

1050212

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Snap-in locking non-vented enclosure of the ECS Family. IP66/IP67/IP68/IP69 rated when mated with associated faceplate. Color: Grey (7042), Width: 170 mm, Height: 176 mm, Depth: 64 mm



Your advantages

- · Housing design supports the installation of a range of PCB thicknesses for high application diversity
- · Optional accessories for wall and mast mounting
- · Proven PCB connection technology
- · Integrated tamper protection
- · Effective protection of electronics against thermal and mechanical influences
- · Suitable for outdoor/indoor applications

Commercial data

Item number	1050212
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	AC04
Product key	ACFDAA
GTIN	4055626665092
Weight per piece (including packing)	354.3 g
Weight per piece (excluding packing)	354.3 g
Customs tariff number	84879090
Country of origin	US



1050212

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Technical data

Notes

Assembly note	Please observe the application note in the download area.
Degree of protection	The specification for IP protection applies to the item combination ECS-B in conjunction with an unaltered ECS-PB front panel.
Degree of protection	When using front panels with connection technology, the IP protection class of the connection technology determines the protection class of the overall solution.
Recommendation	Further information and detailed dimensions are available in the download area.

Product properties

Product type	Housing
Housing type	Outdoor housing
Housing series	ECS
Product family	ECS122XL
Туре	Snap-in locking
Ventilation openings present	no
Battery compartment	no
Ventilation	no

Dimensions

Dimensional drawing	h
Width	170 mm
Height	176 mm
Depth	64 mm
PCB design	

Material specifications

PCB thickness

Color (Housing)	gray (RAL 7042)
Flammability rating according to UL 94	V0
Housing material	PC
Surface characteristics	untreated

