GO Bonfiglioli S2U Series Variable Frequency Drive



Variable frequency Drive: the ideal drive for your lean application projects

Intuitive and simple, but powerful and effective, S2U is Bonfiglioli compact inverter for efficient speed and torque control of electric motors.

S2U range is made of 2 frame sizes and kW rating from 0.20 kW up to 2.2 kW.

The simple installation and use, together with connectivity and outstanding range of functions, make it the perfect drive for the control of those applications where productivity and short time to market are critical.

S2U can be easily integrated into any control architectures thanks to the built-in Modbus port and the wide range standard communication configuration protocols available. Easy plug in of PC VPlus software is granted via the integrated RJ45 connector in the front of the drive.

Comprehensive service for product dimensioning and selection is available in any Bonfiglioli branch office or distributor all around the world. Cabling is made easier by spring terminals and clear terminals marking.



Mechatronics - The **Challenge** to build **your Success**

Faster, better and cheaper - this is the new challenge for machine designers!

Increasing demands on the productivity of complex system machines, more flexible machines which run at highest efficiency level are requiring now new intelligent technical solutions that enhance growth tomorrow.

Bonfiglioli has implemented a precise and detailed strategy to precisely achieve this objective!

Mechatronic Drives & Solutions division is born with the mission to improve profitability by acting as a riskless partner and a provider of energy-efficient solutions over the total lifecycle in the field of industrial automation.







Type of applications

- High environment immunity
- High braking ability without braking resistor
- High torque at low speed
- Heat sink designed for dusty environment



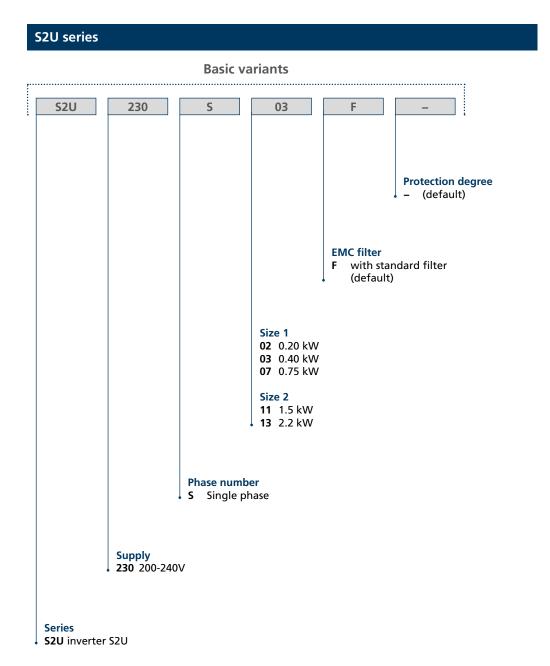






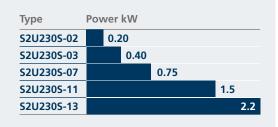


Designation



Features

- 32 bit CPU design strengthens the software's functionally, increases A/D responding speed, and enables automatic torque compensation
- Output frequency up to 650 Hz
- Modbus RS485 communication built-in for one-to-one and one-to-many control
- Links with Profibus, Devicenet, CANopen, Ethernet (TCP/IP) through gateways
- Built-in standard keypad including potentiometer for easy speed adjustment
- Links with PC VPlus software through RJ45
- EMI filter built-in for magnetic interference suppression complying with (IEC) EN61800-3 standard
- Micro size for easy installation including side-by-side and Dinrail mounting option
- PID feedback control built-in
- Suitable for conveyors, automated knitting machines, food packing machines, simple windmills and pumps
- Full protective functions
- Fanless design can effectively extend product life
- Emergency stop function built-in complying with global standard
- Panel mounting by heatsink or Dinrail option
- Earthing terminals built-in into heatsink to effectively provide grounding protection
- Flip form communication interface for easy link and dust-proof feature, with operational and protective functions







