## SIEMENS

## Data sheet

## 6ES7523-1BL00-0AA0



SIMATIC S7-1500 digital input/output module, DI16x 24VDC BA, 16 channels in groups of 16, input delay typ. 3.2 ms input type 3 (IEC 61131), DQ16XDC 24V/0.5A BA; 16 channels in groups of 8; 4 A per group; the module supports the safety-oriented shutdown of load groups up to SIL2 according to EN IEC 62061:2021 and Category 2 / PL c according to EN ISO 13849-1:2015. delivery including front connector push-in,

General information         D1 18x24VDC / D016x24VDC/0.5A BA           Product type designation         V1.0.0           + PW unctained istatus         From FS01           Firmware version         V1.0.0           • FW update possible         Yes           Product function		
HW functional status       From FS01         Firmware version       V1.0.0         • FW update possible       Yes         Product function       Yes         • I&M data       Yes; I&M0 to I&M3         • Isochronous mode       No         • Prioritized startup       Yes         Engineering with       Yes         • STEP 7 TIA Portal configurable/integrated from version       V13 / V13         • STEP 7 orofigurable/integrated from version       V15.5 \$P3 / -         • PROFIBUS from GSD version/GSD revision       V1.0 / V5.1         • PROFINET from GSD version/GSD revision       V2.3 / -         Operating mode	General information	
Firmware version     V1.0.0       • FW update possible     Yes       Product function     Yes       • I&M data     Yes; I&M0 to I&M3       • Issochronous mode     No       • STEP 7 TIA Portal configurable/integrated from version     V13 / V13       • STEP 7 To April approximable from version     V13 / V13       • STEP 7 configurable/integrated from version     V5.5 SP3 / -       • PROFIBUS from GSD version/GSD revision     V1.0 / V5.1       • PROFIBUS from GSD version/GSD revision     V2.3 / -       Operating mode     V2.3 / -       • DI     Yes       • Counter     No       • DQ with energy-saving function     No       • DQ with energy-saving function     No       • Systage     Yes       Rated value (DC)     24 V       permissible range, upper limit (DC)     28.8 V       Reverse polarity protection     Yes; through internal protection with 7 A per group       Input current     Current consumption, max.       Current torsumption, max.     30 mA       Output voltage / header     Ye4 V       Power loss, typ.     3.45 W	Product type designation	DI 16x24VDC / DQ16x24VDC/0.5A BA
• FW update possibleYesProduct function• I&M dataYes; I&M0 to I&M3• Is ochronous modeNo• Prioritized startupYesEngineering with	HW functional status	From FS01
Product function     Yes; I&M0 to I&M3       • I&M data     Yes; I&M0 to I&M3       • Is isochronous mode     No       • Frichitzed startup     Yes       Engineering with     Yes       • STEP 7 TIA Portal configurable/integrated from version     V13 / V13       • STEP 7 configurable/integrated from version     V5.5 SP3 / -       • PROFIBUS from GSD version/GSD revision     V1.0 / V5.1       • PROFINET from GSD version/GSD revision     V2.3 / -       Operating mode     Ves       • DI     Yes       • DU     Yes       • DU     Yes       • DQ with energy-saving function     No       • DWM     No       • Oversampling     No       • MSO     Yes       Supply voltage     Yes       Rated value (DC)     24 V       permissible range, upper limit (DC)     28.8 V       Reverse polarity protection     Yes; through internal protection with 7 A per group       Input current     Current consumption, max.       Output voltage/     24 V       Rated value (DC)     24 V       Power tore     Yes; through internal protection with 7 A per group       Input current     To mA       Output voltage/ header     To mA       Power loss, typ.     3.45 W <td>Firmware version</td> <td>V1.0.0</td>	Firmware version	V1.0.0
• I&M data     Yes; I&M0 to I&M3       • Isochronous mode     No       • Prioritized startup     Yes       Engineering with	FW update possible	Yes
• Isochronous mode     No       • Prioritized startup     Yes       Engineering with     V13 / V13       • STEP 7 TIA Portal configurable/integrated from version     V13 / V13       • STEP 7 configurable/integrated from version     V13 / V5 S SP3 / -       • PROFIBUS from GSD version/GSD revision     V1.0 / V5.1       • PROFINET from GSD version/GSD revision     V2.3 / -       Oberating mode     -       • DI     Yes       • Counter     No       • DQ     Yes       • DQ with energy-saving function     No       • PWM     No       • Oversampling     Yes       • MSO     Yes       Supply voltage     -       Rated value (DC)     24 V       permissible range, uper limit (DC)     28 V       Reverse polarity protection     Yes; through internal protection with 7 A per group       Input current     -       Current consumption, max.     30 mA       output voltage / heador     -       Rated value (DC)     24 V       Power     -       Power loss, typ.     3.45 W	Product function	
