

Description

The Power-D-Box is a compact 2U power distribution system made of aluminium in an enclosure with anodised front plate. Protection of the loads is by means of hydraulic-magnetic circuit breakers.

Ordering information

PDB	Standard Power-D-Box 19" with interchangeable ETSI flange - 19"
	Protected pole
	N negative pole protected
	Module
	D X8345-D01
	xx Number of ways (total)
	Main terminals
	R on the rear
	Load terminals
	R on the rear
	F on the front
PDB - N - D 08 - R F	ordering example

Preferred types

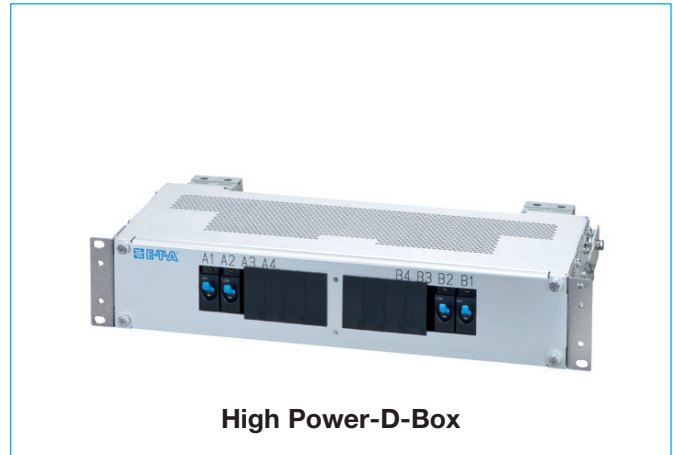
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High Power-D-Box:

- PDB - N - D 06 - RF: load current max. 65 A with 2 x 3 ways
- PDB - N - D 06 - RR: load current max. 125 A with 2 x 3 ways
- PDB - N - D 08 - RF: load current max. 65 A with 2 x 4 ways
- PDB - N - D 08 - RR: load current max. 125 A with 2 x 4 ways
- PDB - N - D 10 - RF: load current max. 65 A with 2 x 5 ways
- PDB - N - D 10 - RR: load current max. 85 A with 2 x 5 ways
- PDB - N - D 12 - RF: load current max. 65 A with 2 x 6 ways
- PDB - N - D 12 - RR: load current max. 85 A with 2 x 6 ways

Features

- Plug-in type circuit breakers, 8345-.01.-W0, extendable in service, with or without auxiliary contact, load per way 0.1...125 A
- Extremely compact design (installation depth 310 mm)
- Standard redundant design (2 x 3, 2 x 4, 2 x 6)
- Group signalling for redundant line entry A and/or B is standard
- To be used with industrially manufactured power distribution modules (X8345-D01), protected against brush contact
- Labelling strips for individual marking
- Blank covers (bulk shipped)
- Cable clamp rail (X 223 260 01) optional as accessory
- Redundancy bridge to cancel redundant line entry (optional)
- Integral jumper ground to plus pole (freely configurable by the customer as an option)
- Other versions are available upon request (e.g. with series fuse, separate circuits, non-redundant circuits, customer-specific marking, protected plus pole etc.)



