Ref constructeur : EAV5829303 / A

Schéma de principe MONITORING PDL	**GREEN YELLOW** **AVIGNON (84)**

Ind rev	Date Date	Modification / Modification	Status	Nom/name	Visa	Nom/name	Visa	Nom/name	Visa	Archiv micro- filmed
				Dessiné/Drawn		Verifié/Checked		Approuve/Approved		
B	06/10/14	TQC SITE	BPO	CAPARROS		CHAVAT		ABBAS		
A	22/01/14	Doc. original	BPO	CAPARROS		CHAVAT		ABBAS		

Echelle Scale		Schneider Electric
Unité / Department Solution Centre		

Code diffusion Distribution code	Projet - N°commande Project - Order N°	N°Clt	AVIG_SHP005 / B **ER7CO6095/SHP005**	Ind / rev **B**	Folio/Sheet

Selon QE5130-01 ind C du 01/02/2012

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GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

WIRING

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Ind / Rev	Date	Modification	Dessine / Drawn Nom / Name	Visa	Verifie / Checked Nom / Name	Visa	Approuve / Approved Nom / Name	Visa	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue	TORTOROLO		GRUNWALD		KHELIL		

Echelle / Scale: 1/1

Unite / Department: SOLAR BU

Schneider Electric

Code diffusion / Distribution code

Projet - No commande

Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Indice / Rev: 00

Folio / Sheet: 001

A3 garde - 11/2006

Folio Sheet	Designation Designation	Indice de modification Revision
001	COVER PAGE	00
02	LIST OF SHEETS	00
03	LIST OF SHEETS	00
04	LEGEND OF SYMBOLS Part 1	00
05	LEGEND OF SYMBOLS Part 2	00
06	MARKING	00
07	HIGHER LEVEL DESIGNATION	00
08	LOCATION IDENTIFICATION	00
09	DEVICES IDENTIFICATION	00
10	SPECIFIC DEVICES IDENTIFICATION	00
11	SPECIFIC IDENTIFICATION AND MARKING FOR DEVICES AND CORDS	00
12	+24V DC POWER SUPPLY DIAGRAMM - ADVANCED 6 FEEDERS	00
13	MONITORING DIAGRAMM - ADVANCED 6 FEEDERS	00
14	230V AC POWER SUPPLY DIAGRAMM	00
15	+24VDC POWER SUPPLY DISTRIBUTION - ADVANCED 6 FEEDERS	00
16	+24V DC POWER SUPPLY DISTRIBUTION - ADVANCED 6 FEEDERS	00
17	+24V DC POWER SUPPLY DISTRIBUTION - WS Analog Inputs - ADVANCED	00
18	230V AC POWER SUPPLY HEATER	00
19	MultiMod OPTICAL BOX - ADVANCED	00
20	MultiMod ETHERNET TCP/IP SWITCH - ADVANCED	00
21	ADVANCED LINE 1 MODBUS CONNECTION TO AP1R0 M340 AUTOMAT - 6 FEEDERS	00
22	ADVANCED LINE 2 AND 3 MODBUS CONNECTION TO AP1R0 M340 AUTOMAT - 6 FEEDERS	00
23	ADVANCED LINE 4 AND 5 MODBUS CONNECTION TO AP1R0 M340 AUTOMAT - 6 FEEDERS	00
24	ADVANCED AP1R0 M340 AUTOMAT - 6 FEEDERS	00
25	ADVANCED Digitals Inputs - 6 FEEDERS	00
26	ADVANCED Digitals Inputs - 6 FEEDERS	00
27	ADVANCED Digitals Inputs - 6 FEEDERS	00
28	ADVANCED Digitals Inputs - 6 FEEDERS	00
29	ADVANCED Digitals Inputs - 6 FEEDERS	00
30	ADVANCED Digitals Inputs - 6 FEEDERS	00
31	ADVANCED Digitals Inputs - 6 FEEDERS	00
32	ADVANCED Digitals Inputs - 6 FEEDERS	00
33	ADVANCED Digitals Inputs - 6 FEEDERS	00
34	ADVANCED Digitals Inputs - 6 FEEDERS	00
35	ADVANCED Digitals Inputs - 6 FEEDERS	00
36	ADVANCED Digitals Inputs - 6 FEEDERS	00
37	ADVANCED Digitals Inputs - 6 FEEDERS	00
38	ADVANCED Digitals Inputs - 6 FEEDERS	00
39	ADVANCED Digitals Inputs - 6 FEEDERS	00
40	ADVANCED Digitals Inputs - 6 FEEDERS	00
41	ADVANCED Digitals Ouputs - 6 FEEDERS	00
42	ADVANCED Digitals Ouputs - 6 FEEDERS	00

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LIST OF SHEETS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

EAV5829303

Projet - No commande
Project - Order No.

Indice Rev: 00

Folio Sheet: 02

Folio Sheet	Designation Designation	Indice de modification Revision
43	ADVANCED Digitals Ouputs - 6 FEEDERS	00
44	ADVANCED Digitals Ouputs - 6 FEEDERS	00
45	ADVANCED Digitals Ouputs - 6 FEEDERS	00
46	ADVANCED Digitals Ouputs - 6 FEEDERS	00
47	ADVANCED Digitals Ouputs - 6 FEEDERS	00
48	ADVANCED Digitals Ouputs - 6 FEEDERS	00
49	ADVANCED WS Analog Inputs	00
50	ADVANCED WS Analog Inputs	00
51	ADVANCED DCS Analog Inputs	00
52	ADVANCED DCS Analog Inputs	00
53	ADVANCED PT1000 Analog Inputs	00
54	ADVANCED Analog Outputs	00
150	TERMINAL BLOCK : =+MCC-X2	00
151	TERMINAL BLOCK : =+MCC-X3	00
152	TERMINAL BLOCK : =+MCC-X4	00
153	TERMINAL BLOCK : =+MCC-X10	00
154	TERMINAL BLOCK : =+MCC-X11	00
155	TERMINAL BLOCK : =+MCC-X21	00
156	TERMINAL BLOCK : =+MCC-X22	00
157	TERMINAL BLOCK : =+MCC-X23	00
158	TERMINAL BLOCK : =+MCC-X24	00
159	TERMINAL BLOCK : =+MCC-X25	00
160	TERMINAL BLOCK : =+MCC-X26	00
161	TERMINAL BLOCK : =+MCC-X51	00
162	TERMINAL BLOCK : =+MCC-X52	00
163	TERMINAL BLOCK : =+MCC-X53	00
164	TERMINAL BLOCK : =+MCC-X54	00
500	EQUIPMENT LIST	00
501	EQUIPMENT LIST	00
502	EQUIPMENT LIST	00

Archivage
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LIST OF SHEETS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

EAV5829303

Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	03

SYMBOLE SYMBOL	CODE	LEGENDE DESCRIPTION	SYMBOLE SYMBOL	CODE	LEGENDE DESCRIPTION	SYMBOLE SYMBOL	CODE	LEGENDE DESCRIPTION
		CONTACT A FERMETURE MAKE CONTACT			DISPOSITIF D'ACCROCHAGE EN PRISE DEVICE FOR RESTRICTING MOVEMENT BLOCKED POSITION		G	ELEMENT DE PILE OU ACCUMULATEUR PRIMARU CELL OR ACCUMULATOR
		CONTACT A OUVERTURE BREAK CONTACT			DISPOSITIF D'ACCROCHAGE LIBERE DEVICE FOR RESTRICTING MOVEMENT UNBLOCKED POSITION			
		CONTACT INVERSEUR CHANGE OVER CONTACT			TERRE DE PROTECTION EARTH PROTECTION		H	LAMPE DE SIGNALISATION SIGNAL LAMP
		CONTACT NO TEMPORISE AU TRAVAIL MAKE CONTACT DELAY WHEN OPERATING			TERRE FONCTIONNELLE FUNCTIONNAL EARTH		H	VOYANT MECANIQUE DE SIGNALISATION MECHANICAL INDICATOR
		CONTACT NF TEMPORISE AU TRAVAIL BREAK CONTACT DELAY WHEN OPERATING			TERRE EARTH		H	AVERTISSEUR HORN
		CONTACT NO TEMPORISE AU REPOS MAKE CONTACT DELAY WHEN RELEASING	P	B	COMMANDE PAR PRESSION OPERATED BY PRESSURE		H	SONNERIE HORN
		CONTACT NF TEMPORISE AU REPOS MAKE CONTACT DELAY WHEN RELEASING	U	B	COMMANDE PAR TEMPERATURE OPERATED BY TEMPERATURE			
		CONTACT DE PASSAGE A LA FERMETURE PASSING MAKE CONTACT CLOSING NOMENTARILY DURING OPERATION	h	B	COMMANDE PAR NIVEAU OPERATED BY LEVEL		KA	RELAIS - ORGANE DE COMMANDE RELAY - COIL
		CONTACT DE PASSAGE A L'OUVERTURE PASSING BREAK CONTACT CLOSING NOMENTARILY DURING OPERATION					KA	RELAIS A MISE AU REPOS RETARDEE SLOW RELEASING RELAY COIL
		CONTACT A FERMETURE ANTERIEURE AUX AUTRES CONTACTS DE L'ENSEMBLE MAKE CONTACT WICH OPERATES EARLIER RELATIVE TO THE ASSEMBLY OF CONTACT		C	CAPACITE - CONDENSATEUR CAPACITANCE - CAPACITOR		KA	RELAIS A MISE AU TRAVAIL RETARDEE SLOW OPERATING RELAY COIL
		CONTACT A FERMETURE POSTERIEURE AUX AUTRES CONTACTS DE L'ENSEMBLE MAKE CONTACT WICH OPERATES LATER RELATIVE TO THE ASSEMBLY OF CONTACT	QFO.10	E	RESISTANCE DE CHAUFFAGE HEATING RESISTOR		KM	CONTACTEUR CONTACTOR
Q2		CONTACT A OUVERTURE POSTERIEURE AUX AUTRES CONTACTS DE L'ENSEMBLE BREAK CONTACT WICH OPERATES LATER RELATIVE TO THE ASSEMBLY OF CONTACT						
		CONTACT A OUVERTURE ANTERIEURE AUX AUTRES CONTACTS DE L'ENSEMBLE MAKE CONTACT WICH OPERATES EARLIER RELATIVE TO THE ASSEMBLY OF CONTACT		F	PARAFOUDRE LIGHTNING ARRESTER		P	INDICATEUR - SYMBOLE GENERAL INDICATING INSTRUMENT - GENERAL SYMBOL
		DISPOSITIF D'EMBROCHAGE WITHDRAWABLE DEVICE		F	COUPE CIRCUIT FUSE		P	ENREGISTREUR- SYMBOLE GENERAL RECORDING INSTRUMENT - GENERAL SYMBOL
		VERROUILLAGE MECANIQUE MECHANICAL INTERLOCK		F	DETECTION DE SURINTENSITE - EFFET THERMIQUE OVERCURRENT DETECTION - THERMAL EFFECT		P	COMPTEUR- SYMBOLE GENERAL INTEGRATING METER - GENERAL SYMBOL
		ENROULEMENT WINDING		F	DETECTION DE SURINTENSITE - EFFET MAGNETIQUE OVERCURRENT DETECTION - MAGNETIC EFFECT			

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

LEGEND OF SYMBOLS
Part 1

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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EAV5829303

Projet - No commande / Project - Order No.