1.57 mm ... 2.36 mm

Environmental and real-life conditions

Vibration test

VISITATION COCC		
	Specification	IEC 60068-2-6:2007-12



1050212

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Specification IEC 60695-2-11:2014-02 Temperature 850 °C Time of exposure 30 s schanical strength / tumbling barrel Specification IEC 60068-2-31:2008-05 IEC 60068-2-31:2008-05 Height of fall 50 cm Frequency 50 ocks Specification Specification IEC 60068-2-7:2008-02 Pulse shape Semi-sinusoidal Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) still stray test Specification Specification DIN EN 60068-2-11:2000-02 Test duration 96 h set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed agree of protection (IP code) Specification Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-6 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K mbie	Frequency	10 - 2000 - 10 Hz
Test duration per axis Test directions X., Y. and Z-axis ow-wire test Specification IEC 60095-2-11:2014-02 Temperature 850 °C Time of exposure Specification IEC 60068-2-31:2008-05 Height of fall 50 cm Frequency 50 socks Specification IEC 60068-2-31:2008-05 Height of fall 50 cm Frequency 50 socks Specification IEC 60068-2-37:2008-02 Pulse shape Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X., Y. and Z-axis (pos. and neg.) itt spray test Specification DIN EN 60068-2-11:2000-02 96 h set for substances that would hinder coating with paint or varnish Specification VDMA 24364-2018-05 Result Test passed Preceded in Peoch Potention, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K max. NEMA code to attain Max. NEMA code to att	Sweep speed	1 octave/min
Test directions X. Y- and Z-axis ow-wire test Specification IEC 60095-2-11-2014-02 Temperature 850 °C Time of exposure schanical strength / tumbling barrel Specification IEC 60068-2-31-2008-05 Height of fall 50 cm Frequency 50 nocks Specification IEC 60068-2-27-2008-02 Semi-sinusoidal Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Ist spray test Specification DIN EN 60068-2-11:2000-02 Test duration Story and Semi-sinusoidal Specification DIN EN 60068-2-11:2000-02 Test duration Specification DIN EN 60068-2-11:2000-02 Test duration Specification VDMA 24364-2018-05 Result Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-4 Result, degree of protection, IP code IP66/IP67/IP68/IP69 Max. IP Code to attain Max. NEMA code to attain IP69 Max. PE code to attain Max. NEMA code to attain Imperature (storage/transport) 40 °C 100 °C Ambient temperature (storage/transport) 4 data Number of PCB holders 1	Acceleration	15g (61.6 Hz 2000 Hz)
Specification IEC 60695-2-11:2014-02	Test duration per axis	2.5 h
Specification IEC 60695-2-11:2014-02 Temperature 850 °C Time of exposure 30 s schanical strength / tumbling barrel Specification IEC 60068-2-31:2008-05 IEC 60068-2-31:2008-05 Height of fall 50 cm Frequency 50 ocks Specification Specification IEC 60068-2-7:2008-02 Pulse shape Semi-sinusoidal Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) still stray test Specification Specification DIN EN 60068-2-11:2000-02 Test duration 96 h set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed agree of protection (IP code) Specification Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-6 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K mbie	Test directions	X-, Y- and Z-axis
Temperature 850 °C Time of exposure 30 s schanical strength / tumbling barrel Specification IEC 60068-2-31:2008-05 Height of fall 50 cm Frequency 50 Docks Specification IEC 60068-2-27:2008-02 Specification IEC 60068-2-27:2008-02 Pulse shape Semi-isnusoidal Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Stray test Specification DIN EN 60068-2-11:2000-02 Test duration 96 h Set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-4 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K mbient conditions Degree of protection IP69 Max. IP code to attain IP69 Max. Pode to attain IP69 Max. NEMA code to attain IP69 Ambient temperature (operation) 40 °C 100 °C Addia Number of PCB holders 1	Glow-wire test	
Time of exposure 30 s echanical strength / tumbling barrel Specification IEC 60068-2-31:2008-05 Height of fall 50 cm Frequency 50 nocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 3 Test directions X-, Y- and Z-axis (pos. and neg.) alt spray lest Specification DIN EN 60068-2-11:2000-02 Specification DIN EN 60068-2-11:2000-02 Specification 96 h 6 Specification 97 MA 24364:2018-05 Result Test passed 1EC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-06 Result 1EC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-06 Result Gegree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69/IP69/IP69/IP69/IP69/IP69/IP69	Specification	IEC 60695-2-11:2014-02
Specification IEC 60068-2-31:2008-05	Temperature	850 °C
Specification IEC 60068-2-31:2008-05 Height of fall 50 cm Frequency 50 tocks 50 Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) all spray test Specification Specification DIN EN 60068-2-11:2000-02 Test duration 96 h set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K mbient conditions IP66 Degree of protection IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IR08 Impact strength IK08 Ambient temperature (storage/transport) <	Time of exposure	30 s
Height of fall 50 cm 50	Mechanical strength / tumbling barrel	
Frequency 50 100	Specification	IEC 60068-2-31:2008-05
Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Alt spray test Specification DIN EN 60068-2-11:2000-02 Test duration 96 h Set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed BEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K Ambient conditions Degree of protection IP code IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) 40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C	Height of fall	50 cm
Specification IEC 60068-2-27:2008-02	Frequency	50
Pulse shape Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) alt spray test Specification DIN EN 60068-2-11:2000-02 Test duration 96 h set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed agree of protection (IP code) Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K Inbient conditions Degree of protection IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain Impact strength Ambient temperature (operation) Ambient temperature (storage/transport) Adata Number of PCB holders 11	thocks	
Acceleration 50g Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Acceleration DIN EN 60068-2-11:2000-02 Test duration 96 h Set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K Ambient conditions Degree of protection IP code to attain IP69 Max. NEMA code to attain IP69 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C Adata Number of PCB holders 11	Specification	IEC 60068-2-27:2008-02
Shock duration 11 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Alt spray test Specification DIN EN 60068-2-11:2000-02 Test duration 96 h Set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69/K Abient conditions Degree of protection IP 69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C Ambient temperature (storage/transport) 10 of C 100 °C Adata Number of PCB holders 1	Pulse shape	Semi-sinusoidal
Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) X-, Y- and Z-axis (pos. and neg.) It spray test Specification DIN EN 60068-2-11:2000-02 Test duration 96 h Set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K IP69/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain Impact strength Ambient temperature (operation) Ambient temperature (storage/transport) A 0 °C 100 °C Ambient temperature (storage/transport) 1	Acceleration	50g
Test directions X-, Y- and Z-axis (pos. and neg.) Alt spray test Specification DIN EN 60068-2-11:2000-02 Test duration 96 h Specification VDMA 24364:2018-05 Result Test passed Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code Specification Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K Anbient conditions Degree of protection IP69 Max. IP code to attain IP69 Max. NEMA code to attain Impact strength Ambient temperature (operation) Ambient temperature (storage/transport) Adata Number of PCB holders INO TEST (A missing post and neg.) INO NEMA 2-2-axis (pos. and neg.) INO NEMA 2-3-11:2000-02 INO NEMA 2-4364:2018-05 IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 IEC	Shock duration	11 ms
Specification DIN EN 60068-2-11:2000-02 Test duration 96 h set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed segree of protection (IP code) Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K subsent conditions Degree of protection IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Max. NEMA code to attain IR08 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C	Number of shocks per direction	3
Specification DIN EN 60068-2-11:2000-02 Test duration 96 h set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed Specification IP code) Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K substances of protection IP69/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Max. NEMA code to attain IK08 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C	Test directions	X-, Y- and Z-axis (pos. and neg.)
Test duration 96 h set for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed gree of protection (IP code) Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K Inbient conditions Degree of protection IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Max. NEMA code to attain IK08 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C 3 data Number of PCB holders 1	alt spray test	
est for substances that would hinder coating with paint or varnish Specification Result Test passed Test passed Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K Inbient conditions Degree of protection IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain Impact strength IK08 Ambient temperature (operation) And °C 100 °C Ambient temperature (storage/transport) Idada Number of PCB holders 1	Specification	DIN EN 60068-2-11:2000-02
Specification VDMA 24364:2018-05 Result Test passed Pegree of protection (IP code) Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Max. NEMA code to attain IK08 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C	Test duration	96 h
Result Test passed agree of protection (IP code) Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Max. NEMA code to attain IK08 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C	est for substances that would hinder coating with paint or varnish	
egree of protection (IP code) Specification Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain Impact strength IK08 Ambient temperature (operation) Ambient temperature (storage/transport) IA data Number of PCB holders IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 IP66/IP67/IP68/IP69 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K IP66/IP67/IP68/IP69 IP69 IP69 IK08 -40 °C 100 °C -40 °C 100 °C	Specification	VDMA 24364:2018-05
Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-0 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K Inbient conditions Degree of protection IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain 6 Impact strength IK08 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C	Result	Test passed
Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K IP69/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain Impact strength IK08 Ambient temperature (operation) Ambient temperature (storage/transport) IV08 Ambient temperature (storage/transport) Addata Number of PCB holders IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K IP69/IP69/IP69 IP69 IP69 IP69 IV08 IV08 IV08 IV08 IV08 IV09 IV	Degree of protection (IP code)	
Degree of protection IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain 6 Impact strength IK08 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C	Specification	IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08
Degree of protection IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain 6 Impact strength IK08 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C 8 data Number of PCB holders 1	Result, degree of protection, IP code	IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K
Max. IP code to attain Max. NEMA code to attain 6 Impact strength IK08 Ambient temperature (operation) Ambient temperature (storage/transport) 3 data Number of PCB holders IP69 IK08 IK08 IK08 -40 °C 100 °C -40 °C 100 °C 1	mbient conditions	
Max. NEMA code to attain Impact strength IK08 Ambient temperature (operation) Ambient temperature (storage/transport) Addata Number of PCB holders 6 IK08 -40 °C 100 °C -40 °C 100 °C 1	Degree of protection	IP66/IP67/IP68/IP69
Impact strength Ambient temperature (operation) Ambient temperature (storage/transport) Adata Number of PCB holders IK08 -40 °C 100 °C -40 °C 100 °C 1	Max. IP code to attain	IP69
Ambient temperature (operation) -40 °C 100 °C -40 °C 100 °C -40 °C 100 °C Addta Number of PCB holders 1	Max. NEMA code to attain	6
Ambient temperature (storage/transport) -40 °C 100 °C 3 data Number of PCB holders 1	Impact strength	IK08
8 data Number of PCB holders 1	Ambient temperature (operation)	-40 °C 100 °C
Number of PCB holders 1	Ambient temperature (storage/transport)	-40 °C 100 °C
Number of PCB holders 1	B data	
		1
	Thickness of the PCB	1.57 mm 2.36 mm



1050212

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Mounting

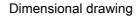
Mounting type Wall or panel mount. Pole mount with accessory.

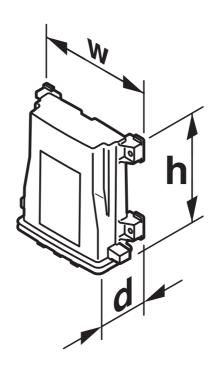


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Drawings







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1050212

DNV

Approval ID: TAE00003W8



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Classifications

UNSPSC 21.0

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		A.7.7

	ECLASS-13.0	27190601			
ΕΊ	ETIM				
	ETIM 9.0	EC002779			
U	NSPSC				

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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