

1952092

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PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 9, number of rows: 1, number of positions: 9, number of connections: 9, product range: FMC 1,5/..-ST-RF, pitch: 3.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: Snap-in locking, mounting: Self-locking flange, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Intuitive operation due to color-coded actuating push button
- · Operation and conductor connection from one direction enable integration into front of device
- · Intuitive locking mechanism prevents accidental disconnection

Commercial data

Item number	1952092
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA02
Product key	AABFAC
Catalog page	Page 201 (C-1-2013)
GTIN	4017918942731
Weight per piece (including packing)	5.501 g
Weight per piece (excluding packing)	5.23 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Туре	Standard
Product line	COMBICON Connectors S
Product type	PCB connector
Product family	FMC 1,5/ST-RF
Number of positions	9
Pitch	3.5 mm
Number of connections	9
Number of rows	1
Mounting flange	Self-locking flange
Number of potentials	9

Electrical properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Degree of pollution	3
Contact resistance	2.7 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Connection technology

Туре	Standard
Connector system	COMBICON MC 1,5
Nominal cross section	1.5 mm²
Contact connection type	Socket

Interlock

Locking type	Snap-in locking
Mounting flange	Self-locking flange

Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 1.5 mm²



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sleeve	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.14 mm² 0.75 mm²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	10 mm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 7 mm
	Cross section: 0.34 mm²; Length: 7 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
	Cross section: 0.75 mm²; Length: 8 mm 10 mm
	Cross section: 1 mm²; Length: 8 mm 10 mm
	Cross section: 1.5 mm²; Length: 10 mm
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.14 mm²; Length: 8 mm
	Cross section: 0.25 mm²; Length: 8 mm 10 mm
	Cross section: 0.34 mm²; Length: 8 mm 10 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
	Cross section: 0.75 mm²; Length: 10 mm
aterial data - contact	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC
	60068-2-82/JEDEC JESD 201
Note	60068-2-82/JEDEC JESD 201 Cu alloy
Note Contact material	60068-2-82/JEDEC JESD 201
Note Contact material Surface characteristics	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer)	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)
Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer)	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn)
Note Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn)
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing)	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) green (6021)
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing) Insulating material	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) green (6021)
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing) Insulating material Insulating material group	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) green (6021) PA I
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) green (6021) PA I 600
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) aterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) green (6021) PA I 600 V0
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) daterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94 Glow wire flammability index GWFI according to EN 60695-2-12 Glow wire ignition temperature GWIT according to EN 60695-2-	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn) green (6021) PA I 600 V0 850
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Ideterial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94 Glow wire flammability index GWFI according to EN 60695-2-12 Glow wire ignition temperature GWIT according to EN 60695-2-13 Temperature for the ball pressure test according to EN 60695-10-2	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I 600 V0 850 775
Contact material Surface characteristics Metal surface terminal point (top layer) Metal surface contact area (top layer) Interial data - housing Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94 Glow wire flammability index GWFI according to EN 60695-2-12 Glow wire ignition temperature GWIT according to EN 60695-2-13 Temperature for the ball pressure test according to EN 60695-	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn) green (6021) PA I 600 V0 850 775



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Insulating material group	Illa
CTI according to IEC 60112	275
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	h
Pitch	3.5 mm
Width [w]	41.6 mm
Height [h]	7.8 mm
Length [I]	22.9 mm

Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no
	switching power (COC). During designated use, they must not be
	plugged in or disconnected when carrying voltage or under load.

