ABB Thyristor power controller
DCT880, 16 A to 4160 A

- Ideal to control electro-thermal processes
- 16 A to 4160 A
- 400 V / 525 V / 690 V
- Suitable for resistive and inductive loads as well as for infrared heaters
- Reduces energy costs by means of integrated load management and Multitap
- User-friendly and flexible

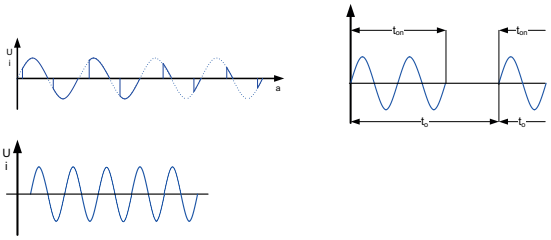
Power and productivity
for a better world™

Simplifying your world without limiting your possibilities!

DCT880 the new simplicity
Demanding industrial customers receive a high level of user friendliness using the DCT880. It is equipped with the advantages of the ABB ACS880 drive family, the multilingual plain text control panel, a USB interface and advanced PC tools.

Programming of applications
The DCT880 has three free process controllers. It can be precisely tuned using CoDeSys programming to the needed requirements. Additionally it can be combined with other components such as ABB PLCs and HMI.

Flexible control
The variety of control methods (phase control, full-wave burst control, half-wave control and I-, U-, P- and I^2 control) ensures that even the most demanding applications with short rise times or a high hot / cold ratio can be controlled dynamically and accurately.

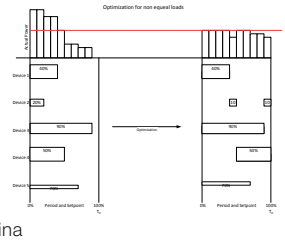


Removable memory unit
Stores all the software and parameter configurations in an easily replaceable and simple-to-install module.

Integrated current measurement
The high-precision 3-phase current measurement ensures a precise calculation of the load resistance. Thus a detailed load circuit monitoring is enabled and the system availability is significantly increased.

Remote monitoring
With a built-in web server, NETA-21 makes worldwide access easy to industrial applications.

Load optimization *
Reduction of peak loads using optimized load balancing in parallel operation of multiple devices which communicate directly with each other.



* currently not available in USA and China

Thyristor Power controller DCT880

With the new DCT880 ABB offers its customers a thyristor power controllers for precise control of resistive or inductive heaters and infrared heaters in applications for annealing, drying, melting or heating in glass, plastic or metal industry.

Intuitive human-machine interface
Intuitive, high-contrast and high-resolution display enabling easy navigation in multiple languages.

Startup and maintenance tool
PC tool for startup, configuration, process tuning and daily use. The PC tool used for the well known ABB ACS880 drives family is connected via Ethernet or USB interface.

Communication with all major automation networks
Fieldbus adapters enable connectivity with all major automation networks.

Tailor made solutions
ABB offers ready to use cabinets solutions with or without integrated transformers. They are tailored according to individual requirements.

Extended connectivity
In addition to the standard interfaces, the drive has three built-in slots for additional I/O extension modules.

ABB Thyristor Power controller DCT880

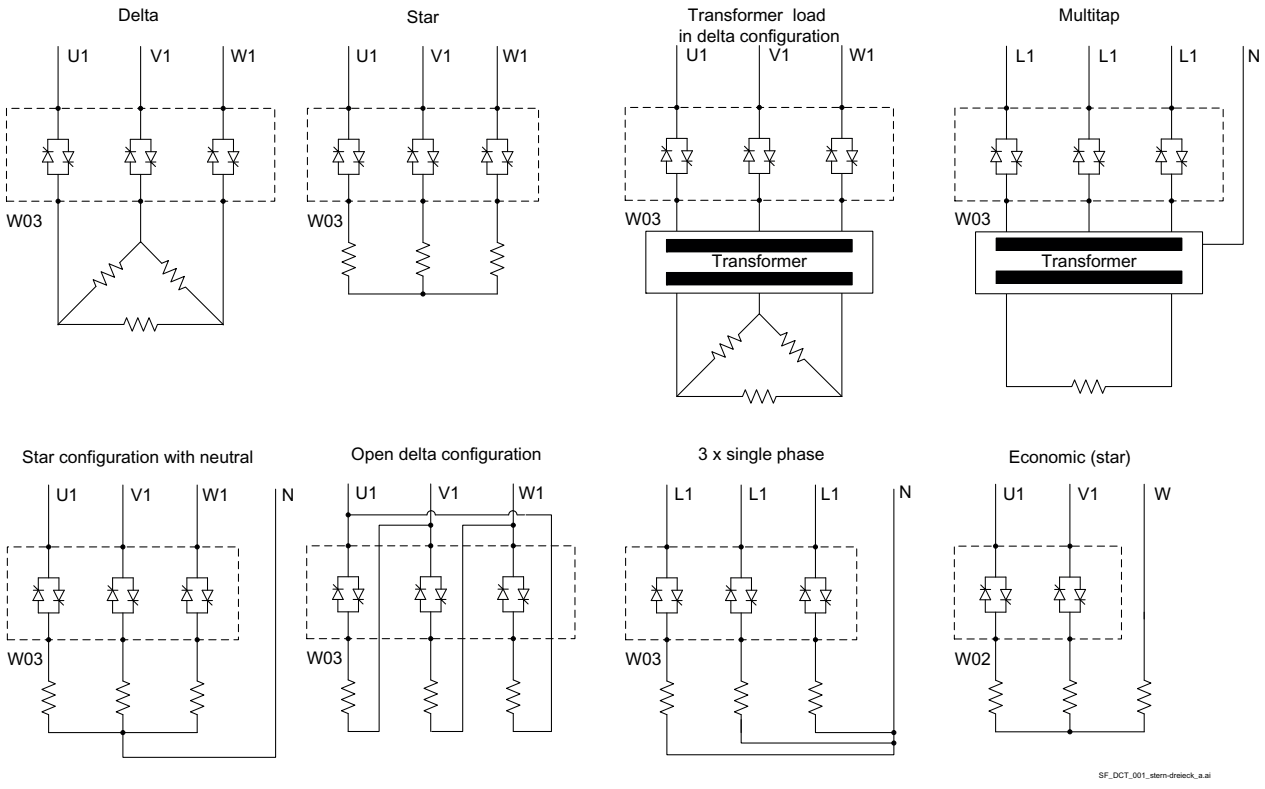
T1, T2

T3

T4, T5

Size	Rated current	Mains voltage [V_{AC}] W03 3-phase			W02 2-phase			Dimensions
	I_{AC} [A]	110/230	400/525	690	110/230	400/525	690	h*w*d [mm]
T1	16	●	●	●	●	●	●	370*270*215
	36	●	●	●	●	●	●	
	52	●	●	●	●	●	●	
	72	●	●	●	●	●	●	
	100	●	●		●	●		
T2	144	●	●	●	●	●	●	370*270*271
	184	●	●		●	●		
T3	252	●	●	●	●	●	●	459*270*317
	324	●	●	●	●	●	●	
	376	●	●		●	●		
T4	488	●	●	●	●	●	●	644*270*352
	592	●	●	●	●	●	●	
	720	●	●		●	●		
T5	960	●	●		●	●		750*270*372
T6	1600	on request up to 690 V						1050*510*417
T7	2400	on request up to 800 V						1750*460*417
T8	4160	on request up to 1200 V						1750*760*577

Load configuration



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