• Prioritized startup         Yes           Engineering with	• I&M data	Yes; I&M0 to I&M3
Engineering with <ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> <li>STEP 7 configurable/integrated from version</li> <li>V5.5 SP3 / -</li> </ul> <li>PROFIBUS from GSD version/GSD revision</li> <li>V1.0 / V5.1</li> <li>PROFINET from GSD version/GSD revision</li> <li>V2.3 / -</li> <li>Operating mode</li> <li>OD</li> <li>Yes</li> <li>Counter</li> <li>No</li> <li>DQ</li> <li>Yes</li> <li>OD with energy-saving function</li> <li>No</li> <li>Oversampling</li> <li>MSI</li> <li>Yes</li> <li>Supply voltage</li> <li>Rated value (DC)</li> <li>Permissible range, lower limit (DC)</li> <li>Permissible range, lower limit (DC)</li> <li>Permissible range, upper limit (DC)</li> <li>Pes V</li> <li>Reverse polarity protection</li> <li>Yes; through internal protection with 7 A per group</li> <li>Input current</li> <li>Current consumption, max.</li> <li>30 mA</li> <li>Cutput voltage / header</li> <li>Rated value (DC)</li> <li>Persitole from the backplane bus</li> <li>1.1 W</li> <li>Power loss, typ.</li> <li>3.45 W</li>	Isochronous mode	No
• STEP 7 TIA Portal configurable/integrated from version       V13 / V13         • STEP 7 configurable/integrated from version       V5.5 SP3 / -         • PROFIBUS from GSD version/GSD revision       V1.0 / V5.1         • PROFINET from GSD version/GSD revision       V2.3 / -         Operating mode          • DI       Yes         • Counter       No         • DQ       Yes         • DQ with energy-saving function       No         • PWM       No         • Oversampling       No         • MSI       Yes         • MSO       Yes         Supply voltage          Rated value (DC)       24 V         permissible range, lower limit (DC)       28.8 V         Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current       Current consumption, max.       30 mA         cutput voltage / header          Rated value (DC)       24 V         Power available from the backplane bus       1.1 W         Power loss, typ.       3.45 W	Prioritized startup	Yes
• STEP 7 configurable/integrated from versionV5.5 SP3 / -• PROFIBUS from GSD version/GSD revisionV1.0 / V5.1• PROFINET from GSD version/GSD revisionV2.3 / -Operating mode• DIYes• CounterNo• DQYes• DQ with energy-saving functionNo• PWMNo• OversamplingYes• MSIYes• MSOYes•	Engineering with	
• PROFIBUS from GSD version/GSD revision       V1.0 / V5.1         • PROFINET from GSD version/GSD revision       V2.3 / -         Operating mode          • DI       Yes         • Counter       No         • DQ       Yes         • DQ       Yes         • DQ       Yes         • DQ       Yes         • DQ with energy-saving function       No         • PWM       No         • Oversampling       No         • MSI       Yes         • MSO       Yes         Supply voltage          Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current          Current consumption, max.       30 mA         output voltage / header          Rated value (DC)       24 V         Power available from the backplane bus       1.1 W         Power loss       1.1 W	<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V13 / V13
• PROFINET from GSD version/GSD revision       V2.3 / -         Operating mode       Version/GSD revision/GSD revision         • DI       Yes         • Counter       No         • DQ       Yes         • DQ with energy-saving function       No         • PVVM       No         • Oversampling       No         • MSI       Yes         Supply voltage       Yes         Supply voltage       Yes         Rated value (DC)       24 V         permissible range, lower limit (DC)       28.8 V         Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current       Current consumption, max.         Cutrent voltage / header       30 mA         Power available from the backplane bus       1.1 W         Power loss, typ.       3.45 W	<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 / -
Operating mode       Yes         • DI       Yes         • Counter       No         • DQ       Yes         • DQ with energy-saving function       No         • PWM       No         • Oversampling       No         • MSI       Yes         • MSO       Yes         Supply voltage       Yes         Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current       30 mA         cutput voltage / header       24 V         Power available from the backplane bus       1.1 W         Power loss       1.1 W	<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	V1.0 / V5.1
