Base Load Power Hub (BLPH)

Technical Data Sheet (TDS) for Control Stations, Junction Boxes and Sockets

Document Number: 123A90-DDL-EL-DS-20067

Document Class: 2

01	07-08-2024	Accepted for Construction (AFC)	NLK	FMA/AMA	FPA/DLO
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Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ACCEPTED FOR CONTRUCTION (AFC)

HOLDS LIST

No.	Description
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REFERENCE DOCUMENT AND STANDARD:

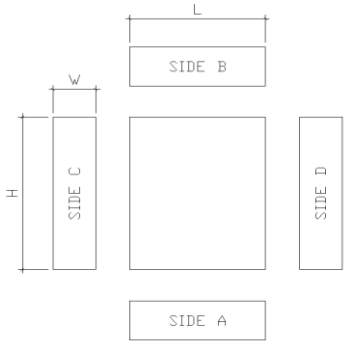
1)	Electrical Typical Installation Details Lighting System	Doc. No. 123A90-DDL-EL-DD-20091
2)	Electrical Typical Installation Details Power System & Cable Installation	Doc. No. 123A90-DDL-EL-DD-20092
3)	Lighting & Socket Layout - Top Deck	Doc. No. 123A90-DDL-EL-DL-20118
4)	Lighting & Socket Layout - Lower Deck	Doc. No. 123A90-DDL-EL-DL-20119
5)	Lighting & Socket Layout - Below Lower Deck	Doc. No. 123A90-DDL-EL-DL-20120
6)	Lighting & Socket Circuit Diagram	Doc. No. 123A90-DDL-EL-DG-20125
7)	Electrical Heat Tracing (EHT) Layouts	Doc. No. 123A90-DDL-EL-DL-20140

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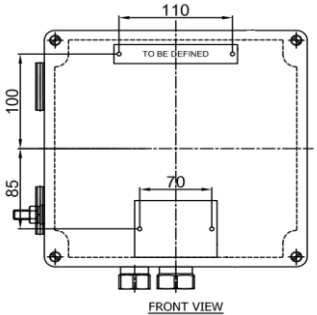
1	General				
2		Required	Manufacturer Proposal	Comments	
3	Manufacturer	by Vendor	TECHNOR-ITALSMEA		01
4	Order Status	for Purchase			00
5	General - Electrical Input Data				
6	System Voltage	400/230 V ac			00
7	Voltage Variation (Steady State)	±5 %			00
8	Rated Frequency	50Hz			00
9	Frequency Variation (Steady State)	±2 %			00
10	Number of Phases	3ph /1ph + neutral TN-S system			00
11	Installation conditions				
12	Ambient Temperature	-8.4°C to +25°C			00
13	Relative humidity (%)	Maximum 95 %			00
14	Atmosphere	Marine Offshore-fixed			00
15	Altitude > 1000 m (m)	not more than 1000 m			00

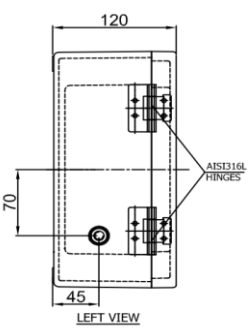
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Row	Item	Required	Manufacturer Proposal	Comments	Rev.
1	Data Sheet for Control Stations, Junction Boxes and Sockets				
2	Junction Box for Normal & Emergency Lighting				
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	40+4(Spare)		(39+5 Spare)	01
6	Application	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		00
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal	Ex eb	Will be used ATEX even in safe area	01
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			
45	Thread	NA			
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



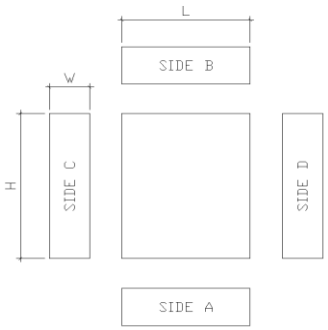
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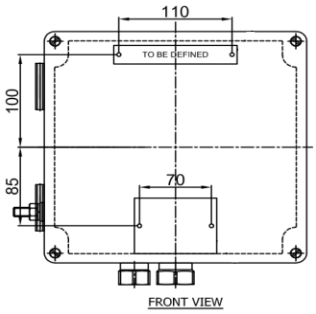