Indice Rev: 00 — Folio Sheet: 04

SYMBOLE SYMBOL	CODE	LEGENDE DESCRIPTION	SYMBOLE SYMBOL	CODE	LEGENDE DESCRIPTION	SYMBOLE SYMBOL	CODE	LEGENDE DESCRIPTION
	Q	INTERRUPTEUR SWITCH		S	COMMANDE PAR LEVIER OPERATED BY LEVER		U	CONVERTISSEUR TRANSDUCER
	Q	DISJONCTEUR CIRCUIT BREAKER		S	COMMANDE PAR CLEF OPERATED BY KEY			
	Q	SECTIONNEUR DISCONNECTOR (ISOLATOR)		S	TL OU TPL POUR SECTIONNEUR DISCREPANCY SWITCH FOR DISCONNECTOR		V	FONCTION REDRESSEUSE RECTIFYING FUNCTION
	Q	INTERRUPTEUR SECTIONNEUR SWITCH DISCONNECTOR		S	TL OU TPL POUR DISJONTEUR DISCREPANCY SWITCH FOR CB			
	Q	COMMANDE PAR MOTEUR OPERATED BY MOTOR		S	BOITIER DE SIGNALISATION ALARM ANNUNCIATOR			
	R	SHUNT SHUNT		T	TRANSFORMATEUR DE COURANT UNIIFILAIRE CURRENT TRANSFORMER SLD		X	BOITE D'ESSAI TEST BLOCK
	R	RESISTANCE RESISTOR		T	TRANSFORMATEUR DE COURANT MULTIFILAIRE CURRENT TRANSFORMER TRIPOLAR DRAWING		X	BORNE SIMPLE ORDINARY TERMINAL BLOCK
				T	TRANSFORMATEUR DE TENSION MULTIFILAIRE VOLTAGE TRANSFORMER TRIPOLAR DRAWING		X	BORNE SECTIONABLE INTERRUPTIBLE TERMINAL BLOCK
	S	CONTACT DE POSITION NO MAKE CONTACT OF LIMIT SWITCH		T	ENROULEMENT DE TRANFORMATEUR DE PUISSANCE - MULTIFILAIRE POWER TRANSFORMER WINDING - TRIPOLAR DRAWING		X	BORNE FUSIBLE FUSE CARIER TERMINAL BLOCK
	S	CONTACT DE POSITION NF BREAK CONTACT OF LIMIT SWITCH		T	ENROULEMENT DE TRANFORMATEUR DE PUISSANCE - MULTIFILAIRE POWER TRANSFORMER WINDING - TRIPOLAR DRAWING		X	BORNE DIODE DIODE TERMINAL BLOCK
	S	COMMUTATEUR UNIPOLAIRE A N DIRECTIONS SINGLE POLE N POSITIONS SWITCH		T	TRANFORMATEUR DE PUISSANCE - UNIFILAIRE POWER TRANSFORMER - SLD		X	BORNE RESISTANCE RESISTOR TERMINAL BLOCK
	S	COMMANDE PAR POUSSOIR OPERATED BY PUSHING		T	AUTOTRANFORMATEUR DE PUISSANCE - UNIFILAIRE POWER AUTOTRANSFORMER WINDING - SLD		X	BROCHE MALE DE CONNECTEUR MAL CONNECTOR PIN
	S	COMMANDE PAR TIRETTE OPERATED BY PULLING		T	TRANSFORMATEUR D'ISOLEMENT ISOLATING TRANSFORMER		X	BROCHE FEMELLE DE CONNECTEUR FEMALE CONNECTOR PIN
	S	COMMANDE ROTATIVE OPERATED BY TURNING						
	S	BOUTON POUSSOIR COUP DE POING EMERGENCY SWITCH						

Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

LEGEND OF SYMBOLS
Part 2

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Printed on 2014/03/19

EAV5829303
Projet - No commande / Project - Order No.
Indice / Rev: 00
Folio / Sheet: 05

A3 suite - 11/2006

LE REPERAGE DES APPAREILS EST CONFORME A LA NORME CEI. ADDITION DE 4 BLOCS DE CARACTERES

= ANN (bloc 1*) + AANN (bloc 2) - AA*N*N (bloc 3) : CC*C* (bloc 4)

A = Alphabétique
N = Numérique
C = Alphanumérique
* = facultatif

Ex : =D01 +AB01 -KA1 :13
- repère du N° de borne
- repère du matériel (racine et n° d'ordre)
- repère de l'emplacement physiquel (zone ; localisation)
- repère essentiel (ensemble ou fonction)

bloc 1 =ANN "=" symbole distinctif **repère essentiel**

Repère principal caractérisant chaque subdivision importante d'une installation ou ensemble (fonctionnel). Il est facultatif.
Le 1° caractère est choisi dans la "TABLE 1.
Cette table donne les lettres repères des niveaux de tension et des fonctions non spécifiques à une travée ou un niveau de tension.

bloc 2 +AANN "+" symbole distinctif **repère de l'emplacement physique**

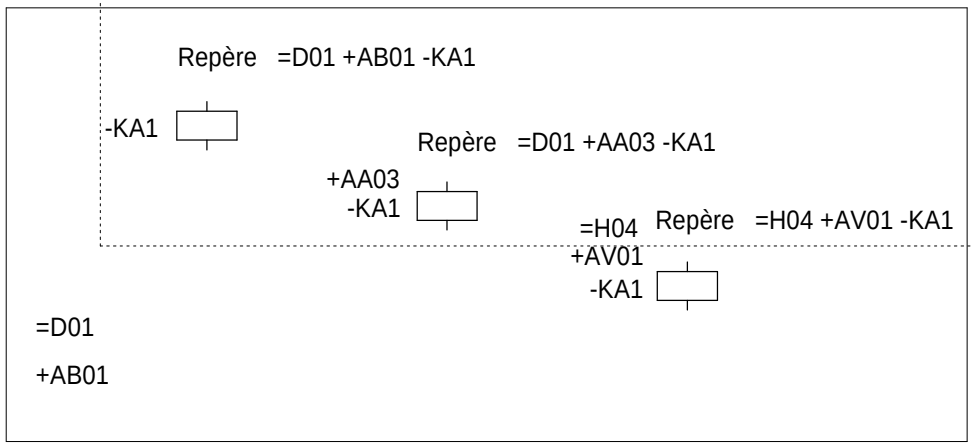
Repère de l'adresse physique du matériel.
Repère de l'équipement qui contient le matériel (choix des deux premiers caractères dans la "TABLE 2").

bloc 3 -AA*N*N "-" symbole distinctif **repère matériel**

Repère complet du nom de l'appareil. La première lettre indique la fonction générale de l'appareil. Choix "TABLE 3".

bloc 4 :CC*C* ":" symbole distinctif **repère du N° de borne**

Repère composé indifféremment de lettres ou de chiffres.



ACCORDING TO STANDARD, MARKING OF EQUIPMENTS IS MADE WITH 4 BLOCKS OF CHARACTERS

= ANN (block 1*) + AANN (block 2) - AA*N*N (block 3) : CC*C* (block 4)

A = Alphabetic
N = Numeric
C = Alphanumeric
* = optional

Ex : =D01 +AB01 -KA1 :13
- terminal designation
- identification of item (root & sequence N°)
- location of item (zone ; location)
- higher-level designation (set or function)

block 1 =ANN "=" distinctive symbol **higher level designation**

Item designation for any major part of plant or function. Optional.
First character is given by "TABLE 1".
This table gives codes for voltage levels and for no attached functions to a particular bay or voltage level.

block 2 +AANN "+" distinctive symbol **location of item**

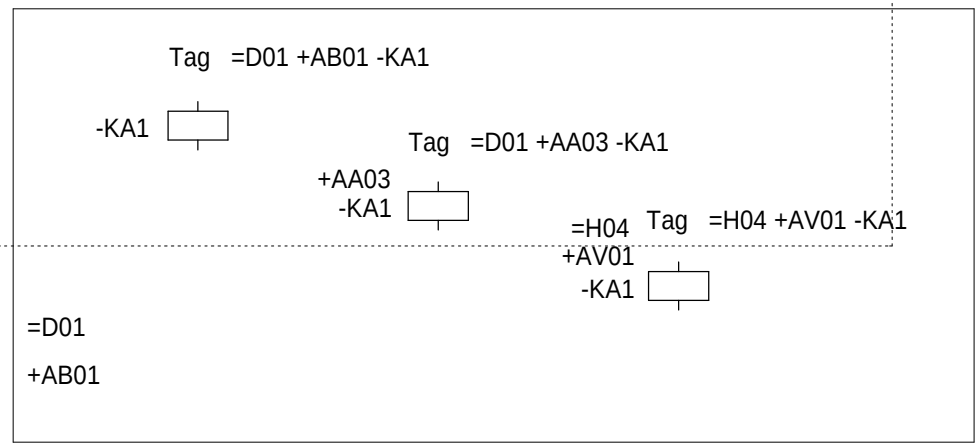
Designation for location item.
Indicates equipment wich conttains the item (choice of the 2 first characters "TABLE 2").

block 3 -AA*N*N "-" distinctive symbol **identification of item**

Complete designation of item identification. 1st character indicates general function of item. Choice "TABLE 3".

block 4 :CC*C* ":" distinctive symbol **terminal designation**

Designation composed of letters or numbers.



Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

MARKING

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

EAV5829303

Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	06

1	2	3	4	5	6	7	8	9	10

NIVEAUX DE TENSION

LETTRES	TENSIONS
B	> 420kV
C	380 à 419kV
D	220 à 379kV
E	110 à 219kV
F	60 à 109kV
G	45 à 59kV
H	30 à 44kV
J	20 à 29kV
K	10 à 19kV
L	6 à 9kV
M	1 à 5kV
N0	500 - 999VCA
N1	300 - 499VCA
N2	50 - 299VCA
N3	< 49VCA
N5	> 250VCC
N6	150 - 249VCC
N7	50 - 149VCC
N8	25 - 49VCC
N9	< 24VCC

FONCTIONS NON SPECIFIQUES A UNE TRAVEE OU A UN NIVEAU DE TENSION

LETTRES	FONCTIONS
Q	MESURE - COMPTAGE - ENREGISTREMENT
R	PROTECTIONS
S	ECLAIRAGE - CLIMATISATION - INSTAL DOMESTIQUE
T	TRANSFORMATEUR
U	COMMUNS - TRANCHE GENERALE
V	
W	INTERFACES
X	CONSIGNATEURS - OSCILLOPERTURBOGRAPHE
Y	SYSTEME TELECOMMUNICATION
Z	CABLE

Le numéro de la travée est donné par deux chiffres caractéristiques de 01 à 99.
Les chiffres "00" sont utilisés pour les équipements communs à un niveau de tension et plusieurs travées.

ex : =E00, repère essentiel de l'ensemble fonctionnel commun à toutes les travées 132kV.
+E00.AB01, armoire de relayage N°1 (protection bar re)

EXEMPLES : +E04 Indique que l'emplacement appartient en totalité à la travée 110kV N°04
=C05 Indique la travée 400kV N°05
=R01 Indique l'ensemble fonctionnel "PROTECTION INCENDIE" N°01

LEVEL VOLTAGE

LETTRES	VOLTAGE
B	> 420kV
C	380 à 419kV
D	220 à 379kV
E	110 à 219kV
F	60 à 109kV
G	45 à 59kV
H	30 à 44kV
J	20 à 29kV
K	10 à 19kV
L	6 à 9kV
M	1 à 5kV
N0	500 - 999VAC
N1	300 - 499VAC
N2	50 - 299VAC
N3	< 49VAC
N5	> 250VDC
N6	150 - 249VDC
N7	50 - 149VDC
N8	25 - 49VDC
N9	< 24VDC

NO ATTACHED FUNCTIONS TO A PARTICULAR BAY OR A VOLTAGE LEVEL

LETTRES	VOLTAGE
Q	MEASURING - RECORDING - METERING
R	PROTECTIONS
S	LIGHTING, AIR CONDITIONING, DOMESTIC
T	TRANSFORMER
U	COMMONS
V	
W	INTERFACES
X	EVENTS & FAULT RECORDER, SUPERVISION
Y	TELECOMMUNICATION SYSTEM, ALARMS STATUS
Z	CABLE

Bay number is given by two figures from 01 to 99.
Figures "00" are used for common equipment to a voltage level and several bays

eg ; =E00, higher level of designation 132kV busbar
+E00, AB01, 132kV common relaying cubicle N°1 (bus bar protection)

EXAMPLES : +E04 Indicates that the localisation is fully attached to bay 110kV N°04
=C05 Indicates bay 400kV N°05
=R01 Indicates the function "FIRE PROTECTION" N° 01

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Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

HIGHER LEVEL DESIGNATION

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

Schneider Electric

Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	07

CODE	DESIGNATION
AC	Tableau de commande et protection Control and relay board
AD	Tableau de comptage - mesure Metering - Measuring board
AE	Armoire enregistreur de pertubations Fault recorder cubicle
AF	Armoire de travée Marshalling kiosk
AG	Coffret intensité Current box
AH	Coffret tension Voltage box
AJ	Armoire - coffret d'éclairage Lighting cubicle - box
AL	Armoire monitoring de livraison (PDL) Monitoring delivery board (PDL)
AM	Coffret auxiliaires transformateur Transformer auxiliaries box
AN	Coffret régleur transformateur On load tap changer box
AO	Armoire / coffret synchro Synchro panel
AP	Armoire monitoring de transformation (PTR) Monitoring transformer board (PTR)

CODE	DESIGNATION
AQ	Armoire contrôle et régulation tension du transformateur Transformer auto voltage regulation cubicle
AS	Armoire auxiliaires courant alternatif AC low voltage auxiliaries cubicle
AT	Armoire auxiliaires courant continu DC low voltage auxiliaries cubicle
AU	Armoire auxiliaires groupe de secours Emergency generator auxiliaries cubicle
AV	Caisson-coffret BT des cellules MT MV SWGR low voltage cubicle-box
AW	Armoire des auxiliaires disjoncteur Circuit breaker auxiliaries cubicle
AX	Armoire des auxiliaires sectionneur Disconnecting switch auxiliaries cubicle

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Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue	

LOCATION IDENTIFICATION

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

Released for Manufacturing
Printed on 2014/03/19

EAV5829303
Projet - No commande / Project - Order No.
Indice / Rev: 00
Folio / Sheet: 08

