

	DECLARATION OF DESIGN AND PERFORMANCE	Reference DDP SIM XZ 0000 PX
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- **Name and address of supplier:** Amphenol Air LB
2, rue Clément Ader
ZAC de WE
08 110 CARIGNAN France

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

- **Part number:**

SIM shunted sealed male module 20 contacts size 22 (5x4): SIM EZ 2022 P X;

SIM shunted non sealed male module 20 contacts size 22 (5x4): SIM MZ 2022 P X;

SIM shunted sealed male module 20 contacts size 22 (3x4) + (4x2): SIM EZ 2A22 P X;

SIM shunted non sealed male module 20 contacts size 22 (3x4) + (4x2): SIM MZ 2A022 P X;

SIM shunted sealed male module 20 contacts size 22 (10x2): SIM EZ 2B22 P X;

SIM shunted non sealed male module 20 contacts size 22 (10x2): SIM MZ 2B22 P X;

SIM shunted sealed male module 8 contacts size 16 (1x3) + (1x2) + (3x1): SIM EZ 0816 P X;

SIM shunted non sealed male module 8 contacts size 16 (1x3) + (1x2) + (3x1): SIM MZ 0816 P 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

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

- **Qualification test report reference:** QTR 13-013 issue a (size 16);
QTR 10-011 issue ø (size 22).

See following table for the main performances:

Constitution	
Shell material	Thermoplastic
Shell plating material	Not concerned
Insulation material	Silicone
Contact material	Copper alloy
Contact plating material	Gold

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Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	25.4	daN
Contact retention in insert (minimum)	4.4 for size 22 11.0 for size 16	daN
Mechanical endurance	500	Cycles
Vibrations (type)	Random	Not applicable
Vibrations (maximum frequency)	2000	Hz
Vibrations (amplitude)	16.1	g
Vibrations (duration)	24	hours
Shocks (type)	Sinusoidal	Not applicable
Shocks (amplitude)	50	g
Shocks (duration)	11	ms
Resonant frequency minimum	Not concerned	Hz
Static loads (minimum)	Not concerned	daN

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	147	mb
Air leakage	4	cm ³ /hour
Immersion at low air pressure	147	mb
IP indice	Not concerned	Not applicable

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Electrical performances		
Description	Data	Units
Insulation resistance	5000	MΩ
Voltage proof test	1300 for size 22 1500 for size 16	V
Maximum intensity	5.0 for size 22 13.0 for size 16	A
Contact resistance	8	mΩ
Shell electrical continuity	Not concerned	mΩ

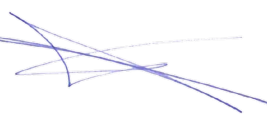
Optical performances		
Description	Data	Units
Insertion loss	Not concerned	dB
Return loss	Not concerned	dB

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

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