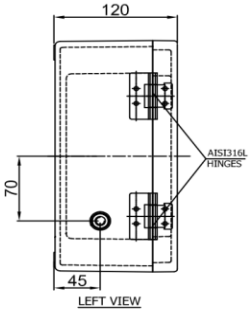
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Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Normal & Emergency Lighting (Exdb)				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	43+5(spare)		(39+9 spare)	01
6	Appkication	Lighting pole JB/Lighting JB			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Hazardous area			00
10	Zone 1/Zone 2	Zone-1			00
11	Temp. Class	Zone 1 Gas Group IIC (or) IIB + H2, T1	Ex eb IIC, T6 Gb		01
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Ex eb	Ex eb		00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.3 M25, No.2 M20	No.3 Ø 25.2 mm, No.2 Ø 20.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 1 M20, No.1 M25	No. 1 Ø 20.2 mm, No.1 Ø 25.2 mm	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm & 2.5 Sq.mm Cable	M25 & M20	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	Ex - jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					



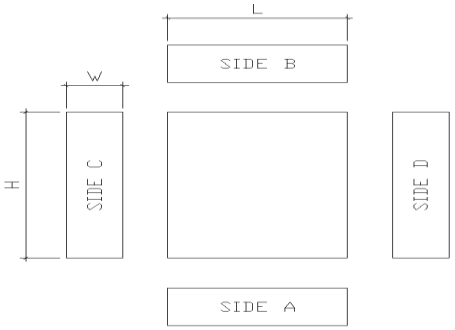
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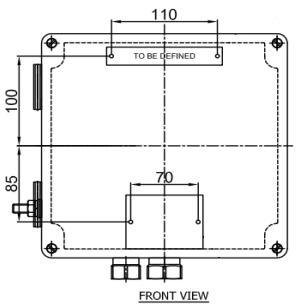


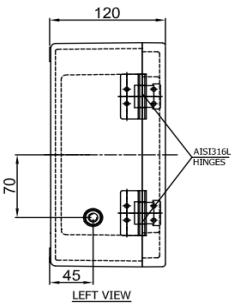
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Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Heat Tracing				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	AQ-252612P		01
4	Serial Number	by Vendor	B011041010004		01
5	Quantity	4+1(Spare)		(3+2 Spare)	01
6	Application	Heat Tracing			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA			00
12	**Electrical input data**				
13	Voltage	230 V ac	230 V ac		01
14	Number of Phases	1ph + N + PE			00
15	**Material**				
16	Body	GRP	GRP		01
17	Execution	Normal			00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
23	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	5		01
31	Size	No.5 M25	No.5 Ø 25.2 mm		01
32	Thread	ISO-M			00
33	Plug	No. 3 M25	No.3 M25	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 6 Sq.mm Cable	M25	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°5 for Ph // n°5 for N // n°5 for PE	n°5 for Ph // n°5 for N // n°5 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	120 mm		01
54	Width 'W' [mm]	by vendor	250 mm		01
55	Length 'L' [mm]	by vendor	255 mm		01
56	Weight [Kg]	by vendor	2.65 Kg		01
57	JB Code (*)	Remarks			
58					

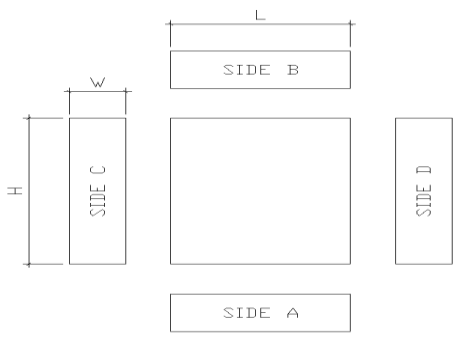


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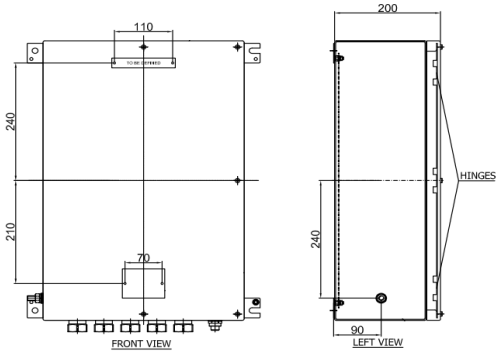




Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	Junction Box for Temporary Generation				
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	SB-385720		01
4	Serial Number	by Vendor			00
5	Quantity	1		(1+0 Spare)	01
6	Application	Temporary Generation			00
7	**Installation area**				
8	Indoor/Outdoor	Outdoor			00
9	Safe Area/Hazardous Area	Safe area			00
10	Zone 1/Zone 2	NA			00
11	Temp. Class	NA			00
12	**Electrical input data**				
13	Voltage	400 V ac	400 V ac		01
14	Number of Phases	3ph + N + PE			00
15	**Material**				
16	Body	GRP	AISI316L		01
17	Execution	Normal			00
18	Protection Degree	IP56	IP 66		01
19	**Accessories**				
20	Hinged Cover	Required	AISI316L Hinges		01
21	Gasket	Required			00
22	Removable Gland Plates	Required	Thickness 3mm		01
23	Internal Mounting Plate	Thickness 3mm threaded	AISI316L Internal mounting plates	connected to Internal ground bar	01
24	Internal Ground Bar	Required		connected to earth stud	00
25	Earth Stud	Required			00
26	Drainage Valve	Required			00
27	Pad lockable Cover	Required			00
28	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
29	**Side 'A'**				
30	Hubs Qty.	5	10		01
31	Size	No.10 M25	No.10 Ø 25.2 mm		01
32	Thread	ISO-M			
33	Plug	No. 5 M25	No. 5 M25	nickel-plated brass	01
34	**Side 'B'**				
35	Hubs Qty.	Not Required			00
36	Size	NA			00
37	Thread	NA			00
38	**Side 'C'**				
39	Hubs Qty.	Not Required			00
40	Size	NA			00
41	Thread	NA			00
42	**Side 'D'**				
43	Hubs Qty.	Not Required			00
44	Size	NA			00
45	Thread	NA			00
46	**Terminals**				
47	Size [mm^2]	Suitable for 95 Sq.mm Cable	M25	suitable with wire-end ferrules DIN 46228	01
48	Qty.	n°2 for each Ph // n°2 for N // n°2 for PE	n°2 for each Ph // n°2 for N // n°2 for PE	jumpered	01
49	**Bonding Cable (yellow/Green)**				
50	Size [mm^2]	by vendor		6 mm^2	01
51	Qty.	Min. 0.15m			00
52	**Dimension**				
53	Height 'H' [mm]	by vendor	200 mm		01
54	Width 'W' [mm]	by vendor	570 mm		01
55	Length 'L' [mm]	by vendor	410 mm		01
56	Weight [Kg]	by vendor			00
57	JB Code (*)	Remarks			
58					
59					

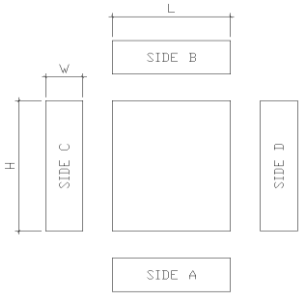


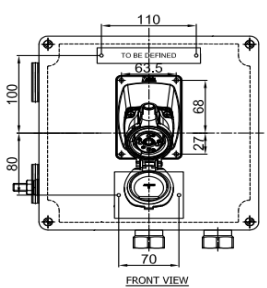
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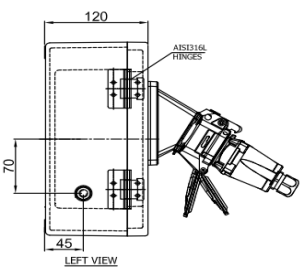


Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	16A Power Socket and Plug with Integrated JB				01
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	MXBS-252612P		01
4	Serial Number	by Vendor			00
5	Quantity	5+1(spare)		(6+0 Spare)	01
6	Application	Power Socket			00
7	Safe Area/Hazardous Area	Safe Area			00
8	**Rating**				
9	Current Rating [A]	16A	16A		01
10	Poles	1ph+N+PE	1ph+N+PE		01
11	Voltage [V]	230	230 V ac		01
12	**Material**				
13	Body	GRP	GRP		01
14	Execution	Normal			00
15	Protection Degree	IP56	IP 66		01
16	Temperature Class	Normal			00
17	**Cable Entry**				
18	Thread	Metric			00
19	Cable Gland Size/Qty.	M25/3	M25/3		01
17	**Interlocked Switching Device**				
18	Interlocked Switching device	Required			00
19	Padlocakable Position	Required			00
20	Plug	Required			00
21	**Accessories**				
22	Hinged Cover	Required	AISI316L Hinges		01
23	Gasket	Required			00
24	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
25	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
26	Internal Ground Bar	Required		connected to earth stud	00
27	Earth Stud	Required			00
28	Drainage Valve	Required			00
29	Pad lockable Cover	Required			00
30	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
31	**Side 'A'**				
32	Hubs Qty.	3	3		01
33	Size	M25	Ø 25.2 mm		01
34	Thread	ISO-M			00
35	Plug	No.2 M25	No.2 M25	nickel-plated brass	01
36	**Side 'B'**				
37	Hubs Qty.	Not Required			00
38	Size	NA			00
39	Thread	NA			00
40	**Side 'C'**				
41	Hubs Qty.	Not Required			00
42	Size	NA			00
43	Thread	NA			00
44	**Side 'D'**				
45	Hubs Qty.	Not Required			00
46	Size	NA			00
47	Thread	NA			00
48	**Terminals**				
49	Size [mm^2]	Suitable for 10 Sq.mm Cable	M25	suitable with wire-end ferrules DIN 46228	01
50	Qty.	n°4 for Ph // n°4 for N // n°4 for PE	n°2 for Ph // n°2 for N // n°2 for PE	jumpered	01
51	**Bonding Cable (yellow/Green)**				
52	Size [mm^2]	by vendor		6 mm^2	01
53	Qty.	Min. 0.15m			00
54	**Dimension**				
55	Height 'H' [mm]	by vendor	255 mm		01
56	Width 'W' [mm]	by vendor	250 mm		01
57	Length 'L' [mm]	by vendor	120 mm		01
58	Weight [Kg]	by vendor			00
59	**Code**	**Remarks**			
60					