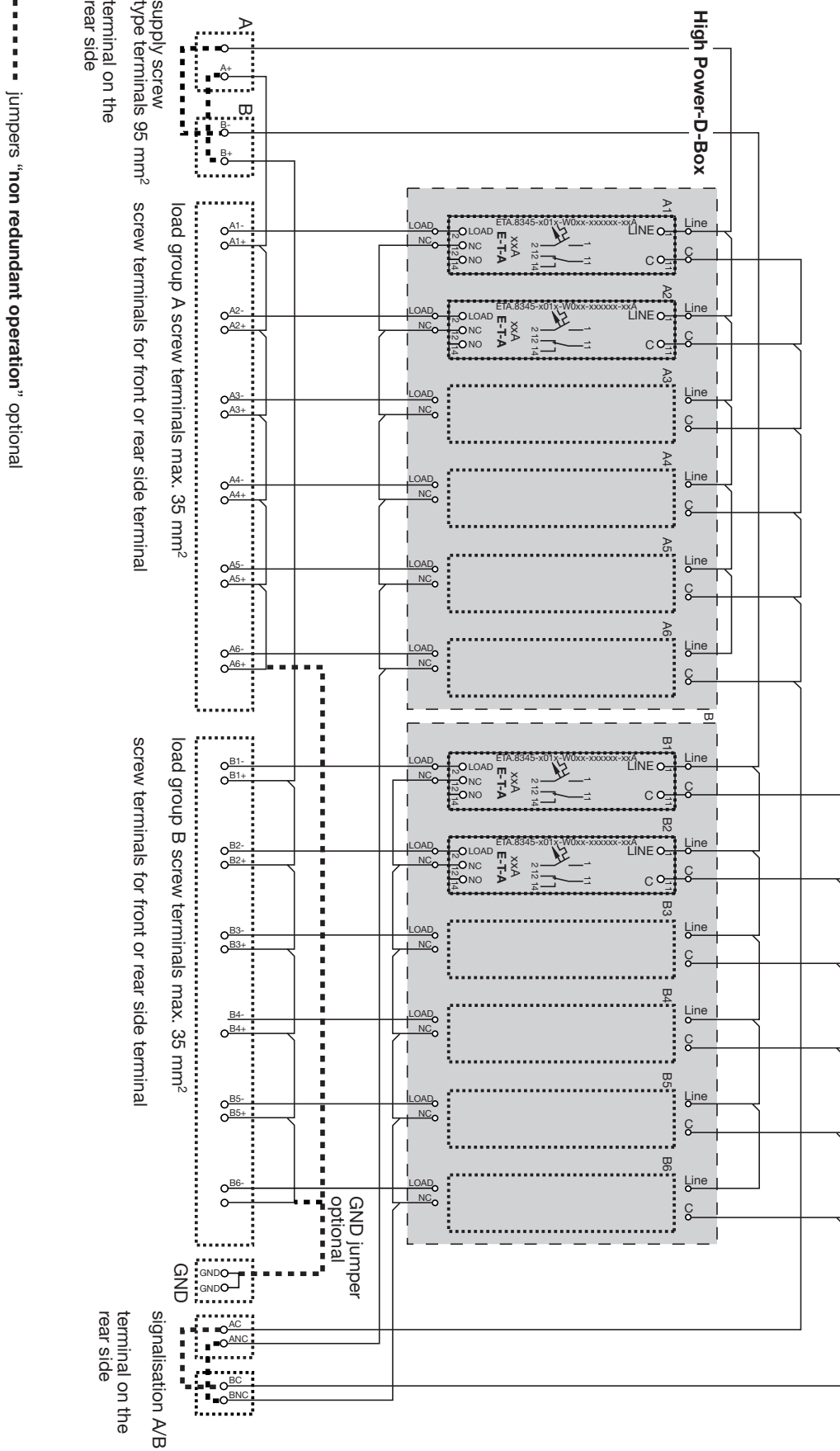
High Power-D-Box

Technical data

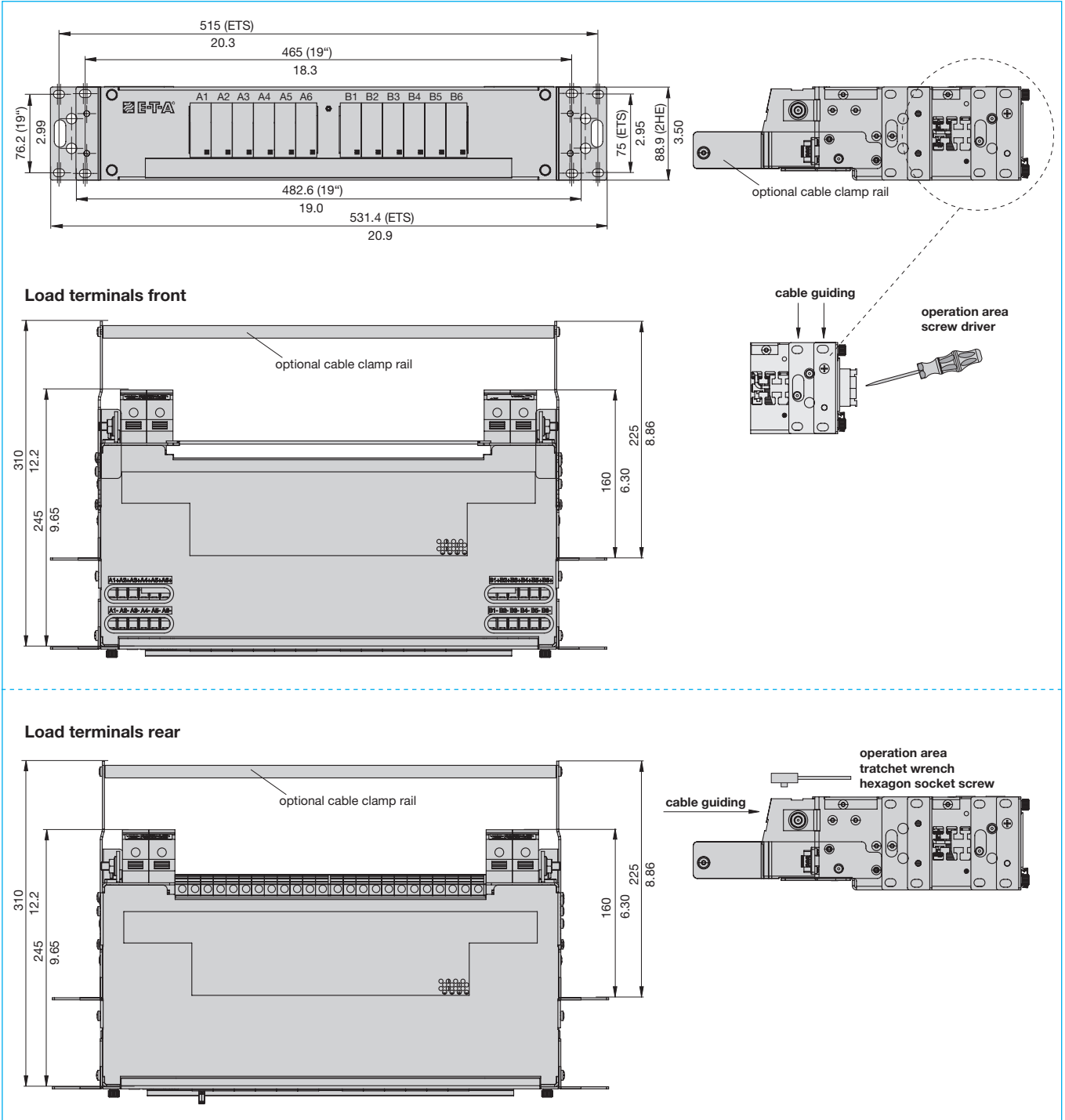
19" Power-D-Box	length	84 modules (426.72 mm)
	height	2 U (88.90 mm)
	material:	aluminium
Plug-in type circuit breakers	8345-.01A-W0..-DB3B2B-..	
	with and without auxiliary contact module X8345-S01KW102-M	
Rated voltage	DC 48 V, DC 65 V, DC 80 V (other voltage ratings upon request)	
Load	125 A per plug-in unit (when using circuit breakers rated 80 A plus, total load of the neighbouring slots must not exceed 160 A)	
Total current per supply	232 A total current at ambient temperature -30...60 °C (-22 °F...140 °F)	
Fire resistance (IEC 60695, part 2-2)	self-extinguishing	
Terminal design*		
Supply feed	35...95 mm ² , multistrand, screw-type terminal 25...95 mm ² with wire end ferrule	
Loads	1.5...35 mm ² , multistrand, screw-type terminal 1.5...35 mm ² with wire end ferrule	
Signalling Ground	screw-type terminal 1.5 mm ² bolt (M8)	
Weight	ca. 7.5 Kg	
Conformity	UL60950-1, EN60950-1	

