Three phase electricity meters B23/B24 EQ meters in Silver version from ABB

The compact and versatile EQ meters B23 and B24 in Silver versions are three phase meters with full four quadrants measuring meaning both active/reactive energy measurements, import/export of energy and tariff handling. They have outstanding performance and can be used in applications for reliable and trustworthy

EQ meters B23/B24 in Silver version can be used in stand-alone applications or metering network installations with the option of inbuilt M-Bus or Modbus.



B23 is a three phase direct connected meter up to 65 A and B24 is a three phase transformer connected for 5 A. The B23 and B24 are measuring active energy with accuracy class B (Cl. 1) or class C (Cl. 0.5 S) and reactive energy with accuracy class 2. The low rated or base currents of these products ensures high dynamic performance with superior accuracy even at low currents. Navigation of the meters is easily done via the push-buttons below the display. The exceptional low power consumption of the meters, less than 1.6 VA, makes them economical in the long run-an important feature specially for large meter populations.

Communication

Data from B23 and B24 can be collected via pulse output or serial communication. The meters are equipped with solid state outputs for 5-240 V AC/DC external supply. They can be used for pulses proportionally to the measured energy or various alarms. The meters are also available with built-in serial communication interfaces for Modbus RTU (RS-485) or M-Bus as option.

Tariff handling

The B23 and B24 have up to 4 tariffs that could be controlled either by the 2 inputs or through serial communication.

Approvals

The B23 and B24 meters are type approved according to IEC as well as type approved and verified according to MID. MID is the Measure Instruments Directive 2004/22/EC from European Commission. The type approval is according to standards that covers all relevant technical aspects of the meter. These include climate conditions, electromagnetic compatibility (EMC), electrical requirements, mechanical requirements and accuracy.



Instrumentation

The B23 and B24 meters support reading of instrument values. A large number of electrical properties can be read.

- Active power Total and per phase
- Reactive power Total and per phase
- Apparent power Total and per phase
- Current Total and per phase
- Voltage Total and per phase
- Power factor
- Frequency

Ordering details

65 A direct connected, 4 DIN

Voltage V	Communication	Туре	Order code	Weight 1 pc
Silver Active and reactive communication, 2 of			controll via inputs and ve Cl. 2	
3 x 230/400 V AC	-	B23 311 - 100	2CMA100168R1000	0.33
	RS-485	B23 312 - 100	2CMA100169R1000	0.34
	M-Bus	B23 313 - 100	2CMA100170R1000	0.35

6 A transformer connected, 4 DIN

Communication Type

	Communication	.ypc	Order code	1 pc
Silver Active and reactive of communication, 2 communication, 2 communicat			controll via inputs and active Cl. 2	
3 x 230/400 V AC	-	B24 351 - 100	2CMA100182R1000	0.27
	RS-485	B24 352 - 100	2CMA100183R1000	0.27
	M-Bus	B24 353 - 100	2CMA100184R1000	0.29



