	<b>DECLARATION OF DESIGN AND PERFORMANCE</b>	<b>Reference</b> DDP SIM 3X 0000 SXX
	<i>SIM female modules serie 3 for crimped electric contacts</i>	<b>Page 1 / 4</b>

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

- **Description of product:** SIM modules serie 3 shells for crimped electric contacts.

- **Part number:**

SIM sealed female module serie 3 20 contacts size 22: SIM 3E 2022 S X X;  
SIM non sealed female module serie 3 20 contacts size 22: SIM 3M 2022 S X X;

SIM sealed female module serie 3 12 contacts size 20: SIM 3E 1220 S X X;  
SIM non sealed female module serie 3 12 contacts size 20: SIM 3M 1220 S X X;

SIM sealed female module serie 3 8 contacts size 16: SIM 3E 0816 S X X;  
SIM non sealed female module serie 3 8 contacts size 16: SIM 3M 0816 S X X;

SIM sealed female module serie 3 4 contacts size 12: SIM 3E 0412 S X X;  
SIM non sealed female module serie 3 4 contacts size 12: SIM 3M 0412 S X X;

SIM sealed female module serie 3 1 contact size 08: SIM 3E 0108 S X X;  
SIM non sealed female module serie 3 1 contact size 08: SIM 3M 0108 S X X;

SIM sealed female module serie 3 1 contact size 08 with anti rotate on polarizer side  
for quadrax contact: SIM 3E 0118 S X X;  
SIM non sealed female module serie 3 1 contact size 08 with anti rotate on polarizer side  
for quadrax contact: SIM 3M 0118 S X X;

SIM sealed female module serie 3 1 contact size 08 with anti rotate on polarizer opposite side  
for quadrax contact: SIM 3E 0128 S X X;  
SIM non sealed female module serie 3 1 contact size 08 with anti rotate on polarizer opposite side  
for quadrax contact: SIM 3M 0128 S X 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 19-015 issue 0 / 14-007 issue 0 / CRE 155-2 issue.0.

	<b>DECLARATION OF DESIGN AND PERFORMANCE</b>	<b>Reference</b> DDP SIM 3X 0000 SXX
	<i>SIM female modules serie 3 for crimped electric contacts</i>	<b>Page 2 / 4</b>

See following table for the main performances:

Constitution	
Shell material	Thermoplastic
Shell plating material	Not concerned
Insulation material	Silicone
Contact material	Not concerned
Contact plating material	Not concerned


Mechanical performances		
Description	Data	Units
Insert retention in housing (minimum)	25.4	daN
Contact retention in insert (minimum)	4.4 for size 22 6.7 for size 20 11.0 for size 16; 12 & 08	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	128	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	11.0	mb
Air leakage	4	cm <sup>3</sup> /hour
Immersion at low air pressure	11.0	mb
IP indice	Not concerned	Not applicable

Electrical performances		
Description	Data	Units
Insulation resistance	5000	MΩ
Voltage proof test	1800 for other size	V
Maximum intensity	5.0 for size 22 7.5 for size 20 13.0 for size 16 26.0 for size 12 80.0 for size 08	A
Contact resistance	Not concerned	mΩ
Shell electrical continuity	Not concerned	mΩ

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

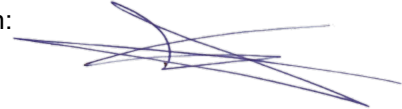
Fire behaviour	
In compliance with standard	ABD 0031 / EN 2591-317

 Your Satisfaction. Everyday. Everywhere.	<b>DECLARATION OF DESIGN AND PERFORMANCE</b>	<b>Reference</b> DDP SIM 3X 0000 SXX
	<i>SIM female modules serie 3 for crimped electric contacts</i>	<b>Page 4 / 4</b>

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

Date: February 1<sup>st</sup>, 2021

Sign:



Company: Amphenol Air LB

Position held: Engineering Manager

Name: Jerome CHEVALIER

Date: February 1<sup>st</sup>, 2021

Sign:



Company: Amphenol Air LB

Position held: Quality Director

Name: Vincent BEYRIES