



| DEVICE RATING (FOR UPS-10/20/30/40KVA UNLESS OTHERWISE SPECIFIED AND BATTERY CABINET/BATTERY BREAKER BOX) | | | | | | |
|---|----------------|---------------|----------------------------------|--------------------|------------------|---|
| DEVICE ID | CURRENT RATING | RATED VOLTAGE | TYPE | MAKE | MODEL | ACCESSORIES |
| Q001 | 250A | 690V AC | 3P SWITCH DISCONNECTOR | Schneider Electric | COMPACT NSX250NA | 1-Aux. CONTACT |
| Q501 | 250A | 690V AC | 3P SWITCH DISCONNECTOR | Schneider Electric | COMPACT NSX250NA | 1-Aux. CONTACT |
| Q528 | 160A | 690V AC | 3P LOAD SWITCH | Schneider Electric | INS160MG | 1-Aux. CONTACT |
| Q601 | 63A | 690V AC | 3POLE 2 POSITION SELECTOR SWITCH | KRAUS&NAMER | C42 7AP206 | 2 AUX. CONTACT |
| Q201 | 250A | 690V AC | 4 POLE LOAD SWITCH | Schneider Electric | NSX250NA | 1 AUX/TRIP CONTACT MCCB+LOAD SWITCH (1GD) |
| Q202 (FOR 10KVA UPS) | 50A | 500V DC | 4P DC BREAKER | Schneider Electric | NSX100S DC | 1-Aux. CONTACT |
| Q202 (FOR 20KVA UPS) | 100A | 500V DC | 4P DC BREAKER | Schneider Electric | NSX250S DC | 1-Aux. CONTACT |
| Q202 (FOR 30KVA UPS) | 160A | 500V DC | 4P DC BREAKER | Schneider Electric | NSX250S DC | 1-Aux. CONTACT |
| Q202 (FOR 40KVA UPS) | 160A | 500V DC | 4P DC BREAKER | Schneider Electric | NSX250S DC | 1-Aux. CONTACT |

LEGEND:
 _____ AC CABLE - PROVIDED BY OTHERS
 - - - - - DC CABLE - PROVIDED BY OTHERS

- NOTES:**
- INSTALLATION MUST COMPLY WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
 - PLEASE REFER TO Schneider Electric PRODUCT MANUALS FOR DETAILS.
 - DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
 - △4. BYPASS: 380/400/415V 3 WIRE+PE OR 4 WIRE+PE TN-S, TN-C, TT.
 MAINS: 380/400/415V 3 WIRE+PE OR 4 WIRE+PE FOR TN-S, TN-C, TT.
 OUTPUT: 380/400/415V 3 WIRE+PE OR 4 WIRE+PE FOR TN-S, TN-C, TT.
 - ALL AC POWER CABLING TO BE 600V RATED.
 - DC CABLING TO BE U₀/U 1.8kV/3kV RATED, 2 WIRE.
 - UPS INPUT AND OUTPUT CABLES SHOULD BE SEGREGATED.
 - POWER WIRING AND CONTROL WIRING SHOULD BE SEGREGATED.
 - CABLE LUGS ARE NOT PROVIDED FOR EXTERNAL CABLES, SHALL BE PROVIDED BY OTHERS.
 - △10. BATTERY RUNTIME IS THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER, ASSUMED FOR OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.
 - △11. FOR DETAILS REFER TO SHEET-2.
 - △12. MAXIMUM DISTANCE BETWEEN UPS AND BATTERY CABINETS IS 30 METERS.
 - △13. TO USE BREAKERS IN PLACE OF SWITCHES CONTACT SCHNEIDER ELECTRIC FOR AN ETO.

