

Data sheet
SM 321 (321-1FH00)
Technical data

Order no.	321-1FH00
Type	SM 321
General information	
Note	-
Features	16x DI, in groups of 4 AC 120/230 V For 20 pole front connector
SPEED-Bus	-
Current consumption/power loss	
Current consumption from backplane bus	35 mA
Power loss	5 W
Technical data digital inputs	
Number of inputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	AC 120/230 V
Current consumption from load voltage L+ (without load)	-
Rated value	AC 120/230 V
Input voltage for signal "0"	AC 0...40 V
Input voltage for signal "1"	AC 79...264 V
Input voltage hysteresis	-
Frequency range	47...63 Hz
Input resistance	-
Input current for signal "1"	7 mA
Connection of Two-Wire-BEROs possible	yes
Max. permissible BERO quiescent current	1.5 mA
Input delay of "0" to "1"	25 ms
Input delay of "1" to "0"	25 ms
Number of simultaneously utilizable inputs horizontal configuration	16
Number of simultaneously utilizable inputs vertical configuration	16
Input characteristic curve	-
Initial data size	2 Byte
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	no
Diagnostics information read-out	none
Supply voltage display	none

Group error display	none
Channel error display	none

Isolation

Between channels	yes
Between channels of groups to	4
Between channels and backplane bus	yes
Insulation tested with	DC 4000 V

Datasizes

Input bytes	2
Output bytes	0
Parameter bytes	0
Diagnostic bytes	0

Housing

Material	PPE
Mounting	Rail System 300

Mechanical data

Dimensions (WxHxD)	40 mm x 125 mm x 120 mm
Net weight	240 g
Weight including accessories	-
Gross weight	-

Environmental conditions

Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

Certifications

UL certification	yes
KC certification	yes