6ES7297-0AX30-0XA0

Data sheet



SIMATIC S7-1200, Battery Board BB 1297 for long-term buffering of the real time clock, plug-in in the signal board receptacle of the S7-12XX (FW3.0 or higher); Battery (CR1025) not included in scope of delivery

Interrupts/diagnostics/status information	General information	
Alarms Yes Diagnostics function Yes Diagnostics indication LED • for maintenance Yes: The maintenance LED (MAINT) of the PLC signals that the battery needs to be replaced. Degree and class of protection IP degree of protection IP20 Standards, approvals, cortificates CE mark Yes CSA approval Yes FM approval Yes RCM (formerly C-TICK) Yes Marine approval Yes Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • anax. 60 °C Ambient temperature during storage/transportation • min. • max. Author C Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, min. • Operation, min. • Operation, min. • Operation, max. 1 080 hPa • Storage/transport, max. 1 080 hPa Relative burnicity • Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) • Plastic Yes Dimensions Width Height 62 mm Depth 21 mm	Product type designation	BB 1297
Diagnostics function Diagnostics indication LED • for maintenance Pegree and class of protection IP degree of protection IP20 Standards, approvals, certificates CE mark CSA approval FM approval FM approval FM approval FM approval Free fall • Fall height, max Ambient conditions Free fall • max. 60 °C Ambient temperature during operation • min. • max. 60 °C Aninemax. Aninemax. Aninemax. Aninemax. Aninemax. • max. • operation, min. • Storage/transport, min. • Storage/transport, min. • Coperation, max. • Operation at 25 °C without condensation, max. Melantics/material Enclosure material Enclosure material Fee Signal Yes Yes Yes Yes Aninemax A0 °C Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, min. • Operation, max. • Operation, max. • Operation, max. • Storage/transport, min. • Operation, max. • Operation, max. • Operation, max. • Operation, max. • Operation at 25 °C without condensation, max. # Operation at 25 °C without condensation, max. # Operation by • Plastic Plastic Yes Dimensions Width Height Depth 21 mm	Interrupts/diagnostics/status information	
Diagnostics indication LED • for maintenance for maintenance Yes; The maintenance LED (MAINT) of the PLC signals that the battery needs to be replaced. Degree and class of protection IP degree of protection IP degree of protection Standards, approvals, certificates CE mark CSA approval FM approval FM approval FM approval FM approval Fes RCM (formerly C-TICK) Marine approval Free fall • Fall height, max. Ambient temperature during operation • min. • 20 °C Ambient temperature during storage/transportation • min. • aux. 60 °C Ambient temperature during storage/transportation • min. • 40 °C Ambient temperature during storage/transportation • min. • Operation, min. • Operation, min. • Operation, min. • Operation, min. • Storage/transport, min. • Storage/transport, min. • Storage/transport, min. • Storage/transport, max. Relative humidity • Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) • Plastic Yes Dimensions Width Height Depth 21 mm	Alarms	Yes
• for maintenance Yes; The maintenance LED (MAINT) of the PLC signals that the battery needs to be replaced. Degree and class of protection IP degree of protection IP20 Standards, approvals, certificates CE mark CSA approval Yes RCM (formerly C-TICK) Yes RCM (formerly C-TICK) Yes Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. 70 °C Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, max. 1 080 hPa • Storage/transport, min. • Storage/transport, max. 1 1 080 hPa Relative humidity • Operation at 25 °C without condensation, max. Mochanics/material Enclosure material (front) • Plastic Yes Dimensions Width 1 38 mm Height Depth 1 21 mm	Diagnostics function	Yes
Degree and class of protection IP degree of protection Standards, approvals, certificates CE mark CSA approval RCM (formerly C-TICK) Marine approval Free fall Fall height, max. Ambient temperature during operation imin. min. min. min. min. min. persure acc. to IEC 60068-2-13 Operation, min. Operation, max. Storage/transport, min. Storage/transport, min. Storage/transport, min. Storage/transport, min. Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Relative humidity Operation at 25 °C without condensation, max. Relative humidity Operation at 25 °C without condensation, max. Relative humidity Operation at 25 °C without condensation, max. Relative humidity Operation at 25 °C without condensation, max. Relative humidity Operation at 25 °C without condensation, max. Relative humidity Operation at 25 °C without condensation, max. Mochanics/material Enclosure material (front) Plastic Yes Dimensions Width As mm Height Depth 21 mm	Diagnostics indication LED	
