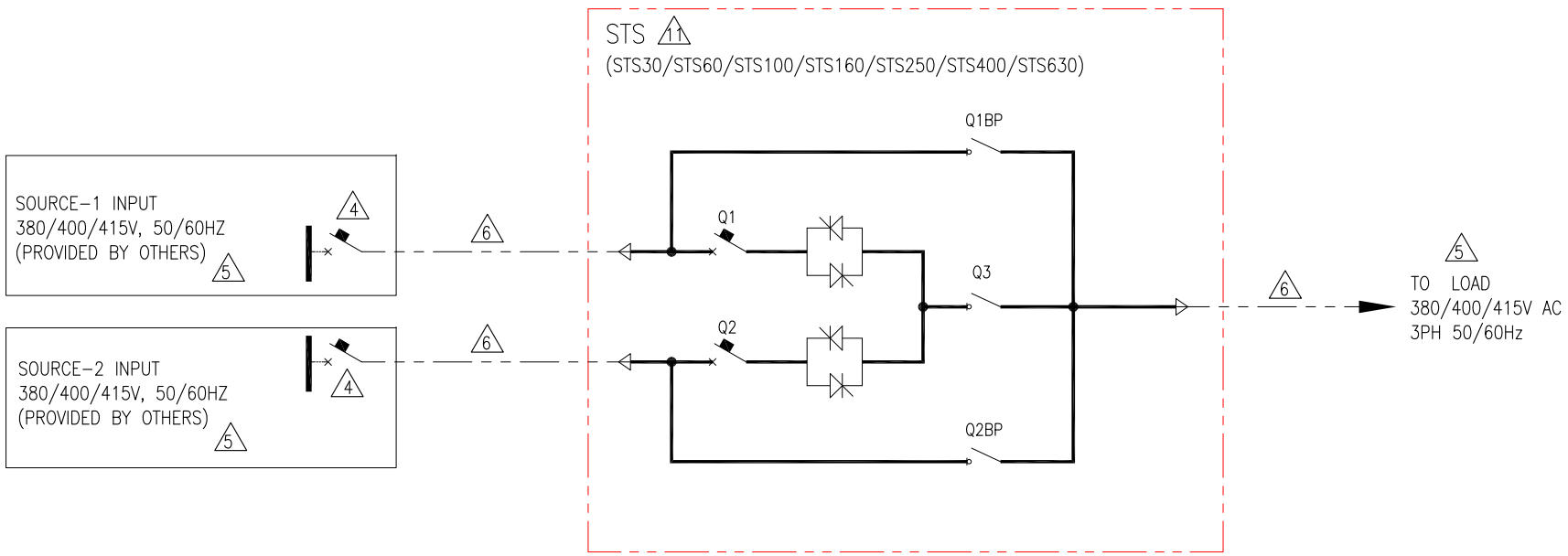


LEGEND:

——— – – – ——— AC CABLE – PROVIDED BY OTHERS

═══════ AC PATH – INSIDE STATIC SWITCH CABINET

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.

△4. REFER TO SHEET 3 FOR RECOMMENDED OVER CURRENT PROTECTION AND RECOMMENDED CABLES.

△5. AC SOURCE–1/2 MUST HAVE THE SAME EARTHING SYSTEM.
POSSIBLE COMBINATION OF INPUTS/OUTPUT SYSTEM.

SOURCE 1/2	OUTPUT
TNC	TN–C OR TN–S
TN–S	TN–S

IN CASE OF TN–S SOURCES, N TO PE CONNECTION HAS TO BE DONE ON THE SAME POINT.

△6. AC CABLING TO BE MINIMUM 600V RATED 3 WIRE + PE (3 POLE STS) OR 3 WIRE +PEN (4 POLE STS) PROVIDED BY OTHERS.

△7. CABLE LUGS ARE FOR EXTERNAL CABLES ARE PROVIDED BY OTHERS.

8. MAXIMUM UPSTREAM SHORT CIRCUIT CURRENT IS 35kA.
9. MAXIMUM POSSIBLE THDU FOR MAXIMUM UPSTREAM VOLTAGE IS 15% CONTINUOUS (WITHOUT TRIPPING OF THE PROTECTION DEVICES).
10. TYPICAL TRANSFER TIME OF STATIC TRANSFER IS ≤5ms.