A3 suite - 01/2008

CODE	DESIGNATION - (Famille de symbole) / (Family of symbol)
A	Ensemble, Sous-ensemble - (démarreur de moteur, automates) Assemblie, Subassemblie - (motor starter, programmable logic device)
B	Transducteur de grandeur non électrique en grandeur électrique - (détecteur, capteur) Transducer from non electrical to electrical quantity - (detector, sensor)
C	Condensateur Capacitor
D	Operateur binaire, Mise en mémoire, Temporisation Binary operator, Storage device delay, Delay device
E	Matériel divers - (chauffage, éclairage, divers) Miscellaneous - (heating, lighting, various)
F	Dispositif de protection - (fusible, protection, relais thermique & magnétique, relais de mesure) Protective device - (fuse, thermal & magnetic relay, measuring relay)
G	Générateur, Alimentation de puissance - (générateur, batterie) Generator, Power supply - (generator, battery)
H	Dispositif de signalisation - (signalisation) Signalling device - (signalling)
KA	Relais, Contacteur - (relais auxiliaire, contact) Relay, Contactor - (auxiliairy relay, contact)
KM	Relais, Contacteur - (contacteur de puissance, contact) Relay, Contactor - (power contactor, contact)
L	Reactance - (inductance) Reactor - (inductance)
M	Moteur Motor
N	Dispositif analogique-numérique Analogue digital device
P	Instruments de mesure - (appareil de mesure, indicateur, enregistreur) Measuring equipment - (measuring instrument)
Q	Appareil de connexion pour circuit de puissance - (disjoncteur, interrupteur, sectionneur, contacteur disj) Switching device for power circuit - (circuit breaker,switch, disconnector,circuit breaker contactor)

CODE	DESIGNATION - (Famille de symbole) / (Family of symbol)
R	Résistance - (résistance, shunt) Resistor - (resistor, shunt)
S	Appareil de connexion pour circuit de conduite, Selecteur - (bouton, commutateur,fin de course) Switching device for control, Circuit-selector - (button, turn switch, limit switch)
T	Transformateur Transformer
U	Transducteur, Convertisseur Transducer, Converter
V	Semiconducteur Semiconductor
W	Conducteur - Câble Conductor - Cable
X	Bornes - (prise de courant, répartiteur, borne) Terminals - (plug-in soket, distributor, terminal)
Y	Appareil mécanique actionné électriquement - (frein, électrovane) Electrical operated mechanical device - (brake, electrovalve)
Z	Régulateur, Filtre, Correcteur Regulator, Filter, Compandor

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CODE	DESIGNATION - (Famille de symbole) / (Family of symbol)
INTi	TELEFAST ABE7 Sub-base i
APjRk	Programmable Automat j Rack k
XF01	OPTICAL Box 1
WO00i	OPTICAL FIBER Cord i
WET00i	ETHERNET TCP/IP Cord i
WM00i	RS485 MODBUS Serial Cord i
WINTi	TELEFAST ABE7 Sub-bases Cord i

CODE	DESIGNATION - (Famille de symbole) / (Family of symbol)

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+MCC

Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

SPECIFIC DEVICES IDENTIFICATION

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Released for Manufacturing
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Schneider Electric

EAV5829303

Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	10

WIRING IDENTIFICATION

POWER WIRING

400V ALTERNATIF CURRENT

PHASE : BLACK

NEUTRAL : B LUE

230V ALTERNATIF CURRENT

PHASE : RED

NEUTRAL : BLUE

EARTH PROTECTION

PE : GREEN / YELLOW

CONTROL WIRING

15V or 24 DIRECT CURRENT :

+15V o r + 24V : RED

-15V o r -24 V : W HITE GROUND or 0V : GREEN

CONTROL CIRCUIT SUPPLY BY AN EXTERNAL SOURCE : ORANGE

INSTRUMENTATION WIRING

SEE DETAILS IN SPECIFIC CABLES LIST

WIRES TYPE

H07V2K FOR THE CONTROL

H07V2K FOR THE POWER

SEE THE SPECIFIC CABLES LIST FOR THE INSTRUMENTATION

GENERAL

ONE WIRE FOR A TERMINAL BLOCK

MAXIMUM TWO PROTECTION WIRES MUST BE CONNECTED TO ONE BLOCK

MARK

LABEL TYPE

WIRING MARKING

MARK SHEET - NUMBER AT EACH END FOR CONNEXIONS

CIRCUIT BREAKER EX : Q1 : 1

- TERMINAL NUMBER
- DEVICE TYPE

TERMINAL BLOCK EX : X3 : 1

- TERMINAL NUMBER
- DEVICE TYPE

DEVICES MARKING

MARK ROOT - NUMBER

DEVICE EX : Q 1

- DEVICE NUMBER
- DEVICE TYPE

CORD AND CABLES MARKING

MARK ROOT - NUMBER

CABLE EXAMPLES :

ETHERNET TCP/IP CABLE 1 : WET 001

RS485 MODBUS SERIAL CABLE : WM 001

- CABLE NUMBER
- CABLE DESIGNATION

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00	17/03/2014	Edition originale / First issue					

SPECIFIC IDENTIFICATION AND MARKING FOR DEVICES AND CORDS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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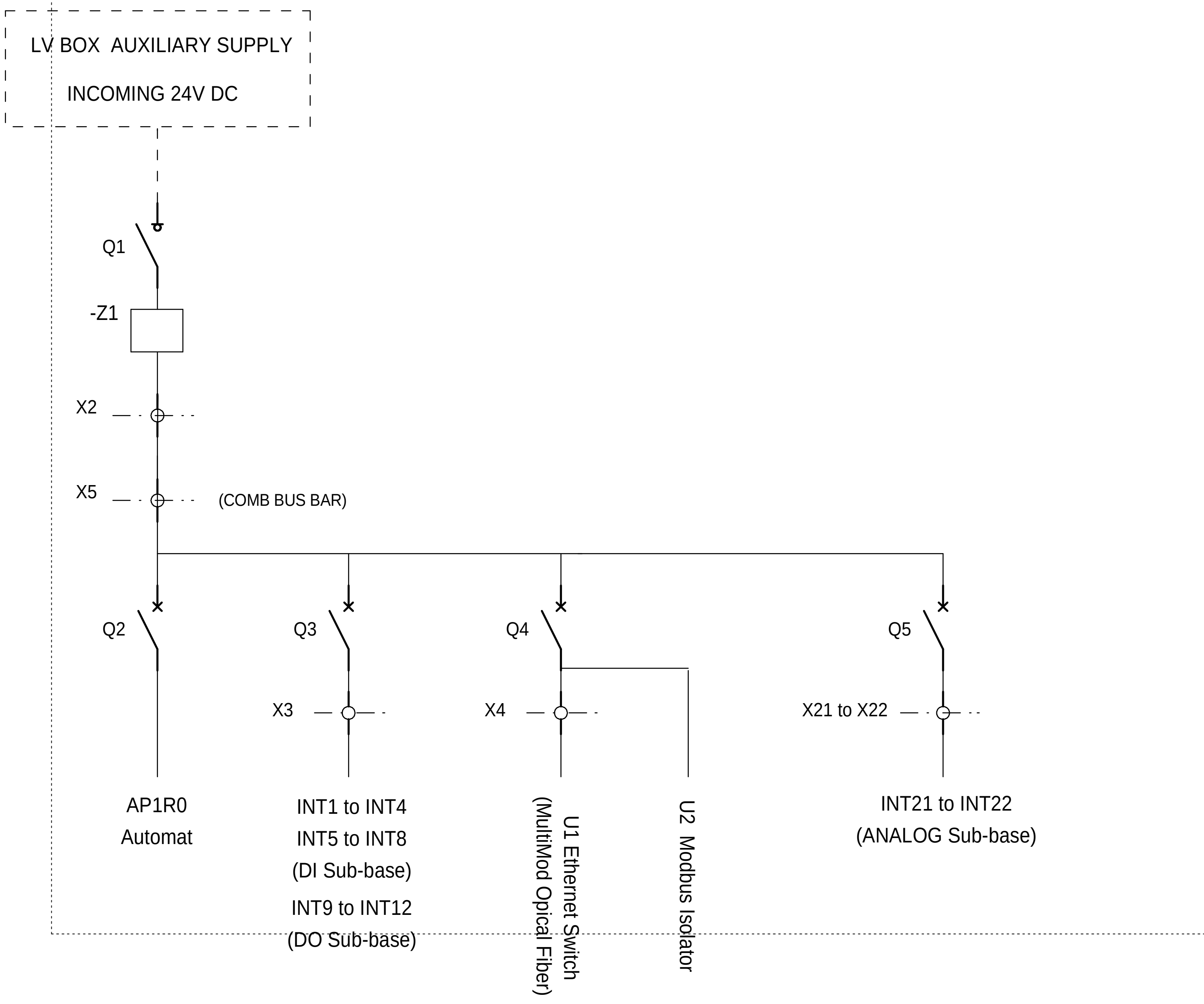
Projet - No commande / Project - Order No. | Indice / Rev: 00 | Folio / Sheet: 11

1 2 3 4 5 6 7 8 9 10



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+MCC

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00	17/03/2014	Edition originale / First issue					

+24V DC POWER SUPPLY DIAGRAMM
- ADVANCED 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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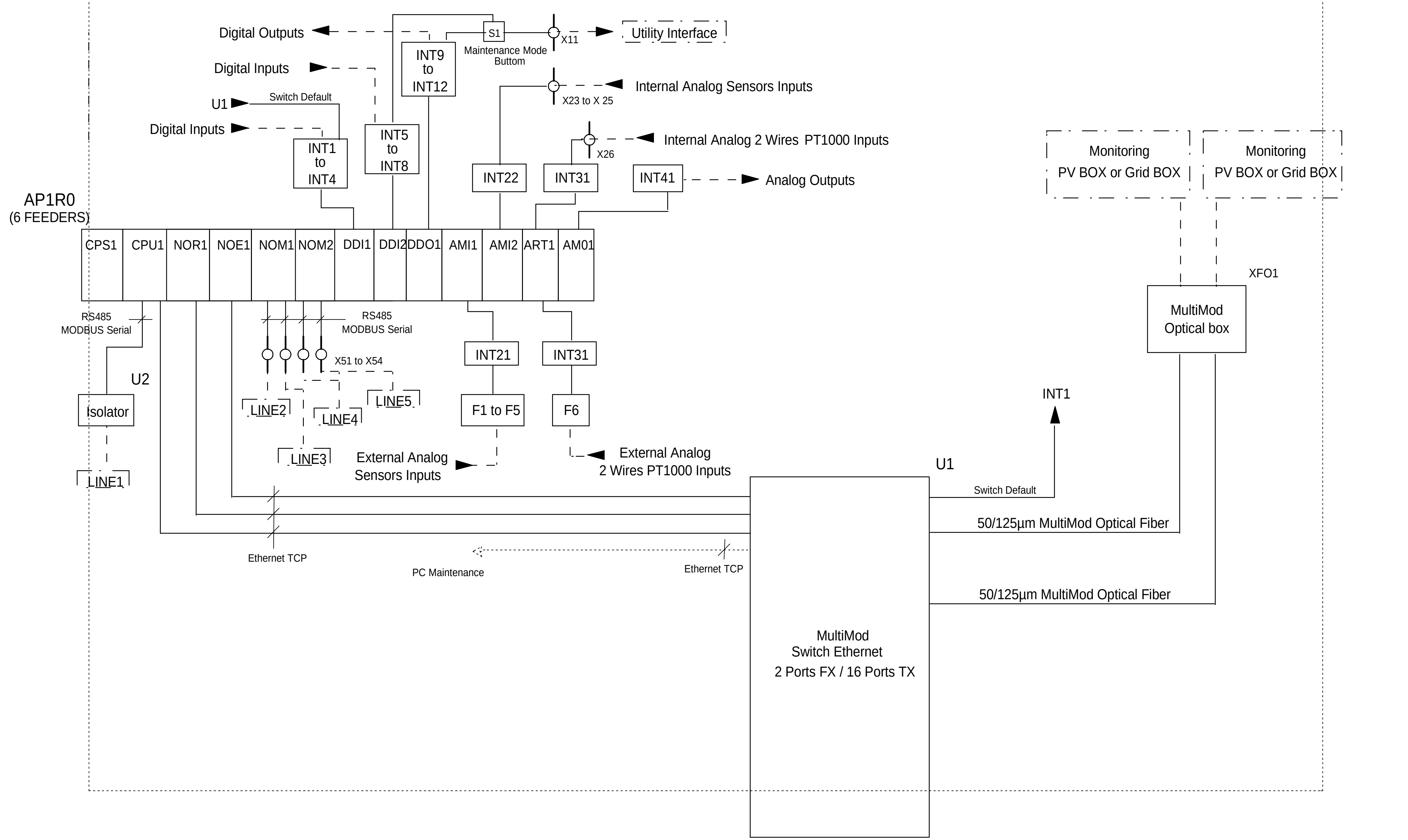
Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 12



