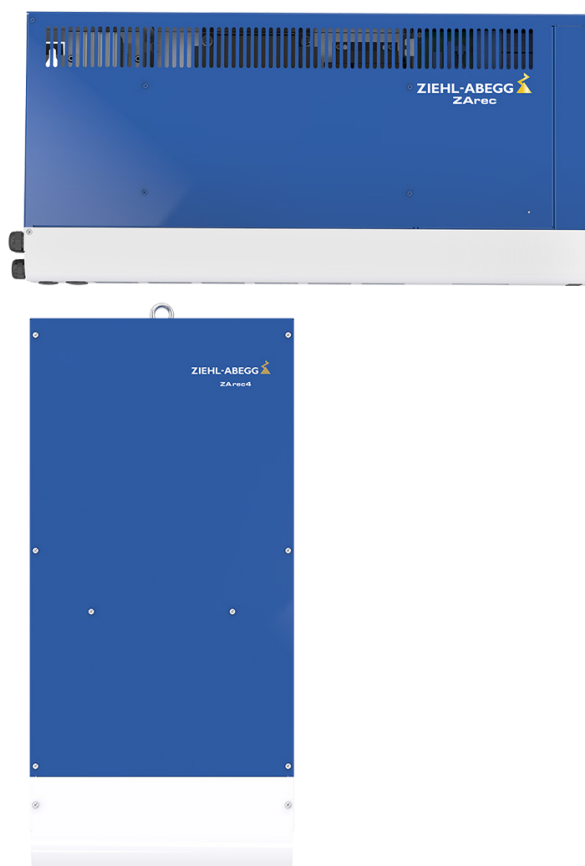


Movement by Perfection



ZAreC

Software versions

Issue 2026/07

Technical Information

Keep the instruction for future reference.

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1.1 Version 4.13 | 12.12.2025

New

Serial numbers	Support for 9-digit serial numbers
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Corrections

NTC characteristic curve	Corrected inaccuracy of approximately 3% at 50°C in the NTC characteristic curve.
Printer list	Use of EEPROM values instead of local values when sending the printer list, also for selection parameters.

1.2 Version 4.12 | 10.09.2024

Amendment

Message Error	Message 10 WRONG_ROTARY_FIELD replaced by Error 195 WRONG_ROTARY_FIELD.
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1.3 Version 4.11 | 10.01.2023

Amendment

BC-Control	BC-Control optimized regarding EMV
PLL start frequency	The default value of PLL_FH has been changed from 55 to 50 Hz. When the nominal grid frequency is changed, PLL_FH is also changed. This reduces the lock-in time.
INFO-Menü	The look of the INFO menu has been adapted to that of the ZAdyn.

Corrections

Reset 99	Description text for Reset 99 corrected
Message	After parameter errors occur and are subsequently corrected, the Msg-Info is reset to zero.

1.4 Version 4.10 | 29.07.2019

Corrections

Standby-mode	Up to now, monitoring of the mains voltage when activating standby mode was too sensitive with ZArec4C 026 and ZArec4C 039. Therefore, a faulty supply network was sometimes incorrectly detected. This resulted in the digital output RDY dropping briefly at standstill. Corrected.
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1.5 Version 4.09 | 09.05.2019

Amendment

Parameter BR_TYP	Parameter function OFF is no longer supported. If the function is selected, an error message is displayed.
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1.6 Version 4.08 | 29.03.2019

New

Parameter f_CL	New parameter function LockAll used to block the return feed function and the function of the brake resistor.
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1.7 Version 4.07 | 03.01.2018

New

Parameterization	If parameterizations are non-permissible, the message no. 3 PARAM_ERROR will be issued.
Software update	If a software-update is carried out, that will be written into the parameter Statistic/ST_LST .
Messages	In certain messages, additional information for the internal use of the ZIEHL-ABEGG are displayed.

Amendment

Info menu page 02: ENERGY	in the Info menu/page 02 the energy that was fed back in total has been shown with two positions after the decimal point
Parameter MMC-Recorder/REC_MOD	The spelling of the selection value ZETAMON was changed to ZAMon.
Evacuation mode	The detection of the EVAC mode in case of a partial mains failure was improved.

Corrections

Error list	The number of trips and the operating hours have been shown slightly incorrect in the error list. Corrected.
Parameter MOD_ERR	In case the parameter MOD_ERR = Lock n.3 Locking function after 3 errors, the ZAreC4C has been locked up to now only after the fourth error. Now, the ZAreC4C is locked after the third error.
Menu Statistic	Before a software update is carried out, the values of the parameters of the Statistic menu are saved.
Menu Statistic	Up to now, the values of the parameters in the Statistic menu have not been saved and read out correctly in parts. Corrected.

