

PID:

09330002

CID:

CN.V0002G

Certificato di approvazione

Approval certificate



IMQ, ente di certificazione accreditato,
autorizza la ditta

IMQ, accredited certification body, grants to

PRD N° 005B

Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

BEGHELLI SPA
VIA MOZZEGHINE 13/15 - LOC. MONTEVEGLIO
40053 VALSAMOGGIA BO
IT - Italy

all'uso del marchio

the licence to use the mark

CSV-IMQ

**Il presente certificato è
soggetto alle condizioni
previste nel Regolamento
"MARCHI IMQ - Regolamento
per la certificazione di
prodotti" ed è relativo ai
prodotti descritti nell'Allegato
al presente certificato.**



per i seguenti prodotti

for the following products

**Sistemi di alimentazione
centralizzata
(Mod. S230Z-H-SK MINI-X)**

*Central power supply system
(Model S230Z-H-SK MINI-X)*

*This certificate is subjected to the
conditions foreseen by Rules "IMQ
MARKS - RULES for product
certification" and is relevant to the
products listed in the annex to
this certificate.*

Emesso il / Issued on **2021-06-21**

Aggiornato il / Updated on ---

Sostituisce / Replaces ---

IMQ S.p.A.

Allegato - Certificato di approvazione
Annex - Approval certificate

Emesso il / Issued on 2021-06-21
Aggiornato il / Updated on ---
Sostituisce / Replaces ---

Prodotto | Product

Sistemi di alimentazione centralizzata **Central power supply system**

Concessionario | Licence Holder

BEGHELLI SPA
VIA MOZZEGHINE 13/15 - LOC. MONTEVEGLIO
40053 VALSAMOGGIA BO
IT - Italy

Marchio | Mark



CSV-IMQ

Costruito a | Manufactured at

PL.V00037 C04354772 46539 Dinslaken Germany

Copia del presente certificato deve essere conservata presso i luoghi di produzione sopra elencati.

Copy of this certificate must be available at the manufacturing places listed above

Norme / Specifiche tecniche

Prodotto/i conforme/i alle Norme/Specifiche tecniche:
EN 50171:2001

Standards / Technical specifications

Product/s complying to Standards/Technical specifications:
EN 50171:2001

Rapporti | Test Reports

AE20-0047784-01

Caratteristiche tecniche | Technical characteristics

<i>Serie / Series</i>	S230Z
<i>Tensione nominale di ingresso / Input voltage</i>	230 V
<i>Corrente nominale massima di ingresso / Maximum input current</i>	18 A
<i>Frequenza nominale / Rated frequency</i>	50 / 60 Hz
<i>Tipo di alimentazione / Type of supply</i>	P + N
<i>Tensione nominale di uscita / Rated output voltage</i>	216 V
<i>Corrente massima di uscita / Maximum rated output current</i>	20,7 A
<i>Potenza nominale apparente / Rated apparent output power</i>	-
<i>Potenza nominale attiva / Rated active output power</i>	max 4,48 kW
<i>Carico di emergenza / Emergency load</i>	max 3,36 kW
<i>Autonomia batteria con carico di emergenza / Battery autonomy time for emergency load</i>	1 h

Articoli (con dettagli) | Articles (with details)

AR.V0020N

Marca / Trade mark **Beghelli-Prazisa**
Modello / Model **S230Z-H-SK MINI-X**
Grado di protezione contro il contatto elettrico / Degree of protection against electric shock **I**

Ulteriori informazioni | Additional Information

Cabinet S-230Z-H-SK MINI-X with dimension 1.520 x 650 x 400 mm can contain batteries with capacity from 7 Ah to 28 Ah and the maximum output power is 3.36 kW for 1 h.

The differences between customizable models S-230Z-H-SK MINI-X are the capacities of batteries that can be



connectable and the output power that can be 712 W, 1312 W, 1921 W or 3360 W as indicated in the scheme below:

Output power (1h autonomy)	battery capacity
712 W	18 X 7Ah
1312 W	18 X 12Ah
1921 W	18 X 18Ah
3360 W	18 X 28Ah

S-230Z-H-SK MINI-X:

S230Z = control unit "Sicuro 230";
H = "Hauptstation", (main station); the system can also be composed of the substations cod. S230Z-U-W.
SK = "Schrank Kombi", (combined cabinet), SK identifies a single cabinet which includes both
the electronic control part and the battery compartment.
X = number of slot output modules AKS can be 0 or 5
0 = without output (AKS modules inserted in the substation cod. S230Z-U-W)
5 = rack with 5 slots for modules AKS

Diritti di concessione | Annual Fees

SN.V00070

EMV.093300.DA19

Importo modelli IMQ - 0933 - Gruppi statici di continuita` | IMQ models - 0933 - Ups

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Annex to Approval Certificate No. CA09.00428