Digital Outputs
S1
X11
Utility Interface
Maintenance Mode Buttom
INT9 to INT12
Digital Inputs
Internal Analog Sensors Inputs
X23 to X 25
U1
Switch Default
Digital Inputs
INT5 to INT8
INT1 to INT4
Internal Analog 2 Wires PT1000 Inputs
X26
Monitoring PV BOX or Grid BOX
Monitoring PV BOX or Grid BOX
INT22
INT31
INT41
Analog Outputs
AP1R0 (6 FEEDERS)
CPS1
CPU1
NOR1
NOE1
NOM1
NOM2
DDI1
DDI2
DDO1
AMI1
AMI2
ART1
AM01
XFO1
MultiMod Optical box
RS485 MODBUS Serial
RS485 MODBUS Serial
X51 to X54
INT21
INT31
U2
Isolator
LINE2
LINE4
LINE5
F1 to F5
F6
INT1
LINE3
External Analog Sensors Inputs
External Analog 2 Wires PT1000 Inputs
U1
LINE1
Switch Default
50/125µm MultiMod Optical Fiber
Ethernet TCP
PC Maintenance
Ethernet TCP
50/125µm MultiMod Optical Fiber
MultiMod Switch Ethernet
2 Ports FX / 16 Ports TX

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+MCC

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00	17/03/2014	Edition originale / First issue					

MONITORING DIAGRAMM
- ADVANCED 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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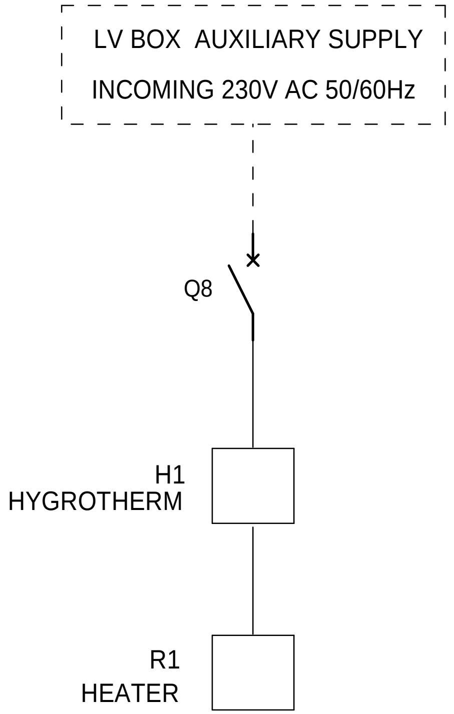
EAV5829303

Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	13

A3 suite - 01/2008



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00	17/03/2014	Edition originale / First issue					

230V AC POWER SUPPLY DIAGRAMM

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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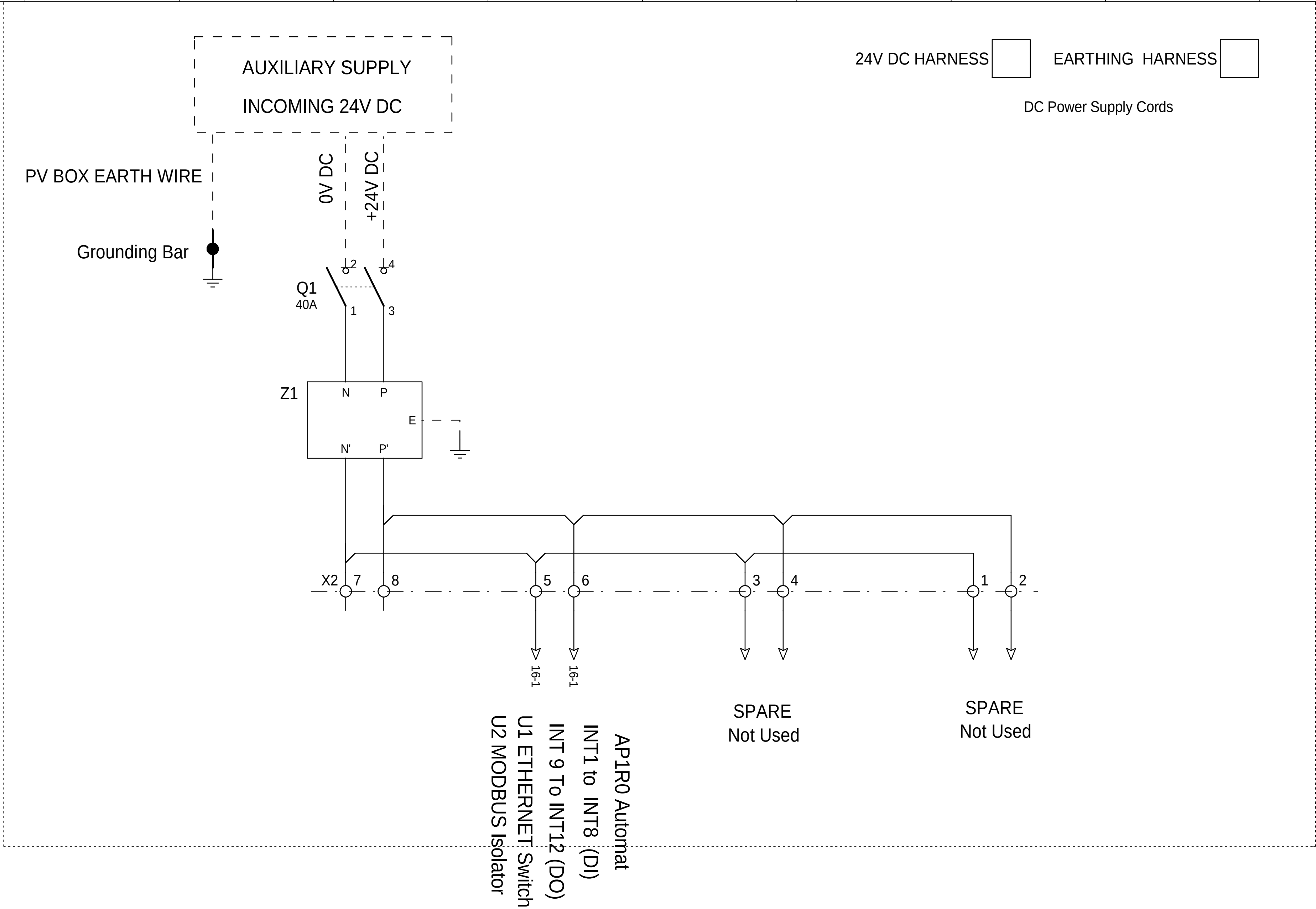
Project - N° Commande | Rev. / Indice: 00 | Sheet / Folio: 14

A3 E=mc² 05/2008



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+MCC

Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

+24VDC POWER SUPPLY DISTRIBUTION - ADVANCED 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 15

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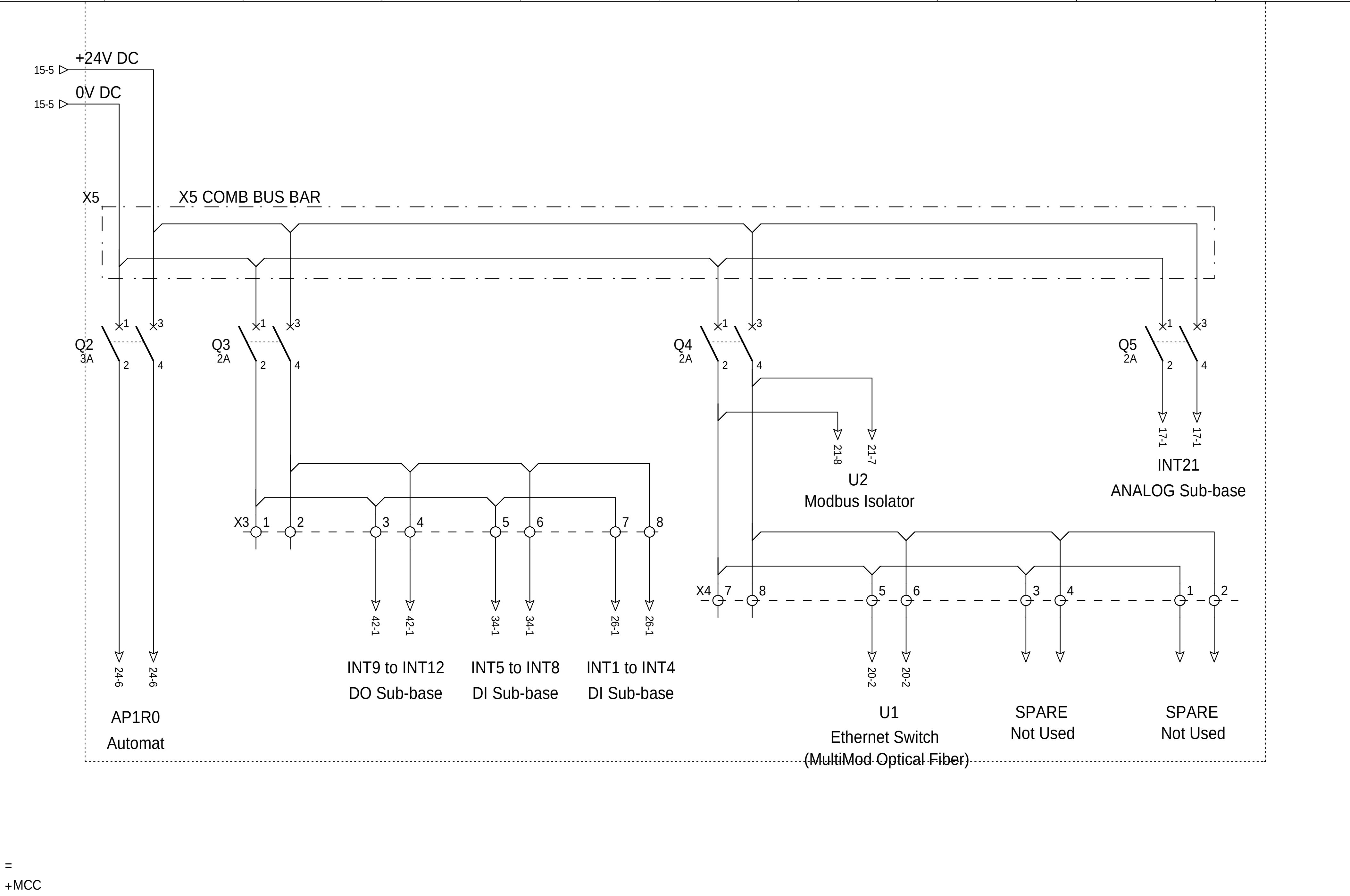
Elec_en_Schneider GRID MCC ADVANCED 6F



Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

+24V DC POWER SUPPLY DISTRIBUTION - ADVANCED 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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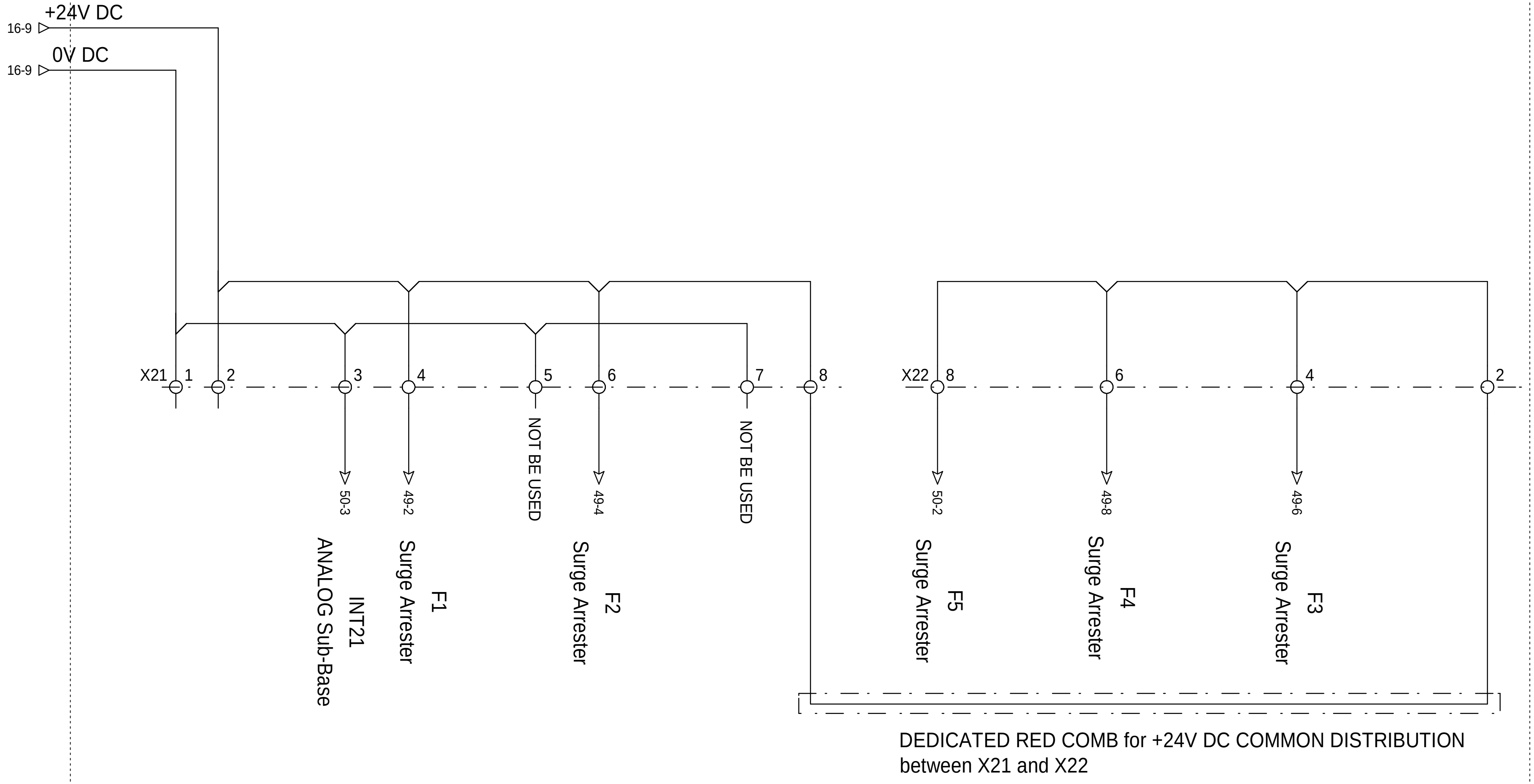
EAV5829303

Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	16

A3 suite - 01/2008



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+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

+24V DC POWER SUPPLY DISTRIBUTION
- WS Analog Inputs
- ADVANCED

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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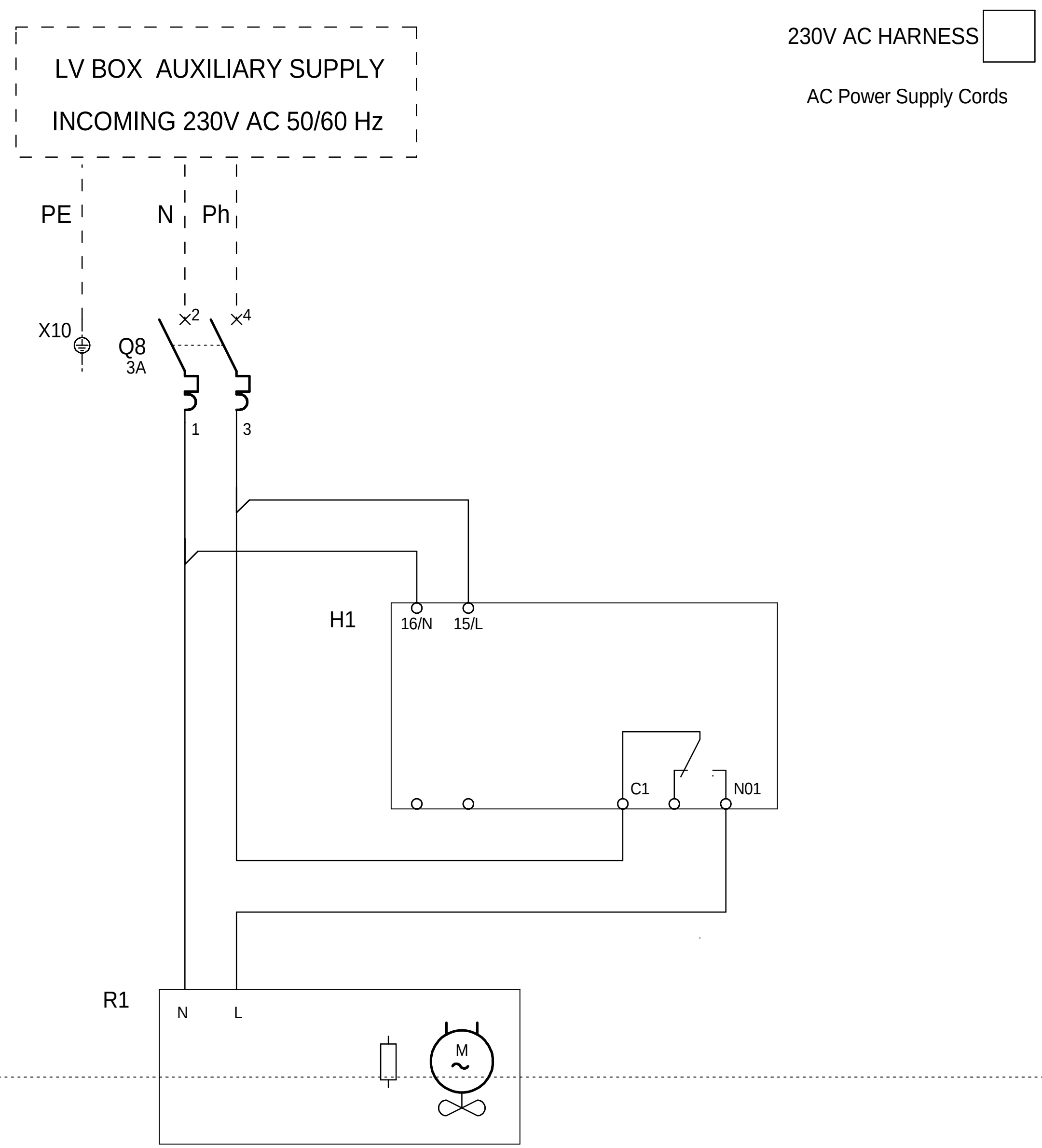
Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 17



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+MCC

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230V AC POWER SUPPLY HEATER

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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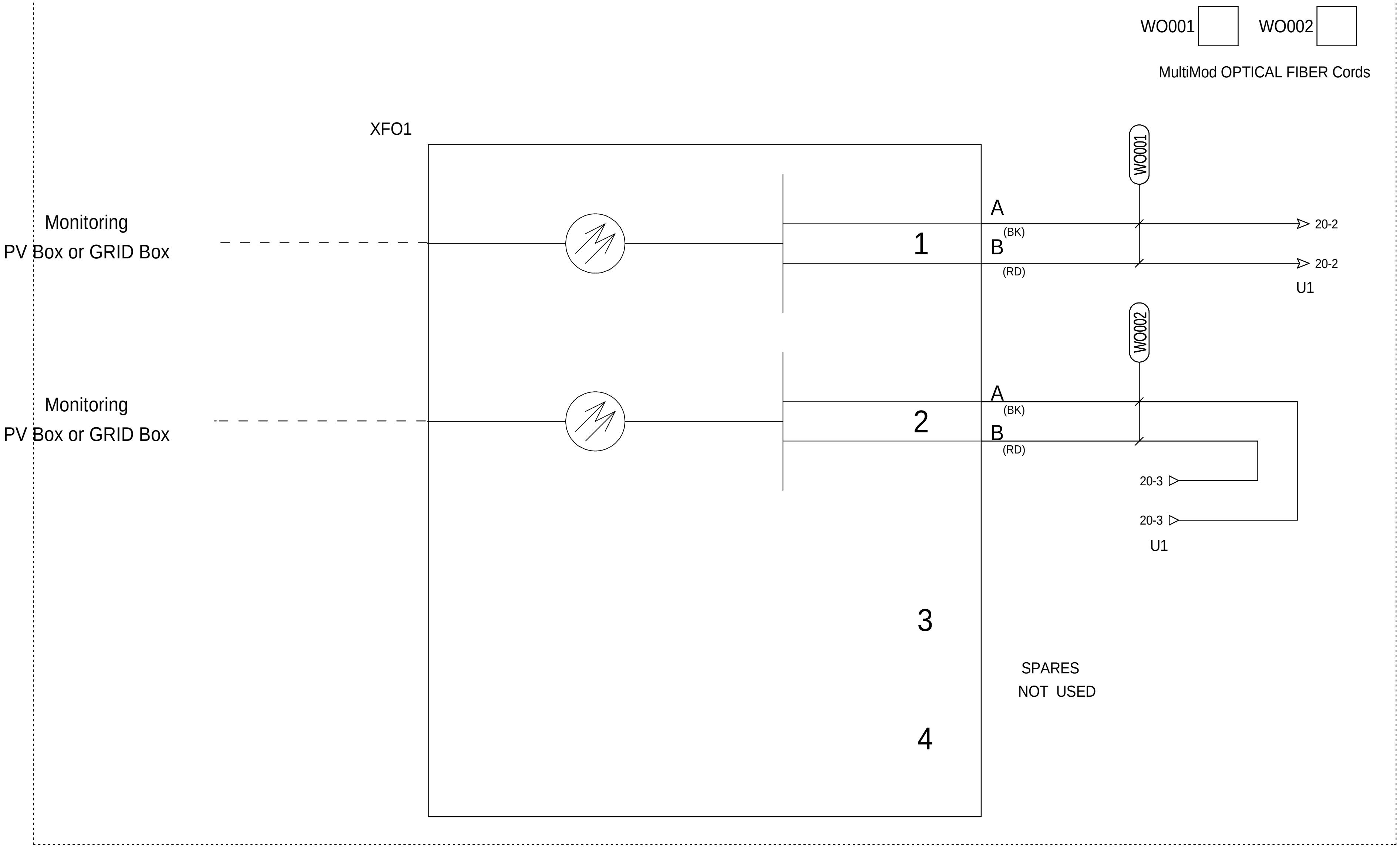
Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 18



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00	17/03/2014	Edition originale / First issue					

MultiMod OPTICAL BOX
- ADVANCED

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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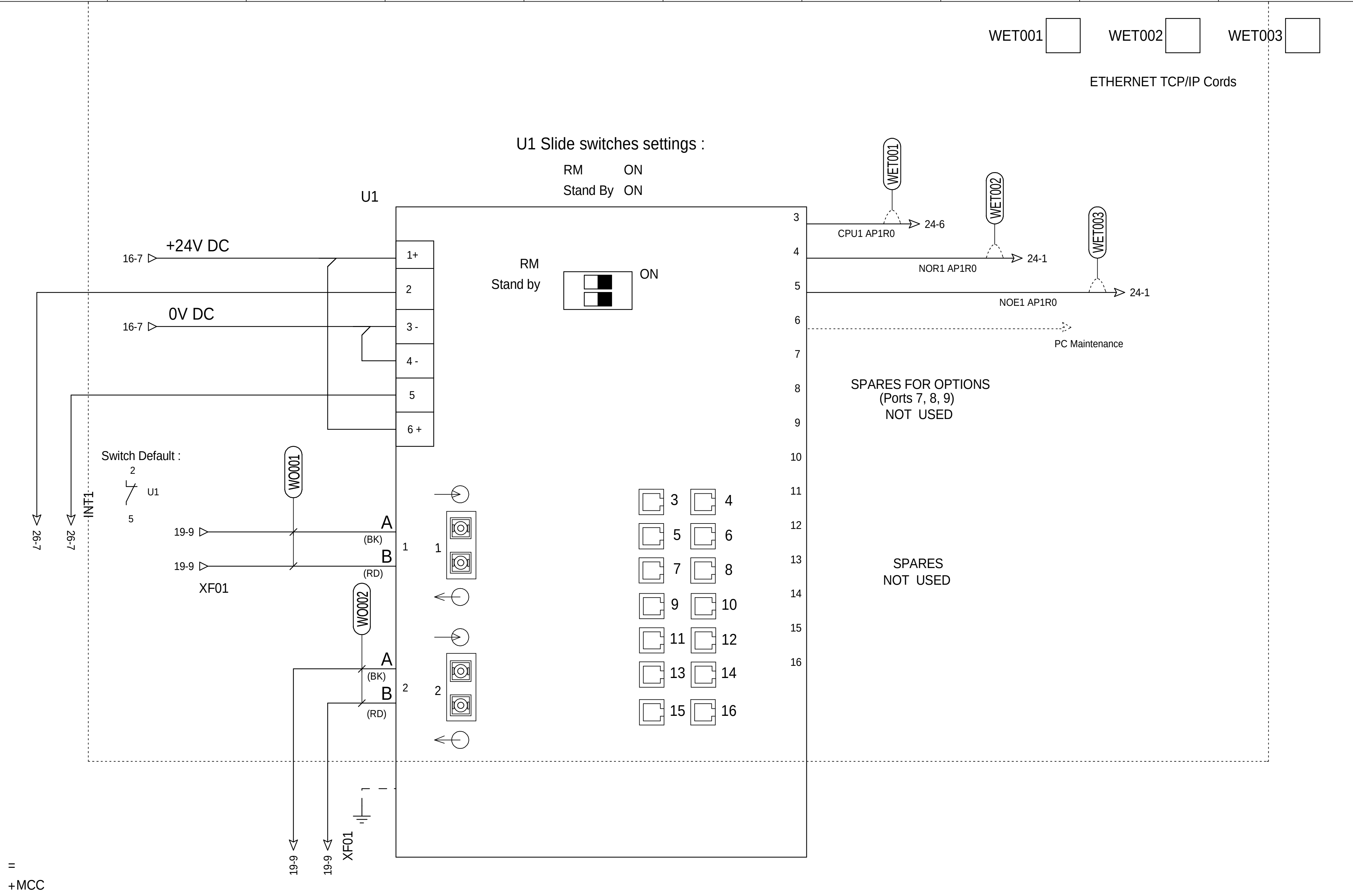
Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 19