1.8 Version 4.06 | 15.12.2016

Amendment

Voltage regulator	The switch-on behaviour of the voltage regulator was reworked
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1.9 Version 4.05 | 14.04.2016

New

Software	Sizes 026 and 039 have been added to the software and will now be displayed depending on the available hardware.
Menu Basics	New parameter F_GRID for line nominal frequency
Info menü	New Info menu page 12: Ctrl Limits for controller limits
Menu Statistics , printer list	New parameter ST_GE and ST_SD have been added and are displayed in the Statistics menu and in the printer list.

Amendment

Parameter Basics/U_DC_RF	Derating of the intermediate circuit voltage is possible thanks to a new modulation process → parameter U_DC_RF is predefined with 670 V.
Parameter Basics/T_STDBY	Parameter T_STDBY can be set up to 65535 s.
Duty cycle time	The duty cycle time is now calculated in a load-dependent manner. In this way, the duration is increased until an overtemperature shut-off takes place provided the power is lower than the nominal power.

Info menu page 04: Info DUTY 10 Min	In line 4, instead of the duty cycle time of the brake resistor ED_BC_10_min the brake resistor utilization during the last 120 seconds LOAD_BR(120s) is displayed.
Parameter Basics/f_CL	Parameter f_CL is predefined with LockRec .
Error list	The formatting of the error list has been revised.

Corrections

Operation via ZApad	When leaving the configuration level, only one key activation has to be done to make the next entry.
SD card	After accessing the SD card, status messages are now displayed on the ZApad.
Evacuation	Evacuation can take place in future via LockRec in the event of failure of 1-2 phases. Up to now, the ZAreC got caught in the CALIB_ADC state. This state will be skipped in future. Up to now, the ZAreC had to be completely voltage-free on the power supply side in order to switch over to the EVAC mode. If only 1-2 phases failed, a separate contactor was necessary to switch over to the EVAC mode.
Error list	In the case of an error, the current flowing is now correctly output in the error list. Up to now, it was incorrectly output factor 10 with no digits after the decimal point, e.g. 12 instead of 1.2 A.

1.10 Version 4.04 | 14.04.2015

Amendment

Parameter Basics/T_STDBY	The parameter is preallocated with 240 s, in order to reduce the switching frequency of the contactor.
Phase failure bridging	Phase failure bridging has been improved.

Corrections

Evacuation mode	In evacuation mode, the display indicates that the brake resistor is working, even if this was not the case. Corrected.
Overtemperature warning and shut-off	The overtemperature warning and shut-off systems have been corrected.

1.11 Version 4.03 | 11.08.2014

New

Parallel operation	Parallel operation of twin ZAreC 4C013 is now possible. The new parameters U_BC_OF and ADJ_UDC have been created for this purpose. The parameter U_BC_OF allows the offset of the brake resistance intervention voltage to be adjusted. The following value was entered for the parameter ADJ_UDC: displayed intermediate circuit voltage of ZETADYN ÷ displayed intermediate circuit input voltage of ZAreC The intermediate circuit voltage of the ZETADYN is displayed on page 07 of the info menu: Brake chopper, line 3. The intermediate circuit input voltage of the ZAreC is displayed on page 06 of the info menu: Info STATE, line 4, "IN:".
Printer list	It is now possible to generate a printer list on SD card or via ZETAMON, which contains both the parameters and the recovered energy.
Error list	It is now also possible to generate the error list via ZETAMON.
Parameters, error list	Parameters are automatically pre-allocated with a default value if their values saved in EEPROM are outside the permitted range.

	As soon as this happens, the error 140: SET_PARA_TO_DEFAULT is saved in the error memory, e.g. after software update. Additional information: The number of the altered parameter is saved in the error message.
Basic menu	New parameter f_CL with which the function of the input CL can be set.

Amendment

Parameter SAV_ERR	SAV_ERR renamed in SAV_ALL. Save the error and printer lists to SD card.
Internal brake resistance	In evacuation mode, the load of the internal brake resistance is now calculated higher. The reason for this is that due to the missing control voltage, the internal fans fail and the cooling deteriorates as a result.
Error list	The formatting of the error list has been revised. In error 140: SET_PARA_TO_DEFAULT , an additional piece of information has been entered, see New functions, line Parameters, error list

1.12 Version 4.02 | 30.06.2014

Corrections

Error message 105:OVERVOLTAGE	The error message 105: OVERVOLTAGE is saved only once.
Parameter Statistic/ST_LST	The current flowing in case of an error is now saved.

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