SIEMENS

Data sheet

6ES7288-1SR40-0AA0

*** spare part *** SIMATIC S7-200 SMART, CPU SR40, CPU, AC/DC/relay, onboard I/O: 24 DI 24 V DC; 16 DO relay 2 A; power supply: AC 85-264 V AC at 47-63 Hz, program/data memory 40 KB

Cereari Information Product type designation CPU SR40 AC/DC/Relay Engineering with Programming package Installation type/impuriting Rail mounting Rail mounting Yes, Standard - DIN rail Supply voltage Railed value (AC) - 120 V AC - 230 V AC - 250 V AC -		47-63 Hz, program/data memory 40 KB
Engineering with Programming package STEP 7 MicroWiN SMART Institution typermounting Rail mounting Rail mounting Yes; Standard - DIN rail Supply votage Rated value (AC) 120 V AC 230 V AC Pes permissible range, lower limit (AC) permissible range, upper limit	General information	
Programming package		CPU SR40 AC/DC/Relay
Rail munting Yes, Standard - DIN rail Rail munting Yes, Standard - DIN rail Supply voltage Rated value (AC) • 120 V AC Yes • 230 V AC Yes • 256 V Experissible range, lower limit (AC) • permissible range, upper limit • 47 Hz • permissible range, upper limit • 53 Hz Input current Current consumption (rated value) Current consumption, max. • 100 mA; at 240 V AC Current consumption, max. • 103 A; at 264 V Cutpert consumption, max. • 103 A; at 264 V Cutput current Current output, max. • 103 A; at 264 V Cutput current Current output, max. • 104 A; max. 5 V DC for EM bus Power loss Power loss Power loss Power loss, max. 2 3 W Memory Type of memory Type of memory Type of memory DR Rash Yes RAM Yes Memory available for user data Memory variable for user data 16 ktyte Poyen berson Yes; Maintenance free, RTC requires 7 days. CPU processing times of brit operations, typ. 150 ns; / instruction Address area In puts In puts In 44 byte: 256 bit of digital inputs & 56 words of analog outputs Time of day Clock • Type Hardware clock (real-time) • Backup time 7 d Power for digital inputs Ves Backup timputs Ves Number of digital inputs Ves Ves within 120 s/month at 25 °C Digital inputs Ves Ves within 120 s/month at 25 °C Digital inputs Ves Ves within 120 s/month at 25 °C Digital inputs Ves Ves in the requires of the control of the control of digital inputs Ves Ves within 120 s/month at 25 °C Digital inputs Ves Ves Ves Ves Ves Ves Ves V	Engineering with	
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Supply voitage	Installation type/mounting	
Rated value (AC) • 120 V AC • 120 V AC • 230 V AC Yes permissible range, Lower limit (AC) permissible range, Lower limit (AC) • 264 V Line frequency • permissible range, Lower limit • Permissible rang	Rail mounting	Yes; Standard - DIN rail
• 120 V AC	Supply voltage	
• 230 V AC permissible range, lower limit (AC) permissible range, upper limit (AC) Line frequency • permissible range, upper limit (AC) Line frequency • permissible range, lower limit • permissible range, lower limit • permissible range, upper limit 63 Hz Lingut current Current consumption (rated value) Current consumption (rated value) Current consumption, max. 300 mA; At 120 V AC Linush current, max. 0 16.3 A; at 264 V Output current Current output, max. 500 mA; 24 V DC Sensor Power for backplane bus (6 V DC), max. 1.4 A; max. 5 V DC for EM bus Power loss Power loss, max. Momory Type of memory DDR Flash Yes RAM Yes RAM Yes Memory variable for user data Memory variable for user data Memory size 2 k byte; Program memory Micro Memory Card Backup • present Yes; Maintenance free, RTC requires 7 days. CPU processing times for bit operations, typ. 150 ns; /instruction Address area I/O addre	Rated value (AC)	
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permissible range, upper limit (AC) Line frequency • permissible range, lower limit • permissible range, poper limit 147 Hz • permissible range, upper limit 63 Hz Input current Current consumption (rated value) 190 mA; at 240 V AC Current consumption, max. 16.3 A; at 264 V Outpert current Current output, max. 900 mA; 24 V DC Sensor Power for backplane bus (5 V DC), max. 7 brower loss Power l	• 230 V AC	Yes
Line frequency • permissible range, lower limit • permissible range, upper limit 63 Hz Input current Current consumption, max. 16.3 A; at 264 V Output current Current output, max. 300 mA; At 120 V AC Inrush current, max. 300 mA; 24 V DC Sensor Power Gorbackplane bus (5 V DC), max. 1.4 A; max. 5 V DC for EM bus Power loss, max. 23 W Memory Type of memory DDR Flash Yes RAMI Yes Memory available for user data Memory size 16 kbyte Memory Card Backup • present Present Yes; Maintenance free, RTC requires 7 days. CPU processing times for bit operations, typ. 150 ns; / instruction 1 or word operations, typ. 1 or floating point arithmetic, typ. 3.6 µs; / instruction Address area • Inputs • Inputs • Inputs • Insurance free, RTC requires 8 6 words of analog inputs • Inputs • Upper Hardware clock (real-lime) • Hardware clock, no battery backup • Pres • Backup time 7 d • Deviation per day, max. 120 s; within 120 s/month at 25 °C Digital inputs Number of digital inputs 74; Instruction 150 s; within 120 s/month at 25 °C Digital inputs Number of digital inputs	permissible range, lower limit (AC)	85 V