Issue: 1

Date: 2021-06-21

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TABLE: List of critical components					
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity*)
Fuse Battery input F21+ ; F22- (1)	MERSEN	C211947	500Vac 35A	VDE 0636 Teil 201 IEC 60269-1 und - 2	VDE; OVE; KEMA
Fuse F23+ (1)	EATON	C10G2	500Vac 2A	IEC 60269-2	-
Mains fuses F11 ; F12 ; F13 (1)	MERSEN	A222847	500Vac 20A	VDE 0636 Teil 201 IEC 60269-1 und - 2	VDE; OVE; KEMA
Fuse F111;F112; F113 (1)	EATON	C10G2	500Vac 2A	IEC 60269-2	-
Fuse I/O F301+/ F302+ (1)	EATON	C10G2	500Vac 2A	IEC 60269-2	-
Fuse 24V int F20+ (1)	EATON	C10G4	500Vac 4A	IEC 60269-2	-
Fuse 24 V ext F30 (1)	MTA	839671	32V 5A	ISO 8820	-
battery charge Fuse F114~ ; F214+ (1)	EATON	C10G4	500Vac 4A	IEC 60269-2	-
Fuse sub- station U1F1+ ;U1F2- ; U1F3~ (1)	EATON	C10G10	500Vac 10A	IEC 60269-2	-
Fuse sub- station (11kV) U2F1 ; U2F2 (1)	EATON	C10G2	500Vac 2A	IEC 60269-2	-
Power supply (2)	MEAN WELL	SDR-120-24	Input:100-240 Vac output 24 V dc 5A	EN 62368- 1:2014+A11	TuV
Battery (1)	CTM	CTL 28-12	12 V 28Ah	IEC 896- 2, DIN43534, BS 6290	-



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List of critical components scheme 232.768.101 Fuse schede					
Varistor (VR1011) (1)	EPCOS	B72220S027	275V 150J S20K275	UL-1449 IEC950 -1 Annex Q	UL 321126
RELAY K105 (1)	HONGFA RELAY	HF14FW	24V 1P HF14FW/024- HST136	UL	UL 134517
Fuse FU1012, FU1022, FU1032, FU1042 (2)	ESKA	6.3X32 632.724	T 5A 500V	-	-
List of critical components scheme 232.767.101 CPU					
VARISTOR VR7011 (1)	EPCOS	S20K275	275V 150J	UL-1449 IEC950 -1 Annex Q	UL 321126
Inductor L7021, L7031 (2)	SUMIT	CH2420221K	220UH 8.7A	-	-
Optocoupler IC701 (1)	VISHY	TCTL1003 SOP-4L	Viorm 1050	UL File: E76222, EN60065	UL, CSA,
Transformer TR2012 (2)	VAC	T60403-K5024- X044	230Vac 30mA	UL File E169721, EN 60950	UL
Inductor L704 (2)	HAM CENTER	-	100UH 1.2A 10%	-	-
List of critical components scheme 232.768.102 Fuse schede					
VARISTOR VR1011 (1)	EPCOS	B72220S027	275V 150J S20K275	UL-1449 IEC950 -1 Annex Q	UL 321126
RELAY K105 (1)	HONGFA RELAY	HF14FW	24V 1P HF14FW/024- HST136	UL File 134517	UL
Fuse FU1012, FU1022, FU1032, FU1042 (2)	ESKA	6.3X32 632.724	T 5A 500V	EN60068-2-20	-



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List of critical components scheme 232.767.102 CPU					
VARISTOR VR7011 (1)	EPCOS	S20K275	275V 150J	UL-1449 IEC950 -1 Annex Q	UL 321126
Inductor L7021, L7031 (2)	SUMIT	CH2420221K	220UH 8.7A	-	-
Optocoupler C701 (1)	VISHY	TCTL1003 SOP-4L	Viorm 1050	UL File: E76222, EN60065	UL, CSA,
Transformer TR2012 (2)	VAC	T60403-K5024- X044	230Vac 30mA	UL File E169721, EN 60950	UL
Inductor L704 (2)	HAM CENTER	-	100UH 1.2A 10%	-	-
List of critical components scheme 232.420.001					
Coil L4002 L4012 (2)	Beghelli	402.368.000	260uH	UL94	UL
Transformer TR2002 (2)	Beghelli	316.575.000	EF42	-	-
Resistance R101; R131; R400; R401 (2)	VIKING	RES SMD 25120	R 0.047 1% 1W	-	-
List of critical components scheme 232.760.001					
Coil TR500 (2)	ITALCOIL	1023S212	230 / 2x12V 0.54A	EN61558-1 EN61558-2-6	-
Fuse FU101 (1)	FUSIT	LF 5A	5x20 5A	EN 60127-2	IMQ
NTC 101 (1)	EPCOS	B57238	230V 3.9W	IEC60068-2-2 IEC60068-2-14 IEC60068-2-78	-
Varistor VR 500 (1)		Q69X	275V 75J LA20A	-	UL, CSA, VDE, CECC



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List of critical components scheme 232.652.001 INPUT					
Optocoupler IC1101 ...//... IC108 (1)	LITEON	HCPL-181- 00AE DIPSMD4	Isolation 3750Vrms	EN60747-5-5	UL, VDE, CSA, DEMKO, SEMKO, CQC
List of critical components scheme 232.622.001					
Varistor VR701 (1)	EPCOS	S20K385	620V 1000A	UL-1449 IEC950 -1 Annex Q	UL, CSA, VDE, CECC
Fuse resistance F701 (2)	PHOENIX	NFR25	22 OHM 5% 0.33W	IEC60068-2	-
Relais K701, K702, K703 (2)	XIAMEN	HFE10	coil 24V switch 50A	UL file: E134517	UL
List of critical components scheme 232.623.00.001					
Fuse resistance F601 (2)	VISHAY	NFR25	0.5W 2R2 OHM 5% NFR25H	IEC60068-2-45	-
Filter inductance L601 L603 (2)	SIEMENS	B78108-S1103- K	10UH 680MA	-	-

(1) Approved component replaceable with another one also approved with equivalent characteristics.

(2) Component tested together with the appliance.

Unless otherwise stated (1), the above components can not be replaced without IMQ authorization.