

# VEW 6DT1043; VEW 6DT1044

## Thyristor Controller 2,2kW; 5,5kW

Redesign

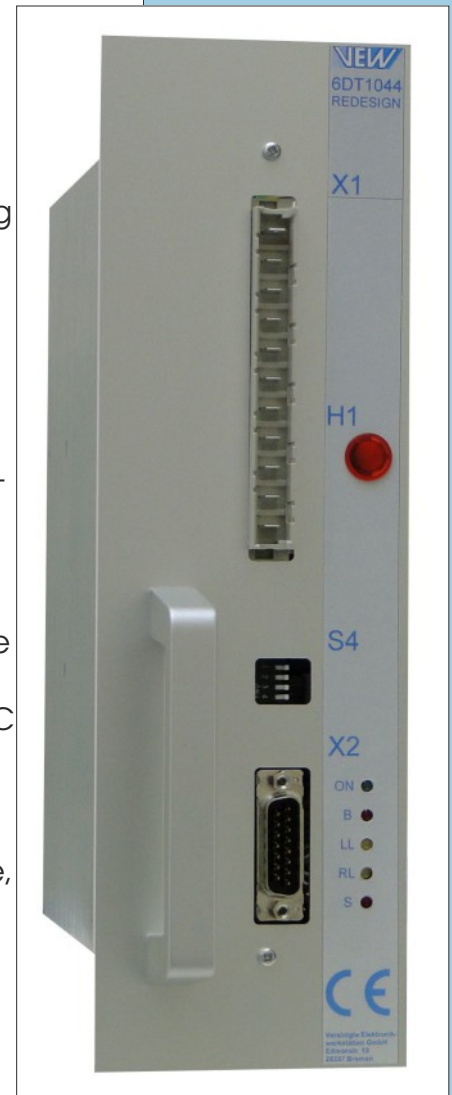
The thyristor controllers of the manufacturer Siemens are no longer available as original devices. The new development, the redesign of the devices, is completely compatible in size and function and can be replaced plug-and-play at the existing installation location. The units are available with a power of 2.2kW and 5.5kW in a 19" rack with 6U height 265mm, width 80mm (1.6HP). The construction is designed with a large, full-surface heat sink for a max. ambient temperature of max. 70°C. The overload protection is 50%.

The function is that of a 3ph reversing contactor with switchable auto-dc brake that can be switched on, when stopping and changing direction. The running direction of a connected three-phase drive is influenced by the means of a thyristor-controlled phase change. The respective running direction RL-LL as well as the response of the DC brake is indicated by LEDs on the front panel of the unit (B, LL, RL, S). Between each change of direction and stop, the automatic brake with adjustable duration of action (17ms to max. 530ms) can be switched on. The DC brake can be switched off. The logical input conditions for RL-LL control are interlocked. The change of the logical conditions on only one input during operation does not lead to a change of direction of the drive control.

Interference pulses are suppressed. The blocking input is superordinate to the logic for controlling the direction. If this is set during operation, the drive is controlled without a DC brake (Enable). If the automatic DC brake is configured on the hardware, the set braking time runs after each actuating pulse and after every change of direction, after the fixed release time for the thyristors. For the set braking time, a thyristor string is operated as a rectifier in phase control for the set braking time, so that the winding builds up a static magnetic field that brakes the rotor. The free-wheeling time of the thyristors is 13.5ms or 27ms, depending on how the assembly is configured. In the event of a direction change, the free-wheeling time before and after the preset braking time adds up to a total time after which the drive reverses the direction of rotation e.g. 13.5ms + 85ms + 13.5ms = 102ms.

The control also includes monitoring of the mains supply, the system voltage and the temperature. Each of the 3 monitoring circuits can be configured by selector switch S4 and trigger a corresponding signalling, which can be processed externally by a higher-level system.

6DT1044 can replace 6DT1043. But 6DT1043 cannot replace 6DT1044 because of higher switching power.



VEW 6DT1044 RED

### Samples available from stock

#### Technical Data:

Input supply	: 380V/ 400V AC; 3Ph
Power	: 6DT1043: 2,2kW; 6DT1044: 5,5kW
Input logic	: 24V level; RL; LL; enable (stop)
Brake	: with/without; configurable, 17ms to 530ms, accessible from back
Interference signal linkage	: Switch S4, 4 settings accessible from the front

**VEW**<sup>®</sup>  
DIE ENTWICKLER

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