A3 suite - 01/2008



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MultiMod ETHERNET TCP/IP SWITCH
- ADVANCED

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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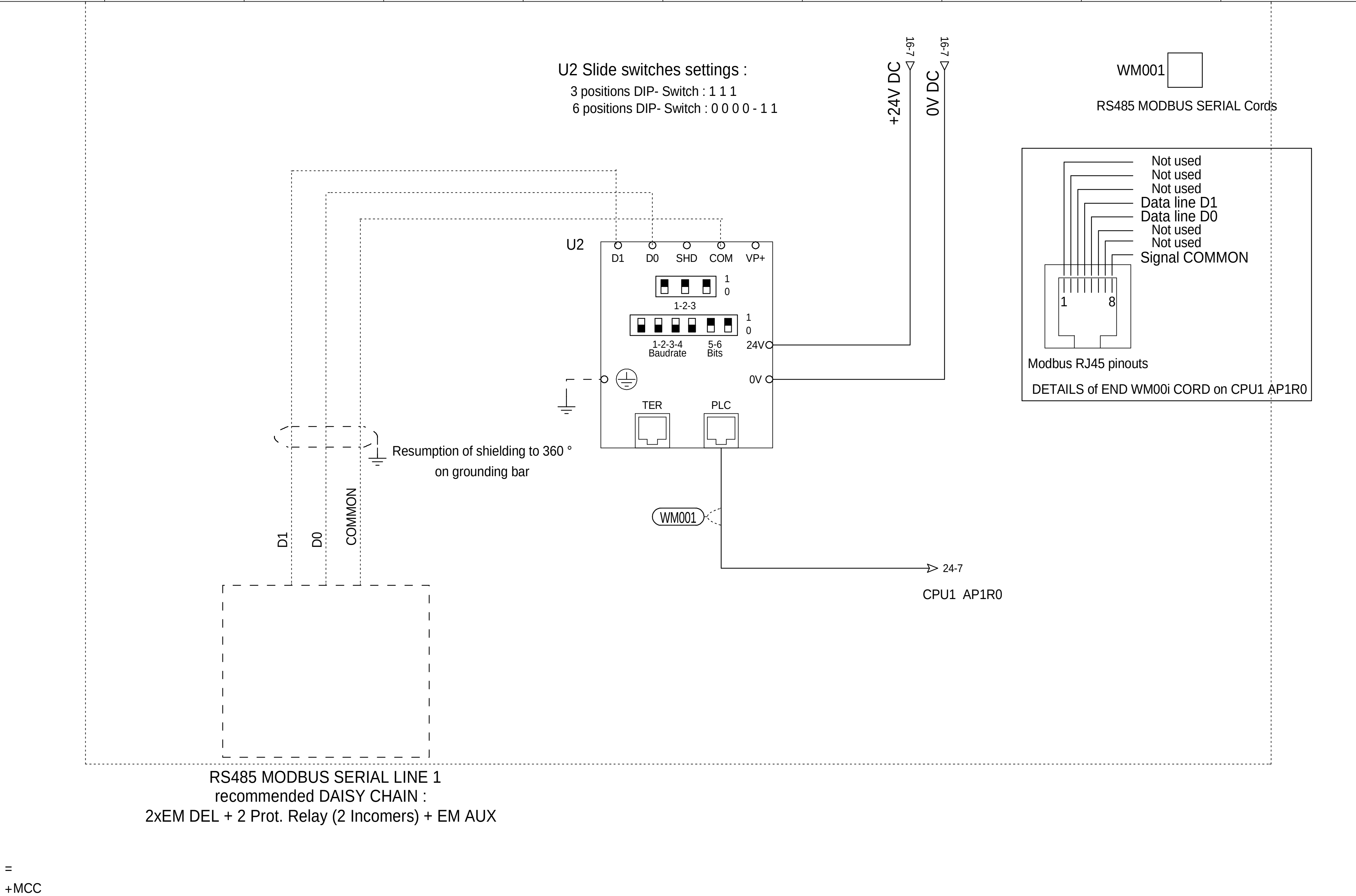
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 20

A3 suite - 01/2008


U2 Slide switches settings :
3 positions DIP- Switch : 1 1 1
6 positions DIP- Switch : 0 0 0 0 - 1 1
+24V DC
0V DC
16-7
16-7
WM001
RS485 MODBUS SERIAL Cords
Not used
Not used
Not used
Data line D1
Data line D0
Not used
Not used
Signal COMMON
1
8
Modbus RJ45 pinouts
DETAILS of END WM00i CORD on CPU1 AP1R0
U2
D1
D0
SHD
COM
VP+
1
0
1-2-3
1
0
1-2-3-4
Baudrate
5-6
Bits
24V
0V
TER
PLC
Resumption of shielding to 360 °
on grounding bar
WM001
D1
D0
COMMON
24-7
CPU1 AP1R0
RS485 MODBUS SERIAL LINE 1
recommended DAISY CHAIN :
2xEM DEL + 2 Prot. Relay (2 Incomers) + EM AUX
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+MCC

00	17/03/2014	Edition originale / First issue						
Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	

ADVANCED LINE 1 MODBUS CONNECTION TO AP1R0 M340 AUTOMAT - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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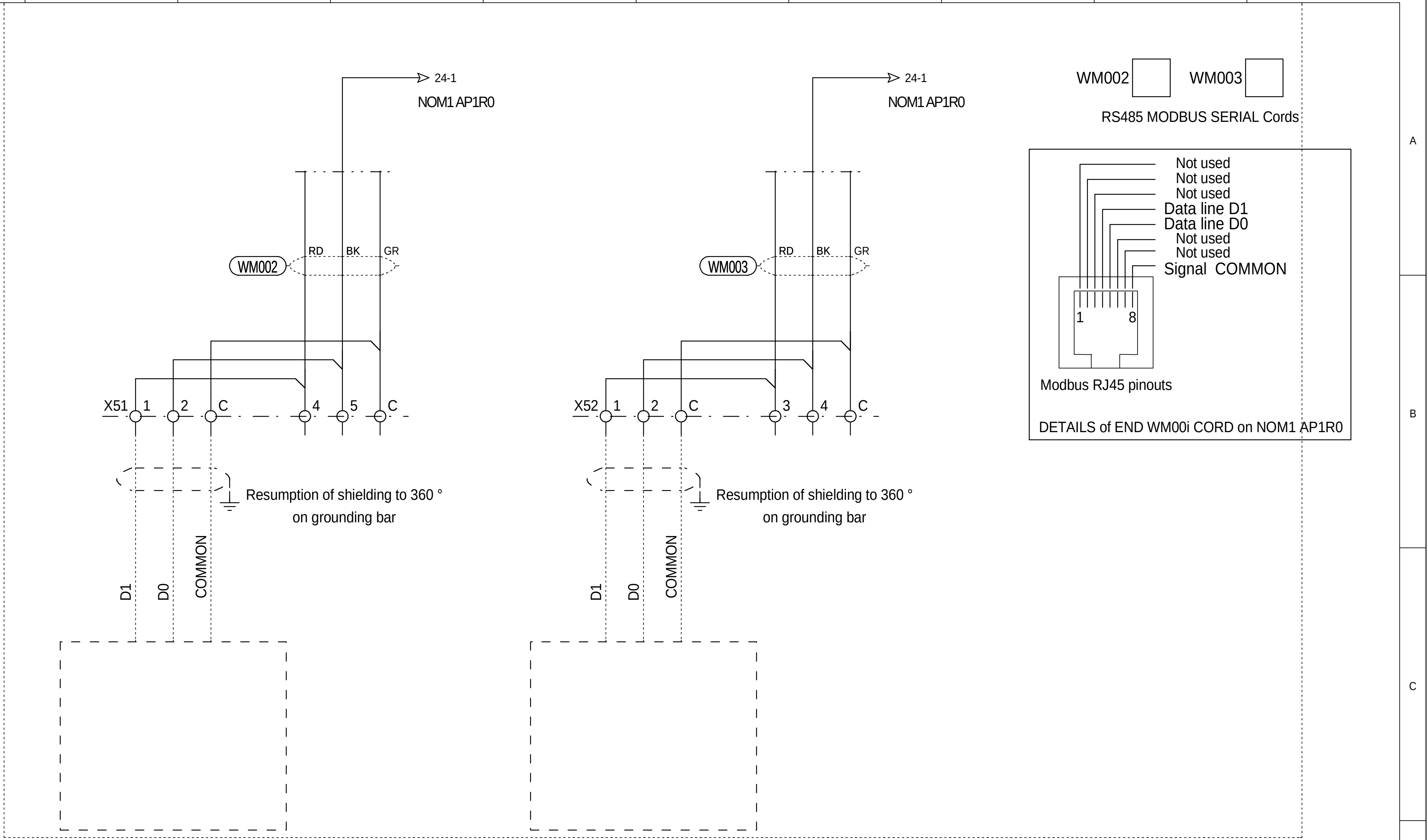
EAV5829303

Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	21

A3 suite - 01/2008



RS485 MODBUS SERIAL LINE 2
recommended DAISY CHAIN :
2xEM DEL + 2 Prot. Relay (2 Feeders)

RS485 MODBUS SERIAL LINE 3
recommended DAISY CHAIN :
2xEM DEL + 2 Prot. Relay (2 Feeders)

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+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED LINE 2 AND 3 MODBUS CONNECTION TO AP1R0 M340 AUTOMAT - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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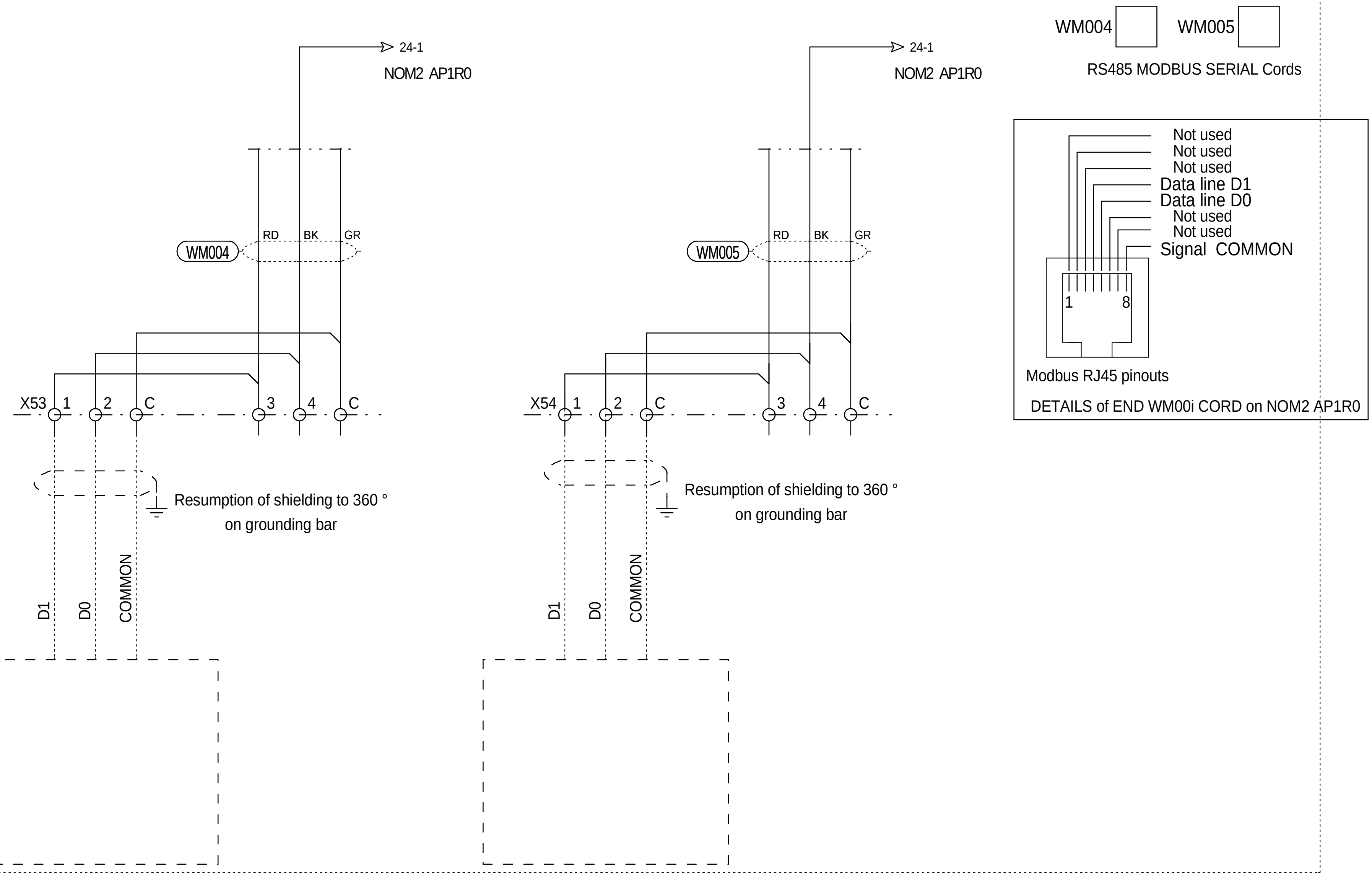
EAV5829303

Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	22



RS485 MODBUS SERIAL LINE 4
recommended DAISY CHAIN :
2xEM DEL + 2 Prot. Relay (2 Feeders)

RS485 MODBUS SERIAL LINE 5
recommended DAISY CHAIN :
2xEM DEL (MV Metering) + 1 Prot. Relay (Coupling)

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+MCC

Ind.	Date	Modification	Archiv. Micro-filmed	Ind.	Date	Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale					

ADVANCED LINE 4 AND 5 MODBUS CONNECTION TO AP1R0 M340 AUTOMAT - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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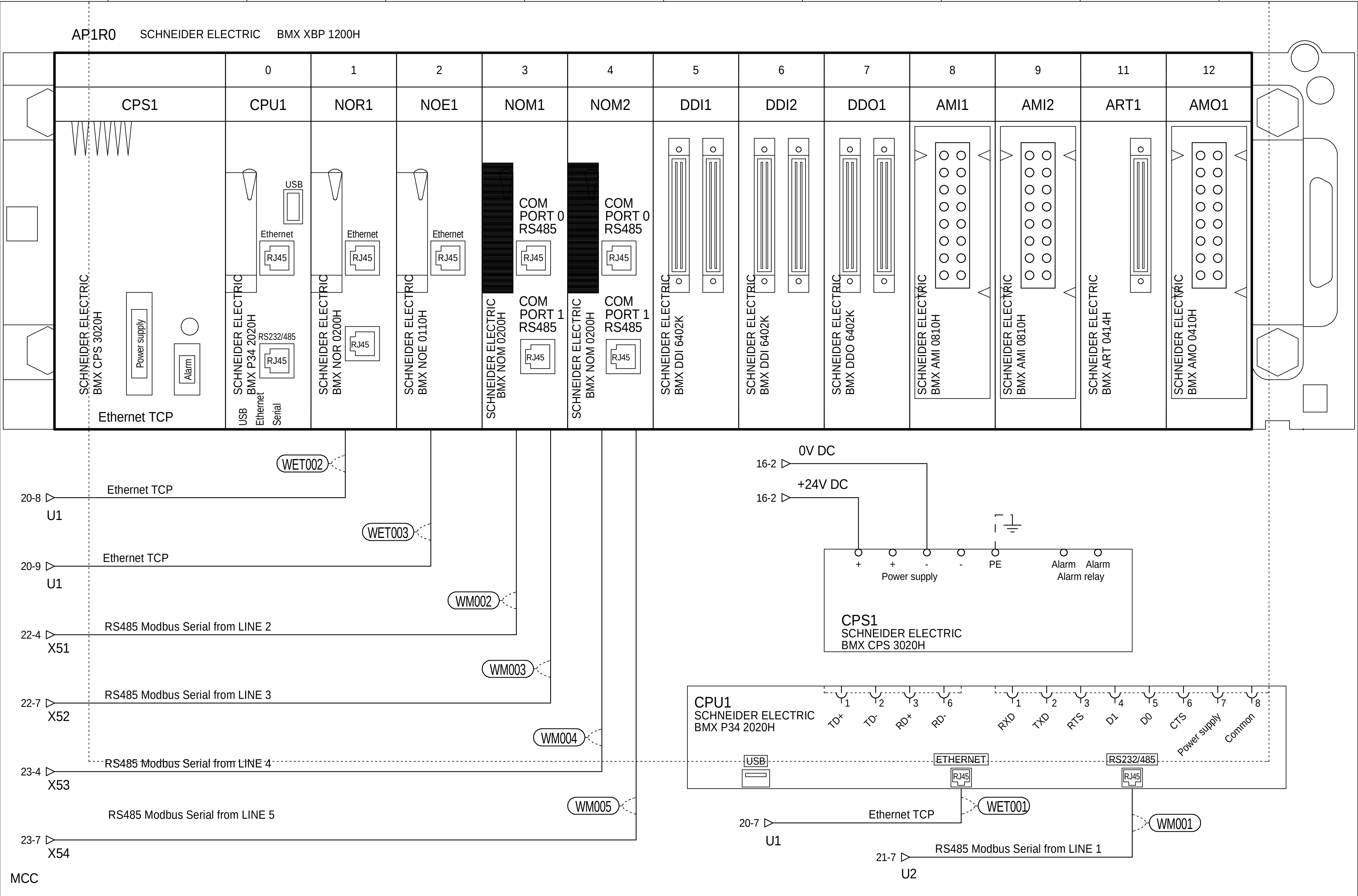
Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Project - Commande	Index	Sheet
	00	23



AP1R0 SCHNEIDER ELECTRIC BMX XBP 1200H
0 1 2 3 4 5 6 7 8 9 11 12
CPS1 CPU1 NOR1 NOE1 NOM1 NOM2 DDI1 DDI2 DDO1 AMI1 AMI2 ART1 AMO1
SCHNEIDER ELECTRIC BMX CPS 3020H
Power supply
Alarm
Ethernet TCP
USB
Ethernet
RJ45
RS232/485
SCHNEIDER ELECTRIC BMX P34 2020H
USB Ethernet Serial
SCHNEIDER ELECTRIC BMX NOR 0200H
SCHNEIDER ELECTRIC BMX NOE 0110H
COM PORT 0 RS485
COM PORT 1 RS485
SCHNEIDER ELECTRIC BMX NOM 0200H
SCHNEIDER ELECTRIC BMX DDI 6402K
SCHNEIDER ELECTRIC BMX DDO 6402K
SCHNEIDER ELECTRIC BMX AMI 0810H
SCHNEIDER ELECTRIC BMX ART 0414H
SCHNEIDER ELECTRIC BMX AMO 0410H
WET002
20-8 Ethernet TCP U1
WET003
20-9 Ethernet TCP U1
WM002
22-4 RS485 Modbus Serial from LINE 2 X51
WM003
22-7 RS485 Modbus Serial from LINE 3 X52
WM004
23-4 RS485 Modbus Serial from LINE 4 X53
WM005
23-7 RS485 Modbus Serial from LINE 5 X54
MCC
16-2 0V DC
16-2 +24V DC
+ + - - PE Alarm Alarm
Power supply
Alarm relay
CPS1 SCHNEIDER ELECTRIC BMX CPS 3020H
CPU1 SCHNEIDER ELECTRIC BMX P34 2020H
1 2 3 6 1 2 3 4 5 6 7 8
TD+ TD- RD+ RD- RXD TXD RTS D1 D0 CTS Power supply Common
USB ETHERNET RS232/485
RJ45
WET001
20-7 Ethernet TCP U1
WM001
21-7 RS485 Modbus Serial from LINE 1 U2

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED AP1R0 M340 AUTOMAT - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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Printed on 2014/03/19

EAV5829303

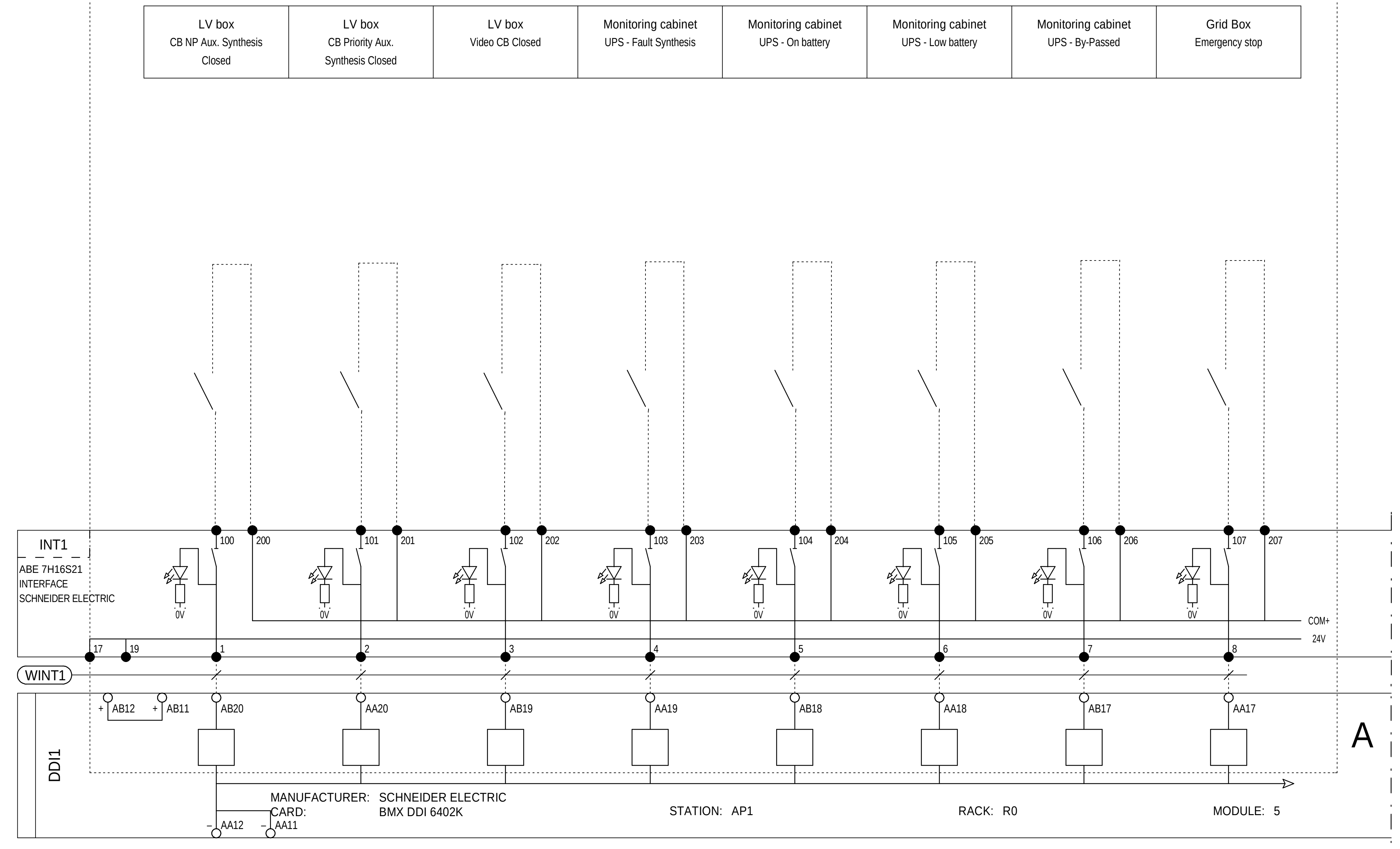
Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 24

A3 suite - 11/2006

1	2	3	4	5	6	7	8	9	10



LV box
CB NP Aux. Synthesis Closed
LV box
CB Priority Aux. Synthesis Closed
LV box
Video CB Closed
Monitoring cabinet
UPS - Fault Synthesis
Monitoring cabinet
UPS - On battery
Monitoring cabinet
UPS - Low battery
Monitoring cabinet
UPS - By-Passed
Grid Box
Emergency stop
INT1
ABE 7H16S21
INTERFACE
SCHNEIDER ELECTRIC
100
200
101
201
102
202
103
203
104
204
105
205
106
206
107
207
0V
COM+
24V
17
19
1
2
3
4
5
6
7
8
WINT1
AB12
AB11
AB20
AB20
AB19
AA19
AB18
AA18
AB17
AA17
A
DDI1
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 5
AA12
AA11