△11. FOR VARIOUS OPTIONS/COFIGURATIONS ON ASSEMBLE TO ORDER OF THIS PRODUCT, CONTACT Schneider Electric.

DEVICE RATING

DEVICE	CURRENT RATING	RATED OPERATIONAL VOLTAGE	TYPE	MAKE	MODEL	ACCESSORIES
STS30 (30A) / STS60 (60A) / STS100 (100A) (3 POLE / 4 POLE)						
Q1/Q2	100A	690V AC	4 POLE MOLDED CASE SWITCH DISCONNECTOR	Schneider Electric	NSX100NA	1–Aux. Switch, 1– Shunt trip 24V DC
Q1BP/Q2BP/Q3	250A	690V AC	4 POLE SWITCH DISCONNECTOR	Schneider Electric	INTERPACT INS250	1–Aux. Switch
STS160 (160A) / STS250 (250A) (3 POLE / 4 POLE)						
Q1/Q2	250A	690V AC	4 POLE MOLDED CASE SWITCH DISCONNECTOR	Schneider Electric	COMPACT NSX250	1–Aux. Switch, 1– Shunt trip 24V DC
Q1BP/Q2BP/Q3	250A	690V AC	4 POLE SWITCH DISCONNECTOR	Schneider Electric	INTERPACT INS250	1–Aux. Switch
STS400 (400A)/ STS630 (630A) (3 POLE / 4 POLE)						
Q1/Q2	630A	690V AC	4 POLE MOLDED CASE SWITCH DISCONNECTOR	Schneider Electric	COMPACT NSX630	1–Aux. Switch, 1– Shunt trip 24V DC
Q1BP/Q2BP/Q3	630A	690V AC	4 POLE SWITCH DISCONNECTOR	Schneider Electric	INTERPACT INS630	1–Aux. Switch

Schneider Electric

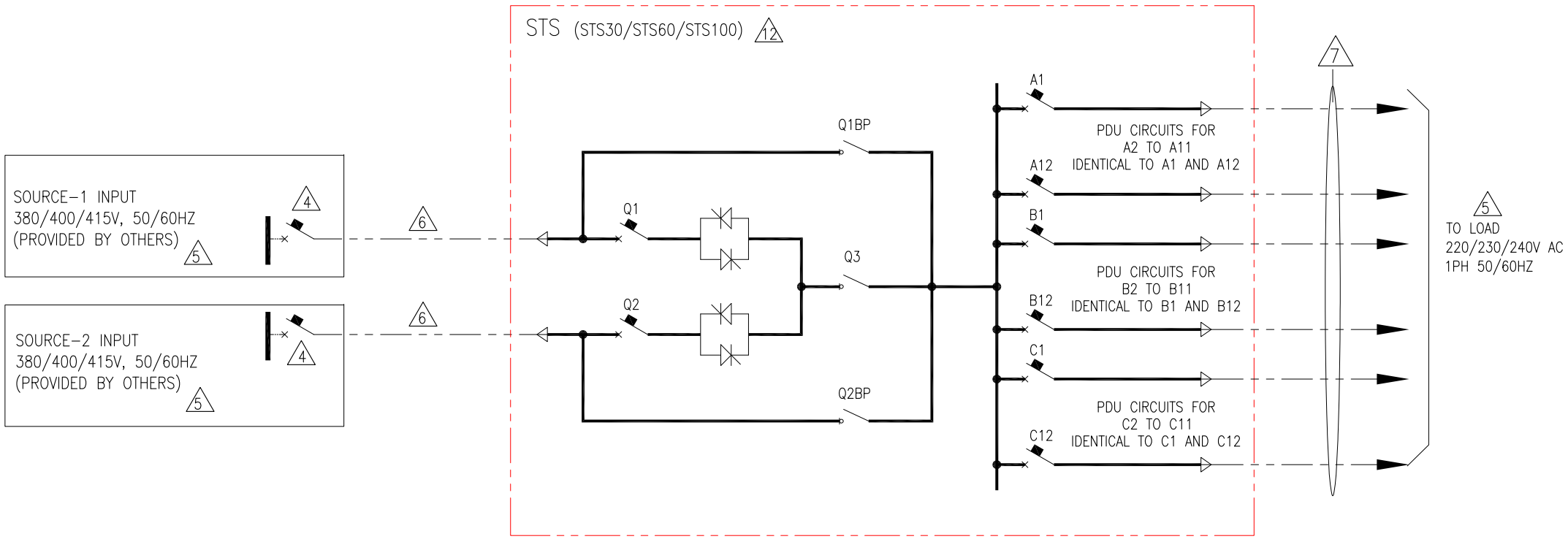
TITLE: MGE UPSILON STS
Input: 380/400/415V AC 50/60Hz 3PH
Output: 380/400/415V AC 50/60HZ 3PH
STATIC TRANSFER SWITCH–30/60/100/160/250/400/630 A
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS | SHEET 1 OF 3

