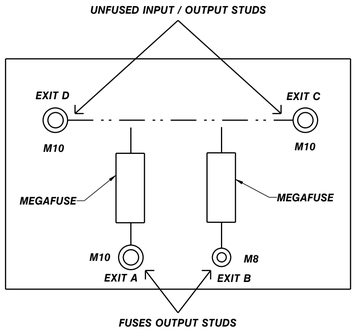
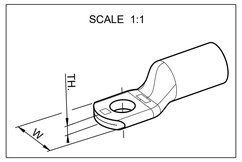
REV.	REVISION HISTORY	NAME	DATE
0	FIRST ISSUE	A.MAURO	03.07.17

ELECTRICAL SCHEME



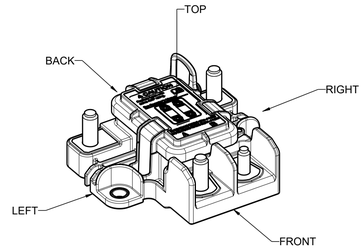


TESTED CURRENT PROFILE CONFIGURATION

	POSITION	FUSE SIZE	TERMINAL TYPE	TERMINAL DIMENSIONS		TERMINAL MATERIAL	COPPER CABLE AWG SIZE	CURRENT AT 85°C FOR 5 MINUTES	CURRENT AT 85°C FOR 1 HOUR	CURRENT AT 105°C FOR 24 HOURS
				THICKNESS	WIDTH					
INPUT	EXIT D	UNFUSED	TUBULAR M10	3.5	25	COPPER TIN PLATED	SGX 4/0	580A	385A	260A
OUTPUT	EXIT C	UNFUSED	TUBULAR M10	1.8	13.5	COPPER TIN PLATED	SGX 6	130A	85A	60A
OUTPUT	EXIT B	250A	TUBULAR M8	2.8	21	COPPER TIN PLATED	SGX 2/0	225A	150A	100A
OUTPUT	EXIT A	250A	TUBULAR M10	2.8	21	COPPER TIN PLATED	SGX 2/0	225A	150A	100A

IP VIEW
SCALE 1:2

IP 69K ACCORDING TO ARROWS' DIRECTION

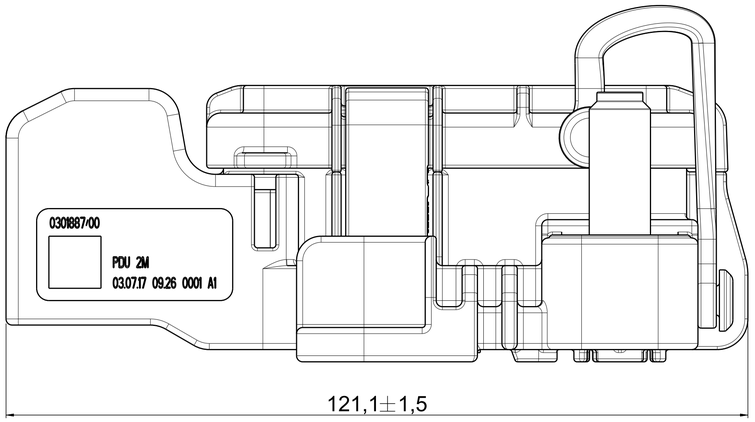


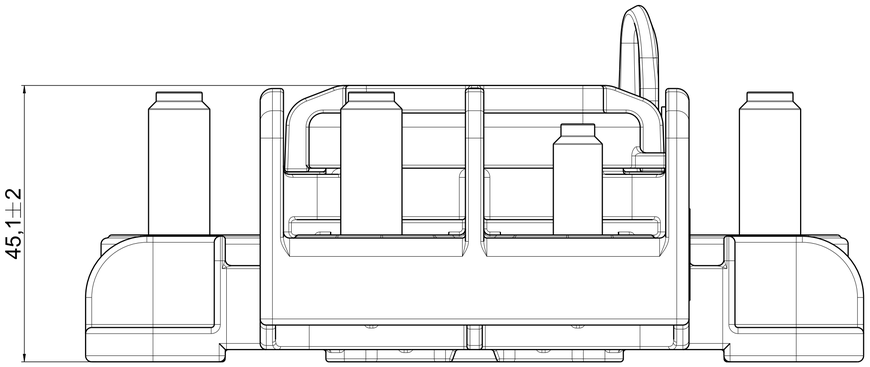
OPERATING FEATURES		
FEATURE:	UNIT:	VALUE:
V MAX	V	32
OPERATING TEMPERATURE RANGE (24 HOURS)	°C	-40 / +130 (Tamb + Overheating)
SHORT TIME TEMPERATURE RANGE (1 HOUR)	°C	-40 / +150 (Tamb + Overheating)
FLAMABILITY	UL 94	SEE MATERIAL
FLUID RESISTANCE	-	SEE CHEMICAL LIST
M8 MEGAFUSE TIGHTENING TORQUE	Nm	15± 1,5
M8 CHASSIS FIXING POINT TIGHTENING TORQUE	Nm	15± 1,5
M10 FEEDING POINT TIGHTENING TORQUE	Nm	28,5± 1,5
IP PROTECTION	IP	IP67 AND IP69K (SEE IP VIEW)
VIBRATION	SAE J1455 2012/08	§ 4.10.4.2 § 4.11.3.4
CORROSION	SAE J1455 2012/08	§ 4.1.3.1 § 4.2

