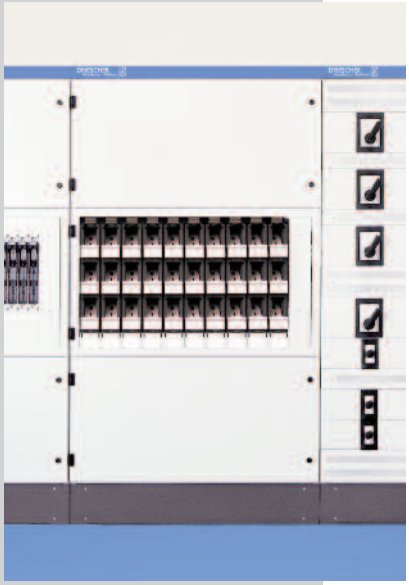
DRIESCHER

Low-voltage Distributions

- Series 88 - Vamocon
- tested for resistance to accidental arcing
- Acc. to EN 61439-2 tested



Driescher Moosburg
switching • electricity • safety
www.driescher.com

5000A

Moosburg • Eisleben

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DRIESCHER - Low-voltage distributions

acc. to the valid instructions of DIN, VDE and EN

Contents

Technical Data

International protection acc. to DIN EN 60529	up to IP 5X
Safety precaution	with protective conductor (Protection class I)
Category of over-voltage	III
Degree of pollution	3
Interior division acc. to IEC 61439-2	part 1 - 4b
Protection class	1 earthed
Rated current I_n	up to 5000 A
Rated voltage U_e	230 / 690 V AC
Rated insulation voltage U_i	1000 V
Rated peak withstand current resistance I_{pk}	330 kA
Rated short-time current resistance I_{cw}	150 kA / 1s
Biggest dimensions allowed	width 1200 mm height 2200 mm (plus socket 100/200 mm, plus canopy 60 mm)
Biggest transportation unit allowed	width 1250 mm height 2460 mm depth 1075 mm
Ambient temperature	-5 up to +40° C
Ambient temperature (average value 24h)	+35° C
Relative humidity	50% at 40° C

Electrical varieties of components:

- Feeding with circuit breaker from Eaton, ABB, Schneider, Siemens, GE
- Outgoing feeder downwards / upwards; with low-voltage fuse switch disconnector from DRIESCHER, SASIL-J. Müller, SLIMLINE-ABB, EFEN, Jung, Pronutec

General

Protection against internal arcs
The series 88 offers the highest possible safety from the effects of an arc.

The protection from the effects of an arc is the highest requirement a power distribution has to meet. Doors and covers may not either open or remove nor may burn holes occur in parts of the casing.

Indicators may not inflame and the circuit of the protective conductor has to stay functional. The series 88 offers this protection. Test of IPH acc. to IEC 61641 respectively VDE 0660 Part 500/2 that have been successfully passed, confirm that the protection and health of the personnel is given any time.

For an additional increase of safety we can optionally offer you arc barriers in the panel frame as well as insulated main bus bar systems.

Series 88

The ingenious ventilation makes high currents in compact installations possible. Without further accessory the ventilating apertures combine a high airflow with a high protection class.

The screwing of the bus bars is and remains accessible from the front. Sockets are available in different heights, but also without a socket, the doors can be opened and closed without problems in case of uneven underground.

Series 88 with open door

DRIESCHER – Low-voltage Distributions

Series 88

Special features:

DRIESCHER – low-voltage distributions type 88 correspond to the valid instructions of VDE.

- tested acc. to DIN EN 61439-2.
- approved DRIESCHER long-life cycle through galvanized section steel frames.
- best quality and highest personnel and operating safety.
- highest safety from the effects of an arc.
- protection class up to IP 5x.
- short delivery times because of the flexibility of the modular system.
- above the outgoing circuits with additional place for the installation of measuring devices, control devices, etc.
- all panels are mounted and wired in the factory and delivered ready for connection.
- on requirement empty panels with mounting plates matching to the closed construction are available.
- sheet steel covers are available in all RAL-colours (standard colour RAL 7035 powder coated).
  All sheets are aluminium zinc galvanized.
- highest possible operating safety and reliability with the proven DRIESCHER low-voltage fuse switch disconnector type 403 (see booklet of the trade association: “Safety during working on electrical installations”).

