MEDIUM VOLTAGE

QM 375 | QM 375 | QM 375 | GBCB_CTVT 750 | IM 375 | IM 375 | IM 375

Q9 630A, 24kV | F1 20A, 12 kV | CT-50/5A | VT-10/0.1kV | kWh

TR - 1 | TR - 2 | TR - 3 | GRUPI MATES | HYRJA 2 | HYRJA 1 | DALJA

Bi-directional Meter — CT 50/5A, VT 100/.1V, kWh 3ph, 100/1 V 3x50/5 A — NEW ADDITIONAL COSTUMER ENERGY METER

TR - 1 / TR - 2 / TR - 3: Dy5 10/0,4 kV 630 kVA u=4%

Metering Section — CT 1000/5A — kWh 3ph, 400 V 3x1000/5 A

Bi-directional SMA Meter — BI-DIRECTIONAL ENERGY FLOW — SMA ENERGY METER

L1, L2, L3, N, PE

01 3P 630A 25 kA — Kompensim (6x30kVAr)

02 3P 630A 25 kA — Kompensim (6x30kVAr)

03 400 A — 04 630 A — 05 400 A — 06 400 A — 07 400 A — 08 400 A — 09 630 A — 10 630 A — 11 400 A — 12 400 A — 13 1000 A — 14 400 A — 15 400 A — 16 400 A — 17 400 A — 18 1250 A — 19 1000 A — 20 400 A — 21 400 A — 22 400 A — 23 400 A — 24 400 A — 25 400 A — 26 400 A — 27 400 A — 28 400 A — 29 3P ON 1250A — 30 3P 630A 25 kA — Kompensim (6x30kVAr) — 31

PE — RI-10Ω

PP00 4X120 mm2 Cosmonte — PP00 4X120 mm2 Baby center

OUTGOING ENERGY — INCOMING ENERGY

PP00 5X120 mm2 — PF 3x4X240 mm2

Gen - 750/600 kVA/kW — 4P 1250A 50 kA — PF 3x4X240 mm2 10 m — PF 3x4X240 mm2 8 m

ATS — Con. 4P 1250 A — Q2 Mech. and Elec. Emelko — Con. 4P 1250 A

PF 3x4X240 mm2 5 m — PF 3x4X240 mm2 5 m — Delay Contactor

PE = 355 kW
Pn1 = 1.1*PK=0.9*355=310,5 kW
I=P/(1,5,U(L1,T)*400*0,8)=477,13 A

PE = 285 kW
Pn1 = 1.1*PK=0.9*285=256,5 kW
I=P/(1,5,U(L1,T)*400*0,8)=463,33 A

MDB1 — L1, L2, L3, N, PE — 4P 630A 25 kA — 3P 250A 25 kA — 3P 160A 25 kA — 3P 100A 25 kA — 3P 63A 25 kA — 63A — 3P+N 25 kA 415V — 1P+N 25 kA 110V

MDB2 — L1, L2, L3, N, PE — 4P 630A 25 kA — 3P 250A 25 kA — 3P 160A 25 kA — 3P 100A 25 kA — 3P 63A 25 kA — 63A — 3P+N 25 kA 415V — 1P+N 25 kA 110V

PP00X 4X35 mm2 Server Room — PP00 4X95 mm2 Lobby Office — PP00X 4X35 mm2 Mini office+Kitchen — PP00X 4X35 mm2 Cellar — PP00 4X95 mm2 Rooms — PP00 4X35 mm2 Offices,Conf+Halls

SDB-01 75 kW — SDB-02A 130 kW — SDB-05 105 kW — Rezerve — SDB-02B 125 kW — SDB-07 125 kW — SDB-06 35 kW — Rezerve

LOW VOLTAGE LOAD
UNMIK MDB

15 PV INVINGS WITH 1080 PANELS MOUNTED IN THE ROOF

MAIN AC DIRIVIBUTION BOARD — 3P; CH 630A 25 kA

3P 40A 10 kA — NYY 5X10 mm2 — 20kW INVERTOR STP 20000TL-30 — H07RN4F 2x2x1X6 mm2 — H07RN4F 2x1X6 mm2

INV. 13 | INV. 14 | INV. 15

Cu, H07RN4F 5X16 mm2 — H07RN4F 1X4 mm2

INV. 10 | INV. 11 | INV. 12

INV. 07 | INV. 08 | INV. 09

INV. 04 | INV. 05 | INV. 06

INV. 01 | INV. 02 | INV. 03

Legend symbols

	PV Module
	Electrical panel
	Inverter
kWh	Energy meter
	Disconnecting switch
	Surge arrester
	Unipolar cable
	Unipolar cable with PE
	Tripolar cable with neutral and PE
	Grounding

UNMIK MHQ

DAY ENGINEERING CONSULTING DESIGN

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Kreshnik BOSHNJAKU, bach. i el.

Drafted by:
Ardit LATIFI,

Investitor:
UNMIK MHQ

Name of Design:
SOLAR SYSTEM INSTALLATION

Emri i fletës:
SINGLE LINE DIAGRAME

Scale: 1:200

Date: June 2017

Electrical Engineering

V.V

Page No.: E-02