Technical specifications

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Technical specifications of the DQ 8x230VAC/2A ST

	6ES7522-5FF00-0AB0
Product type designation	DQ 8x230VAC/2A ST (Triac)
General information	
Hardware version	E01
Firmware version	V2.0.0
Product function	
I&M data	Yes; IM0 to IM3
Engineering with	
STEP 7 TIA Portal can be configured/integrated as of version	V12.0 / V12.0
STEP 7 can be configured/integrated as of version	as of V5.5 SP3 / -
Operating mode	
MSO	Yes
Output voltage	
Rated value (AC)	120/230 V AC; 50/60Hz
Power	
Power consumption from the backplane bus	0.9 W
Power loss	
Power loss, typ.	10.8 W
Digital outputs	
Type of digital output	Triac
Number of outputs	8
Switching to P potential	Yes
Digital outputs, configurable	Yes
Short-circuit protection	No
Switching capacity of outputs	
With resistive load, max.	2 A
With lamp load, max.	50 W
Output voltage	
Type of output voltage	AC
for signal "1", min.	L1 (-1.5 V) at maximum output current; L1 (-8.5 V) at minimum output current

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Output current	
for signal "1" rated value	2 A
for signal "1" permissible range, min.	10 mA
for signal "1" permissible range, max.	15 A; (for max. 1 AC cycle)
for signal "0" residual current, max.	2 mA
Output delay with resistive load	
"0" to "1", max.	1 AC cycle
"1" to "0", max.	1 AC cycle
Parallel switching of 2 outputs	
For logic operations	No
For increased performance	No
For redundant control of a load	Yes
Switching frequency	
With resistive load, max.	10 Hz
With inductive load, max.	0.5 Hz
With lamp load, max.	1 Hz
Total current of outputs	
Max. current per channel	2 A; (see additional description in the manual)
Max. current per group	2 A; (see additional description in the manual)
Max. current per module	10 A; (see additional description in the manual)
Triac outputs	
Size of motor starter according to NEMA, max.	5
Cable length	
Cable length shielded, max.	1000 m
Cable length unshielded, max.	600 m
Isochronous mode	
Isochronous mode (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Substitute values can be applied	Yes
Interrupts	
Diagnostics interrupt	No
Diagnostics alarms	
Diagnostics	No
Monitoring of supply voltage	No
Wire break	No
Short-circuit	No
Fuse blown	No

