
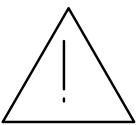


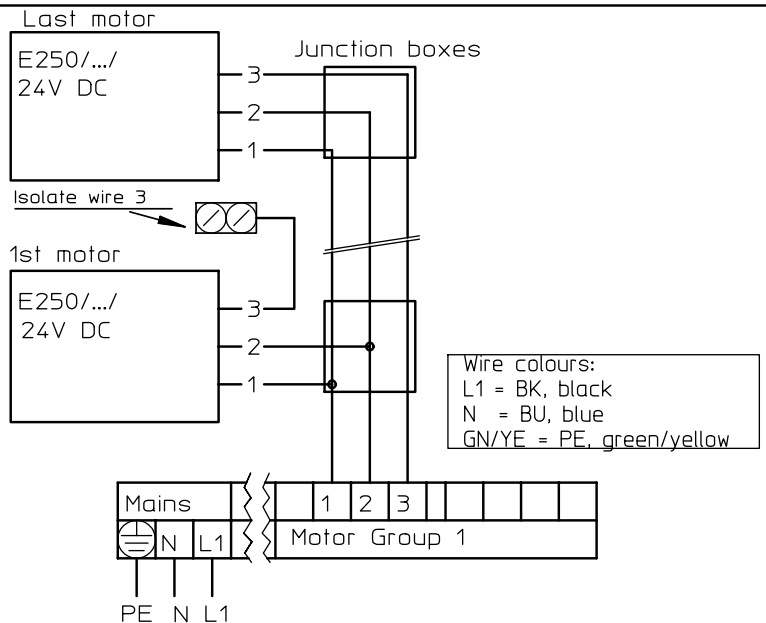
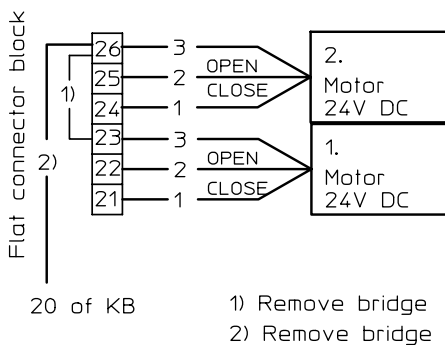
## IMPORTANT

 When opening and closing the window, the drive is stopped by the integrated load cut-off, whereby tensile and pressure forces of up to 750N occur for every stroke position. Inattention can lead to serious injuries caused by crushing and clamping ! NEVER PUT YOUR HAND BETWEEN THE CASEMENT AND THE FRAME WHILE THE CASEMENT IS MOVING

- |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GENERAL  | <ul style="list-style-type: none"> <li>* When assembling and disassembling the drive, the window is not secured against tilting or slamming shut !</li> <li>* Adhering to the locally applicable building codes in each case, as well as the generally applicable accident prevention rules, DIN standards and VDE regulations must be guaranteed.</li> <li>* The length of the connecting line has to be selected as to guarantee tripping of the short-circuit protection device.</li> <li>* In order to reduce the risk of mechanical damage, the line must not be longer as required in practice.</li> <li>* Also applicable are the guidelines for power-operated windows, doors and gates ZH1/494 from the main association of the industrial trade associations, main office for accident prevention and occupational health.</li> <li>* When using the spindle drive in outside areas, please refer to information from the manufacturer beforehand</li> <li>* All assembly and installation works must therefore be carried out by qualified personnel Assembly (mech.): Window or metal builders installation (electr.): qualified electric company</li> </ul> |
| ASSEMBLY | <ul style="list-style-type: none"> <li>* For maintenance purposes, the drive must be fitted in an accessible position.</li> <li>* During assembly ensure that the drive does not jog the structural part in any setting. Ignoring this precaution can lead to the destruction of the drive !</li> <li>* Ensure that drive and casement bracket align &gt;no misalignment&lt;</li> <li>* The secure cable transfer casement-frame must be guaranteed by the processing operation. Prevent crushing and shearing of the cable.</li> <li>* Screw fasteners (casement/frame) in such a way that the occurring forces are securely transferred.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## NOTES ON ELECTRICAL INSTALLATION

- 
- \* The necessary wiring to and at the window must be carried out by the customer
  - \* Laying lines and connections only by authorised electric company.
  - \* Fix circuit diagram to the motor with adhesive tape for the electricians information.
  - \* Junction boxes must be accessible, do not place cords under plaster
  - \* When operating 2 drives at 1 window casement, a tandem shutdown (E100/24V, mat. No. 072485) must be used.
  - \* Implement supply line monitoring and test run with wire 3 of the last motor. Strip wire No. 3 for the other motors of the group **CAUTION: SHORT CIRCUIT DANGER**
  - \* Test drive every motor group with separate power supply 24V and intermediate in-line amperemeters, alternatively with GEZE adjusting device, Ident. No. 02754. Approx. 1A is required per motor, therefore 8A for 8 motors. At least 20V must be available at the last motor during the run, otherwise load cut-off will not occur.
  - \* The motor must switch off via the load cut-off for opened and closed windows. Afterwards, an idle current of max. 35mA may flow per motor. If more current flows then 1 or more motors did not switch off !
  - \* If the function of the motors is guaranteed by the previous procedure, the monitoring line of the last motor can be connected to the central. Perform accumulator connection and test run via the button and smoke switch.



