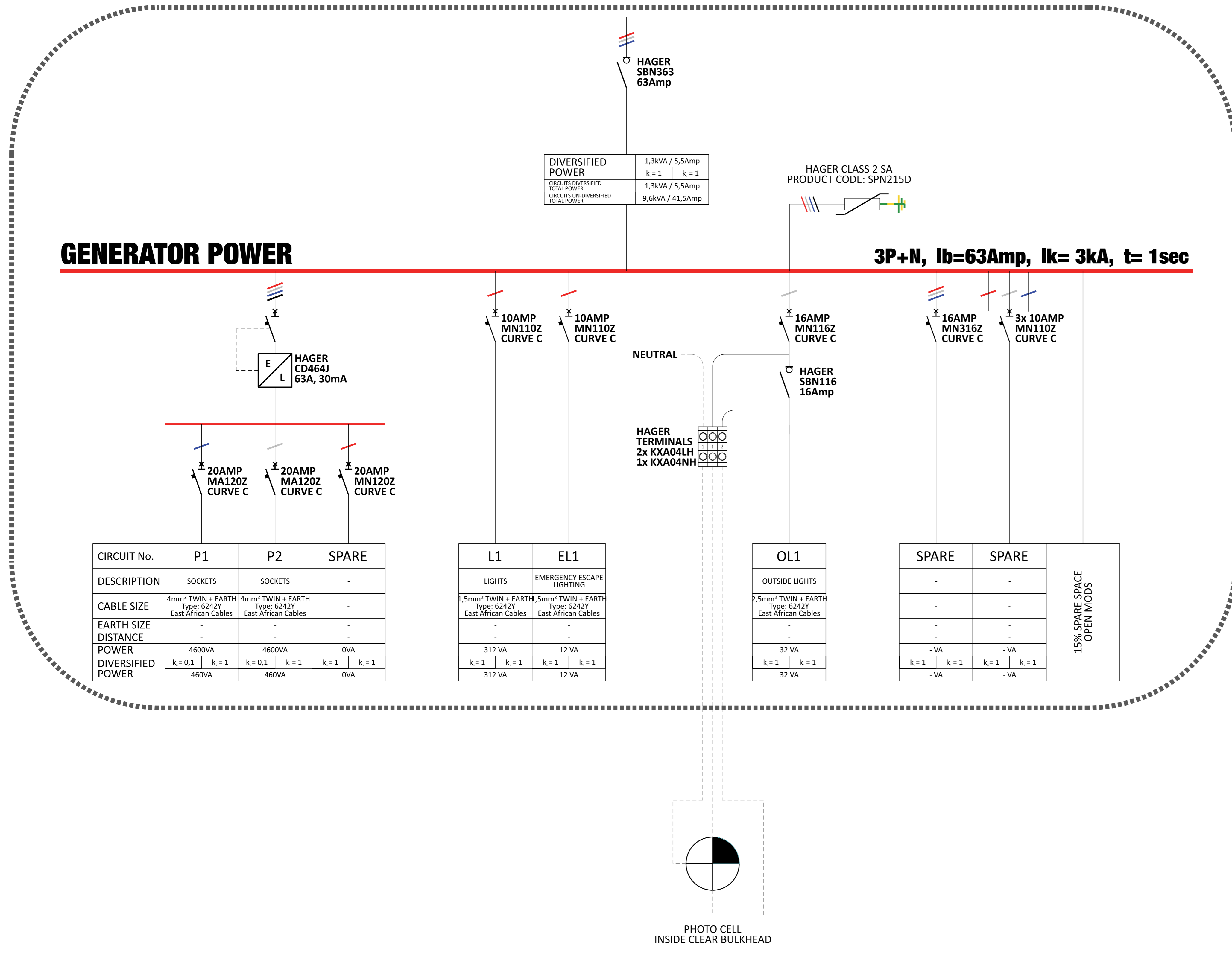


DB-LAB

FROM MDB
6mm² x 5-CORE CU/XLPE/SWA/PVC
Type: 6943 Table 10 - East African Cables
UPSTREAM CIRCUIT BREAKER:
40AMP