*(detailed values on page 1- 90)

Schematic diagrams



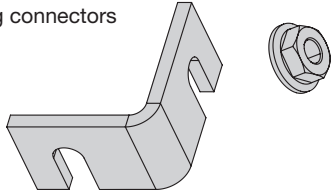
Dimensions



Accessories

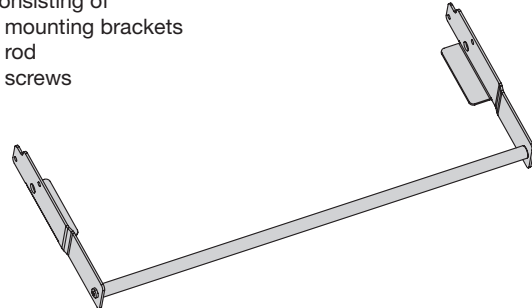
Grounding connector incl. mounting material (connection plus to earth, fitted when delivered)

X 223 259 01
consisting of:
2 grounding connectors
4 nuts



Cable clamp rail (fitted when delivered)

X 223 260 01
consisting of
2 mounting brackets
1 rod
6 screws



Redundancy jumper set incl. mounting material for PDB-N-D08 (change redundant 2 x 4 to non-redundant 1 x 8, fitted when delivered)

X 223 264 01
consisting of
2 redundancy jumpers
4 screws



	load terminals				supply feed
	terminals	max current load	rear	rear	terminal 95 mm ² 232 A
PDB - N - D 06 - RF	10 mm ²	65 A		1.5 bis 1.8 Nm	15 bis 20 Nm
PDB - N - D 06 - RR	35 mm ²	125 A	3.2 bis 3.7 Nm		15 bis 20 Nm
PDB - N - D 08 - RF	10 mm ²	65 A		1.5 bis 1.8 Nm	15 bis 20 Nm
PDB - N - D 08 - RR	35 mm ²	125 A	3.2 bis 3.7 Nm		15 bis 20 Nm
PDB - N - D 10 - RF	10 mm ²	65 A		1.5 bis 1.8 Nm	15 bis 20 Nm
PDB - N - D 10 - RR	16 mm ²	85 A	2.5 bis 3 Nm		15 bis 20 Nm
PDB - N - D 12 - RF	10 mm ²	65 A		1.5 bis 1.8 Nm	15 bis 20 Nm
PDB - N - D 12 - RR	16 mm ²	85 A	2.5 bis 3 Nm		15 bis 20 Nm

Grounding M8 - 6 Nm

Terminal group signalisation 1.5 mm² - 0.22 bis 0.25 Nm

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.