Weight

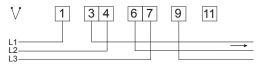
B series

Technical data

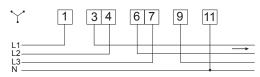
	B23	B24
Voltage/current inputs		:
Nominal voltage	3x230/400 V AC	
Voltage range	3x220-240 VAC (-20% - +15%)	
Power dissipation voltage circuits	1.6 VA (0,7 W) total	-
Power dissipation current circuits	0.007 VA (0.007 W) per phase at	230 V AC and Lorl
Base current I _b		200 7 7 6 416 150 1
	5 A	-
Rated current I _n	-	1 A
Reference current I _{ref}	5 A	-
Transitional current I _{tr}	0.5 A	0.05 A
Maximum current I _{max}	65 A	6 A
Minimum current I _{min}	0.25 A	0.02 A
Starting current I _{st}	< 20 mA	< 1 mA
Terminal wire area	1 - 25 mm ²	0.5 - 10 mm ²
Recommended tightening torque	3 Nm	1.5 Nm
Communication	1-111	
Terminal wire area	0.5 - 1 mm ²	
	0.25 Nm	
Recommended tightening torque	U.25 INITI	
Transformer ratios		
Configurable current ratio (CT)	-	1/9 - 9999/1
Pulse indicator (LED)		
Pulse frequency	1000 imp/kWh	5000 imp/kWh
Pulse length	40 ms	40 ms
General data	•	:
Frequency	50 or 60 Hz ± 5%	
Accuracy Class	B (Cl. 1) and Reactive Cl. 2	C (Cl. 0.5 S) and Reactive Cl. 2
Active energy	1%	0.5%, 1%
		0.076, 176
Display of energy	7 digit LCD	
Environmental		
Operating temperature	-40°C - +70°C	
Operating temperature	-40 0 - +10 0	
	-40°C - +85°C	······
Storage temperature	-40°C - +85°C	lays/year
Storage temperature Humidity	-40°C - +85°C 75% yearly average, 95% on 30 c	
Storage temperature Humidity Resistance to fire and heat	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (IEC	C 60695-2-1)
Storage temperature Humidity Resistance to fire and heat	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (IEC IP20 on terminal block without pro according to IFC 60529.	C 60695-2-1) Stective enclosure and IP51 in protective enclosure,
Storage temperature Humidity Resistance to fire and heat Resistance to water and dust	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (IEC IP20 on terminal block without pro according to IFC 60529.	C 60695-2-1) Stective enclosure and IP51 in protective enclosure,
Storage temperature Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (EC IP20 on terminal block without pro according to IEC 60529. Class M1 in accordance with the I	D 60695-2-1) otective enclosure and IP51 in protective enclosure, Measuring Instrument Directive (MID). (2004/22/EC
Storage temperature Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (EC IP20 on terminal block without pro according to IEC 60529. Class M1 in accordance with the I	C 60695-2-1) Stective enclosure and IP51 in protective enclosure,
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Storage temperature Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF ON Min. pulse length	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (IEC IP20 on terminal block without pro according to IEC 60529. Class M1 in accordance with the IC Class E2 in accordance with the IN 2 - 100 mA 5 - 240 V AC/DC Programmable: 1 - 999999 imp/k Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 0 - 240 V AC/DC 0 - 12 V AC/DC 57 - 240 V AC/DC 30 ms	D 60695-2-1) stective enclosure and IP51 in protective enclosure, Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC)
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Storage temperature Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF ON Min. pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF ON Min. pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF ON Min. pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (EC IP20 on terminal block without pro according to IEC 60529. Class M1 in accordance with the I Class E2 in accordance with the I 2 - 100 mA 5 - 240 V AC/DC Programmable: 1 - 999999 imp/k Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 0 - 240 V AC/DC 57 - 240 V AC/DC 57 - 240 V AC/DC 30 ms 0.55 Nm	D 60695-2-1) stective enclosure and IP51 in protective enclosure, Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC)
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Storage temperature Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF OON Min. pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Surge voltage test Immunity to electromagnetic HF-fields Immunity to conducted disturbance Immunity to disturbance with harmonics Radio frequency emission	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (EC IP20 on terminal block without pro according to IEC 60529. Class M1 in accordance with the I Class E2 in accordance with the I 2 - 100 mA 5 - 240 V AC/DC Programmable: 1 - 999999 imp/k Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 0 - 240 V AC/DC 0 - 12 V AC/DC 57 - 240 V AC/DC 57 - 240 V AC/DC 30 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4kV (IEC 61000-4-4) 80 MHz - 2 GHz (IEC 61000-4-6) 150kHz - 80MHz (IEC 61000-4-6) 15 kV (IEC 61000-4-2) IEC 62052-11, IEC 62053-21 class	D 60695-2-1) tective enclosure and IP51 in protective enclosure, Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC) Wh St. I.EC 62053-22 class 0,5 S, IEC 62053-23 class
