

## OEM SIEMENES PLC SIMATIC S7-1200 CPU Profibus 1214C AC/DC/Relay 6ES7 214-1BE30-0XB0

## **Basic Information**

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- 1 • Packaging Details: 16,00 x 17,00 x 10,00 CM

5-10days

L/C, T/T

5pc

CE

GERMANY

SIEMENS

6ES7 214-1BE30-0XB0

- Delivery Time:
- Payment Terms:
- Supply Ability:



## **Product Specification**

• Highlight:

OEM PLC SIMATIC S7-1200, PLC SIMATIC S7-1200 Profibus, OEM s7 1200 profibus

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## VOBOAL



CPU 1214C Specificati	ons			
Technical Specifications				
Model	CPU 1214C AC/DC/Relay	CPU 1214C DC/DC/Relay	CPU 1214C DC/DC/D C	
Order number (MLFB)	6ES7 214- 1BE30-0XB0	6ES7 214-1HE30-0XB0	6ES7 214- 1AE30- 0XB0	
General				
Dimensions W x H x D (mm)	110 x 100 x 75			
Weight	475 grams	435 grams	415 grams	
Power dissipation	14 W	12 W		
Current available (SM and CM bus)	1600 mA max. (5 VDC)			
Current available (24 VDC)	400 mA max. (sensor power)			
Digital input current consumption (24VDC)	4 mA/input used			
CPU Features				
User memory	50 Kbytes Work memory / 2 Mbytes Load memory/ 2 Kbytes Retentive memory			
On-board digital I/O	14 inputs/10 outputs			

On-board analog I/O	2 inputs				
Process image size	1024 bytes of inputs/1024 bytes of				
Oises a lance alcular	outputs				
Signal modules expansion	8 SMs max.				
Signal board expansion	1 SB max.				
Communication module expansion	3 CMs max.				
High-speed counters	6 total Single phase: 3 at 100 kHz and 3 at 30 kHz clock rate Quadrature phase: 3 at 80 kHz and 3 at 20 kHz clock rate				
Pulse outputs	2 at 1Hz pulse rate	2 at 100 I	kHz pulse rate		
Pulse catch inputs	14				
Time delay / cvclic	4 total with 1				
interrupts	ms resolution				
Edge interrupts	12 rising and 12 falling (14 and 14 with optional signal board)				
Memory card	SIMATIC Memory Card (optional)				
Real time clock accuracy	+/- 60 seconds/mont h				
Real time clock retention time	10 days typ./6 days min. at 40°C (maintenance- free Super Capacitor)				
Performance					
Boolean execution	0.1				
speed	µs/instruction				
Move Word execution	12				
speed	µs/instruction				
Real Math execution	18				
Speed	µs/instruction				
Number of ports	1				
	Ethernet				
Data rates	10/100 Mb/s				
Isolation (external signal to PLC	Transformer isolated, 1500				
Cable type	CAT5e				
Technical	shielded				
Specifications			<u> </u>		
Model	CPU 1214C AC/DC/Relay		CPU 1214C DC/DC/Relay	1214 DC/I DC	, 1C DC/
Power supply			1		
Voltage range	85 to 264 VAC		20.4 to 28.8 VDC		
Line frequency	47 to 63 Hz				
Input current CPU only at max. load CPU with all expansior accessories at max. load	100 mA at 12 50 mA at 240 300 mA at 12 150 mA at 24	0 VAC VAC 0 VAC 0 VAC	500 mA at 24 VDC 1500 mA at 24 VDC		
Inrush current (max.)	20 A at 264 V	AC	12 A at 28.8 VDC		
Isolation (input power t logic)	0 1500 VAC		Not isolated		
	-		•		

