



# TYPE APPROVAL CERTIFICATE

## N. ELE35421CS002

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA Type Approval system.

<b>Description</b>	<b>Switch-Disconnecter</b>
<b>Type</b>	<b>Series PHOENIX: P012, P016, P020</b>
<b>Applicant</b>	<b>Giovenzana International B.V.</b> Strawinskylaan 1105 1077 XX Amsterdam The Netherlands
<b>Manufacturer</b>	<b>G.G.T. S.r.l.</b> Via Mons. Mozzanica, 2 23889 S. Maria Hoè (LC) Italy
<b>Reference standards</b>	<b>IEC 60947-1:2007/AMD1:2010, IEC 60947-1:2007/AMD2:2014, IEC 60947-1:2007, IEC60947-3:2008/AMD1:2012, IEC 60947-3:2008/AMD2:2015, IEC60947-3:2008</b>

Issued in Genoa on **January 28, 2021**

This certificate is valid until **January 28, 2026**

**RINA Services S.p.A.**

*Luigi Benedetti*





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### Product Description

Switch-disconnectors type: **P012, P016, P020.**

### Technical Data

Rated frequency (**f**): 50/60 Hz.

Ambient air temperature: 45 °C.

Rated insulation voltage (**Ui**): 690 V.

Rated operational voltage (**Ue**): see table

Rated impulse withstand voltage (**Uimp**): 4 kV.

Conventional free-air thermal current (**Ith**): 12 A, 16 A, 20 A.

Conventional enclosed thermal current (**Ithe**): 12 A, 16 A, 20 A.

Rated operational current (**Ie**): see table.

Rated conditional short-circuit current (**Icc**): 5 kA.

Rated short-time withstand current (**Icw**): 300 A - 1 sec.

Rated short-circuit making capacity (**Icm**): 1200A.

Fuse class gG (Weber) at 690 V: 22 x 58.

Switch-disconnectors type		P012	P016	P020
Utilization Category	Ue (V)	Ie (A)	Ie (A)	Ie (A)
AC21A	690	12	16	20
AC22A	690	12	16	20
AC23A / 3 phases-3 poles	230	10	13	16
	400	10	13	16
	500	10	14	16
	690	10	14	16
AC23A / 1 phases-2 poles	110	12	14	18
	230	12	14	18
AC3 / 3 phases-3 poles	230	8	10	12
	400	8	10	10
	500	8	10	12
	690	6	8	10
AC3 / 1 phases-2 poles	110	10	12	16
	230	10	12	16
DC21A / 1 pole	50	10	12	16
DC22A / 1 pole	30	8	10	12

### Reference documents

UL CB Test Certificate n. DK-78280-UL (2018.11.16); UL Test report n. 4788620332-4 (2018.11.10)

### Remarks

Installation and use of the above listed products to be in accordance with the manufacturer instructions.



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