permissible range, lower limit put current Current consumption (rated value) Current consumption, max. 10.30 m/x, 4.120 V.AC Inrush current, max. Output current Current output, max. Output current Current output, max. 300 m/x, 24 V.DC Sensor Power for backplane bus (5 V.DC), max. Power loss, Power loss, max. 1.4 A; max. 5 V.DC for EM bus Power loss, max. Memory Type of memory Flash Yes RAM Yes Memory salable for user data Memory salable for user data Memory salable for user data Memory size 4 k.byte; Program memory Present Yes; microSDHC Card (optional) Backup present Yes; Maintenance free, RTC requires 7 days. CPU processing times for bid operations, typ. for bid operations, typ. for lot operations, t	permissible range, upper limit (AC)	264 V
permissible range, upper limit Input current	Line frequency	
Input current Current consumption (rated value) Current consumption, max. 190 mA; at 240 V AC 100 mA; at 240 V AC 1	permissible range, lower limit	47 Hz
Current consumption (rated value) Current consumption, max. 300 mA; At 120 V AC Inrush current, max. Current output, max. 500 mA; 24 V DC Sensor Power for backplane bus (6 V DC), max. Power loss. Power loss, max. 23 W Memory Type of memory DDR Flash Yes RAM Yes Memory available for user data Micro Memory Card Backup • present CPU processing times for bit operations, typ. for bid operations, typ. for fooling point arithmetic, typ. Atdress area I/O address clock, no battery backup I/O beviation per day, max. Jon max.	permissible range, upper limit	63 Hz
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Power loss, max. Power loss, max. Memory	·	
Power loss, max. Memory		1.47%, Max. 6 V B6 for EW 800
Type of memory Type of memory Flash Flash Pes RAM Pes RAM Memory available for user data Memory size 24 kbyte; Program memory Micro Memory Card Persent Persent Processing times For bit operations, typ. 150 ns; / instruction for word operations, typ. 12 µs; / instruction for floating point arithmetic, typ. 3.6 µs; / instruction Address area I/O		23 \\
Type of memory Flash Yes RAM Yes Memory available for user data 16 kbyte Memory size 24 kbyte; Program memory Micro Memory Card Present Yes; microSDHC Card (optional) Backup Present Yes; Maintenance free, RTC requires 7 days. CPU processing times for bit operations, typ. 150 ns; / instruction for word operations, typ. 12 μs; / instruction Address area I/O address area I/O address area I/O address area Pupts 144 byte; 256 bit of digital inputs & 56 words of analog inputs Outputs Time of day Clock Type Hardware clock, no battery backup Hardware clock (real-time) Pes Backup Pes Pes Pes Pes Pes Pes Pes Pe		25 VV
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Time of day Clock Type Hardware clock, no battery backup Hardware clock (real-time) Yes Backup time Deviation per day, max. Digital inputs Number of digital inputs 24; Integrated	•	
Clock Type Hardware clock, no battery backup Hardware clock (real-time) Backup time Deviation per day, max. To be digital inputs Number of digital inputs Yes 120 s; within 120s/month at 25 °C		144 byte; 256 bit of digital outputs & 56 words of analog outputs
 Type Hardware clock, no battery backup Hardware clock (real-time) Backup time Deviation per day, max. Deviation per day, max. Digital inputs Number of digital inputs 24; Integrated 	Time of day	
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 Backup time Deviation per day, max. Digital inputs Number of digital inputs 7 d 120 s; within 120s/month at 25 °C Digital inputs 24; Integrated 	• Type	Hardware clock, no battery backup
 Deviation per day, max. Digital inputs Number of digital inputs 24; Integrated 	 Hardware clock (real-time) 	Yes
Digital inputs Number of digital inputs 24; Integrated	Backup time	7 d
Number of digital inputs 24; Integrated	 Deviation per day, max. 	120 s; within 120s/month at 25 °C
	Digital inputs	
• of which inputs usable for technological functions 4; HSC (High Speed Counting)	Number of digital inputs	24; Integrated
	 of which inputs usable for technological functions 	4; HSC (High Speed Counting)