Hold up time (loss of	20 ms at 120 VAC	10 ms	at 24 VDC	
Internal fuse, not user				
replaceable	3 A, 250 V, slow blow			
Sensor power				
Voltage range	20.4 to 28.8 VDC	L+ mir	nus 4 VDC min.	
Output current rating	400 mA (short circuit			
(max.)	protected)			
(<10 MHz)	< 1 V peak to peak	Same	as input line	
Isolation (CPU logic to sensor power)	Not isolated			
Digital inputs				
Number of inputs	14			
Туре	Sink/Source (IEC Type 1 sink)			
Rated voltage	24 VDC at 4 mA, nominal			
Continuous permissible voltage	30 VDC, max.			
Surge voltage	35 VDC for 0.5 sec.			
Logic 1 signal (min.)	15 VDC at 2.5 mA			
Logic 0 signal (max.)	5 VDC at 1 mA			
Isolation (field side to logic)	500 VAC for 1 minute			
Isolation groups	1			
	0.2, 0.4, 0.8, 1.6, 3.2,			
Filter times	6.4, and 12.8 ms			
	(selectable in groups of			
	<sup>(4)</sup> Single phase: 100 KHz			
HSC clock input rates	(la.0 to la.5) and 30			
(max.)	KHz (la.6 to lb.5)			
(Logic 1 Level = 15 to	Quadrature phase: 80			
26 VDC)	KHz (la.0 to la.5) and			
	20 KHZ (18.6 to 10.5)			
Number of inputs on	14			
simultaneously	14			
	500 shielded, 300			
Cable length (meters)	unshielded, 50			
	inputs			
Analog inputs				
Number of inputs	2			
Туре	Voltage (single-ended)			
Range	0 to 10 V			
<b>–</b> " , , , ,	0 to 27648 (Refer to			
Full-scale range (data	Analog input			
word)	voltage (Page 310))			
	27,649 to 32,511			
Overshoot range (data	(Refer to Analog input			
word)	representation for			
	Voltage (Page 310) )			
	to Analog input			
Overflow (data word)	representation for			
	voltage (Page 310))			
Resolution	10 bits			
Maximum withstand	35 VDC			
voitage	<u> </u>			
recrinical Specifications				CDU
	CPU 1214C		CPU 1214C	1214C
Model	AC/DC/Relay		DC/DC/Relay	DC/DC/D
				С
	None, Weak, Medium	, or		
Cracthing	Strong (refer to Analo	g		
Smoothing	310)	aye		
	for step response time	es)		
	10, 50, or 60 Hz (refe	r to	i	
Noise rejection	Analog input response	e time		
	(Page 310) for sample	e		
Impodance				
Impedance	F100 M2			I

Isolation (field side to	None		
Accuracy (25°C / 0 to 55°C)	3.0% / 3.5% of full-scale		
Common mode rejection	40 dB. DC to 60 Hz		
Operational signal range	Signal plus common mode voltage must be less than +12 V and greater than -12 V		
Cable length (meters)	10 twisted and shielded		
Digital outputs			
Number of outputs	10		
Туре	Relay, dry contact	Solid state - MOSFET	
Voltage range	5 to 30 VDC or 5 to 250 VAC	20.4 to 28.8 VDC	
Logic 1 signal at max. current		20 VDC min.	
Logic 0 signal with 10 KΩ load		0.1 VDC max.	
Current (max.)	2.0 A	0.5 A	
Lamp load	30 W DC / 200 W AC	5 W	
ON state resistance	0.2 Ω max. when new	0.6 Ω max.	
Leakage current per point		10 µA max.	
Surge current	7 A with contacts closed	8 A for 100 ms max.	
Overload protection	No		
Isolation (field side to logic)	1500 VAC for 1 minute (coil to contact) None (coil to logic)	500 VAC for 1 minute	
Isolation resistance	100 M $\Omega$ min. when new		
Isolation between open contacts	750 VAC for 1 minute		
Isolation groups	2	1	
Inductive clamp voltage		L+ minus 48 VDC, 1 W dissipation	
Switching delay (Qa.0 to Qa.3)	10 ms max.	1.0 µs max., off to on 3.0 µs max., on to off	
Switching delay (Qa.4 to Qb.1)	10 ms max.	50 µs max., off to on 200 µs max., on to off	
Pulse Train Output rate (Qa.0 and Qa.2)	1 Hz max.	100 KHz max.	
Lifetime mechanical (no load)	10,000,000 open/close cycles		
Lifetime contacts at rated load	100,000 open/close cycles		
Behavior on RUN to STOP	Last value or substitute value (default value 0)		
Number of Outputs On simultaneously	10		
Cable length (meters)	500 shielded, 150 unshielded		

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