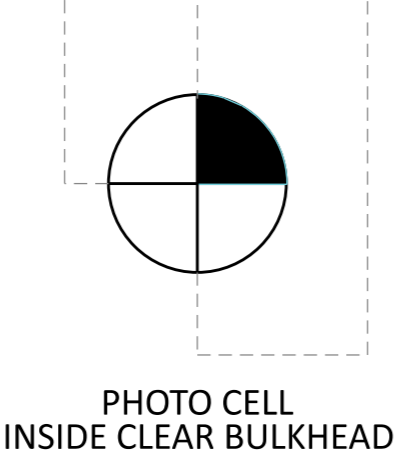
DIVERSIFIED POWER	1,3kVA / 5,5Amp
CIRCUITS COVERED	k=1 k=1
TOTAL POWER	1,3kVA / 5,5Amp
CIRCUITS UNCOVERED	
TOTAL POWER	9,6kVA / 41,5Amp

CIRCUIT No.	P1	P2	SPARE
DESCRIPTION	SOCKETS	SOCKETS	-
CABLE SIZE	4mm ² TWIN + EARTH Type: 6242Y East African Cables	4mm ² TWIN + EARTH Type: 6242Y East African Cables	-
EARTH SIZE	-	-	-
DISTANCE	-	-	-
POWER	4600VA	4600VA	DVA
DIVERSIFIED POWER	k=0.1 k=1	k=0.1 k=1	k=1 k=1
	460VA	460VA	DVA

L1	EL1
LIGHTS	EMERGENCY ESCAPE LIGHTING
1,5mm ² TWIN + EARTH Type: 6242Y East African Cables	1,5mm ² TWIN + EARTH Type: 6242Y East African Cables
32 VA	12 VA
k=1 k=1	k=1 k=1
32 VA	12 VA

OL1
OUTSIDE LIGHTS
2,5mm ² TWIN + EARTH Type: 6242Y East African Cables
32 VA
k=1
32 VA

SPARE	SPARE	15% SPARE SPACE OPEN MODES
-	-	-
-	-	-
-VA	-VA	-
k=1 k=1	k=1 k=1	-
-VA	-VA	-



DANGER SIGN ON DOOR



DB MAIN LABEL:

DB-LAB (LABORATORY)
SUPPLIED FROM MDB
6mm² x 5-CORE
3kA / 63AMP BUSBAR

LABELING DETAILS:

- PREVER 3M Grafoplast S12K EVO Thermal Printing System or TRAFFOLYTE Engraving
- MATERIAL: TRAFFOLYTE
- LETTERING/NUMBERING COLOUR: BLACK
- DB MAIN LABEL: MAIN DISCRPTION: 10-15mm TEXT SIZE
FIXED BY LABEL HOLDER OR RIVITED
SECONDARY INFO: 5mm TEXT SIZE
FIXED BY LABEL HOLDER OR RIVITED
- BREAKER LABELS: 5mm TEXT SIZE
FIXED BY ALUMINIUM LABEL HOLDER
- EARTH LEAKAGE NEUTRAL BARS: 5mm TEXT SIZE - "E/L NEUTRAL BAR"
FIXED BY RIVITS
- DEHN SURGE ARRESTORS WIRING: GREEN/YELLOW INSULATED
MAY NOT BE PARALLEL/TIED TO PHASE OR NEUTRAL WIRING
90 DEGREE BENDS TO BE AVOIDED IF POSSIBLE
SEE MANUFACTURERS WIRING INSTRUCTIONS

FOR TENDER PURPOSES ONLY

THE Invicta DR SERIES PANEL DESIGN REQUIREMENTS

HAGER Invicta DR Series Enclosures are robust and aesthetic. Easy to install, compact size and with a large wiring space the consumer unit range is presented in flush and surface mounting versions enclosures and dedicated to an indoor use. The range includes boxes with capacities of 1 row up to 6 rows and from 16 to 96 and completed with 3 types of flap with an integrated maintaining position system.

