



SIPLUS S7-300 SM336F 6AI HART FOR MEDIAL STRESS
WITH CONFORMAL COATING BASED ON 6ES7336-
4GE00-0AB0

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from backplane bus 5 V DC, max.	90 mA
from supply voltage L+, max.	150 mA ; Typical
Power loss	
Power loss, typ.	4.5 W
Analog inputs	
Number of analog inputs	6
permissible input current for current input (destruction limit), max.	40 mA
Input ranges	
Voltage	No
Current	Yes
Input ranges (rated values), currents	
0 to 20 mA	Yes
Input resistance (0 to 20 mA)	150 Ω ; typ. 150 ohms max. 175 ohms

4 to 20 mA	Yes
Input resistance (4 to 20 mA)	150 Ω ; typ. 150 ohms max. 175 ohms
Cable length	
Cable length, shielded, max.	1000 m
Analog value generation	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit ; 15 bits + sign
Integration time, ms	20 at 50 Hz 16.7 at 60 Hz
Interference voltage suppression for interference frequency f1 in Hz	$f=n \times (f1\pm 0.5\%)$
Encoder	
Connection of signal encoders	
for current measurement as 2-wire transducer	Yes
for current measurement as 4-wire transducer	Yes
Errors/accuracies	
Operational error limit in overall temperature range	
Current, relative to input area, (+/-)	0.2 % ; 40 µA
Basic error limit (operational limit at 25 °C)	
Current, relative to input area, (+/-)	0.1 %
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	Yes
Diagnostic messages	
Diagnostic functions	Yes
Diagnostic information readable	Yes
Diagnostics indication LED	
Fail-safe operation	Yes
Group error SF (red)	Yes
Monitoring 24 V voltage supply ON (green)	No
Galvanic isolation	
Galvanic isolation analog inputs	
between the channels	Yes
between the channels and the backplane bus	Yes
between the channels and the power supply of the electronics	Yes
Isolation	
Isolation tested with	370V for 1 min
Standards, approvals, certificates	
CE mark	Yes

KC approval	Yes
UL approval	Yes ; File E239877
RCM (former C-TICK)	Yes
FM approval	Yes
EAC (former Gost-R)	Yes
Highest safety class achievable in safety mode	
acc. to DIN V 19250	old
acc. to EN 954	4
acc. to IEC 61508	SIL 3
Ambient conditions	
Operating temperature	
min.	0 °C ; = Tmin
max.	60 °C ; = Tmax
Extended ambient conditions	
relative to ambient temperature-atmospheric pressure-installation altitude	Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m)
Relative humidity	
with condensation, tested in accordance with IEC 60068-2-38, maximum	100 % ; RH incl. condensation/frost (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 (RH < 75%) 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!
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	350 g
Status	Jul 21, 2014