IP degree of protection IP20 Standards, approvals, certificates CE mark Yes CSA approval Yes FM approval Yes RCM (formerly C-TICK) Yes Ambient conditions Free fall	• for maintenance	
Standards, approvals, certificates CE mark CSA approval FM approval RCM (formerly C-TICK) Marine approval Free fall Fall height, max. Ambient temperature during operation max. For oc max. Ambient temperature during storage/transportation min. max. Anbient temperature during storage/transportation min. max. Arbient temperature during storage/transportation min. Au CC Ambient temperature during storage/transportation min. Au CC Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. Storage/transport, min. Storage/transport, min. Storage/transport, min. Storage/transport, max. 1 080 hPa Relative humidity Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) Plastic Pes Dimensions Width As mm Height Gez mm Depth Depth 21 mm	Degree and class of protection	
CE mark CSA approval Yes FM approval FM approval FM approval FM (formerly C-TICK) Marine approval Yes Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. Ambient temperature during storage/transportation • min. • max. 70 °C Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, min. • Operation, max. • Storage/transport, min. • Storage/transport, min. • Storage/transport, max. 1 080 hPa • Storage/transport, max. 1 080 hPa Relative humidity • Operation at 25 °C without condensation, max. 95 % Mechanics/material Enclosure material (front) • Plastic Press Vidth 38 mm Height Depth 21 mm	IP degree of protection	IP20
CSA approval Yes FM approval Yes RCM (formerly C-TICK) Yes Marine approval Yes Ambient conditions Free fall • Fall height, max. 0.3 m; five times, in product package Ambient temperature during operation 0 min. • max. 60 °C Ambient temperature during storage/transportation 40 °C • max. 70 °C Air pressure acc. to IEC 60068-2-13 0 Operation, min. • Operation, max. 1 080 hPa • Storage/transport, min. 660 hPa • Storage/transport, max. 1 080 hPa Relative humidity • Operation at 25 °C without condensation, max. 95 % Mechanics/material Enclosure material (front) • Plastic Yes Dimensions Width 38 mm Height 62 mm Depth 21 mm	Standards, approvals, certificates	
FM approval RCM (formerly C-TICK) Yes Marine approval Ambient conditions Free fall Fall height, max. Ambient temperature during operation max. 60 °C Ambient temperature during storage/transportation min. min. max. 40 °C Ambient temperature during storage/transportation min. foressure acc. to IEC 60068-2-13 Operation, min. Operation, max. Storage/transport, min. Storage/transport, min. Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width 38 mm Height Depth 21 mm	CE mark	Yes
RCM (formerly C-TICK) Marine approval Ambient conditions Free fall • Fall height, max. Ambient temperature during operation • min. • max. Ambient temperature during storage/transportation • min. • max. Ambient temperature during storage/transportation • min. • max. Anough C Ambient temperature during storage/transportation • min. • 40 °C • max. Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, max. • Storage/transport, min. • Storage/transport, min. • Storage/transport, max. Relative humidity • Operation at 25 °C without condensation, max. Mochanics/material Enclosure material (front) • Plastic Yes Dimensions Width Height Depth 21 mm	CSA approval	Yes
Marine approval Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. 60 °C Ambient temperature during storage/transportation min. max. Aubient temperature during storage/transportation min. max. Aubient temperature during storage/transportation min. max. 70 °C Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. Storage/transport, min. Storage/transport, min. Storage/transport, max. 1 080 hPa Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Mochanics/material Enclosure material (front) Plastic Plastic Yes Dimensions Width Height Depth 21 mm		Yes
Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. Ambient temperature during storage/transportation min. min. min. min. min. min. min. mi	RCM (formerly C-TICK)	Yes