Delivered with: Plain metallic door or transparent cut on metallic door and removable DIN rail chassis

Rated voltage (Ue): 230/400V AC 50Hz
Nominal current (In): 63A
Material: 1,2mm thick sheet steel epoxy powder coated enclosure
Colour: RAL 9002 - Grey white - powder coated
DIN rail switchgear mounting
Standard enclosures: 1 to 6 rows x 400mm wide x 110mm depth

DESCRIPTION / ITEM	REQUIRED / COMMENT
REQUIRED TO COMPLY TO INTERNATIONAL STANDARD:	BS EN 61439-3
GLOW WIRE TEST	IEC 61439-1
PANEL TYPE	HAGER Invicta DR Series
IP RATING	IP40
FORM TYPE	Form 1
IK RATING (IK07 or IK08) - (IP31 = IK07 / IP55 = IK08)	IK05

SPECIFIC REQUIREMENT FOR THIS DISTRIBUTION BOARD

MAKE	Hager
MODEL & CATALOGUE REFERENCE	INVICTA DR - DR48S
DESCRIPTION & SIZE	3 rows 48 mods, 625mm x 405mm x 110mm
LOCAL SUPPLIER	NABICO Enterprises, Nairobi, +254 (79) 773 5154 Biren Shah biren@nabico.co.ke +254 (73) 373 2327
MOUNTING	Surface mount
PLAIN SOLID DOORS Code: DRxxF	Not required
TRANSPARENT DOORS Code: DRxxFT	Required
DOOR LOCKS	Not required
NEUTRAL BAR	Required
EARTH BAR	Required
INTERNAL WIRING BY BOARD SUPPLIER	Required
SWITCHGEAR	Hager

THE DISTRIBUTION BOARD MANUFACTURER:

ALL WIRE TERMINATIONS NOT TERMINATED IN CIRCUIT BREAKERS MUST BE DONE WITH BOOTLACE FERRULS
Normally all Neutrals, Earths, control wiring and all wiring terminated in screw terminals
Hellermann Tyton Square (quad) profile crimpers to be used;
Crimper YACS for 0,5 - 6mm² & Crimper YVTB6 for 6 - 16mm²

THE DISTRIBUTION BOARD MANUFACTURER:

