

RATED SHORT CIRCUIT CURRENT			
DEVICE	WITH INPUT FUSES	WITHOUT INPUT FUSES	
UPS AC IN	30KA SYMMETRICAL	10KA SYMMETRICAL	
UPS AC OUT	30KA SYMMETRICAL	10KA SYMMETRICAL	
BATTERY CABINET XR1/XR2	25KA SYMMETRICAL	25KA SYMMETRICAL	

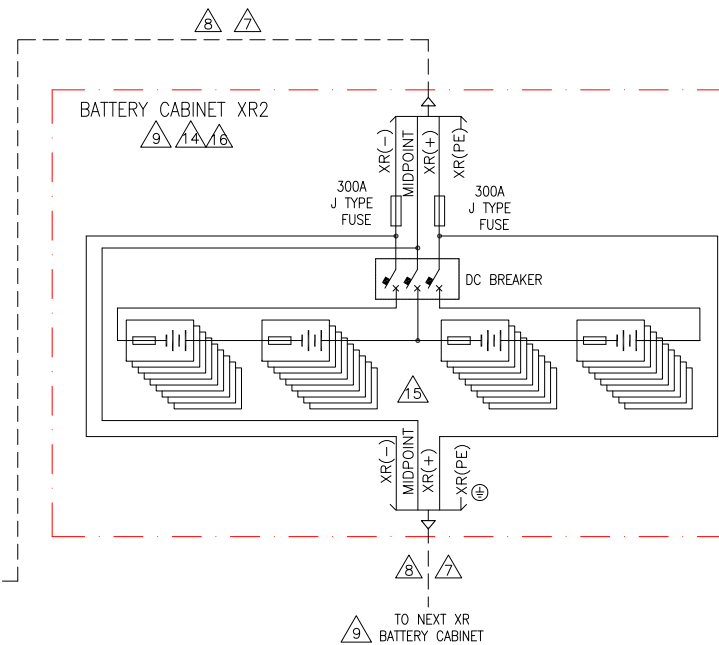
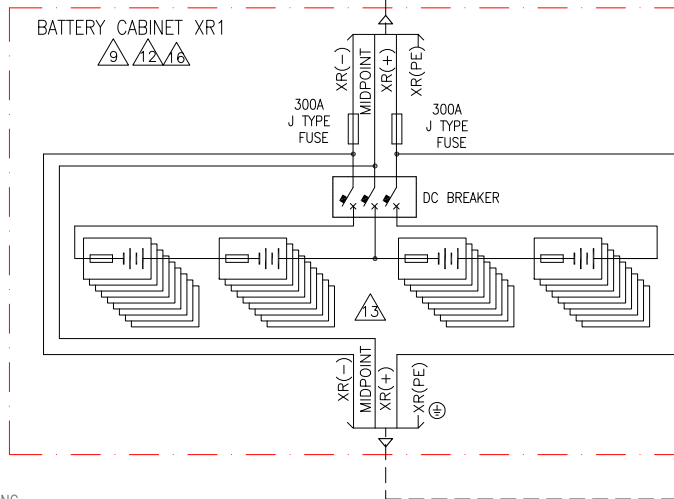
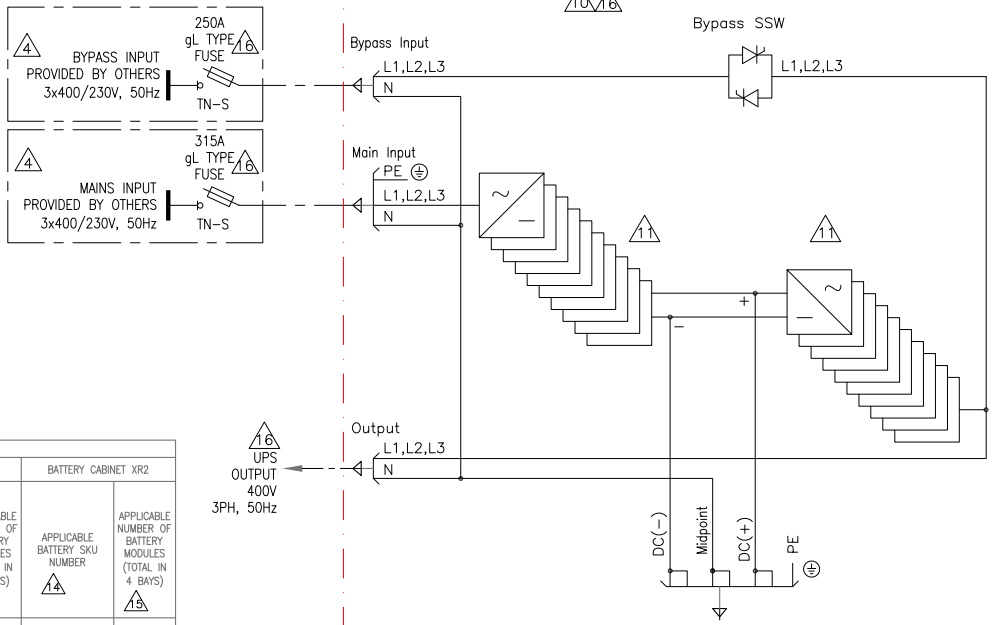
UPS RATING AND APPLICABLE SKU NUMBERS							
UPS RATING (KW)	EXPANDABLE UPS RATING (KW)	APPLICABLE UPS SKU NUMBER	APPLICABLE NUMBER OF UPS POWER MODULES	BATTERY CABINET XR1		BATTERY CABINET XR2	
