Base Load Power Hub (BLPH)

DP-200N1 EQUIPMENT DATA SHEET INCLUDING MSDS AND WEIGHT DATA SHEET

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Document Class: 3

ROSETTI MARINO

1	NO COMMENTS - APPROVED - WORK MAY PROCEED
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1 LOW VOLTAGE SWITCHGEAR DATA SHEET

	Environmental data	
1	***AMBIENT***	MARINE - OFFSHORE
2	***INSTALLATION***	INDOOR
3	***AMBIENT AIR TEMPERATURE - DELAY AVERAGE MAXIMUM***	35°C
4	***AMBIENT AIR MINIMUM/MAXIMUM TEMPERATURE***	-8,4 ÷ +40°C
5	***RELATIVE HUMIDITY AVERAGE***	95%
6	***RELATIVE HUMIDITY MAXIMUM***	-
7	***POLLUTION LEVEL DEGREE***	VERY LIGHT

	Mechanical Features	
1	***EXTERNAL DEGREE OF PROTECTION***	IP30
2	***INTERNAL DEGREE OF PROTECTION***	IP20
3	***EXTERNAL MECHANICAL IMPACT PROTECTION***	IK10
4	***ACCESSIBILITY***	FRONT
5	***TYPE DESIGNATION***	FORM: 2B (OUTGOING)
6	***COLOUR PAINTING***	RAL 7035
7	***SURFACE NOT PAINTED***	ZINC PLATED OR TROPICALIZED

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	Switchgear Electrical Features	
1	***RATED VOLTAGE (Ue)***	0,4/0,23 kV
2	***NOMINAL VOLTAGE (Un)***	0,4/0,23 kV
3	***RATED INSULATION VOLTAGE (Ui)***	0,69 kV
4	***RATED FREQUENCY (Fn)***	50 Hz
5	***RATED IMPULSE WITHSTAND VOLTAGE (Uimp)***	4 kV
6	***RATED NORMAL CURRENT (In)***	63 A
7	***POWER SUPPLY SHORT CIRCUIT CURRENT (Ik)***	25 kA
8	***RATED DURATION OF SHORT CIRCUIT (tk)***	NA
9	***CONDITIONATED PEAK WITHSTAND CURRENT (Ipk)***	17 kA
10	***INTERNAL ARC CLASSIFICATION IAC***	Not Applicable
11	***ARCING CLASS***	Not Applicable
12	***NUMBER OF PHASES***	3 + N
13	***PHASES IDENTIFICATION***	L1-L2-L3-N
14	***EARTHING CIRCUITS MAIN BUSBAR SECTION***	>150mmq
15	***REFERENCE STANDARDS***	IEC 61439-2
16	***EARTHING SYSTEM***	TN-S
17	***NEUTRAL BUSBARS SIZING***	50% PHASE SECTION

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2 LOW VOLTAGE CIRCUIT BRAKER DATASHEET

2.1 SACE TMAX XT MOULDED CASE CIRCUIT BRAKER (GENERAL INCOMING)

ABB XT2N 160 Ekip LSI In=63A 4p F F

Circuit Breaker TMAX XT2N 160 Fixed four-pole with front terminal and Solid-State Release in AC EKIP-LSI R 63 A

- **Product Main Type:** SACE Tmax XT
- **Product Name:** Moulded Case Circuit Breaker
- **Product Type:** Automatic Circuit Breaker
- **Current Type:** AC
- **Number of Poles:** 4
- **Opening Time:**
  - CB with SOR 15 ms
  - CB with UVR 15 ms
- **Rated Current (I_n):** 63 A
- **Rated Frequency (f):** 50/60 Hz
- **Rated Impulse Withstand Voltage (U_{imp}):** 8 kV
- **Rated Insulation Voltage (U_i):**1000 V AC
- **Rated Operational Voltage:** 690 V AC
- **Rated Service Short-Circuit Breaking Capacity (I_{cs}):** (415 V AC) 36 kA
- **Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):** (415 V AC) 36 kA
- **Rated Uninterrupted Current (I_u):** 160 A
- **Rated Voltage (U_r):** 690 V AC
- **Short-Circuit Performance Level:** N
- **Standards:** IEC60947-2

2.2 MINIATURE CIRCUIT BRAKER

The MCBs S300P series assures protection in industrial installations against overload and short circuits. This product is manufactured according to international IEC and UL standards, for the markets where it is required.

- **Standards:** CSA 22.2 No. 235 IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
- **Tripping Characteristic:** *
- **Rated Insulation Voltage (U_i):** acc. to IEC/EN 60664-1 500 V
- **Rated Impulse Withstand Voltage (U_{imp}):** 6 kV
- **Dielectric Test Voltage:** 50/60 Hz-1 min: 2 kV
- **Input Voltage Type:** AC/DC
- **Rated Current (I_n):** *
- **Rated Short-Circuit Capacity:**(AC) 25 kA
- **Rated Ultimate Short-Circuit Breaking Capacity (I_{cu}):** (400 V) 25 kA
- **Rated Frequency (f):** 50 / 60 Hz
- **Number of Protected Poles:** *
- **Number of Poles:** *
- **Overvoltage Category:** IV

* For Additional details refer to single line diagram (document number 1723002197-EL-DG-00013)

2.3 RESIDUAL CURRENT DEVICE BLOCK

The RCD block DDA200 series is suitable for assembly with MCBs S200 series and S300P. It assures protection against the effects of sinusoidal alternating earth fault currents, protection, against indirect contacts and additional protection against direct (with sensitivity = 30 mA) contacts.

- **Standards:** IEC/EN 61009 Ann. G
- **Type of Residual Current:** Type AC
- **Rated Voltage (U_r):** 230/400 V
- **Rated Insulation Voltage (U_i):** 500 V
- **Rated Impulse Withstand Voltage (U_{imp}):** 4 kV
- **Rated Current (I_n):** 25 A
- **Rated Residual Current:** 30 mA
- **Leakage Current Type:** AC
- **Rated Frequency (f):**50 … 60 Hz
- **Number of Poles:** 2
- **Operating Characteristic:** Instantaneous

3 WEIGHT L.V. SWITCHBOARD DP-200N1

1) SWITCHBOARD DP-200N1 UNIT 1 - WEIGHT ± 600Kg

TOTAL WEIGHT 600Kg ±10%