

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**

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

*for the following products*

*Central power supply system  
( Model S230Z-H-SK-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 ---

**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>	<b>S230Z</b>
<i>Tensione nominale di ingresso / Input voltage</i>	<b>400 V</b>
<i>Corrente nominale massima di ingresso / Maximum input current</i>	<b>63 A</b>
<i>Frequenza nominale / Rated frequency</i>	<b>50 / 60 Hz</b>
<i>Tipo di alimentazione / Type of supply</i>	<b>3 P + N</b>
<i>Tensione nominale di uscita / Rated output voltage</i>	<b>216 V</b>
<i>Corrente massima di uscita / Maximum rated output current</i>	<b>78,25 A</b>
<i>Potenza nominale apparente / Rated apparent output power</i>	<b>-</b>
<i>Potenza nominale attiva / Rated active output power</i>	<b>16,903 kW</b>
<i>Carico di emergenza / Emergency load</i>	<b>12,667 kW</b>
<i>Autonomia batteria con carico di emergenza / Battery autonomy time for emergency load</i>	<b>1 h</b>

## Articoli (con dettagli) | Articles (with details)

AR.V0020M

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

## Ulteriori informazioni | Additional Information

Cabinet S-230Z-H-SK-X with dimension 2.000 x 800 x 600 mm can contain batteries with capacity from 7 Ah to 110 Ah and the maximum output power is 12.667 kW for 1 h.

The differences between customizable models S-230Z-H-SK-X is the number of slot for Output modules AKS, the

capacities of battery, number of power supply that can be connectable and the output power as indicated in the scheme below:

Output power (1h autonomy)-- Battery capacity -- number of power supply --

712 W	18x 7Ah	1
1312 W	18x 12Ah	1
1912 W	18x 18Ah	1
3360 W	18x 28Ah	1
4053 W	18x 33Ah	1
5033 W	18x 44Ah	2
6456 W	18x 55Ah	2
8519 W	18x 70Ah	2
6633 W	18x 80Ah	3
11754 W	18x100Ah	3
12667 W	18x110Ah	3

S-230Z-H-SK-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 for Output modules AKS can be 0/5/8/10 or 13 .

0 = without AKS modules (AKS modules inserted in the substation cod.S230Z-U-W.

5 = rack with 5 slots for modules AKS

8 = rack with 8 slots for modules AKS

10 = two racks with 5 slots for modules AKS

13 = one rack with 5 slots and one rack with 8 slots for module AKS.

## Diritti di concessione | Annual Fees

SN.V0007N

EMV.093300.DA19

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

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**Issue: 1**

**Date: 2021-06-21**

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<b>TABLE: List of critical components</b>					
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity <sup>*</sup>
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.**