Mechanical tests

Conductor connection

Result Test passed	

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

Repeated connection and disconnection

Specification	IEC 60999-1:1999-11
Result	Test passed

Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	1.5 mm² / solid / > 40 N
	1.5 mm² / flexible / > 40 N

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	5 N
Withdraw strength per pos. approx.	4 N



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Specification IEC 60512-13-5:2006-02	Resistance of inscriptions	
Polarization and coding IEC 60512-13-5:2006-02 Result Test passed	Specification	IEC 60068-2-70:1995-12
Specification IEC 60512-13-5:2006-02	Result	Test passed
Specification IEC 60512-13-5:2006-02	Polarization and coding	
Result		IEC 60512-13-5:2006-02
Specification IEC 60512-1-1:2002-02		Test passed
Specification IEC 60512-1-1:2002-02	V6	
Result Test passed		IEC 60512-1-1·2002-02
Dimension check		
Test passed	rocar	Test passed
Test passed	Dimension check	
Vibration test Specification IEC 60068-2-6-2007-12 Frequency 10 - 150 - 10 Hz Sweep speed 1 octave/min Amplitude 0.35 mm (10 Hz 60.1 Hz) Sweep speed 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Durability test Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 2.95 kV Contact resistance R ₁ 2.7 m\(\Omega\$) Contact resistance R ₂ 2.8 m\(\Omega\$) Insertion/withdrawal cycles 25 Insulation resistance, neighboring positions > 5 M\(\Omega\$) Climatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle Thermal stress 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) 40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) 40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %	Specification	IEC 60512-1-2:2002-02
Vibration test IEC 60068-2-6:2007-12 Frequency 10 - 150 - 10 Hz Sweep speed 1 octave/min Amplitude 0.35 mm (10 Hz 60.1 Hz) Sweep speed 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Durability test Specification Ilec 60512-9-1:2010-03 Impulse withstand voltage at sea level Contact resistance R₁ 2.7 mΩ Contact resistance R₂ 2.8 mΩ Insertion/withdrawal cycles 25 Insulation resistance, neighboring positions > 5 MΩ Climatic test Specification Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %	Result	Test passed
Frequency		IEC 60068-2-6:2007-12
Sweep speed 1 octave/min Amplitude 0.35 mm (10 Hz 60.1 Hz) Sweep speed 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Durability test Specification Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 2.95 kV Contact resistance R₁ 2.7 mΩ Contact resistance R₂ 2.8 mΩ Insertion/withdrawal cycles 25 Insulation resistance, neighboring positions > 5 MΩ Climatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %		
Amplitude 0.35 mm (10 Hz 60.1 Hz) Sweep speed 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Durability test 2.5 h Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 2.95 kV Contact resistance R₁ 2.7 mΩ Contact resistance R₂ 2.8 mΩ Insertion/withdrawal cycles 25 Insulation resistance, neighboring positions > 5 MΩ Climatic test Specification Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %		
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$\begin{tabular}{l}{l} Specification & IEC 60512-9-1:2010-03 \\ Impulse withstand voltage at sea level & 2.95 kV \\ Contact resistance R_1 & 2.7 m Ω \\ Contact resistance R_2 & 2.8 m Ω \\ Insertion/withdrawal cycles & 25 \\ Insulation resistance, neighboring positions & > 5 M Ω \\ \hline Climatic test & Specification & ISO 6988:1985-02 \\ Corrosive stress & 0.2 dm³ SO_2 on 300 dm³/40 °C/1 cycle \\ \hline Thermal stress & 100 °C/168 h \\ Power-frequency withstand voltage & 1.39 kV \\ \hline Ambient conditions & -40 °C 100 °C (dependent on the derating curve) \\ Ambient temperature (storage/transport) & -40 °C 70 °C \\ Relative humidity (storage/transport) & 30 % 70 % \\ \hline \end{tabular}$	Test duration per axis	