DWG NO: STSU30K630A–SD | REV. 0

DRAWN:	BALAMURUGAN	01–MAR–16
ENGINEER:	S ANDERSEN	02–MAR–16
APPROVED:	P CHAPUIS	02–MAR–16

ANGLE PROJECTION N/A



LEGEND:

——— — — ——— AC CABLE – PROVIDED BY OTHERS

——————— AC PATH – INSIDE STATIC SWITCH CABINET

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.

△4. REFER TO SHEET 3 FOR RECOMMENDED OVER CURRENT PROTECTION AND RECOMMENDED CABLES.

△5. AC SOURCE–1/2 MUST HAVE THE SAME EARTHING SYSTEM.
POSSIBLE COMBINATION OF INPUTS/OUTPUT SYSTEM.

SOURCE 1/2	OUTPUT
TNC	TN–C OR TN–S
TN–S	TN–S

IN CASE OF TN–S SOURCES, N TO PE CONNECTION HAS TO BE DONE ON THE SAME POINT.

△6. AC CABLING TO BE MINIMUM 600V RATED 3 WIRE + PE (3 POLE STS) OR 3 WIRE +PEN (4 POLE STS) PROVIDED BY OTHERS.

△7. AC CABLING TO BE MINIMUM 600V RATED 2 WIRE +PE

8. CABLE LUGS ARE FOR EXTERNAL CABLES ARE PROVIDED BY OTHERS.
9. MAXIMUM UPSTREAM SHORT CIRCUIT CURRENT IS 35kA.
10. MAXIMUM POSSIBLE THDU FOR MAXIMUM UPSTREAM VOLTAGE IS 15% CONTINUOUS (WITHOUT TRIPPING OF THE PROTECTION DEVICES).
11. TYPICAL TRANSFER TIME OF STATIC TRANSFER IS ≤5ms.

△12. FOR VARIOUS OPTIONS/COFIGURATIONS ON ASSEMBLE TO ORDER OF THIS PRODUCT, CONTACT Schneider Electric.

DEVICE RATING

DEVICE	CURRENT RATING	RATED OPERATIONAL VOLTAGE	TYPE	MAKE	MODEL	ACCESSORIES
STS30 (30A)/ STS60 (60A) / STS100 (100A) (3 POLE / 4 POLE)						
Q1/Q2	100A	690V AC	4 POLE MOLDED CASE SWITCH DISCONNECTOR	Schneider Electric	NSX100NA	1–Aux. Switch, 1– Shunt trip 24V DC
Q1BP/Q2BP/Q3	250A	690V AC	4 POLE SWITCH DISCONNECTOR	Schneider Electric	INTERPACT INS250	1–Aux. Switch
PDU BREAKERS FOR STS30 (30A)/ STS60 (60A) / STS100 (100A)						
A1 TO A12 / B1 TO B12 / C1 TO C12	16A	500V AC	2 POLE CIRCUIT BREAKER	Schneider Electric	Acti9, iC60H	--

Schneider Electric

TITLE: MGE UPSILON STS
Input: 380/400/415V AC 50/60Hz 3PH
Output:220/230/240V AC 50/60HZ 1PH
STATIC TRANSFER SWITCH–30/60/100 A
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS | SHEET 2 OF 3