NOTES:



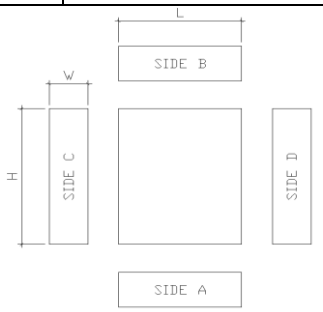


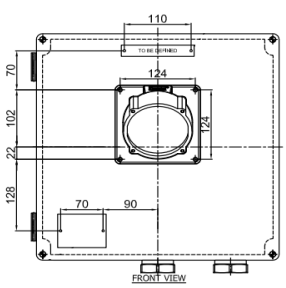


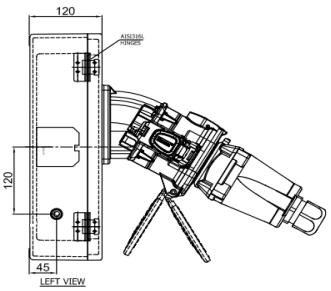
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Row	Data Sheet for Control Stations, Junction Boxes and Sockets				Rev.
1	125A Welding Socket and Plug with Integrated JB				01
2	Item	Required	Manufacturer Proposal	Comments	
3	Model Number	by Vendor	MXSB-414012P		01
4	Serial Number	by Vendor			00
5	Quantity	4		(4+0 Spare)	01
6	Application	Welding Socket			00
7	Safe Area/Hazardous Area	Safe Area			00
8	**Rating**				
9	Current Rating [A]	125A	125A		01
10	Poles	3ph+N+PE	3ph+N+PE		01
11	Voltage [V]	400	400 V ac		01
12	**Material**				
13	Body	GRP	GRP		01
14	Execution	Normal			00
15	Protection Degree	IP56	IP 66		01
16	Temperature Class	Normal			00
17	**Cable Entry**				
18	Thread	Metric			00
19	Cable Gland Size/Qty.	M50/3	M50/3		01
17	**Interlocked Switching Device**				
18	Interlocked Switching device	Required			00
19	Padlocakable Position	Required			00
20	Plug	Required			00
21	**Accessories**				
22	Hinged Cover	Required	AISI316L Hinges		01
23	Gasket	Required			00
24	Removable Gland Plates	Required	Brass Continuity plate 0.8mm thick		01
25	Internal Mounting Plate	Thickness 3mm threaded		connected to Internal ground bar	00
26	Internal Ground Bar	Required		connected to earth stud	00
27	Earth Stud	Required			00
28	Drainage Valve	Required			00
29	Pad lockable Cover	Required			00
30	Identification Label	Trafolite/ Stainless Steel	Laminated Plastic	for all label	01
31	**Side 'A'**				
32	Hubs Qty.	3	3		01
33	Size	M50	Ø 50.2 mm		01
34	Thread	ISO-M			00
35	Plug	No.2 M50	No.2 M50	nickel-plated brass	01
36	**Side 'B'**				
37	Hubs Qty.	Not Required			00
38	Size	NA			00
39	Thread	NA			00
40	**Side 'C'**				
41	Hubs Qty.	Not Required			00
42	Size	NA			00
43	Thread	NA			00
44	**Side 'D'**				
45	Hubs Qty.	Not Required			00
46	Size	NA			00
47	Thread	NA			00
48	**Terminals**				
49	Size [mm^2]	Suitable for 50 Sq.mm Cable	M50	suitable with wire-end ferrules DIN 46228	01
50	Qty.	n°4 for each Ph // n°4 for N // n°4 for PE	n°2 for Ph // n°2 for N // n°2 for PE	jumpered	01
51	**Bonding Cable (yellow/Green)**				
52	Size [mm^2]	by vendor		6 mm^2	01
53	Qty.	Min. 0.15m			00
54	**Dimension**				
55	Height 'H' [mm]	by vendor	120 mm		01
56	Width 'W' [mm]	by vendor	405 mm		01
57	Length 'L' [mm]	by vendor	400 mm		01
58	Weight [Kg]	by vendor			00
59	**Code**	**Remarks**			
60					
61					

NOTES:







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Row	Supplement	Rev.
1	Tag No. :	
2	Service :	
3	PURCHASE ORDER SPECIFIC REQUIREMENTS	

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