Free fall Fall height, max. O.3 m; five times, in product package Ambient temperature during operation in min. min.	Marine approval	Yes
Fall height, max. Ambient temperature during operation	Ambient conditions	
Ambient temperature during operation • min. • max. 60 °C Ambient temperature during storage/transportation • min. • min. • max. 70 °C Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, max. • Ostorage/transport, min. • Storage/transport, min. • Storage/transport, max. 1 080 hPa • Storage/transport, max. 1 080 hPa • Storage/transport, max. 95 % Relative humidity • Operation at 25 °C without condensation, max. Mochanics/material Enclosure material (front) • Plastic Yes Dimensions Width Height G2 mm Depth 21 mm	Free fall	
	• Fall height, max.	0.3 m; five times, in product package
max. Ambient temperature during storage/transportation min. -40 °C max. 70 °C Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. 1080 hPa Storage/transport, min. Storage/transport, max. 1080 hPa Storage/transport, max. 1080 hPa Relative humidity Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width 18 mm Height Depth 21 mm	Ambient temperature during operation	
Ambient temperature during storage/transportation • min. • max. 70 °C Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, max. • Storage/transport, min. • Storage/transport, max. 1 080 hPa • Storage/transport, max. 1 080 hPa Relative humidity • Operation at 25 °C without condensation, max. 95 % Mechanics/material Enclosure material (front) • Plastic Piastic Yes Dimensions Width Height Depth 1 0 0 0 C 70 °C Air pressure acc. to IEC 60068-2-13 - 40 °C - 70 °C - 40 °C -	• min.	-20 °C
 min. -40 °C max. 70 °C Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. Storage/transport, min. Storage/transport, max. 1 080 hPa Storage/transport, max. 1 080 hPa Relative humidity Operation at 25 °C without condensation, max. 95 % Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width Height Depth 21 mm 	• max.	60 °C
 max. Air pressure acc. to IEC 60068-2-13 Operation, min. Operation, max. Operation, max. Storage/transport, min. Storage/transport, max. 1 080 hPa Storage/transport, max. 1 080 hPa Relative humidity Operation at 25 °C without condensation, max. 95 % Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width Height Depth 21 mm 	Ambient temperature during storage/transportation	
Air pressure acc. to IEC 60068-2-13 • Operation, min. • Operation, max. • Operation, max. • Storage/transport, min. • Storage/transport, max. 1 080 hPa • Storage/transport, max. 1 080 hPa Relative humidity • Operation at 25 °C without condensation, max. 95 % Mechanics/material Enclosure material (front) • Plastic Yes Dimensions Width 1 38 mm Height Depth 62 mm Depth 21 mm	• min.	-40 °C
 Operation, min. Operation, max. Storage/transport, min. Storage/transport, max. 1 080 hPa Storage/transport, max. 1 080 hPa Relative humidity Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width 38 mm Height 62 mm Depth 21 mm 	• max.	70 °C
 Operation, max. Storage/transport, min. Storage/transport, max. 1 080 hPa Storage/transport, max. 1 080 hPa Relative humidity Operation at 25 °C without condensation, max. 95 % Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width 38 mm Height 62 mm Depth 21 mm 	•	
Storage/transport, min. Storage/transport, max. 1 080 hPa Relative humidity Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width Height Depth 38 mm Height Depth 21 mm	 Operation, min. 	795 hPa
 Storage/transport, max. Relative humidity Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width Height Depth 21 mm 	 Operation, max. 	1 080 hPa
Relative humidity Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width Height Depth 121 mm		660 hPa
Operation at 25 °C without condensation, max. Mechanics/material Enclosure material (front) Plastic Yes Dimensions Width Height Depth 95 % 88 mm 62 mm 21 mm	Storage/transport, max.	1 080 hPa
Mechanics/material Enclosure material (front) Yes ● Plastic Yes Dimensions Width Height 62 mm Depth 21 mm	•	
Enclosure material (front)	• Operation at 25 °C without condensation, max.	95 %
◆ Plastic Yes Dimensions 38 mm Height 62 mm Depth 21 mm	Mechanics/material	
Dimensions Width 38 mm Height 62 mm Depth 21 mm	Enclosure material (front)	
Width 38 mm Height 62 mm Depth 21 mm	Plastic	Yes
Height 62 mm Depth 21 mm	Dimensions	
Depth 21 mm	Width	38 mm
Depth 21 mm	Height	62 mm
Weights		21 mm
	Weights	

Weight, approx. 40 g

last modified: 3/26/2021 🖸