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$ \begin{array}{c} \text{Impulse with stand voltage at sea level} & 2.95 \text{kV} \\ \text{Contact resistance R}_1 & 2.7 \text{m}\Omega \\ \text{Contact resistance R}_2 & 2.8 \text{m}\Omega \\ \text{Insertion/with drawal cycles} & 25 \\ \text{Insulation resistance, neighboring positions} & > 5 \text{M}\Omega \\ \text{Climatic test} & \\ \text{Specification} & \text{ISO 6988:1985-02} \\ \text{Corrosive stress} & 0.2 \text{dm}^3 \text{SO}_2 \text{on 300 dm}^3 \text{/40 °C/1 cycle} \\ \text{Thermal stress} & 100 ^{\circ} \text{C/168 h} \\ \text{Power-frequency with stand voltage} & 1.39 \text{kV} \\ \\ \text{Ambient conditions} & \\ \text{Ambient temperature (operation)} & -40 ^{\circ} \text{C} \dots 100 ^{\circ} \text{C (dependent on the derating curve)} \\ \text{Ambient temperature (storage/transport)} & -40 ^{\circ} \text{C} \dots 70 ^{\circ} \text{C} \\ \text{Relative humidity (storage/transport)} & 30 \% \dots 70 \% \\ \end{array}$		IFC 60512-9-1:2010-03
$ \begin{array}{c} \text{Contact resistance R}_1 & 2.7 \text{ m}\Omega \\ \text{Contact resistance R}_2 & 2.8 \text{ m}\Omega \\ \text{Insertion/withdrawal cycles} & 25 \\ \text{Insulation resistance, neighboring positions} & > 5 \text{ M}\Omega \\ \text{Climatic test} \\ \text{Specification} & \text{ISO 6988:1985-02} \\ \text{Corrosive stress} & 0.2 \text{ dm}^3 \text{ SO}_2 \text{ on } 300 \text{ dm}^3/40 \text{ °C/1 cycle} \\ \text{Thermal stress} & 100 \text{ °C/168 h} \\ \text{Power-frequency withstand voltage} & 1.39 \text{ kV} \\ \text{Ambient conditions} \\ \text{Ambient temperature (operation)} & -40 \text{ °C} \dots 100 \text{ °C (dependent on the derating curve)} \\ \text{Ambient temperature (storage/transport)} & -40 \text{ °C} \dots 70 \text{ °C} \\ \text{Relative humidity (storage/transport)} & 30 \text{ %} \dots 70 \text{ %} \\ \end{array} $		
Contact resistance R_2 2.8 mΩ Insertion/withdrawal cycles 25 Insulation resistance, neighboring positions > 5 MΩ Climatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %		
Insertion/withdrawal cycles 25 Insulation resistance, neighboring positions > 5 MΩ Climatic test Specification ISO 6988:1985-02 Corrosive stress $0.2 \text{ dm}^3 \text{ SO}_2 \text{ on } 300 \text{ dm}^3/40 \text{ °C/1 cycle}$ Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) $-40 \text{ °C} \dots 100 \text{ °C}$ (dependent on the derating curve) Ambient temperature (storage/transport) $-40 \text{ °C} \dots 70 \text{ °C}$ Relative humidity (storage/transport) $30 \text{ %} \dots 70 \text{ %}$	·	2.8 mΩ
Insulation resistance, neighboring positions > 5 MΩ Climatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %	-	25
Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %	Insulation resistance, neighboring positions	> 5 MΩ
Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %	Climatic test	
Corrosive stress 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (storage/transport) Relative humidity (storage/transport) 30 % 70 %		ISO 6988:1985-02
Thermal stress 100 °C/168 h Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve) Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %		
Power-frequency withstand voltage 1.39 kV Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (storage/transport) Relative humidity (storage/transport) 30 % 70 %		
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (storage/transport) -40 °C 100 °C (dependent on the derating curve) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %	Power-frequency withstand voltage	
Ambient temperature (operation) Ambient temperature (storage/transport) -40 °C 100 °C (dependent on the derating curve) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %		
Ambient temperature (storage/transport) -40 °C 70 °C Relative humidity (storage/transport) 30 % 70 %		-40 °C 100 °C (dependent on the densiting curve)
Relative humidity (storage/transport) 30 % 70 %		

Electrical tests



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Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
Insulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Temperature cycles	
Specification Specification	IEC 60999-1:1999-11
Result	Test passed
resuit	rest passeu
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	l I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.5 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	1.6 mm
ackaging specifications	
Type of packaging	packed in cardboard
71 1 3 0	1 11111



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Classifications

ECLASS

	ECLASS-11.0	27460202
	ECLASS-12.0	27460202
	ECLASS-13.0	27460202
ETIM		
	ETIM 9.0	EC002638
UNSPSC		
	UNSPSC 21.0	39121400



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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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