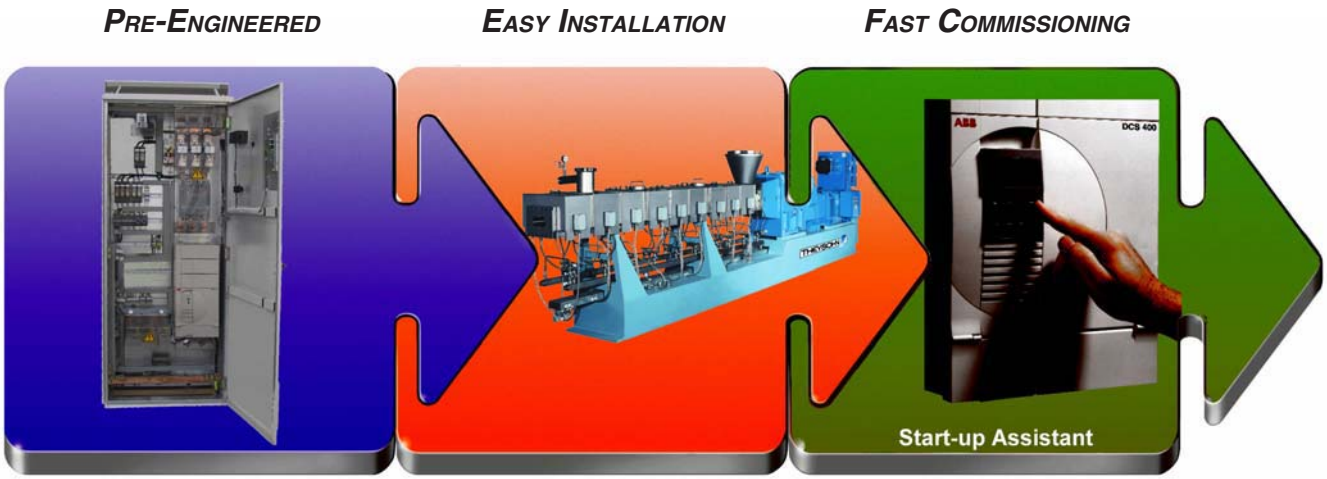
Thyristor Power Converters
in Standard Cabinets
for DC Drive Systems

EASY DRIVE

DCS 400
285 A...900 A DC
230 V...500 V AC, 3-phase



DCS 400 Easy Drive

User's advantages

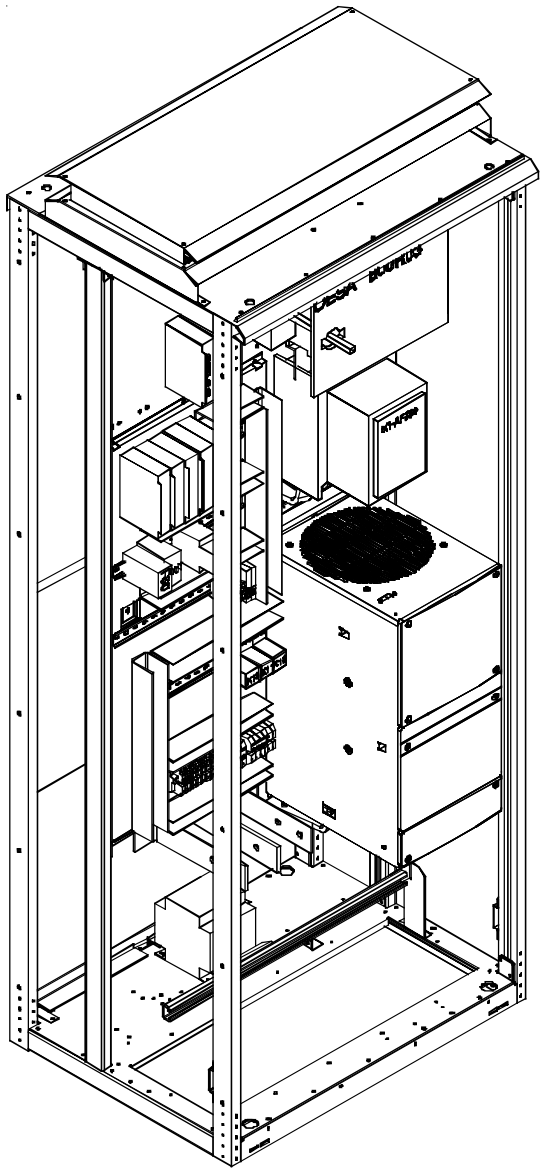
- Fast delivery
- Preengineered, standardized and type tested cabinets
- Additional free space for user's purposes
- Drive cabinets according to EMC directives (Line filters optional)
- Cost-saving and competitive solution, ready for connection
- Range 300 A...900 A (4-Q)
  285 A...810 A (2-Q)
- One size fits all
  Only one compact cabinet size:
  2120 x 860 x 636 mm (H x W x D)

Scope of delivery

- Enclosed cabinet with two side sheets.
  Protection class: IP21
  Colour: Light Grey (RAL 7035)
- Line Choke
- AC mains contactor
- Fuse-disconnector, incl. Fuses
- Thyristor power converter DCS400 incl. integrated field supply
- Auxiliary transformer for cabinet internal electronics voltage supply incl. fuses and breaker
- Control circuit F60 for motor fan up to 11 A
- Auxiliary contactors for signals On/Off, Start/Stop, Emerg.-Stop and Reset for signal voltage 230 V AC

Technical Data

- Rated supply voltage 230 V...500 V AC ±10%, 3-phase
- Rated Frequency 50 Hz or 60 Hz ±5%
- Field output voltage 50…440 V
- Field output current 0.3…16/20 A



