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,

Product type designation	General information	
Firmware version FW update possible Product function IMM data Isochronous mode Prioritized startup Prioritized startup STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version FROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision Derating mode DI Yes Counter No DQ Yes DQ With energy-saving function PWM No Oversampling No MSI Yes MSO Yes Supply votage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Ave: through internal protection with 7 A per group input current Current consumption, max. 30 mA output votage / header Rated value (DC) Power available from the backplane bus Power Power available from the backplane bus Power loss, typ. 3.45 W	Product type designation	DI 16x24VDC / DQ16x24VDC/0.5A BA
Product function • I&M data Yes; I&M0 to I&M3 • Isochronous mode No • Prioritized startup Yes Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 configurable/integrated from version • PROFIBUS from GSD version/GSD revision • PROFIBUS from GSD version/GSD revision • DI • Counter • DI • Counter • DQ • DQ with energy-saving function • PWM • Oversampling • MSO • PWM • MSO • Pes Supply voltage Rated value (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max output voltage / header Rated value (DC) Rated value (DC) Power Rated value (DC) Power Power available from the backplane bus Power loss, typ. 3.45 W	HW functional status	From FS01
Product function • I&M data • Isochronous mode • Prioritized startup Pres Engineering with • STEP 7 TIA Portal configurable/integrated from version • STEP 7 configurable/integrated from version • PROFIBUS from GSD version/CSD revision • PROFINET from GSD version/CSD revision • PROFINET from GSD version/GSD revision • PROFINET from GSD version/	Firmware version	V1.0.0
I I I I I I I I I I I I I I I I I I I	FW update possible	Yes
● Isochronous mode ● Prioritized startup Engineering with ● STEP 7 TIA Portal configurable/integrated from version ● STEP 7 To Portal configurable/integrated from version ● STEP 7 toorfigurable/integrated from version ● STEP 7 toorfigurable/integrated from version ● PROFIBUS from GSD version/GSD revision ● DI ● Yes ● Counter ● DI ● Yes ● Counter ● DQ ● Yes ● DQ with energy-saving function ● PWM ● Oversampling ● MSI ● MSI ● Yes ● MSO ● Yes Supply voltage Rated value (DC) ■ 24 V ■ permissible range, lower limit (DC) ■ 28.8 V ■ Reverse polarity protection ■ Input current Current consumption, max. ■ 30 mA output voltage / header Rated value (DC) ■ 24 V ■ Power Valiage Limit VC) ■ Average Valiage Limit VC) ■ Current consumption, max. ■ 30 mA output voltage / header Rated value (DC) ■ 24 V ■ Power Valiage Limit VC) ■ Average Valiage Limit VC Limit	Product function	
Prioritized startup Prioritized startup Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision Operating mode DI Yes Counter No DQ Yes DQ With energy-saving function No PWM No Oversampling No MSI SMSI Yes MSO Yes Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Prover rated value (DC) Pest Strough internal protection with 7 A per group Puput current Current consumption, max. Output voltage / hoader Rated value (DC) Power Power valiable from the backplane bus Power loss, typ. 3.45 W Power loss, typ. 3.45 W	• I&M data	Yes; I&M0 to I&M3
Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFIBUT from GSD	 Isochronous mode 	No
STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision 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) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Permissible range pupper limit (DC) Permit consumption, max. Output voltage / header Rated value (DC) Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	Prioritized startup	Yes
STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision V2.3 / - Operating mode DI Counter DQ Yes DQ Yes DQ with energy-saving function PWM NO Oversampling MSI MSI Yes MSO Yes MSO Yes Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Permissible range, lower limit (DC) Permissible range, lower limit (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, lower limit	Engineering with	
	 STEP 7 TIA Portal configurable/integrated from version 	V13 / V13
	 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
Operating mode ODI ODI ODI ODI ODI ODI ODI ODI ODI OD	 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
DI Counter Counter No DQ Yes DQ with energy-saving function No PWM No Oversampling No MSI MSO Yes MSO Yes Supply voltage Rated value (DC) Permissible range, lower limit (DC) 19.2 V Permissible range, upper limit (DC) 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 Rated value (DC) 30 mA Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	PROFINET from GSD version/GSD revision	V2.3 / -
Counter DQ Yes DQ with energy-saving function No PWM No Oversampling No MSI MSI Yes MSO Yes MSO Yes Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) 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 available from the backplane bus 1.1 W Power loss, typ. 3.45 W	Operating mode	
DQ PDQ with energy-saving function PWM No Oversampling No MSI MSO Yes MSO Yes Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 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 available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	• DI	Yes
DQ with energy-saving function PWM No Oversampling No MSI MSI MSO Yes MSO Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, lower lim	Counter	No
PWM Oversampling No Oversampling MSI 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 available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	• DQ	Yes
Oversampling MSI MSO Yes MSO Yes Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 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 available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	 DQ with energy-saving function 	No
MSI MSO MSO Yes Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Output voltage / header Rated value (DC) Power Power available from the backplane bus Power loss Power loss, typ. Yes 24 V Poss Yes 24 V 1.1 W Power loss Power loss, typ. 3.45 W	• PWM	No
MSO Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Output voltage / header Rated value (DC) Power Power available from the backplane bus Power loss Power loss, typ. Yes 24 V Yes yes yes yes yes yes yes yes	 Oversampling 	No
Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Output voltage / header Rated value (DC) Power Power available from the backplane bus Power loss Power loss, typ. 24 V 24 V 24 V 24 V 24 V 25 V 26 V 26 V 27 V 28 S V 28 S V 28 S V 28 S V 29 S S V 20 S S S S S S S S S S S S S S S S S S S	• MSI	Yes
Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Output voltage / header Rated value (DC) Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 34 V	• MSO	Yes
permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Input current Current consumption, max. Output voltage / header Rated value (DC) Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	Supply voltage	
permissible range, upper limit (DC) 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) Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	Rated value (DC)	24 V
Reverse polarity protection Input current Current consumption, max. Output voltage / header Rated value (DC) Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	permissible range, lower limit (DC)	19.2 V
Input current Current consumption, max. 30 mA output voltage / header Rated value (DC) 24 V Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	permissible range, upper limit (DC)	28.8 V
Current consumption, max. 30 mA output voltage / header Rated value (DC) 24 V Power Power available from the backplane bus 1.1 W Power loss 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 Power loss, typ. 3.45 W	Input current	
Rated value (DC) Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	Current consumption, max.	30 mA
Power Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	output voltage / header	
Power available from the backplane bus 1.1 W Power loss Power loss, typ. 3.45 W	Rated value (DC)	24 V
Power loss Power loss, typ. 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	