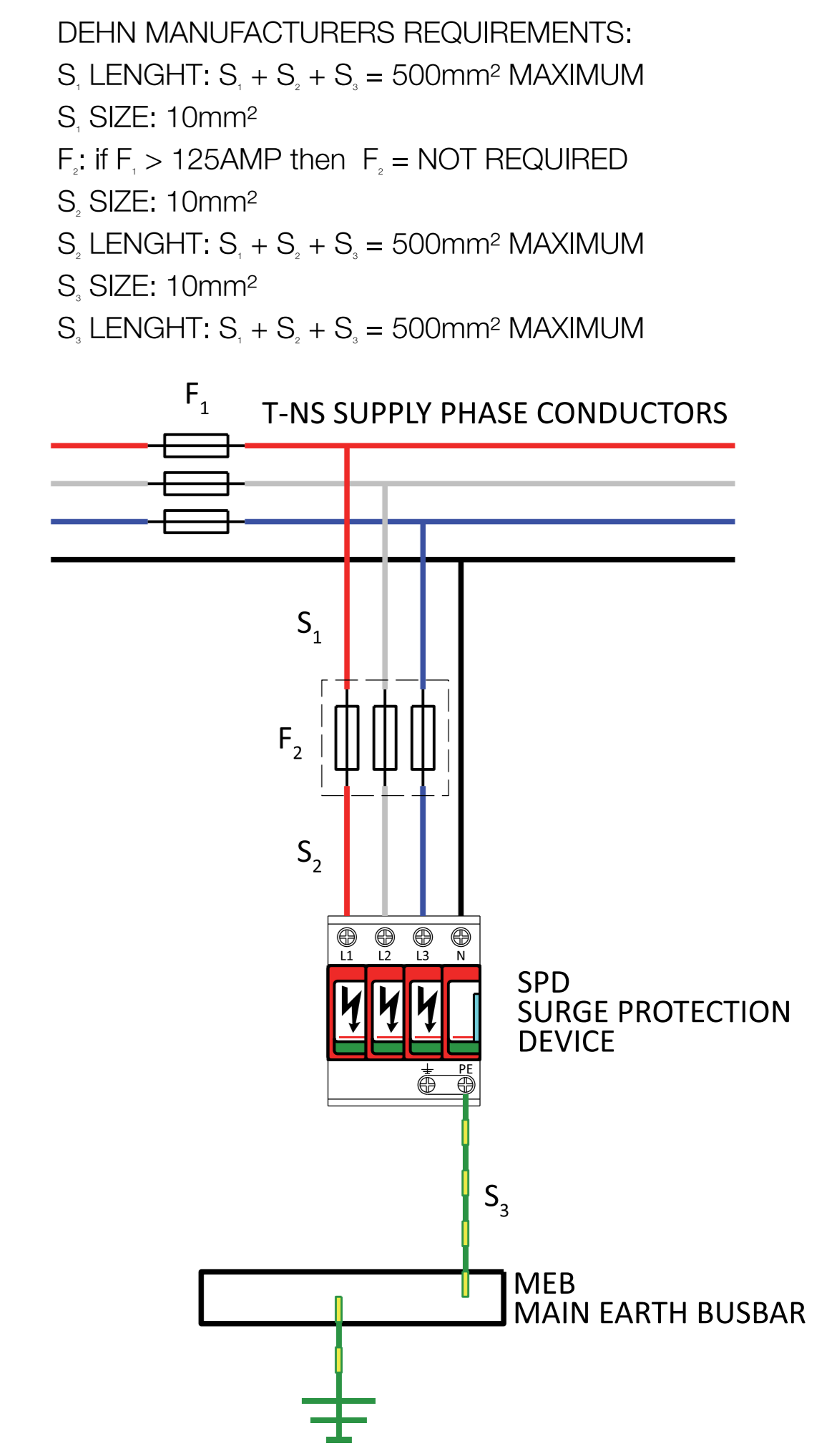
MUST ENSURE THAT ALL CIRCUIT BREAKER SETTINGS IS SET AS PER ENGINEERS INSTRUCTIONS. THE BOARD MANUFACTURER MUST ALLOW IN HIS RATES FOR THE SWITCHGEAR / CONTROLLER SUPPLIERS TO DO ALL SETTINGS IN THE MANUFACTURERS WORKSHOP

THE DISTRIBUTION BOARD MANUFACTURER:

CONTROL WIRING MUST BE WIRED IN GREY WIRING. EACH WIRE END OF CONTROL WIRING MUST BE LABELED WITH HELLERMANN TYTON HELAGRIP MARKERS

FOR CONTRACTORS:

ALL THREE WIRES OF EACH CIRCUIT MUST BE LABELED WHERE IT TERMINATE ON THE CIRCUIT BREAKER / NEUTRAL BAR & EARTH BAR WITH HELLERMANN TYTON HELAGRIP MARKERS: L1 or P1 etc.



REV	DATE	DESCRIPTION OF REVISION
A	7 FEBRUARY 2023	ISSUED FOR TENDER



PROJECT DESCRIPTION
ISIOLO ABATTOIR (ISIOLO COUNTY - KENYA)

PLAN DESCRIPTION
PHASE 2 SINGLE LINE DIAGRAM : MDB MAIN DISTRIBUTION BOARD

VDT Veld du Toit
RAADGEWENDE ELEKTRIESE INGENIEURS
CONSULTING ELECTRICAL ENGINEER

Tel: (012) 807 0192 / admin@velddutoit.co.za / www.velddutoit.co.za

7 FEBRUARY 2023	
TIAAN LIEBENBERG	OCKERT MEYER
TIAAN LIEBENBERG	PEDRO V/D MERWE
2103 - SLD - DB - 002 - 0	
PROJECT No.	AREA
DISCIPLINE	DRAWING NO.
REVISION	

Copyright: This document is the property of Veld du Toit Incorporated and shall not be copied or used wholly or in part without prior written consent of the company.