GENERAL NOTE:

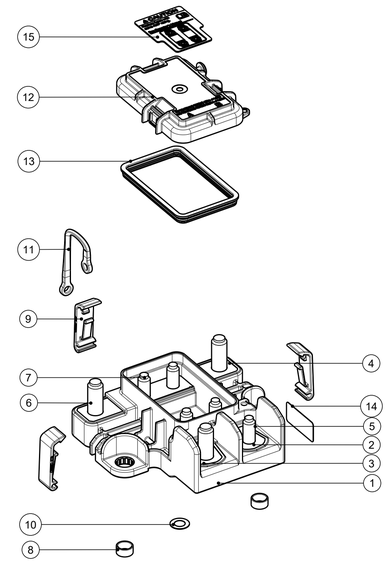
MAXIMUM TESTED LOAD CAPACITY w/ FUSES CONFIGURATION 250A-250A
(BY USING COPPER MTA MEGAFUSES) AT AMBIENT TEMPERATURE 85°C:
- 580A (5 MINUTES)
- 385A (1 HOUR)
- 260A (24 HOURS)
AND ACCORDING TO THE FUSES' DERATING (ISO 8820-5)

SEE CURRENT PROFILE CONFIGURATION

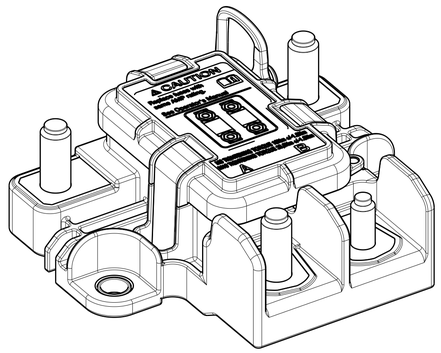


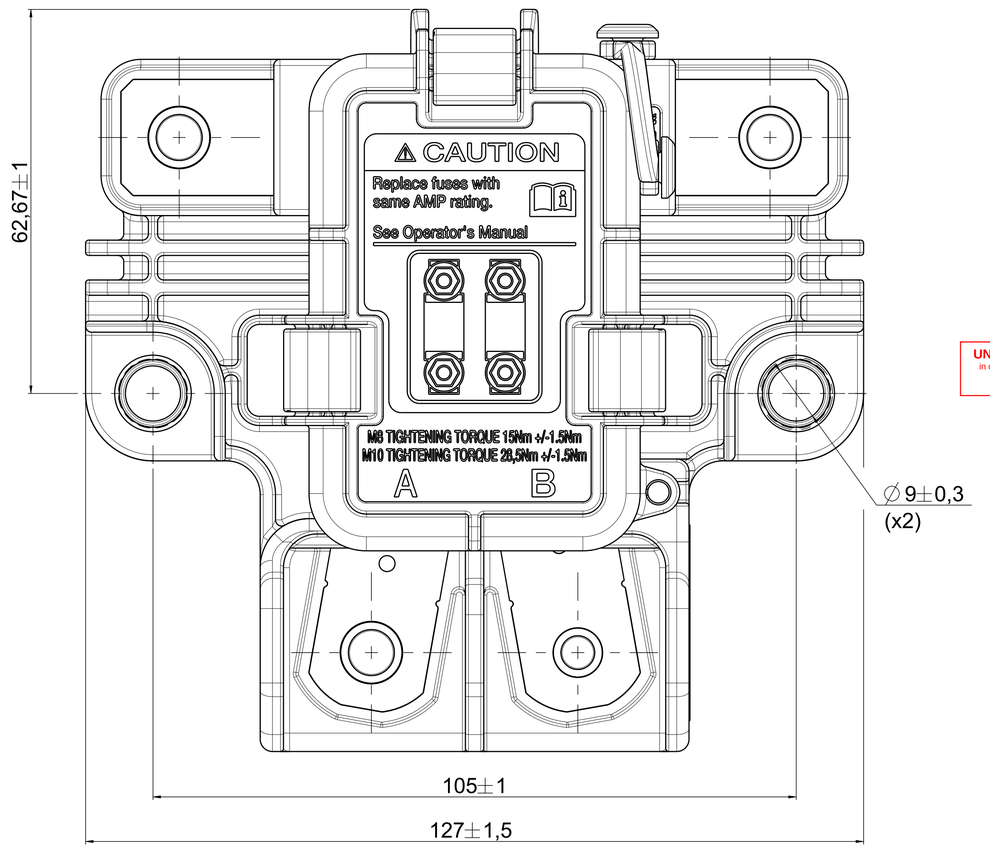


PERSPECTIVE EXPLODED VIEW
SCALE 1:2



PERSPECTIVE VIEW
SCALE 1:1





CHEMICAL LIST			
		DESCRIPTION	STANDARD
1	Engine oils and additives	-	SAE 5W-30 SAE 10W-40
2	Transmission oil	-	GM dexron IId
3	Rear axle oil	Transmission oil without EP additives	SAE 75W-90 API GL-5/MT1
4	Power steering fluid	-	-
5	Brake fluid	-	FMVSS 116 - DOT4 SAE J1703 SAE J1704 ISO 4925 Class 4
6	Axle grease	-	ISO 6743-9 L-X-C-EHB 2
7	Washer solvent	-	-
8	Diesel fuel	Standard European diesel for vehicles	EN590
9	Fuel additives	-	-
10	Anti-freeze water mixture	Water solution with ethylene glycol 50%	-
11	Degreasers	-	-
12	Dust Control Agent (Magnesium Chloride)	Water solution with 10% of magnesium Chloride	-
13	Water and Snow	Water at temperature of 4°C	-
14	Diesel Exhaust Fluid (DEF)	AdBlue is an aqueous urea solution made with 32.5% high-purity urea (AUS 32) and 67.5% deionized water.	ISO 22241[3]
15	Steam	Steam water	-
16	Battery Acid	Water solution with 35% of sulphuric acid (70 °C for 2 hours with vapours)	-