Source/sink input	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	24
Input voltage	
 Rated value (DC) 	24 V
• for signal "0"	5 V DC at 1 mA
• for signal "1"	15 V DC at 2.5 mA
Input current	
• for signal "0", max. (permissible quiescent current)	1 mA
• for signal "1", typ.	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four
— at "0" to "1", min.	0.2 ms
— at 0 to 1, min. — at "0" to "1", max.	12.8 ms
	12.0 1113
for interrupt inputs	Von
— parameterizable	Yes
for technological functions	V 0 Circle rhe 41100 1000111 01100 100111
— parameterizable	Yes; 6 Single phase: 4 HSCs at 200 kHz; 2 HSCs at 30 kHz 4 A/B phase: 2 HSCs at 100 kHz; 2 HSCs at 20 kHz
Cable length	
• shielded, max.	500 m; 50 m for technological functions
unshielded, max.	300 m; for technological functions: No
Digital outputs	500 III, IOI (COIIII0I0GIGAI IUIICUOIIS. INO
	4Ct Delaye
Number of digital outputs	16; Relays
Switching capacity of the outputs	2.4
with resistive load, max.	2 A
on lamp load, max.	30 W; 30 W with DC, 200 W with AC
Output delay with resistive load	
• "0" to "1", max.	10 ms; max.
• "1" to "0", max.	10 ms; max.
Switching frequency	
of the pulse outputs, with resistive load, max.	1 Hz
Relay outputs	
Number of relay outputs	16
Cable length	
• shielded, max.	500 m
unshielded, max.	150 m
Interfaces	
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	1
1. Interface	
Interface type	PROFINET
Isolated	Yes; Transformer isolated, 1,500V AC
automatic detection of transmission rate	Yes; 10/100 Mbit/s
Autonegotiation	Yes
Autocrossing	Yes
Interface types	
RJ 45 (Ethernet)	Yes
Protocols	100
	Vac. Since V2.4
PROFINET IO Controller PROFINET IO Povice	Yes; Since V2.4
PROFINET IO Device	Yes; I-Device since V2.5
PROFINET IO Controller	400 M %
Transmission rate, max.	100 Mbit/s
Services	
Number of connectable IO Devices, max.	8
— Updating time	4 ms; The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data.
Address area	
, ladi ooo di oo	