Cabinet type	Rated armature current I_{DC} [A]
DCS401.0315-S 2-Q	285
DCS402.0350-S 4-Q	300
DCS401.0500-S 2-Q	430
DCS402.0550-S 4-Q	480
DCS401.0610-S 2-Q	540
DCS402.0680-S 4-Q	600
DCS401.0900-S 2-Q	810
DCS402.1000-S 4-Q	900

DCS 400 features

- Integrated field supply:
  No external wiring or fuses.
  Smooth field current due to new IGBT-Field-Technology ⇒
  Prolonged brush lifetime 5-25% depending on application.
- Start-up Assistant for a fast and user-friendly commissioning
- PC-Tool Drive Window Light for convenient parameterization and even more comfortable use of the Start-up Assistant
- 8 pre-defined Software Makros for a wide range of applications

Front door equipped with

- DCS400 – Panel with four selectable actual values visible at the same time
- Handle of the switch fuse with door interlocking
- Emergency Stop Button

Delivery Program

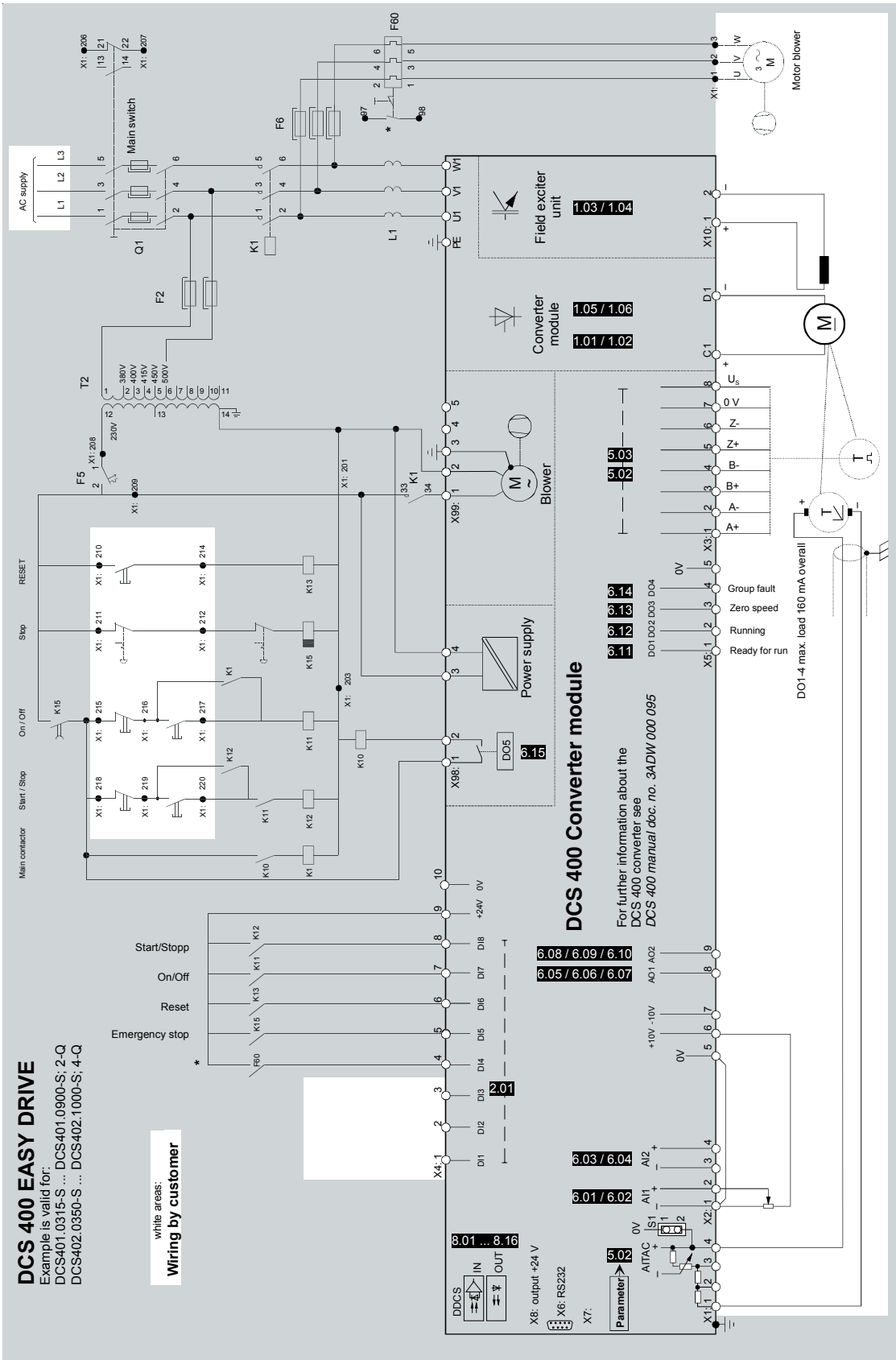
For lower currents please consider our ***DCE 400 plus*** complete drive modules in IP00, with built-in mains contactor, mains fuses, motor blower starter and aux. transformer. For further information please refer to doc. no. *3ADW 000152 - DCE 400 plus-* flyer.

Rated field current I_F [A]	F60 range Motor blower [A]	Dimensions H x W x D mm (approx.)	Weight kg (approx.)
0.3...16	1.70 ... 2.40	2120 x 830 x 636	271
0.3...16	3.50 ... 5.00	2120 x 830 x 636	274
0.3...20	7.50 ...11.00	2120 x 830 x 636	424
0.3...20	7.50 ...11.00	2120 x 830 x 636	434

Technical alterations reserved

Connection example and Scope of delivery

(shaded in grey):



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