				APPLICABLE BATTERY SKU NUMBER	APPLICABLE NUMBER OF BATTERY MODULES (TOTAL IN 4 BAYS)	APPLICABLE BATTERY SKU NUMBER	APPLICABLE NUMBER OF BATTERY MODULES (TOTAL IN 4 BAYS)
32	160	SYCF160KH+SYPM10K16H(2)	2	SYCFXR9+SYBTU2-PLP(12)	12	NA	NA
64		SYCF160KH+SYPM10K16H(4)	4	SYCFXR9+SYBTU2-PLP(24)	24	NA	NA
96		SYCF160KH+SYPM10K16H(6)	6	SYCFXR9+SYBTU2-PLP(36)	36	NA	NA
128		SYCF160KH+SYPM10K16H(8)	8	SYCFXR9+SYBTU2-PLP(36)	36	SYCFXR9+SYBTU2-PLP(12)	12
160	96	SYCF160KH+SYPM10K16H(10)	10	SYCFXR9+SYBTU2-PLP(36)	36	SYCFXR9+SYBTU2-PLP(24)	24
32		SYCF160KH+SYPM10K16H(2)	2	SYCFXR9+SYBTU2-PLP(12)	12	NA	NA
64		SYCF160KH+SYPM10K16H(4)	4	SYCFXR9+SYBTU2-PLP(24)	24	NA	NA
96		SYCF160KH+SYPM10K16H(6)	6	SYCFXR9+SYBTU2-PLP(36)	36	NA	NA