Storage temperature Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse lought Terminal wire area Recommended tightening torque Inputs Voltage OFF ON Min. pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF Son Nim. pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to conducted disturbance Immunity to conducted disturbance Inputs Radio frequency emission Electrostatic discharge	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (EC IP20 on terminal block without pro according to IEC 60529. Class M1 in accordance with the IC Class E2 in accordance with the IC Class E2 in accordance with the IC Class E2 in accordance with the IC Programmable: 1 - 999999 imp/k Programmable: 1 - 999999 imp/k Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 0 - 240 V AC/DC 0 - 12 V AC/DC 57 - 240 V AC/DC 30 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4kV (IEC 61000-4-4) 80 MHz - 2 GHz (IEC 61000-4-6) 150kHz - 80MHz (IEC 61000-4-6) 15kHz - 150kHz EN 55022, class B (CISPR22) 15 kV (IEC 62053-21 class 2, IEC 62052-11, IEC 62053-21 class	D 60695-2-1) ptective enclosure and IP51 in protective enclosure, Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC) Wh Wh St. IEC 62053-22 class 0,5 S, IEC 62053-23 class -2006, GB/T 17215.312-2008 class 1 & 2, GB/T
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Storage temperature Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF ON Min. pulse length Terminal wire area Recommended tightening torque Inputs Voltage OFF ON Min. pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to disturbance with harmonics Radio frequency emission Electrostatic discharge Standards Mechanical Material	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (EC IP20 on terminal block without pro according to IEC 60529. Class M1 in accordance with the I Class E2 in accordance with the I Clas	D 60695-2-1) ptective enclosure and IP51 in protective enclosure, Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC) Wh Wh St., IEC 62053-22 class 0,5 S, IEC 62053-23 class -2006, GB/T 17215,312-2008 class 1 & 2, GB/T 208-2008, EN 50470-1, EN 50470-3 category B & C glass. Glass reinforced polycarbonate in bottom
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Storage temperature Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque Inputs Voltage OOFF OON Min. pulse length Terminal wire area Recommended tightening torque Inputs Voltage OOFF OSN Min. pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to disturbance with harmonics Radio frequency emission Electrostatic discharge Standards Mechanical Material Dimensions	-40°C - +85°C 75% yearly average, 95% on 30 c Terminal 960 °C, cover 650°C (EC IP20 on terminal block without pro according to IEC 66529. Class M1 in accordance with the IC Class E2 in accordance with the IC Text Programmable: 1 - 999999 imp/k Programmable: 1 - 999999 imp/k Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 0 - 240 V AC/DC 0 - 12 V AC/DC 30 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-6) 150kHz - 80MHz (IEC 61000-4-6) 2kHz - 150kHz EN 55022, class B (CISPR22) 15 kV (IEC 61000-4-2) 15 kV (IEC 61000-4-2) 15 kV (IEC 61000-4-2) 15 kV (IEC 61000-4-2) 15 kV (IEC 61000-4-6) 2kHz - 150kHz EN 62052-11, IEC 62053-21 class 2, IEC 62054-21, GB/T 17215.211 17215.322-2008 class 0,5 S, GB 4	D 60695-2-1) ptective enclosure and IP51 in protective enclosure, Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC) Measuring Instrument Directive (MID), (2004/22/EC) Wh Wh St., IEC 62053-22 class 0,5 S, IEC 62053-23 class -2006, GB/T 17215,312-2008 class 1 & 2, GB/T 208-2008, EN 50470-1, EN 50470-3 category B & C glass. Glass reinforced polycarbonate in bottom

Wiring diagram B23

3 wire connection, 2 elements

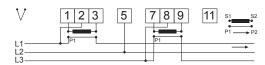


4 wire connection, 3 elements



Wiring diagram B24

3 wire connection, 2 elements



4 wire connection, 3 elements

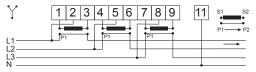


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