Terminal block emergency power centre E12 T2/1-24V

Terminal block emergency power control centre E250N / E260N



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## Connecting plan E250 (24V-DC)

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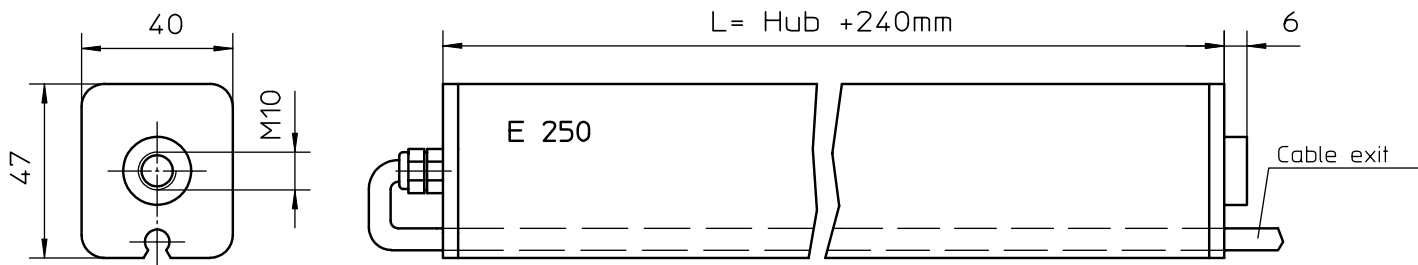
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ID No. 111010

tbe7



### PARTS LIST E250

P.C.S.	Designation	EV1	D-bronze	White 9010	RAL	White 9016
1	E250/___/24V: Special stroke length and colour of choice	21239				
1	E250/750/24V	21068	21069	21070	21072	21071
1	E250/700/24V	21063	21064	21065	21067	21066
1	E250/500/24V	16458	16465	16470	16471	16472
1	E250/300/24V	16473	16474	16475	16476	16477
1	E250/230/24V	70595	70596	70597	70598	70599
1	E250/200/24V	16478	16479	16480	16481	16482
1	E250/150/24V	16483	16484	16485	16487	16488
1	E250/100/24V	16489	16490	16491	16493	16494

### TECHNICAL DATA ON E250

Designation	Length L	Stroke	Lifting power
E250 Special length, colour of choice: Length=Stroke+240			
E250/750/24V	990 ±1	750 mm	750 N
E250/700/24V	940 ±1	700 mm	750 N
E250/500/24V	740 ±1	500 mm	750 N
E250/300/24V	540 ±1	300 mm	750 N
E250/230/24V	470 ±1	230 mm	750 N
E250/200/24V	440 ±1	200 mm	750 N
E250/150/24V	390 ±1	150 mm	750 N
E250/100/24V	340 ±1	100 mm	750 N
Load cut-off	for 750N lifting power		
Protection type	IP 65 - only for dry rooms -		
Connection voltage	24V-DC		
Length of connecting cable	2m, 3x0.75mm <sup>2</sup> optional 10m		
Current consumption	0.9A per motor		
Temperature range	-20 to +70°C		
Duty cycle	100%		
Opening time	100mm stroke corr. to ca.20s *)		
Assembly Instr. Stand. panel	45130/9-968, ID No.: 19131		
Assembly Instr. Panel inw.	45130/9-980, ID No.: 27233		

### PARTS LIST STANDARD PANEL

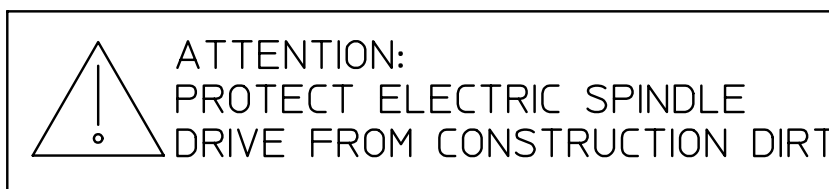
P.C.S.	Designation	EV1	D-bronze	White 9010	RAL	White 9016
1	Standard panel	19032	20874	20877	20878	20879
	Contents:	2 headless set screws M8x16 DIN915 2 hexagon nuts M8 ISO4035 4 cap screws M5x10 DIN916 are included in the packaging				
1	Standard panel					
1	Eyebolt					
1	Case ment bracket Fz63F					

### PARTS LIST PANEL INWARDS

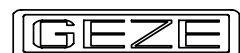
P.C.S.	Designation	EV1	D-bronze	White 9010	RAL	White 9016
1	Panel, inwards	27218	27219	27221	27222	27223
	Contents:	2 headless set screws M8x16 DIN915 2 hexagon nuts M8 ISO4035 4 cap screws M5x10 DIN916 are included in the packaging				
1	Panel, inwards					
1	Eyebolt					
1	Case ment bracket Fz63F					

### PARTS LIST FOLDING PANEL

P.C.S.	Designation	EV1	D-bronze	White 9010	RAL	White 9016
1	Folding panel	19144	19145	19146	19147	19148
	Contents:	4 cap screws M5x10 DIN912 1 counters. screw M5x40 DIN7991 are included in the packaging				



ATTENTION: Spindle drive may not be opened!



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Connecting plan E250 (24V-DC)

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