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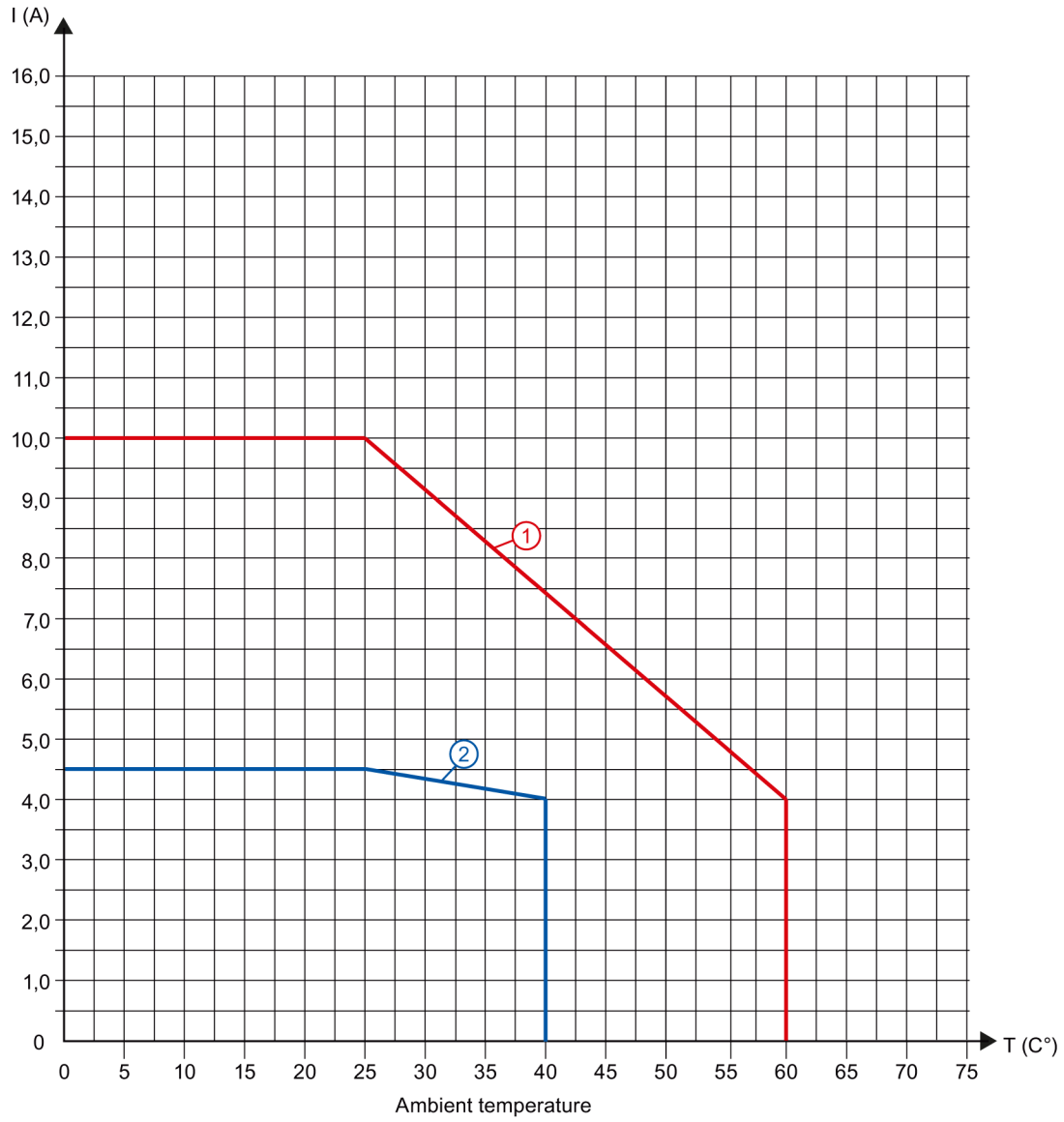
Diagnostics indicator LED	
RUN LED	Yes; green LED
ERROR LED	Yes; red LED
Monitoring of supply voltage	No
Channel status display	Yes; green LED
For channel diagnostics	No
For module diagnostics	Yes; red LED
Electrical isolation	
Electrical isolation of channels	
Between the channels	Yes
Between the channels, in groups of	1
Between the channels and the backplane bus	Yes
between the channels and the load voltage L1	Yes
Permitted potential difference	
Between different circuits	250 V AC between the channels and the back-plane bus; 500 V AC between the channels
Isolation	
Isolation tested with	2500 V DC
Distributed mode	
Prioritized startup	Yes
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	290 g

Power reduction (derating) to aggregate current of outputs (per module)

The following graphs show the loading capacity of the outputs in relation to the mounting position and the ambient temperature.



① Horizontal mounting position
② Vertical mounting position

Figure 6-1 Details on aggregate current of outputs (per module)

Dimensional drawing

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The dimensional drawing of the module on the mounting rail, as well as a dimensional drawing with open front cover, are provided in the appendix. Always observe the specified dimensions for installations in cabinets, control rooms, etc.