• DIYes• CounterNo• DQYes• DQ with energy-saving functionNo• PWMNo• OversamplingNo• MSIYes• MSOYesSupply voltage24 VPermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VReverse polarity protectionYes; through internal protection with 7 A per groupInput currentCurrent consumption, max.output voltage / header24 VRated value (DC)24 VPower available from the backplane bus1.1 WPower loss, typ.3.45 W	<ul> <li>PROFINET from GSD version/GSD revision</li> </ul>	V2.3 / -
• CounterNo• DQYes• DQ with energy-saving functionNo• PWMNo• OversamplingNo• MSIYes• MSOYesSupply voltageYesRated value (DC)24 Vpermissible range, upper limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VReverse polarity protectionYes; through internal protection with 7 A per groupInput currentCurrent consumption, max.Output voltage / header30 mAPower24 VPower available from the backplane bus1.1 WPower loss, typ.3.45 W	Operating mode	
• DQYes• DQ with energy-saving functionNo• PWMNo• OversamplingNo• MSIYes• MSOYesSupply voltageYesRated value (DC)24 Vpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VReverse polarity protectionYes; through internal protection with 7 A per groupInput currentSo mAcurrent consumption, max.30 mAoutput voltage / header24 VPower available from the backplane bus1.1 WPower loss, typ.3.45 W	• DI	Yes
DQ with energy-saving functionNo• PVWMNo• OversamplingNo• MSIYes• MSOYesSupply voltage24 VRated value (DC)24 Vpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VReverse polarity protectionYes; through internal protection with 7 A per groupInput current30 mAcurrent consumption, max.30 mAoutput voltage / header24 VRated value (DC)24 VPower loss1.1 WPower loss, typ.3.45 W	Counter	No
<ul> <li>PWM</li> <li>Oversampling</li> <li>MSI</li> <li>Yes</li> <li>MSO</li> <li>Yes</li> <li>Supply voltage</li> <li>Rated value (DC)</li> <li>24 V</li> <li>permissible range, lower limit (DC)</li> <li>19.2 V</li> <li>permissible range, upper limit (DC)</li> <li>28.8 V</li> <li>Reverse polarity protection</li> <li>Yes; through internal protection with 7 A per group</li> <li>Input current</li> <li>Current consumption, max.</li> <li>30 mA</li> <li>output voltage / header</li> <li>Rated value (DC)</li> <li>24 V</li> <li>Power</li> <li>Power available from the backplane bus</li> <li>1.1 W</li> <li>Power loss, typ.</li> <li>3.45 W</li> </ul>	• DQ	Yes
• OversamplingNo• MSIYes• MSOYesSupply voltageVesRated value (DC)24 Vpermissible range, lower limit (DC)19.2 Vpermissible range, upper limit (DC)28.8 VReverse polarity protectionYes; through internal protection with 7 A per groupInput currentVCurrent consumption, max.30 mAoutput voltage / header24 VRated value (DC)24 VPower1.1 WPower loss, typ.3.45 W	<ul> <li>DQ with energy-saving function</li> </ul>	No
<ul> <li>MSI Yes</li> <li>MSO Yes</li> <li>Supply voltage</li> <li>Rated value (DC) 24 V</li> <li>permissible range, lower limit (DC) 19.2 V</li> <li>permissible range, upper limit (DC) 28.8 V</li> <li>Reverse polarity protection Yes; through internal protection with 7 A per group</li> <li>Input current</li> <li>Current consumption, max. 30 mA</li> <li>output voltage / header</li> <li>Rated value (DC) 24 V</li> <li>Power</li> <li>Power available from the backplane bus 1.1 W</li> <li>Power loss, typ. 3.45 W</li> </ul>	• PWM	No
MSO Yes Supply voltage Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes; through internal protection with 7 A per group Input current Current consumption, max. 30 mA output voltage / header Rated value (DC) 24 V Power Power Power vailable from the backplane bus 1.1 W Power loss, typ. 3.45 W	Oversampling	No
Supply voltage         Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current       Current consumption, max.         Current consumption, max.       30 mA         output voltage / header       24 V         Power       24 V         Power available from the backplane bus       1.1 W         Power loss, typ.       3.45 W	• MSI	Yes
Rated value (DC)       24 V         permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current       30 mA         Current consumption, max.       30 mA         output voltage / header       24 V         Power       24 V         Power available from the backplane bus       1.1 W         Power loss       3.45 W	• MSO	Yes
permissible range, lower limit (DC)       19.2 V         permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current       30 mA         current consumption, max.       30 mA         output voltage / header       24 V         Power       11.1 W         Power loss       1.1 W         Power loss, typ.       3.45 W	Supply voltage	
permissible range, upper limit (DC)       28.8 V         Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current       30 mA         Current consumption, max.       30 mA         output voltage / header       24 V         Power       1.1 W         Power loss       1.1 W         Power loss, typ.       3.45 W	Rated value (DC)	24 V