DRIESCHER – Low-voltage Distributions

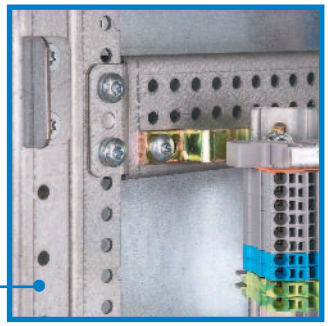
Series 88

double edged doors with ventilation, earthing and mounting bolts as standard

front cover for labelling, ventilation on the top

hinge 180° with locking for the mounting of the door (electric arc safe)

25 mm and 12.5 mm perforation in all frame profiles

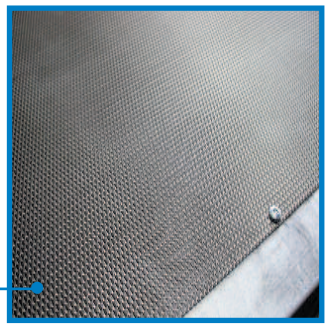


doors with turning lever and lock or quarter-turn lock

socket with 100 or 200 mm on desire

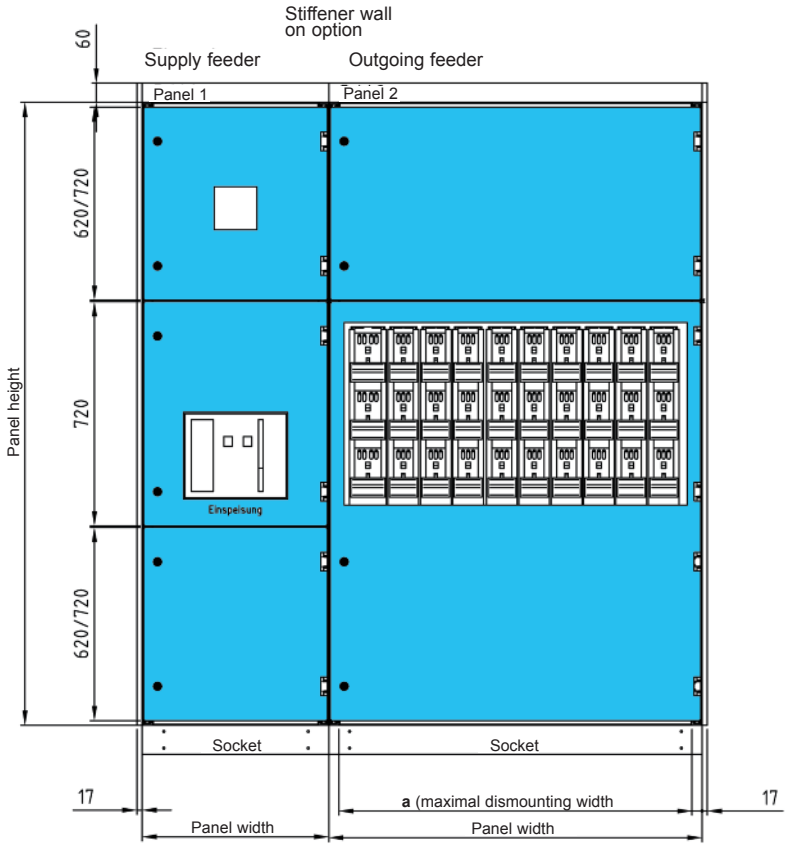
lower shelf, support for circuit breaker, support for bus bar support and door stop in one

expanded metal cover (0.9 mm), protection class IP 4x



DRIESCHER – Low-voltage Distributions

Series 88



Supply feeders

Pos	Equipment (3-pole)	panel width	a	possible panel depth	possible panel height
Pos. 1	on request	400	335	425, 625, 825, 1025	2000, 2200
Pos. 2	ABB E1, 3WL BG1, Schneider NT16, further on request	500	435	425, 625, 825, 1025	2000, 2200
Pos. 3	ABB E3, 3WL BG2, Schneider NW40, further on request	600	535	425, 625, 825, 1025	2000, 2200
Pos. 4	ABB E4, 3WL BG3, Schneider NW40, further on request	850	785	425, 625, 825, 1025	2000, 2200
Pos. 5	ABB E6, 3WL BG3, Schneider NW40, further on request	1000	935	425, 625, 825, 1025	2000, 2200
Pos. 6	on request	1200	1135	425, 625, 825, 1025	2000, 2200

Outgoing feeders with 403 systems

Pos	Equipment	Equipment alternative	panel width	a	possible panel depth	possible panel height
Pos. 1	on request		400	335	425, 625, 825, 1025	2000, 2200
Pos. 2	4 x 400 A		500	435	425, 625, 825, 1025	2000, 2200
Pos. 3	5 x 400 A	2 x 630 A + 2 x 400 A	600	535	425, 625, 825, 1025	2000, 2200
Pos. 4	7 x 400 A	2 x 630 A + 5 x 400 A	850	785	425, 625, 825, 1025	2000, 2200
Pos. 5	8 x 400 A	2 x 630 A + 6 x 400 A	1000	935	425, 625, 825, 1025	2000, 2200
Pos. 6	10 x 400 A	2 x 630 A + 8 x 400 A	1200	1135	425, 625, 825, 1025	2000, 2200

Outgoing feeders with 203 systems

Pos	Equipment	Equipment alternative	panel width	a	possible panel depth	possible panel height
Pos. 1	on request		400	335	425, 625, 825, 1025	2000, 2200
Pos. 2	4 x 400 A		500	435	425, 625, 825, 1025	2000, 2200
Pos. 3	5 x 400 A		600	535	425, 625, 825, 1025	2000, 2200
Pos. 4	7 x 400 A		850	785	425, 625, 825, 1025	2000, 2200
Pos. 5	9 x 400 A		1000	935	425, 625, 825, 1025	2000, 2200
Pos. 6	11 x 400 A		1200	1135	425, 625, 825, 1025	2000, 2200

Multipart sockets 100 mm and 200 mm high are optionally available in all panel dimensions.