| BATTERY CABINET CONFIGURATIONS ^{△15} | | | |
|---|-----------------------------------|--------------------|--|
| UPS RATING | RUNTIME IN MINUTES ^{△10} | BATTERY CONFIG NO. | BATTERY CONFIG SKUs |
| 10KVA | 15/30 | CONFIG-1 | (1)GUPXCAB600IEC + (32)BATTX12V600GNB + (1)GUPXCD10KIEC OR (1)GUPXCDO0KIEC |
| | 60 | CONFIG-1 | (1)GUPXCAB600IEC + (32)BATTX12V875GNB + (1)GUPXCD10KIEC OR (1)GUPXCDO0KIEC |
| 20KVA | 15 | CONFIG-1 | (1)GUPXCAB600IEC + (32)BATTX12V875GNB + (1)GUPXCD20KIEC OR (1)GUPXCDO0KIEC |
| | 30 | CONFIG-1 | (1)GUPXCAB600IEC + (32)BATTX12V1800GNB + (1)GUPXCD20KIEC OR (1)GUPXCDO0KIEC |
| 30KVA | 15 | CONFIG-1 | (1)GUPXCAB800IEC + (32)BATTX12V3000GNB + (1)GUPXCD20KIEC OR (1)GUPXCDO0KIEC |
| | 30 | CONFIG-1 | (1)GUPXCAB600IEC + (32)BATTX12V1800GNB + (1)GUPXCD30KIEC OR (1)GUPXCDO0KIEC |
| 40KVA | 15 | CONFIG-1 | (1)GUPXCAB600IEC + (32)BATTX12V3000GNB + (1)GUPXCD40KIEC OR (1)GUPXCDO0KIEC |
| | 30 | CONFIG-1 | (1)GUPXCAB800IEC + (32)BATTX12V3000GNB + (1)GUPXCD40KIEC OR (1)GUPXCDO0KIEC |
| 40KVA | 15 | CONFIG-1 | (1)GUPXCAB800IEC + (1)GUPXCAB800IEC + (64)BATTX12V1800GNB + (1)GUPXCD30KIEC OR (1)GUPXCDO0KIEC |
| | 60 | CONFIG-2 | (1)GUPXCAB800IEC + (1)GUPXCAB800IEC + (64)BATTX12V3000GNB + (1)GUPXCD40KIEC OR (1)GUPXCDO0KIEC |

| BATTERY BREAKER BOX CONFIGURATIONS ^{△16} | | |
|---|-----------------------------------|---------------------------------|
| UPS RATING | RUNTIME IN MINUTES ^{△10} | BATTERY BREAKER BOX CONFIG SKUs |
| 10KVA | 15/30/60 | GUPXCD10BIEC |
| 20KVA | | GUPXCD20BIEC |
| 30KVA | | GUPXCD30BIEC |
| 40KVA | | GUPXCD40BIEC |

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TITLE: GUTOR PXC
 Input: 380/400/415V 3PH 46-54/55-65Hz
 Output: 10/20/30/40kVA 380/400/415V 3PH 50/60Hz
 UPS WITH BATTERY OPTIONS
 SYSTEM ONE LINE DIAGRAM
 PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 2

DWG NO: GUPXC10K40H-SD
 DRAWN: BALAMURUGAN 28-AUG-17
 ENGINEER: H GOHL/G RIZZA 05-SEP-17
 APPROVED: I KENNEDY/W KOERNER 05-SEP-17

REV. 1
 ANGLE PROJECTION: N/A

Gutor PXC[®] 10/20/30/40kVA UPS 1 Module UPS (3 phase input and 3 phase output) Site Planning Data

Mains Input Voltage : 380/400/415V AC 3Ph 50/60Hz 4 or 5 wire ((L1,L2,L3,PE)or (L1,L2,L3,N,PE))

Output Voltage :380/400/415V AC 3Ph 50/60Hz 4 or 5 wire ((L1,L2,L3,PE)or (L1,L2,L3,N,PE))

Bypass Input Voltage : 380/400/415V AC 3Ph 50/60Hz 4 or 5 wire ((L1,L2,L3,PE)or (L1,L2,L3,N,PE))