— Innuts may	128 byte; Per device
— Inputs, max. — Outputs, max.	128 byte; Per device
2. Interface	120 byte, i ei device
Interface type	RS 485 (max. 187.5 kbps)
Interface types	NO 400 (IIIax. 107.0 KDps)
• RS 485	Yes
PROFIBUS DP master	103
Services	
— S7 communication	Yes
Protocols	
Supports protocol for PROFINET IO	Yes; RT Controller (since FW V2.4) & I-Device (since FW V2.5)
PROFIBUS	Yes; Via CM DP module
Protocols (Ethernet)	
• TCP/IP	Yes
communication functions / header	
S7 communication	
• supported	Yes
• as server	Yes
• as client	Yes
Test commissioning functions	
Forcing	
• Forcing	Yes
Integrated Functions	
Counter	
 Number of counters 	6
PID controller	Yes; PID closed-loop control function: Continuous controller outputs, binary
	controller outputs, automatic/manual mode, max. 8 loops
Number of pulse outputs	3
EMC	
Interference immunity against discharge of static electricity	V
 Interference immunity against discharge of static electricity acc. to IEC 61000-4-2 	Yes
Test voltage at air discharge	8 kV
Test voltage at contact discharge	4 kV
Interference immunity against high-frequency electromagnetic field	S
Interference immunity against high-frequency radiation	Yes; 10 V/m, 80 to 1 000 MHz (to IEC 61000-4-3); 10 V/m, 900 MHz, 1.89 GHz,
acc. to IEC 61000-4-3	50% ED (to IEC 61000-4-3)
Interference immunity to cable-borne interference	
 Interference immunity on supply lines acc. to IEC 61000- 4-4 	Yes; 2 kV acc. to IEC 61000-4-4, burst
 Interference immunity on signal cables acc. to IEC 61000- 4-4 	Yes; ±2 kV acc. to IEC 61000-4-4, Burst
Interference immunity against conducted variable disturbance indu	ced by high-frequency fields
Interference immunity against high frequency current feed ass. to IEC 61000 4.6.	Yes; 10 V, 150 kHz to 80 MHz (to IEC 61000-4-6)
acc. to IEC 61000-4-6 Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes; EN 61000-6-4, interference emission: Intended for use in industrial areas.
Emission of conducted and non-conducted interference	1 50, Ett 6 1000-0-1, interioride emission. Interiore for use in industrial aleas.
Interference emission via line/AC current cables	EN 61000-6-4, interference emission: Intended for use in industrial areas.
Degree and class of protection	2.1 5.1335 5 1, interior of the original interior of the first interior of the original areas.
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
horizontal installation, min.	0 °C
horizontal installation, max.	55 °C
vertical installation, min.	0 °C

 vertical installation, max. 	45 °C		
Ambient temperature during storage/transportation			
• min.	-40 °C		
• max.	70 °C		
Air pressure acc. to IEC 60068-2-13			
Storage/transport, min.	660 hPa		
Storage/transport, max.	1 080 hPa		
Altitude during operation relating to sea level			
Installation altitude, min.	-1 000 m		
Installation altitude, max.	2 000 m		
Relative humidity			
• Operation at 25 °C without condensation, max.	95 %		
configuration / header			
configuration / programming / header			
Programming language			
— LAD	Yes		
— FBD	Yes		
— STL	Yes		
Dimensions			
Width	125 mm		
Height	100 mm		
Depth	81 mm		
Weights			
Weight, approx.	441.3 g		
Classifications			
		Version	Classification

	Version	Classification
eClass	14	27-24-22-07
eClass	12	27-24-22-07
eClass	9.1	27-24-22-07
eClass	9	27-24-22-07
eClass	8	27-24-22-07
eClass	7.1	27-24-22-07
eClass	6	27-24-22-07
ETIM	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval





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