17	10% Saline Solution	Water solution with 10% of sodium chloride	-
18	General Purpose Cleaner	-	-
19	50/50 Bleach and Water Mixture	Water solution with 50% Bleach (standard commercial grade, 5% NaOCl)	-
20	Soap and Detergents	Standard commercial grade	-
21	Kerosene	Standard commercial grade	-
22	Spray Paint	-	-
23	Moisture Control Agents (Calcium Chloride)	Water solution with 10% of calcium Chloride	-

UNCONTROLLED COPY
in case of drawing updating/revision
NO AUTOMATIC
resubmission will follow

POS.	Q.TY	DENOMINATION	MATERIAL
15	1	ADHESIVE IDENTIFICATION LABEL	PET
14	1	ADHESIVE LABEL 32x15	PET
13	1	GASKET	HB SYLICON
12	1	FUSE HOLDER COVER	PA66-GF25 V2
11	1	TETHER	HB RUBBER
10	1	GORETEX VALVE AS43	-
9	3	LATCHES	PBT HB
8	2	M8 COMPRESSION LIMITER	STEEL ZnNi
7	4	SQUARED HEAD M8x19 SCREW	STEEL ZnNi
6	3	SQUARED HEAD M10x23 SCREW	STAINLESS STEEL AISI 304
5	1	EXAGONAL HEAD M8x20 SCREW	STAINLESS STEEL AISI 304
4	1	MAIN BUSBAR	COPPER + TINNED
3	1	EXIT BUSBAR M8-M10	COPPER + TINNED
2	1	EXIT BUSBAR M8-M8	COPPER + TINNED
1	1	FUSE HOLDER BODY	PA66-GF25 V2

	Date	Name
Draft.	03.07.17	A.MAURO
Chk	-	-
Verif.	06.07.17	I.MASSARI
PQApp	06.07.17	M.ROSSI
App.	07.07.17	G.SPATARO

MTA P/N	0301887/0x	Denom.	PDU 2M
Draw No.	17188M-00A	Used for	-
Draw for	CLIENT	Material	SEE TABLE
Scale	Weight(g)	Lin.Tol.±	Ang.Tol.±
2:1	-	2	5°
A1	Dimensions in (mm)	Sheet	1/1
CAD Software PTC Creo		Note	
		Coating	SEE TABLE
		Colour	SEE TABLE

REV. 0