3.6. Power cuts or drops

The 40/50 series central unit disposes of a time delay in order to save the necessary information for the next startup should there be a power drop or cut.

Saving program internal data is only possible on the 40/50 series central unit which possesses an battery. Prior configuration of the central unit is required to save all or part of the data (see chapter 5). If the configuration is absent then all functions and internal data will be reset to 0.

The intermediate calculations of the functions used in the user program, necessary for the following cycles, are placed in variables called historic variables. It is also possible to save historic variables.

4. References

Products	Description	References
Central units		
40 Series		
07 CR 41 24VDC	Extensible stand-alone central unit, with 8 isolated inputs 24 V d.c. and 6 incorporated relay outputs 250 V a.c. / 2 A RS232 interface for programming or ASCII or MODBUS® communication 24 V d.c. power supply.	1SBP260020R1001
07 CR 41 120/230VAC	Extensible stand-alone central unit, with 8 isolated inputs 24 V d.c. and 6 incorporated relay outputs 250 V a.c. / 2 A RS232 interface for programming or ASCII or MODBUS® communication 24 V d. c. power supply output to power inputs 120 / 230 V a.c. power supply	1SBP260021R1001
07 CT 41 24VDC	Extensible stand-alone central unit, with 8 isolated inputs 24 V d.c. and 6 incorporated transistor outputs 24 V d.c. / 0.5 A RS232 interface for programming or ASCII or MODBUS® communication 24 V d.c. power supply	1SBP260022R1001
50 Series		
07 KR 51 24VDC	Extensible central unit with CS31 bus with 8 isolated inputs 24 V d.c. and 6 incorporated relay outputs 250 V a.c. / 2 A RS232 or RS485 interface for programming or ASCII or MODBUS® communication 24 V d.c. power supply	1SBP260010R1001
07 KR 51 120/230VAC	Extensible central unit with CS31 bus with 8 isolated inputs 24 V d.c. and 6 incorporated relay outputs 250 V a.c. / 2 A RS232 or RS485 interface for programming or ASCII or MODBUS® communication 24 V d.c. power supply output to power inputs 120 / 230 V a.c. power supply.	1SBP260011R1001
07 KT 51 24VDC	Extensible central unit with CS31 bus with 8 isolated inputs 24 V d.c. and 6 incorporated transistor outputs 24 V d.c. / 0.5 A RS232 or RS485 interface for programming or ASCII or MODBUS® communication 24 V d.c. power supply	1SBP260012R1001
Programming software		
ABB AC31GRAF	Programming software for central units, under Windows® 3.x, NT and 95/98. English version	1SBS260250R1001
ABB AC31GRAF	Programming software for central units, under Windows® 3.x, NT and 95/98. French version	1SBS260251R1001
ABB AC31GRAF	Programming software for central units, under Windows® 3.x, NT and 95/98. Italian version	1SBS260252R1001

3.2. Technical specification

	40 series			50 series		
	07 CR 41 24 V d.c.	**07 CT 41 24 V d.c.**	**07 CR 41 120/230 V a.c.**	**07 KR 51 24 V d.c.**	**07 KT 51 24 V d.c.**	**07 KR 51 120/230 V a.c.**
Number of I/O						
- Incorporated binary inputs	8			8		
- Incorporated binary outputs	6			6		
- Analog potentiometers	2			2		
- Maximum number of extension units per central unit	6			6		
- Maximum number of remote units on the CS 31 bus	-			31		
- Max. number of binary inputs	104			1096		
- Max. number of binary outputs	54			1046		
- Max. number of analog inputs	48			496		
- Max. number of analog outputs	12			136		
Interfaces						
- CS 31 interface	no			yes		
- Interface for: Programming MODBUS® or ASCII	1 RS 232			1 RS 232 / RS 485		
Memory						
- User program memory size: without ONLINE	17 000 words (typically: 8.5 kInstructions)			17 000 words (typically: 8.5 kInstructions)		
with ONLINE	8 000 words (typically: 4 kInstructions)			8 000 words (typically: 4 kInstructions)		
- User program memory and the constants	Flash Eprom			Flash Eprom		
- Data memory	SRAM			SRAM		
- Data backup:	yes with battery			yes with battery		
Backup autonomy	40 days at 25°C			40 days at 25°C		
Charge time under power	100% in 12 h			100% in 12 h		