Reverse polarity protection       Yes; through internal protection with 7 A per group         Input current       30 mA         Output voltage / header       30 mA         Rated value (DC)       24 V         Power       1.1 W         Power loss       1.4 W         Power loss, typ.       3.45 W	permissible range, lower limit (DC)	19.2 V
Input current       30 mA         Output voltage / header       30 mA         Rated value (DC)       24 V         Power       24 V         Power available from the backplane bus       1.1 W         Power loss       3.45 W	permissible range, upper limit (DC)	28.8 V
Current consumption, max.     30 mA       output voltage / header     24 V       Rated value (DC)     24 V       Power     1.1 W       Power loss     1.1 W       Power loss, typ.     3.45 W	Reverse polarity protection	Yes; through internal protection with 7 A per group
output voltage / header         Rated value (DC)       24 V         Power         Power available from the backplane bus       1.1 W         Power loss       9000000000000000000000000000000000000	Input current	
Rated value (DC)     24 V       Power     Power available from the backplane bus     1.1 W       Power loss     90 wer loss     1.1 W       Power loss     3.45 W     3.45 W	Current consumption, max.	30 mA
Power       Power available from the backplane bus     1.1 W       Power loss     3.45 W	output voltage / header	
Power available from the backplane bus     1.1 W       Power loss     3.45 W	Rated value (DC)	24 V
Power loss         3.45 W	Power	
Power loss, typ. 3.45 W	Power available from the backplane bus	1.1 W
	Power loss	
Digital inputs	Power loss, typ.	3.45 W
	Digital inputs	

Number of digital inputs	16
Digital inputs, parameterizable	No
Source/sink input	P-reading
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Input voltage	
Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	+11 to +30V
Input current	
for signal "1", typ.	2.7 mA
Input delay (for rated value of input voltage)	2.7 117
for standard inputs	
— parameterizable	No
— at "0" to "1", min.	3 ms
— at "0" to "1", max.	4 ms
— at "1" to "0", min.	3 ms
— at "1" to "0", max.	4 ms
for interrupt inputs	4 1115
	No
— parameterizable Cable length	
shielded, max.	1 000 m
<ul> <li>sneided, max.</li> <li>unshielded, max.</li> </ul>	600 m
	000 m
Digital outputs	Transistor
Type of digital output	
Number of digital outputs	16
Current-sourcing	Yes
Digital outputs, parameterizable	No
Short-circuit protection	Yes
Response threshold, typ.	1A
Limitation of inductive shutdown voltage to	L+ (-53 V)
Controlling a digital input	Yes
Switching capacity of the outputs	0.5.4
with resistive load, max.	0.5 A
• on lamp load, max.	5 W
Load resistance range	40.0
lower limit	48 Ω
• upper limit	12 κΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	0.5.4
for signal "1" rated value	0.5 A
• for signal "1" permissible range, max.	0.5 A
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	400
• "0" to "1", max.	100 µs
• "1" to "0", max.	500 µs
Parallel switching of two outputs	Ver
• for logic links	Yes
• for uprating	No
for redundant control of a load	Yes
Switching frequency	100.11-
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
• on lamp load, max.	10 Hz
Total current of the outputs	
Current per channel, max.	0.5 A; see additional description in the manual
Current per group, max.	4 A; see additional description in the manual
Current per module, max.	8 A; see additional description in the manual
Cable length	
<ul> <li>shielded, max.</li> </ul>	1 000 m
<ul> <li>unshielded, max.</li> </ul>	600 m

Encoder	
Connectable encoders	
2-wire sensor	Yes
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	1.5 mA
Interrupts/diagnostics/status information	
Diagnostics function	No
Substitute values connectable	No
Alarms	INU
Diagnostic alarm	No
Maintenance interrupt	No
Hardware interrupt	No
	NU
Diagnoses	No
Monitoring the supply voltage	No
Wire-break     Shart aircuit	
Short-circuit	No
• Group error	No
Diagnostics indication LED	
	Yes; green LED
ERROR LED	Yes; red LED
Monitoring of the supply voltage (PWR-LED)	Yes; green LED
Channel status display	Yes; green LED
for channel diagnostics	No
for module diagnostics	No
Potential separation	
Potential separation channels	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels, in groups of</li> </ul>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	Yes; From FS03
Suitable for safety-related tripping of standard modules Ecological footprint	Yes; From FS03
	Yes; From FS03 Yes
Ecological footprint	Yes
Ecological footprint <ul> <li>environmental product declaration</li> </ul>	
