

	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP SIM XG 0000 XXX
	<i>SIM grounding modules serie 2 for electric contacts</i>	Page 1 / 4

- **Name and address of supplier:** Amphenol Air LB
2, rue Clément Ader
ZAC de WE
08 110 CARIGNAN France

- **Description of product:** SIM grounding modules serie 2 for electric contacts.

- **Part number:**

SIM grounding sealed male module 8 contacts size 16: SIM EG 0816 P X;
SIM grounding non sealed male module 8 contacts size 16: SIM MG 0816 P X;

SIM grounding sealed male module 4 contacts size 12: SIM EG 0412 P X;
SIM grounding non sealed male module 4 contacts size 12: SIM MG 0412 P X;

SIM grounding sealed male module 4 contacts size 12: SIM EG 0412 P X;
SIM grounding non sealed male module 4 contacts size 12: SIM MG 0412 P X;

SIM grounding sealed male module 1 contact size 08: SIM EG 0108 P X;
SIM grounding non sealed male module 1 contact size 08: SIM MG 0108 P X;

SIM grounding sealed male module 1 contact size 08 quadrax with anti rotate on polarizer side:
SIM EG 0118 P X;
SIM grounding non sealed male module 1 contact size 08 quadrax with anti rotate on polarizer
side: SIM EG 0118 P X;

SIM grounding sealed male module 1 contact size 08 quadrax with anti rotate on polarizer opposite
side: SIM EG 0128 P X;
SIM grounding non sealed male module 1 contact size 08 quadrax with anti rotate on polarizer
opposite side: SIM EG 0128 P X;

SIM grounding sealed female module 1 contact size 08 quadrax with anti rotate on polarizer side:
SIM EG 0118 X S X;
SIM grounding non sealed male module 1 contact size 08 quadrax with anti rotate on polarizer
side: SIM EG 0118 X S X;

SIM grounding sealed male module 1 contact size 08 quadrax with anti rotate on polarizer opposite
side: SIM EG 0128 X S X;
SIM grounding non sealed male module 1 contact size 08 quadrax with anti rotate on polarizer
opposite side: SIM EG 0128 X S X;

- **Specification number:** NF EN 4165-001

- **Overall dimensions, interfaces, connections (electrical, hydraulic, etc.), installation information in drawing:**

According to SIM connectors catalogue

- **Compliance statement related to the specification (including any limitations on use):**

The qualification is equivalent to EN 4165-001

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- **Inspection and maintenance instruction reference:** As specified in Amphenol Air LB quality manual

- **Qualification test report reference:** QTR 19-015 issue ø / QTR 19-003 issue ø /
QTR 16-009 issue ø / QTR 13-008 issue ø.

See following table for the main performances:

Constitution	
Shell material	Thermoplastic
Shell plating material	Nickel or olive drab cadmium for female module
Insulation material	Silicone
Contact material	Copper alloy
Contact plating material	Nickel for male module

Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	25.4	daN
Contact retention in insert (minimum)	11.0	daN
Mechanical endurance	500	Cycles
Vibrations (type)	Random	Not applicable
Vibrations (maximum frequency)	2000	Hz
Vibrations (amplitude)	22.6	g
Vibrations (duration)	24	hours
Shocks (type)	Sinusoidal	Not applicable
Shocks (amplitude)	100	g
Shocks (duration)	6	ms
Resonant frequency minimum	Not concerned	Hz
Static loads (minimum)	Not concerned	daN

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Climatic performances		
Description	Data	Units
Maximum temperature of use	175	°C
Minimum temperature of use	-55	°C
Salt mist resistance	500	hours
Resistance to fluids	Fuel / Mineral and synthetic hydraulic fluid / Mineral and synthetic lubricant / Cleaning products / De icing fluid / Cooling fluid	Not applicable
Interfacial sealing	11.0	mb
Air leakage	4	cm ³ /hour
Immersion at low air pressure	11.0	mb
IP indice	Not concerned	Not applicable

Electrical performances		
Description	Data	Units
Insulation resistance	Not concerned	MΩ
Voltage proof test	Not concerned	V
Maximum intensity	13.0 for size 16 26.0 for size 12 43.0 for size 08	A
Contact resistance	Not concerned	mΩ
Shell electrical continuity	10	mΩ

Optical performances		
Description	Data	Units
Insertion loss	Not concerned	dB
Return loss	Not concerned	dB

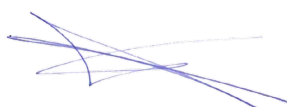
Fire behaviour	
In compliance with standard	ABD 0031 / EN 2591-317

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I hereby declare on behalf of the supplier that the information contained in this declaration of design and performance (DDP) is correct.

Date : 09/20/2019

Sign :



Company : Amphenol Air LB

Position held : Engineering Manager

Name : Jerome CHEVALIER

Date : 09/30/2019

Sign :



Company : Amphenol Air LB

Position held : Quality Manager

Name : Vincent BEYRIES