Checklist for the planning of low-voltage switchgears

• please remove or copy and send back to Elektrotechnische Werke Fritz Driescher & Söhne GmbH
85366 Moosburg • Phone +49 87 61 6 81-0 • Fax **+49 87 61 6 81-1 37** •
vertrieb.nsp@driescher.de

Sender

Company _____
First name _____ Surname _____
Department _____
Street _____
Post code _____ Place _____
Phone _____ Fax _____
email _____ http _____

Rated transformer power _____ kVA
Rated current - bus bar _____ A
Network _____

Series

☐ 88 Colour _____

Supply feeder

☐ fuse disconnector LTL 4a • _____ A

☐ circuit breaker including adjustable short-circuit trip and overload trip
☐ rated current _____ A
☐ fixed mounting ☐ plug-in device
☐ manual actuator ☐ motor actuator
☐ with operating current release _____ V
☐ with undervoltage release _____ V undelayed
☐ with undervoltage release _____ V delayed 0,5 up to 4s.
☐ with normal auxiliary switch Nhi (2C+2O)
☐ with relative auxiliary switch Rhi (2C+1O)
☐ with leading auxiliary switch Vhi (2C+1O)

☐ with current/voltage measurement (including fuse protection of the station lighting)
☐ with analog indicating devieces
☐ with mulitfunction device type _____ Fabr. _____

Outgoing feeder

___ low-voltage fuse switch disconnector ☐ 403 ☐ 203 / 400 A (NH 2)
___ low-voltage fuse switch disconnector ☐ 403 ☐ 203 / 630 A (NH 3)
___ low-voltage fuse switch disconnector ☐ 403 ☐ 203 / _____ A
___ reserve positions ☐ 403 ☐ 203 / _____ A
___ low-voltage fuse switch disconnector 301 / 160 A (NH 00)
___ reserve positions 301 / 160 A

☐ outgoing circuit 1-pole or ☐ 3-pole
☐ outgoing circuit with connecting screws M12 x 35 mm
☐ outgoing circuit with V-connecting terminal 50 up to 300 mm² se
☐ outgoing circuit with direct connecting terminal 50 up to 185 mm² se
☐ with outgoing measurement 1-pole (L3)
☐ with outgoing measurement 3-pole
☐ with inspection window in the instrument board

Further options _____

Agents in Germany (00 49) :

Berlin Dresden

Büro Dresden
Michael Böhm
Hallstätter Straße 12a
01279 Dresden
Tel. (03 51) 2 50 24 29
Fax (03 51) 2 50 24 38
Mobil (01 60) 96 00 62 96
michael.boehm@driescher.de

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Schkeuditz

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Am Storchennest 10
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norbert.essmann@driescher.de

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horst.haering@driescher.de

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Carl-Benz-Straße 13
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Fax (0 88 61) 9 33 62 89
Mobil (01 51) 14 13 07 73
bernhard.scheucher@driescher.de

München (Bayern-Süd)

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Fax (0 80 95) 87 24 24
info@ib-biebl.de

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Tel. (0 88 60) 9 22 94 69
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Fax 72 29 7 83 40
karl.kihrer@kihrer.at

Agents in Switzerland (0041) :

Villmergen

Cellpack Power Systems AG
Schützenhausstraße 2
CH-5612 Villmergen
Tel. (0 56) 6 18 18 18
Fax (0 56) 6 19 88 04
power.systems@cellpack.ch

Agents in Turkey (0090) :

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Inter-Teknik
Elektrik Ticaret ve Sanayi LTD. STI. IST.
Rihtim Caddesi Fatih Ishani 33/10
34425 Karaköy-Istanbul
Tel. (212) 2 49 84 58
Fax (212) 2 51 61 45
www.inter-teknik.com.tr

Agents in China (0086) :

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Industries Development Zone,
710077 Xi`an, P.R. China
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www.xadriescher.com

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drizich@ipnet.cz

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Prazakova 36
CZ-61900 Brno
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Fax (05) 43 21 66 19
dribo@dribo.cz

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Husitska 2
SK-11601 Stara Tura
Tel. (08 34) 76 37 22
Fax (08 34) 76 24 59

Agents in the USA (001) :

Detroit

Park Power Distribution Systen
19197 Sherwood Ave.
Detroit, Michigan 48234-2880
Tel. (3 13) 3 66 22 00
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park.det@ix.netcom.com

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60012 Norrköping
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Fax +40 2 69 23 22 25
www.general-management.ro

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