



SIPLUS ET200S EM 8 DI DC24V -40 ... +70 DEGREES C
BASED ON 6ES7131-4BF50-0AA0

Supply voltage

24 V DC	Yes ; From power module
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes

Input current

from supply voltage L+, max.	Dependent on encoder
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Power loss

Power loss, typ.	1.2 W
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Digital inputs

Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes

Input voltage

Type of input voltage	DC
Rated value, DC	24 V
for signal "0"	30 to -5 V
for signal "1"	-15 to -30 V

Input current

for signal "1", typ.	6 mA ; at 24 V
Input delay (for rated value of input voltage)	
for standard inputs	
parameterizable	No
at "0" to "1", min.	2 ms
at "0" to "1", max.	4.5 ms
at "1" to "0", min.	2 ms
at "1" to "0", max.	4.5 ms
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
permissible quiescent current (2-wire sensor), max.	1.5 mA
Isochronous mode	
Isochronous mode (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Diagnostic messages	
Diagnostic functions	No
Diagnostics indication LED	
Group error SF (red)	No
Status indicator digital input (green)	Yes ; per channel
Parameter	
Remark	3 byte
Galvanic isolation	
Galvanic isolation digital inputs	
between the channels	No
between the channels and the backplane bus	Yes
Permissible potential difference	
between different circuits	75 VDC / 60 VAC
Isolation	
Isolation tested with	500 V DC
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Extended ambient conditions	

relative to ambient temperature-atmospheric pressure- installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Relative humidity	
with condensation, maximum	100 % ; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance	
to biologically active substances/conformity with EN 60721-3-3	Yes ; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!
to chemically active substances/conformity with EN 60721-3-3	Yes ; Class 3C4 incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!
to mechanically active substances/conformity with EN 60721-3-3	Yes ; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
min.	-40 °C ; = Tmin
max.	70 °C ; = Tmax
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	35 g
Status	Jul 27, 2014