	10
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)	
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	
— parameterizable	No
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	16
Current-sourcing	Yes
Digital outputs, parameterizable	No
Short-circuit protection	Yes
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-53 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
with resistive load, max.	0.5 A
• on lamp load, max.	5 W
Load resistance range	
lower limit	48 Ω
• upper limit	12 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
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	
• "0" to "1", max.	100 μs
• "1" to "0", max.	500 µs
Parallel switching of two outputs	
• for logic links	Yes
• for uprating	No
for redundant control of a load	Yes
Switching frequency	
with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
on lamp load, max.	10 Hz
Total current of the outputs	10112
Current per channel, max.	0.5 A; see additional description in the manual
Current per group, max. Current per module, max.	4 A; see additional description in the manual
Current per module, max. Cable length	8 A; see additional description in the manual
Cable length	1 000 m
shielded, max.	1 000 m
• unshielded, max.	600 m

Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Diagnostics function	No
Substitute values connectable	No
Alarms	
Diagnostic alarm	No
Maintenance interrupt	No
Hardware interrupt	No
Diagnoses	
Monitoring the supply voltage	No
Wire-break	No
Short-circuit	No
Group error	No
Diagnostics indication LED	
• RUN 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	
between the channels	No
 between the channels, in groups of 	8
between the channels and backplane bus	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	Yes; From FS03
Ecological footprint	
Ecological footprint • environmental product declaration	Yes
-	Yes
environmental product declaration Global warming potential	
environmental product declaration	Yes 18.9 kg 12.1 kg
environmental product declaration Global warming potential — global warming potential, (total) [CO2 eq]	18.9 kg
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	18.9 kg
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]	18.9 kg 12.1 kg 7.66 kg
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]	18.9 kg 12.1 kg 7.66 kg -1.02 kg
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 standards.	18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules
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 Performance level according to ISO 13849-1	18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d
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 stand. Performance level according to ISO 13849-1 Category according to ISO 13849-1	18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3
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 Performance level according to ISO 13849-1	18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standard endors according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown	18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standard endors according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061	18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3 SIL 2
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standard endors according to ISO 13849-1 • Category according to ISO 13849-1 • SIL acc. to IEC 62061 • remark on safety-oriented shutdown	18.9 kg 12.1 kg 7.66 kg -1.02 kg ard modules PL d Cat. 3 SIL 2
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 stand. • 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	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
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of stand. • 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	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
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of stand. • 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	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
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standard experimental evel 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	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
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standal endowed 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	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
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of stand. • 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.	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
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of stand. • 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. • horizontal installation, max.	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
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standard endorse 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. • horizontal installation, min. • vertical installation, min.	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 C; from FS04 60 °C -30 °C; from FS04
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standard endowed 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. • vertical installation, min. • vertical installation, max.	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 C; from FS04 60 °C -30 °C; from FS04
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standard endowed 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. • horizontal installation, min. • vertical installation, min. • vertical installation, max. Altitude during operation relating to sea level	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 C; from FS04 60 °C -30 °C; from FS04 40 °C
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of standard endowed 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. • vertical installation, min. • vertical installation, min. • vertical installation, max. Altitude during operation relating to sea level • Installation altitude above sea level, max.	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 C; from FS04 60 °C -30 °C; from FS04 40 °C
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] — global warming potential, (after end of life cycle) [CO2 eq] Highest safety class achievable for safety-related tripping of stand. • 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. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Altitude during operation relating to sea level • Installation altitude above sea level, max. Dimensions	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 -30 °C; from FS04 60 °C -30 °C; from FS04 40 °C 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual

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

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