LEGEND:

--- AC CABLE - PROVIDED BY OTHERS.
 --- DC CABLE - PROVIDED BY OTHERS.
 ——— AC BUS

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.
- 3x400/230V TN-S (PROVIDED BY OTHERS). FOR OTHER EARTHING PRINCIPLES, PLEASE CONTACT SCHNEIDER ELECTRIC. RECOMMENDED UPSTREAM PROTECTION IS A MINIMUM RATING TO SUPPORT MAXIMUM CURRENT, WITHOUT SELECTIVITY. IF SELECTIVITY IS REQUIRED, PLEASE CONTACT SCHNEIDER ELECTRIC.
- ALL AC POWER CABLING IS L1, L2, L3, N, PE.
- DUAL MAINS CONFIGURATION IS DEFAULT.
- FOR SINGLE MAINS OPTION, MAINS AND BYPASS BARS HAVE TO BE CONNECTED WITH 3 CABLES PROVIDED WITH THE UNIT.
- DC CABLING TO BE 600V RATED, 2 WIRE + GROUND, EACH CIRCUIT TO BE RUN IN SEPARATE CONDUITS, POSITIVE, NEGATIVE + GROUND.
- CABLING PROVIDED BY OTHERS IF UPS AND BATTERY CABINETS ARE INSTALLED REMOTELY, FOR LINE-UP SOLUTION CABLING PROVIDED BY SCHNEIDER ELECTRIC.
- NUMBER OF BATTERIES AND DC NOMINAL CURRENT SHOWN IN THIS DIAGRAM PROVIDES 5 MINUTES RUN TIME.
- MAXIMUM 4 BATTERY ENCLOSURES MAY BE USED WITH THE SYSTEM.



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Schneider Electric

TITLE: SYMMETRA PX
Input: 400/230V AC 3PH SINGLE/DUAL MAINS
Output: 400/230V AC & 400V AC 3PH 32-160kW
SYSTEM ONE LINE DIAGRAM

PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 2

DWG NO: SY32K160H-SD

DRAWN: BALAMURUGAN 01-JUL-19

ENGINEER: J WOLSKI 01-JUL-19

APPROVED: J WOLSKI 01-JUL-19

REV. 3

ANGLE PROJECTION: N/A

INFRASTRUXURE PLANNING GUIDE SYMMETRA PX96 / PX160 (400V)																	
UPS FRAME	UPS RATING KVA / KW			AC INPUT (400V)						BATTERY SYSTEM (WITH 320A DC 3POLE BREAKER)			AC OUTPUT (400V)		MAINTENANCE BYPASS BREAKER RATING. (SINGLE OR DUAL MAINS)		
	QTY OF POWER MODULE (16KW)	[P] KW NOMINAL	POWER FACTOR	POWER (KW)		UTILITY SOURCE		CURRENT I (A)		*Q1 PROTECTION BREAKER (A)	NOMINAL VOLTAGE (V DC)	FULL LOAD POWER P (KW)	IMAX DC DISCHARGE (A)	IN (A)	*Q2 PROTECTION BREAKER (A)	*Q3	**Q5
				NOMINAL	NOMINAL + CHARGING	FREQUENCY (HZ)	VOLTAGE (V)	NOMINAL	NOMINAL + CHARGING								
96KVA/160KVA / 96KW/160KW	1	16	1	17	19	50	400	24	27	63	2X192	17	55	23	32	32	32
	2	32		34	37			49	53	80		34	110	46	63	63	63
	3	48		51	56			73	80	100		51	165	69	80	80	80
	4	64		67	74			97	107	160		68	220	92	125	125	125
	5	80		84	93			122	134	160		85	275	115	160	160	160
	6	96		101	111			146	160	225		102	330	139	160	160	160
160KVA / 160KW	7	112		118	130			170	187	225		119	385	162	250	250	250
	8	128		135	148			194	214	250		135	440	185	250	250	250
	9	144		152	167			219	241	400		152	495	208	250	250	250
	10	160		168	185			243	267	400		169	550	231	250	250	250

NOTES:

SYMMETRA PX96 CONTAINS 2 FRAMES 1 X POWER FRAME AND 1 X BATTERY FRAME.
SYMMETRA PX160 CONTAINS 3 FRAMES 1 X POWER FRAME AND 2 BATTERY FRAMES.
THE SYMMETRA PX96 IS UPGRADABLE TO 160kW BY ADDING POWER MODULES AND BATTERY FRAME.
*Q1, Q2, Q3 AND Q5 – RECOMMENDED FOR 3RD PARTY MAINTENANCE BYPASS.
**USED FOR 3RD PARTY BYPASS WITH DUAL MAINS.