Ecological footprint <ul> <li>environmental product declaration</li> <li>Global warming potential</li> <li>global warming potential, (total) [CO2 eq]</li> <li>global warming potential, (during production) [CO2</li> </ul>	Yes
Ecological footprint  • environmental product declaration Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]	Yes 18.9 kg 12.1 kg
Ecological footprint  • environmental product declaration Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2	Yes 18.9 kg
Ecological footprint • environmental product declaration Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq]	Yes 18.9 kg 12.1 kg 7.66 kg
Ecological footprint  • environmental product declaration Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2	Yes 18.9 kg 12.1 kg
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle)	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg
Ecological footprint • environmental product declaration Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq]	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle) [CO2 eq]  Highest safety class achievable for safety-related tripping of standard	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle) [CO2 eq]  Highest safety class achievable for safety-related tripping of standar  • Performance level according to ISO 13849-1	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle) [CO2 eq]  Highest safety class achievable for safety-related tripping of standa  • Performance level according to ISO 13849-1  • Category according to ISO 13849-1	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle) [CO2 eq]  Highest safety class achievable for safety-related tripping of standa  • Performance level according to ISO 13849-1  • SIL acc. to IEC 62061	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3 SIL 2
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq]  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	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3 SIL 2
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle) [CO2 eq]  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  product functions / security / header	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle) [CO2 eq]  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  product functions / security / header signed firmware update	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg and modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  — global warming potential, (after end of life cycle) [CO2 eq]  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  product functions / security / header  signed firmware update data integrity  Ambient conditions	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg and modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  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  product functions / security / header  signed firmware update data integrity  Ambient conditions  Ambient temperature during operation	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
Ecological footprint  • environmental product declaration  Global warming potential  — global warming potential, (total) [CO2 eq]  — global warming potential, (during production) [CO2 eq]  — global warming potential, (during operation) [CO2 eq]  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  product functions / security / header signed firmware update data integrity  Ambient conditions  Ambient temperature during operation • horizontal installation, min.	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg and modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632
Ecological footprint <ul> <li>environmental product declaration</li> <li>Global warming potential <ul> <li>global warming potential, (total) [CO2 eq]</li> <li>global warming potential, (during production) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (after end of life cycle) [CO2 eq]</li> </ul> </li> <li>Highest safety class achievable for safety-related tripping of standary of the cycle of the cy</li></ul>	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632 No No No
Ecological footprint <ul> <li>environmental product declaration</li> <li>Global warming potential <ul> <li>global warming potential, (total) [CO2 eq]</li> <li>global warming potential, (during production) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (after end of life cycle) [CO2 eq]</li> </ul> </li> <li>Highest safety class achievable for safety-related tripping of standare evel according to ISO 13849-1</li> <li>Category according to ISO 13849-1</li> <li>SIL acc. to IEC 62061</li> <li>remark on safety-oriented shutdown</li> </ul> <li>product functions / security / header <ul> <li>signed firmware update</li> <li>data integrity</li> </ul> </li> <li>Ambient temperature during operation <ul> <li>horizontal installation, min.</li> <li>horizontal installation, min.</li> </ul> </li>	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg and modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632 