Battery-Nominal Voltage : 384V DC

| UPS Rating in kVA | SKU Number (Frame+ UPS Module+ UPS I/O Box) | System Mains Input | | System Bypass Input | System Output | | Battery Current (A) | | Recommended External Over current Protection Device (Breaker /Fuse) | | Recommended Cable Sizes in mm ² | | | Recommended Cable Sizes for UPS to Battery Cabinets (<30meters) in mm ² |
|-------------------|---|--|--|--|----------------------|--|---|--|---|--------------|--|--------|--------|--|
| | | Nominal Current (A) @ 380V/ 400V/ 415V | Maximum Current (A) @ 380V/ 400V/ 415V | Nominal Current (A) @ 380V/ 400V/ 415V | Nominal Output (kVA) | Nominal Current (A) @ 380V/ 400V/ 415V | Nominal at full load and nominal battery voltage(V) | Nominal at full load and minimum battery voltage (V) | Mains Input | Bypass Input | Input | Bypass | Output | |
| 10 | GUPXCUPSH20+ GUPXCUPS01+ GUPXCINC01HIEC | 19/18/17 | 25/23/22 | 15/14/14 | 10 | 15/14/14 | 22.3 | 26.2 | 32A | 25A | 10 | 10 | 10 | 16 |
| 20 | GUPXCUPSH20+ GUPXCUPS02+ GUPXCINC01HIEC | 32/31/29 | 42/40/38 | 30/29/28 | 20 | 30/29/28 | 44.3 | 52.1 | 50A | 40A | 10 | 10 | 10 | 16 |
| 30 | GUPXCUPSH40+ GUPXCUPS03+ GUPXCINC01HIEC | 50/48/46 | 65/62/60 | 46/43/42 | 30 | 46/43/42 | 66.3 | 77.9 | 80A | 63A | 16 | 10 | 10 | 25 |
| 40 | GUPXCUPSH40+ GUPXCUPS04+ GUPXCINC01HIEC | 63/60/58 | 82/78/75 | 61/58/56 | 40 | 61/58/56 | 88.5 | 104.1 | 100A | 80A | 16 | 16 | 16 | 35 |

Notes.

- Nominal Input current based on nominal mains voltage + batteries fully charged at rated load.
- Maximum Input current based on fully battery recharge + nominal mains voltage at rated load.
- Suggested input overcurrent protection based on continuous full load.
- Nominal battery voltage assumed to be 2.0 volts/ cell (lead technology)
- Over current protection device rating selection based on Nominal input current is acceptable provided battery recharge time is short. Consult Schneider Electric for application specific assistance.
- Cable sizes are based on table 52-C2 of IEC 60364-5-52 with the following assertions:
 - 90°C conductors
 - An ambient temperature of 30°C
 - Use of copper conductors
 - If the ambient temperature is greater than 30°C, larger conductors are to be selected with the corrections factors of the IEC.
- Protective earth (PE) cables are to be sized in accordance with IEC 60364-5-54 Article 543 and Table 54.3.
- Final selections are responsibility of engineer of record based on installed conditions and SCC/Selective Co-ordination/ARC-Flash analysis.
- The output over current protection to be sized according to the nominal output current. Clearing in case of short circuit is done through bypass line.

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TITLE: GUTOR PXC
 Input: 380/400/415V 3PH 46-54/55-65Hz
 Output: 10/20/30/40kVA 380/400/415V 3PH 50/60Hz
 UPS WITH BATTERY OPTIONS
 SITE PLANNING DATA
 PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 2

DWG NO: GUPXC10K40H-SD REV. 1
 DRAWN: BALAMURUGAN 28-AUG-17 ANGLE
 ENGINEER: H GOHL/G RIZZA 05-SEP-17 PROJECTION: N/A
 APPROVED: I KENNEDY/W KOERNER 05-SEP-17