Yes Dimensions Width 75 mm	Operating systems Yes Dimensions 75 mm Width 75 mm Height 57 mm	, , , , , , , , , , , , , , , , , , ,	
without operating system Yes Dimensions 75 mm	without operating system Yes Dimensions Yes Width 75 mm Height 57 mm		Tested according to IEC 60068-2-27: 150 m/s ² , 11 ms
Dimensions Width 75 mm	Dimensions Width 75 mm Height 57 mm	Operating systems	
Width 75 mm	Width 75 mm Height 57 mm	without operating system	Yes
	Height 57 mm	Dimensions	
Height 57 mm		Width	75 mm
	Depth 32 mm	Height	57 mm
Depth 32 mm		Depth	32 mm

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