Size 1 Size 2

General technical data

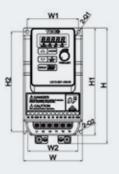
REQUENCY	Item	S2U series					
RefQUENCY	Control world	V/F					
Range Digital input: 0.01 Hz / Analog input: 0.0666 Hz Setting resolution Digital input: 0.01 Hz / Analog input: 0.0666 Hz Setting Keypad: Set directly with keys or the VR on the keypad External terminal: AVI (0-10VZ-10V), Act (0-20mx/4-20mA) input Mollfunction input uphdown function (groups) communication settings Frequency limit The lower and upper limit of frequency 3 jump frequency can be set RUN Operation set Panel: run, stop button control External terminal: Multi-operation-mode2, 3 wireselection, Jog operation, Communication operation COMMONIY CONTROL V/F curve setting 6 fixed curve, an arbitrary curve Carrier frequency 1-16 kHz (default 5 kHz) Acceleration and 2 Acc/Dec time can be set deceleration control 4 S curve can be set Multifunction input 19 functions (refer to description on group3) Multifunction nation output 14 functions (refer to description on group3) Multifunction analog output 5 functions (refer to description on group3) Oberload detection, 8 preset speeds, Auto-run, Acc/Dec switch (2stages), Main/Alt run command select, Main/Alt frequency command select, PID control, torque boost, V/F start frequency, abnormity reset and ect. DISPLAY LED Display: parameter, parameter value, frequency line speed, DC voltage, output voltage, output current, PID feedback, input and output terminal status, Heat sink temperature, Program version, Fault log and etc. Status indicator Instructions: run, stop, forward, reverse, and etc. PROTECTIVE FUNCTIONS Overload protection The relays to protect the motor and the inverter Over voltage Over 410 V dc Under voltage Under 190 V dc Under voltage Under 190 V dc Momentary power loss restart Inverter can auto-restart after power instantaneously loss Stall prevention Stall prevention for Acc/Dec operation Short-circuit output terminal Electronic circuit protection Georgia per protection features Protection Forward proverses prohibit, for direct start after power up and error recovery parameter lock up Electronic circuit protection Other prot	Control mode	V/F control + Auto-torque compensation function					
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External terminal: AVI (0-10V/2-10V), ACI (0-20mA4-10mb) restings	Setting resolution						
Panel: run, stop button control External terminal: Multi-operation-mode2, 3 wireselection, Jog operation, Communication operation COMMONLY CONTROL WF curve setting 6 fixed curve, an arbitrary curve Carrier frequency 1-16 kHz (default 5 kHz) Acceleration and deceleration control 4 S curve can be set deceleration control 4 S curve can be set deceleration and deceleration control 5 functions (refer to description on group3) Multifunction input 19 functions (refer to description on group3) Multifunction output 14 functions (refer to description on group3) Multifunction analog output 5 functions (refer to description on group3) Multifunction analog output Overload detection, 8 preset speeds, Auto-run, Acc/Dec switch (2stages), Main/Alt run command select, Other features Main/Alt frequency command select, PID control, torque boost, VF start frequency, abnormity reset and ect. DISPLAY LED Display: parameter, parameter value, frequency, line speed, DC voltage, output voltage, output current, PID feedback, input and output terminal status, Heat sink temperature, Program version, Fault log and etc. Status indicator Instructions: run, stop, forward, reverse, and etc. PROTECTIVE FUNCTIONS Over voltage Over 410 V dc Under voltage Under 190 V dc Homentary power loss restart Inverter can auto-restart after power instantaneously loss Stall prevention Stall prevention for Acc/Dec operation Electronic circuit protection Other protection features Protection Fortection Forte	Setting	External terminal: AVI (0-10V/2-10V), ACI (0-20mA/4-20mA) input Multifunction input up/down function (group3) communication settings					
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Protection class IP20	Shock	20 Hz or less 1G (9.8 m/s²) 20-50 Hz 0.6G (5.88 m/s²)					
	Protection class	IP20					

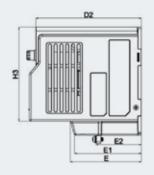
Technical data

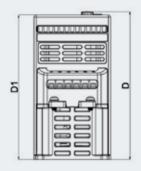
S2U230S-		02	03	07	11	13		
	T							
Max applicable motor output	kW	0.2	0.4	0.75	1.5	2.2		
Rated output current	А	1.8	2.6	4.3	7.5	10.5		
Rated capacity	kVa	0.68	1.0	1.65	2.9	4.0		
Max input voltage	-	Single phase 200-240V / 50-60 Hz (+10%/-15%)						
Max output voltage	-	Three phase 0-240V						
Input current	А	4.9	7.2	11	15.5	21		
Allowable momentary power loss time	-	1 second 2 seconds						
Protection level	-	IP20						

Dimensions

Size 1

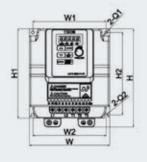


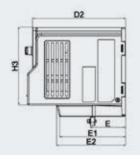


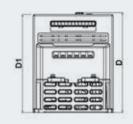


Туре	W	W1	W2	Н	H1	H2	D	D1
[mm]								
S2U230S-02 F	72	63	61	141	131	122	139.2	136
S2U230S-03 F	72	63	61	141	131	122	139.2	136
S2U230S-07 F	72	63	61	141	131	122	139.2	136

Size 2







Туре	W	W1	W2	Н	H1	H2	D	D1
[mm]								
S2U230S-11 F	118	108	108	144	131	121	147.3	144.2
S2U230S-13 F	118	108	108	144	131	121	147.3	144.2

Global Presence



Bonfiglioli is a market force with a presence spanning 22 countries on 5 continents. Our organization makes the most of geographic proximity to offer complete solutions combining efficiency and competence.











We Are a Global Company

Thanks to an international network of sales branches and closely interconnecting production plants, we can guarantee the same high standards of Bonfiglioli quality anywhere at any given time. Aware that our direct presence in local markets is the key to long-lasting success, our family includes 20 sales branches, 15 production plants and more than 500 distributors around the world.

Our organization is always close by, offering complete and efficient solutions and supporting our customers with dedicated services, such as co-engineering or after-sales assistance.







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