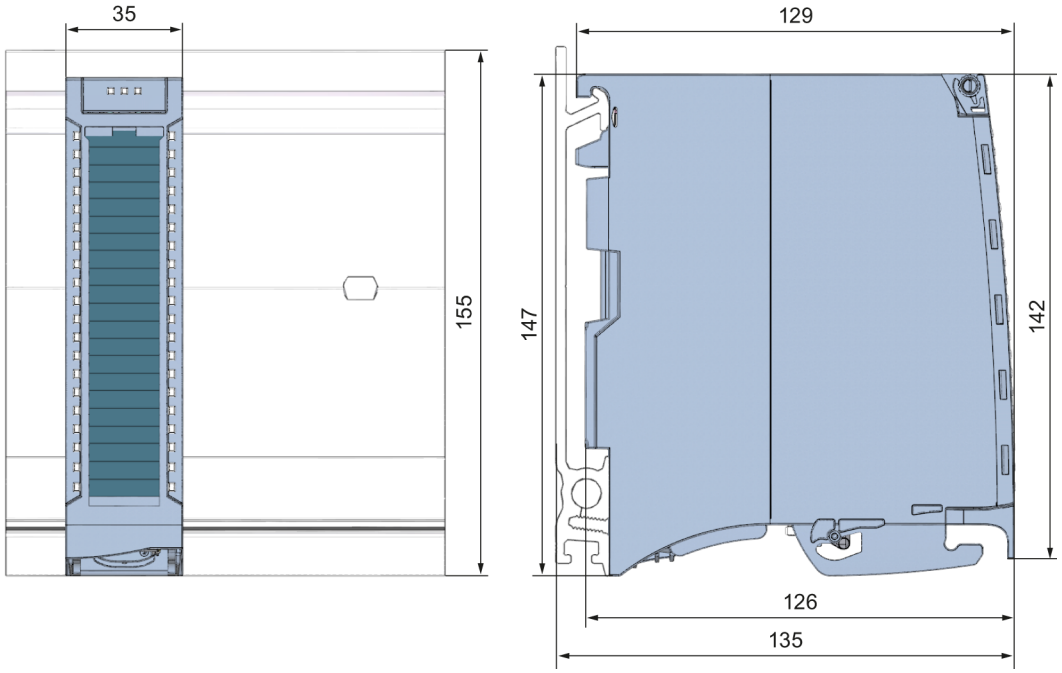

Figure A-1 Dimensional drawing of the DQ 8x230VAC/2A ST module

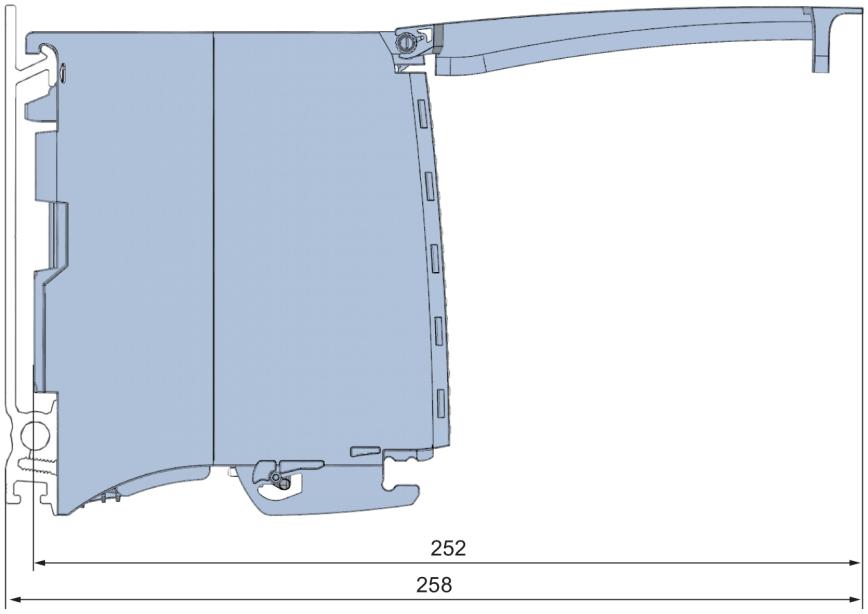

Figure A-2 Dimensional drawing of the DQ 8x230VAC/2A ST module, side view with open front cover