DWG NO: STSU30K630A–SD | REV. 0

DRAWN:	BALAMURUGAN	01–MAR–16
ENGINEER:	S ANDERSEN	02–MAR–16
APPROVED:	P CHAPUIS	02–MAR–16

ANGLE PROJECTION N/A

REQUIRED UPSTREAM PROTECTION DEVICES								
		STS30 (30A)	STS60 (30A)	STS100 (30A)	STS160 (30A)	STS250 (30A)	STS400 (30A)	STS630 (30A)
MAXIMUM I rms ON PHASES (THERMAL)		30A	60A	100A	160A	250A	400A	630A
MAXIMUM I rms ON NEUTRAL (THERMAL)		30A	60A	100A	160A	250A	400A	630A
MAXIMUM I rms ON PHASES (MAGNETIC)		300A	600A	1000A	1600A	2500A	4000A	6000A
MAXIMUM I rms ON NEUTRAL (MAGNETIC)		300A	600A	1000A	1600A	2500A	4000A	6000A
RECOMMENDED BREAKERS (MAKE–Schneider Electric)		C60L 32A	NS100H	NS100H	NS160H	NS250H	NS400H	NS630H
NUMBER OF POLES	FOR TN–S △5	4–POLE	4–POLE	4–POLE	4–POLE	4–POLE	4–POLE	4–POLE
	FOR TN–C △6	3–POLE	3–POLE	3–POLE	3–POLE	3–POLE	3–POLE	3–POLE
TRIP UNIT (MAKE–Schneider Electric)		CURVE C	STR22SE	STR22SE	STR22SE	STR22SE	STR23SE	STR23SE
NUMBER OF POLES	FOR TN–S	4P 4T	4P 4T	4P 4T	4P 4T	4P 4T	4P 4T	4P 4T
	FOR TN–C	3P 3T	3P 3T	3P 3T	3P 3T	3P 3T	3P 3T	3P 3T
SETTINGS	THERMAL SETTING	≤1.05 In	≤1.05 In	≤1.05 In	≤1.05 In	≤1.05 In	≤1.05 In	≤1.05 In
	MAGNETIC SETTING	10 In	10 In	10 In	10 In	10 In	10 In	10 In

RECOMMENDED CABLE SIZES (PHASE AND NEUTRAL)								
TYPE		STS30 (30A)	STS60 (60A)	STS100 (100A)	STS160 (160A)	STS250 (250A)	STS400 (400A)	STS630 (630A)
RECOMMENDED SIZE IN mm^2	COPPER CONDUCTORS	10	16	25	50	95	185	2x150
	ALUMINIUM CONDUCTORS	16	25	35	70	150	2X120	4x95
MAXIMUM SIZE IN mm^2 △3		50	50	50	120	120	240	240
MAXIMUM NUMBER OF CABLES PER PHASE △4		2	2	2	2	2	4	4

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
△3. THE RECOMMENDED CABLES SIZES ARE BASED IN AN ENVIRONMENT WITH AN AMBIENT TEMPERATURE OF 30 °C (86 °F). CABLE CROSS–SECTIONS HAVE BEEN CALCULATED ACCORDING TO ALLOWABLE TEMPERATURES RISES AND TAKE INTO ACCOUNT LINE VOLTAGE DROPS FOR A MAXIMUM LENGTH OF 100 METERS (AC CIRCUIT). FOR GREATER LENGTHS, CHOOSE CROSS–SECTION THAT LIMIT THE VOLTAGE DROP TO 3% (AC CIRCUIT).
△4. NFC 15–100 AUTHORIZES OF 4 CABLES PER PHASE.
△5. FOR TN–S WITH DISTRIBUTED NEUTRAL (VALID FOR IT WITH DISTRIBUTED NEUTRAL AS WELL).
△6. FOR TN–C, VALID FOR TN–S AS WELL IF THE NEUTRAL IS NOT DISTRIBUTED.

Schneider Electric

TITLE: MGE UPSILON STS
Input: 380/400/415V AC 50/60Hz 3PH
Output: 380/400/415V AC 50/60HZ 3PH
STATIC TRANSFER SWITCH–30/60/100/160/250/400/630 A
ELECTRICAL SPECIFICATIONS

PROJECT: DRAWINGS | SHEET 3 OF 3

DWG NO: STSU30K630A–SD | REV. 0

DRAWN:	BALAMURUGAN	01–MAR–16
ENGINEER:	S ANDERSEN	02–MAR–16
APPROVED:	P CHAPUIS	02–MAR–16

ANGLE PROJECTION N/A