

Bewegung durch Perfektion | Movement by Perfection

ZIEHL-ABEGG



Die Königsklasse
The Royal League

Die Königsklasse in Lufttechnik, Regeltechnik und Antriebstechnik | The Royal League in ventilation, control and drive technology



Technical Information

Software versions ZArc4C



1.1 Version 4.10
Date of issue: 29.07.2019

Corrections software bugs

Parameter / Menu / Function	New
Stand-by 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. This has now been corrected.

1.2 Version 4.09
Date of issue: 09.05.2019

Amendments

Parameter / Menu / Function	New
Parameter BR_TYP	The parameter function "OFF" is no longer supported. If the function is selected, an error message is displayed.

1.3 Version 4.08
Date of issue: 29.03.2019

New functions

Parameter / Menu / Function	New
Parameter f_CL	The parameter function "LockAll" was introduced. It is used to block the return feed function and the function of the brake resistor.

1.4 Version 4.07
Date of issue: 03.01.2018

New functions

Parameter / Menu / Function	New
Parameterization	If parameterizations are non-permissible, the message no. 3 "PARA_ERROR" will be issued.
Software update	If a software-update is carried out, that will be written into the parameter Statis-tic/ST_LST .
Messages	In certain messages, additional informations are displayed. These are intended for the internal use of the ZIEHL-ABEGG SE.

Amendments

Parameter / Menu / Function	New
Info menu page 02: ENERGY	Up to now, the energy that was fed back in total has been shown with three positions after the decimal point in the Info menu/page 02 . Now, it is shown with only 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 software bugs

Parameter / Menu / Function	New
Error list	Up to now, the number of trips and the operating hours have been shown slightly incorrect in the error list. This was corrected now.
Parameter MOD_ERR	In case the parameter MOD_ERR was parametrized to "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.
Statistic menu	Before a software update is carried out, the values of the parameters of the Statistic menu are saved. Up to now, the changes that occurred after the last daily backup were deleted in case of a software update.
Statistic menu	Up to now, the values of the parameters in the Statistic menu have not been saved and read out correctly in parts. This was corrected now.

1.5 Version 4.06
Date of issue: 15.12.2016

Amendments

Parameter / Menu / Function	New
Voltage regulator	The switch-on behaviour of the voltage regulator was reworked.

1.6 Version 4.05
Date of issue: 14.04.2016

New functions

Parameter / Menu / Function	New
entire software	Sizes 026 and 039 have been added to the software. Sizes 026 and 039 will now be displayed depending on the available hardware.
Basics menu	Parameter F_GRID has been added. The line nominal frequency is entered in the parameter.
Info menu	A new info menu page has been added. Page 12: Ctrl Limits. Controller limits are displayed on the page.
Statistics menu, printer list	The parameters ST_GE and ST_SD have been added and are displayed in the Statistics menu and in the printer list

Amendments

Parameter / Menu / Function	New
Parameter Basics/U_DC_RF	Derating of the intermediate circuit voltage is now possible thanks to a new modulation process. Thus, the parameter U_DC_RF is predefined with "670 V".
Parameter Basics/T_STDBY	The 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	The parameter f_CL is predefined with "LockRec".
Error list	The formatting of the error list has been revised.

Corrections software bugs

Parameter / Menu / Function	New
Operation via ZApad	When leaving the configuration level, only one key activation has to be done to make the next entry. Up to now, two were necessary.
SD card	After accessing the SD card, status messages are now displayed on the ZApad. Up to now, after accessing the SD card no status messages were 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).

1.7 Version 4.04

Date of issue: 14.04.2015

Amendments

Parameter / Menu / Function	New
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 software bugs

Parameter / Menu / Function	New
Evacuation mode	In evacuation mode, the display indicates that the brake resistor is working, even if this was not the case. That has now been corrected.
Overtemperature warning and shut-off	The overtemperature warning and shut-off systems have been corrected.

1.8 Version 4.03
Date of issue: 11.08.2014

New functions

Parameter / Menu / Function	New
Parallel operation	<p>Parallel operation of twin ZArc 4C013 is now possible.</p> <p>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.</p> <p>The following value was entered for the parameter ADJ_UDC: displayed intermediate circuit voltage of ZETADYN ÷ displayed intermediate circuit input voltage of ZArc</p> <p>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 ZArc is displayed on page 06 of the info menu: Info STATE, line 4, "IN:".</p>
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	<p>Parameters are automatically pre-allocated with a default value if their values saved in EEPROM are outside the permitted range.</p> <p>As soon as this happens, the error "140: SET_PARA_TO_DEFAULT" is saved in the error memory (e.g. after software update). The number of the altered parameter is saved in the error message as additional information.</p>
Basics menu	The new parameter "f_CL" has been introduced, with which the function of the input "CL" can be set.

Amendments

Parameter / Menu / Function	New
Parameter "SAV_ERR"	The parameter "SAV_ERR" has been renamed to "SAV_ALL". It helps 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")

1.9 Version 4.02
Date of issue: 30.06.2014

Corrections software bugs

Parameter / Menu / Function	New
Error message "105: OVERVOLTAGE"	Until now, the error message "105: OVERVOLTAGE" has been saved twice in the error memory. Now, it is saved only once.
Parameter Static /ST_LST	The current flowing in case of an error is now saved.

Customer Service

phone +49 7940 16-308
fax +49 7940 16-249
drives-service@ziehl-abegg.com

Headquarters

ZIEHL-ABEGG SE
Heinz-Ziehl-Strasse · D-74653 Kuenzelsau
Germany
phone +49 (0) 7940 16-0 · fax +49 (0) 7940 16-249
drives@ziehl-abegg.de www.ziehl-abegg.com