Ecological footprint         • environmental product declaration         Global warming potential	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632 No No No
Ecological footprint <ul> <li>environmental product declaration</li> <li>Global warming potential</li> <li>global warming potential, (total) [CO2 eq]</li> <li>global warming potential, (during production) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (after end of life cycle) [CO2 eq]</li> </ul> Highest safety class achievable for safety-related tripping of standare Performance level according to ISO 13849-1 <ul> <li>Category according to ISO 13849-1</li> <li>SIL acc. to IEC 62061</li> <li>remark on safety-oriented shutdown</li> </ul> product functions / security / header <ul> <li>signed firmware update</li> <li>data integrity</li> </ul> Ambient conditions <ul> <li>Ambient temperature during operation</li> <li>horizontal installation, min.</li> <li>vertical installation, max.</li> <li>vertical installation, max.</li> </ul>	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg and modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632 No No No No
Ecological footprint <ul> <li>environmental product declaration</li> <li>Global warming potential</li> <li>global warming potential, (total) [CO2 eq]</li> <li>global warming potential, (during production) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (after end of life cycle) [CO2 eq]</li> </ul> Highest safety class achievable for safety-related tripping of standare Performance level according to ISO 13849-1 <ul> <li>Category according to ISO 13849-1</li> <li>SIL acc. to IEC 62061</li> <li>remark on safety-oriented shutdown</li> </ul> product functions / security / header <ul> <li>signed firmware update</li> <li>data integrity</li> </ul> Ambient temperature during operation <ul> <li>horizontal installation, min.</li> <li>vertical installation, max.</li> <li>vertical installation, max.</li> </ul> Attitude during operation relating to sea level <ul> <li>Installation altitude above sea level, max.</li> </ul>	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg and modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632 
Ecological footprint <ul> <li>environmental product declaration</li> <li>Global warming potential</li> <li>global warming potential, (total) [CO2 eq]</li> <li>global warming potential, (during production) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (after end of life cycle) [CO2 eq]</li> </ul> Highest safety class achievable for safety-related tripping of standa <ul> <li>Performance level according to ISO 13849-1</li> <li>Category according to ISO 13849-1</li> <li>SIL acc. to IEC 62061</li> <li>remark on safety-oriented shutdown</li> </ul> <b>product functions / security / header</b> <ul> <li>signed firmware update</li> <li>data integrity</li> </ul> <b>Ambient temperature during operation</b> <ul> <li>horizontal installation, min.</li> <li>vertical installation, max.</li> <li>vertical installation, max.</li> </ul> Altitude during operation relating to sea level <ul> <li>Installation altitude above sea level, max.</li> </ul>	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg and modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632 No No No No So C; from FS04 60 °C -30 °C; from FS04 40 °C 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Ecological footprint <ul> <li>environmental product declaration</li> <li>Global warming potential</li> <li>global warming potential, (total) [CO2 eq]</li> <li>global warming potential, (during production) [CO2 eq]</li> <li>global warming potential, (during operation) [CO2 eq]</li> <li>global warming potential, (after end of life cycle) [CO2 eq]</li> </ul> Highest safety class achievable for safety-related tripping of standare Performance level according to ISO 13849-1 <ul> <li>Category according to ISO 13849-1</li> <li>SIL acc. to IEC 62061</li> <li>remark on safety-oriented shutdown</li> </ul> product functions / security / header <ul> <li>signed firmware update</li> <li>data integrity</li> </ul> Ambient temperature during operation <ul> <li>horizontal installation, min.</li> <li>vertical installation, max.</li> <li>vertical installation, max.</li> </ul> Attitude during operation relating to sea level <ul> <li>Installation altitude above sea level, max.</li> </ul>	Yes 18.9 kg 12.1 kg 7.66 kg -1.02 kg and modules PL d Cat. 3 SIL 2 https://support.industry.siemens.com/cs/de/en/view/39198632 No No No No

Depth	129 mm
Weights	
Weight, approx.	280 g
Other	
Note:	Supplied incl. 40-pole push-in front connectors
	- <b>1</b>

last modified:

10/9/2024 🖸