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+MCC

00	17/03/2014	Edition originale / First issue					
Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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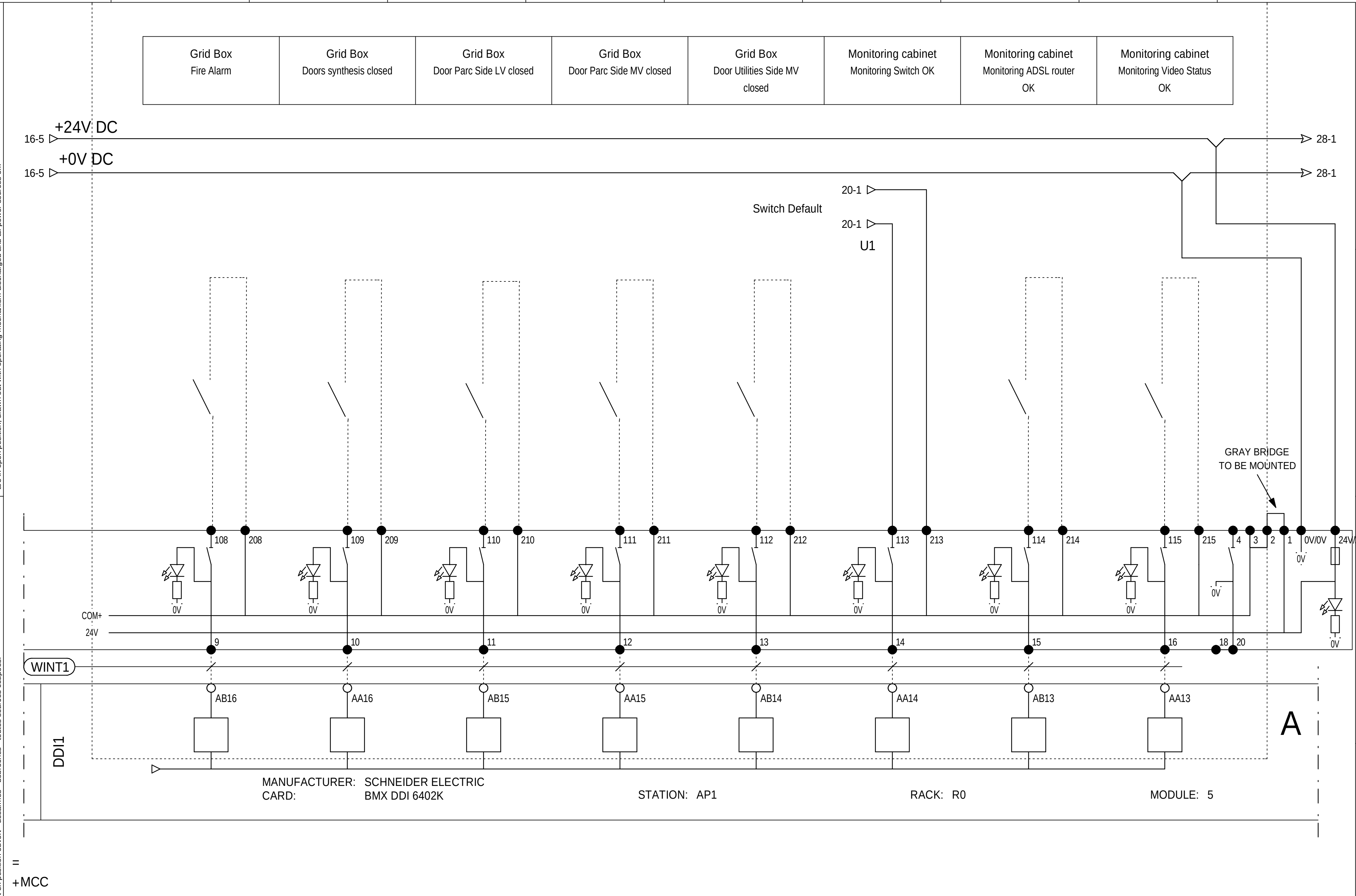
EAV5829303

Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	25

A3 suite - 01/2008



Grid Box
Fire Alarm
Grid Box
Doors synthesis closed
Grid Box
Door Parc Side LV closed
Grid Box
Door Parc Side MV closed
Grid Box
Door Utilities Side MV closed
Monitoring cabinet
Monitoring Switch OK
Monitoring cabinet
Monitoring ADSL router OK
Monitoring cabinet
Monitoring Video Status OK
+24V DC
16-5
28-1
+0V DC
16-5
28-1
20-1
Switch Default
20-1
U1
GRAY BRIDGE
TO BE MOUNTED
108 208 109 209 110 210 111 211 112 212 113 213 114 214 115 215 4 3 2 1 0V/0V 24V/24V
COM+
24V
9 10 11 12 13 14 15 16 18 20
WINT1
AB16 AA16 AB15 AA15 AB14 AA14 AB13 AA13
A
DDI1
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 5
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+MCC

Ind. Rev	Date	Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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Released for Manufacturing
Printed on 2014/03/19

EAV5829303

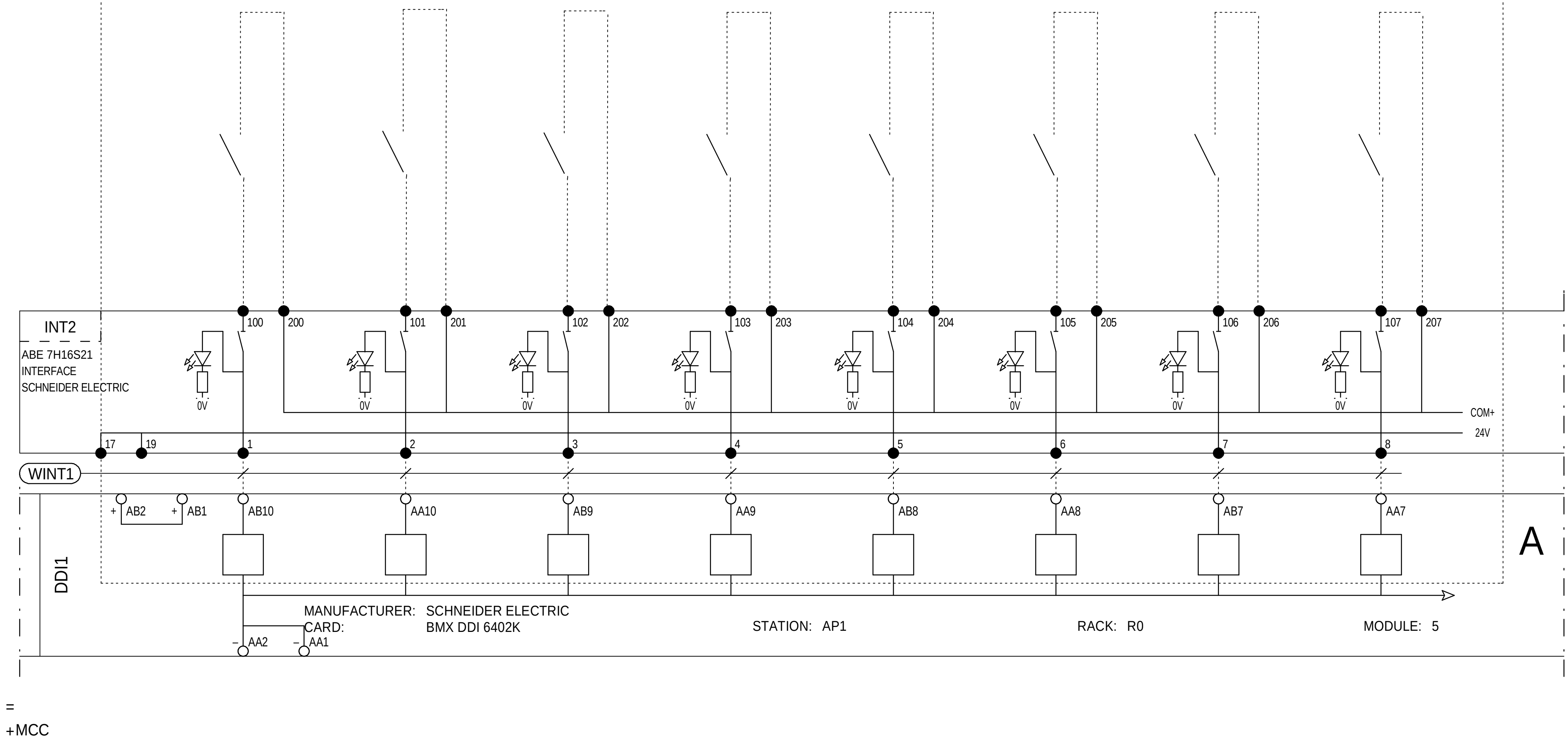
Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 26

A3 suite - 01/2008

Grid Box	Grid Box	Incomer	Incomer	Incomer	Incomer	Feeder Aux	Feeder Aux
MV cell - Synthesis NP Aux. Synthesis Closed	MV cell - Synthesis Priority Aux. Synthesis Closed	Local or Remote Mode (1 = Local)	CB or Switch Close	Line Disconnector Close	protection relay Watch Dog OK	Local or Remote Mode (1 = Local)	CB or Switch Close



Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

Schneider Electric

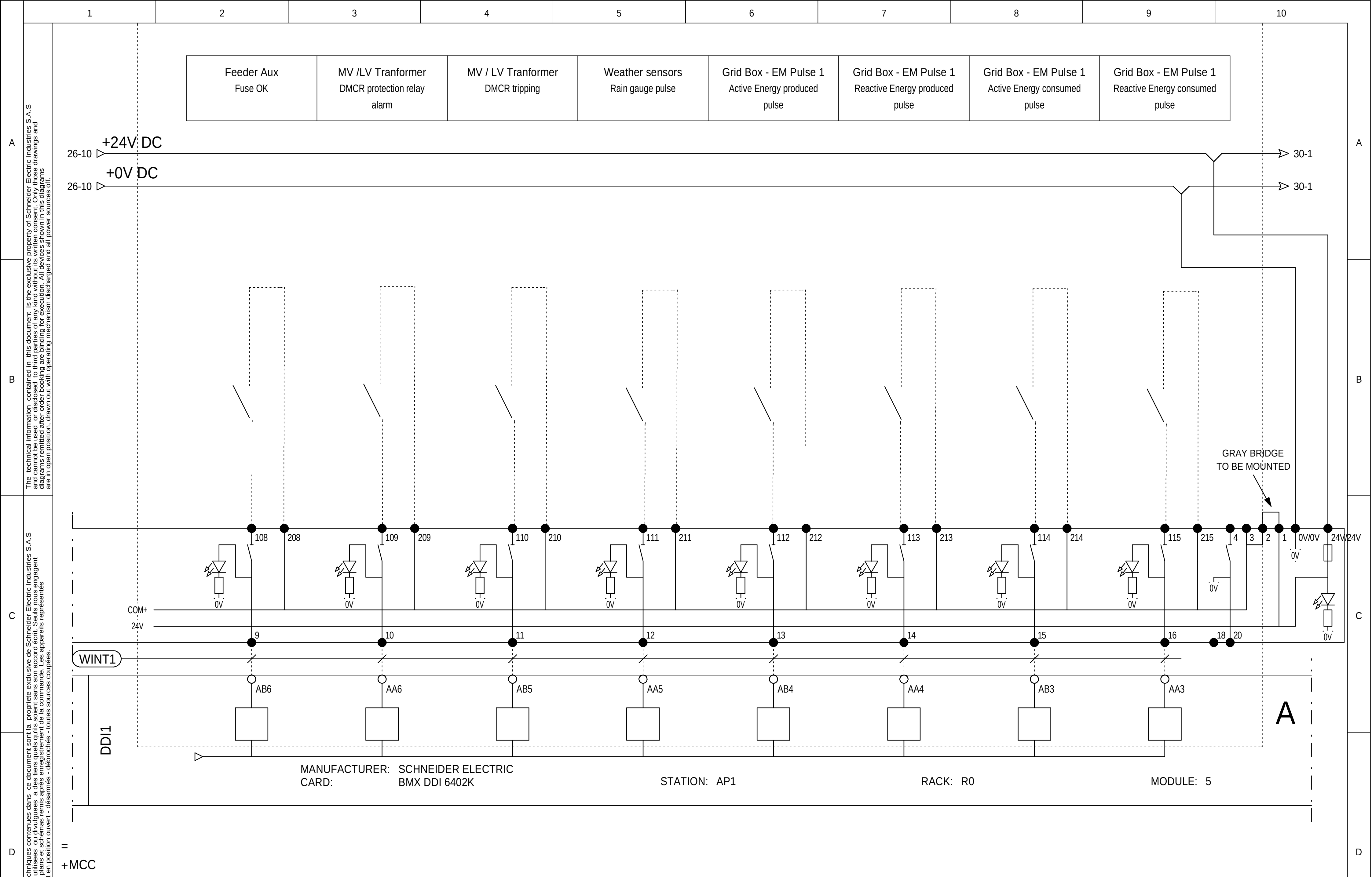
Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 27


1 2 3 4 5 6 7 8 9 10
A B C D
Feeder Aux
Fuse OK
MV /LV Tranformer
DMCR protection relay alarm
MV / LV Tranformer
DMCR tripping
Weather sensors
Rain gauge pulse
Grid Box - EM Pulse 1
Active Energy produced pulse
Grid Box - EM Pulse 1
Reactive Energy produced pulse
Grid Box - EM Pulse 1
Active Energy consumed pulse
Grid Box - EM Pulse 1
Reactive Energy consumed pulse
+24V DC
26-10
30-1
+0V DC
26-10
30-1
GRAY BRIDGE
TO BE MOUNTED
108 208 109 209 110 210 111 211 112 212 113 213 114 214 115 215 4 3 2 1 0V/0V 24V/24V
0V
COM+
24V
9 10 11 12 13 14 15 16 18 20
WINT1
AB6 AB6 AB5 AA5 AB4 AA4 AB3 AA3
A
DDI1
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 5
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+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Released for Manufacturing
Printed on 2014/03/19

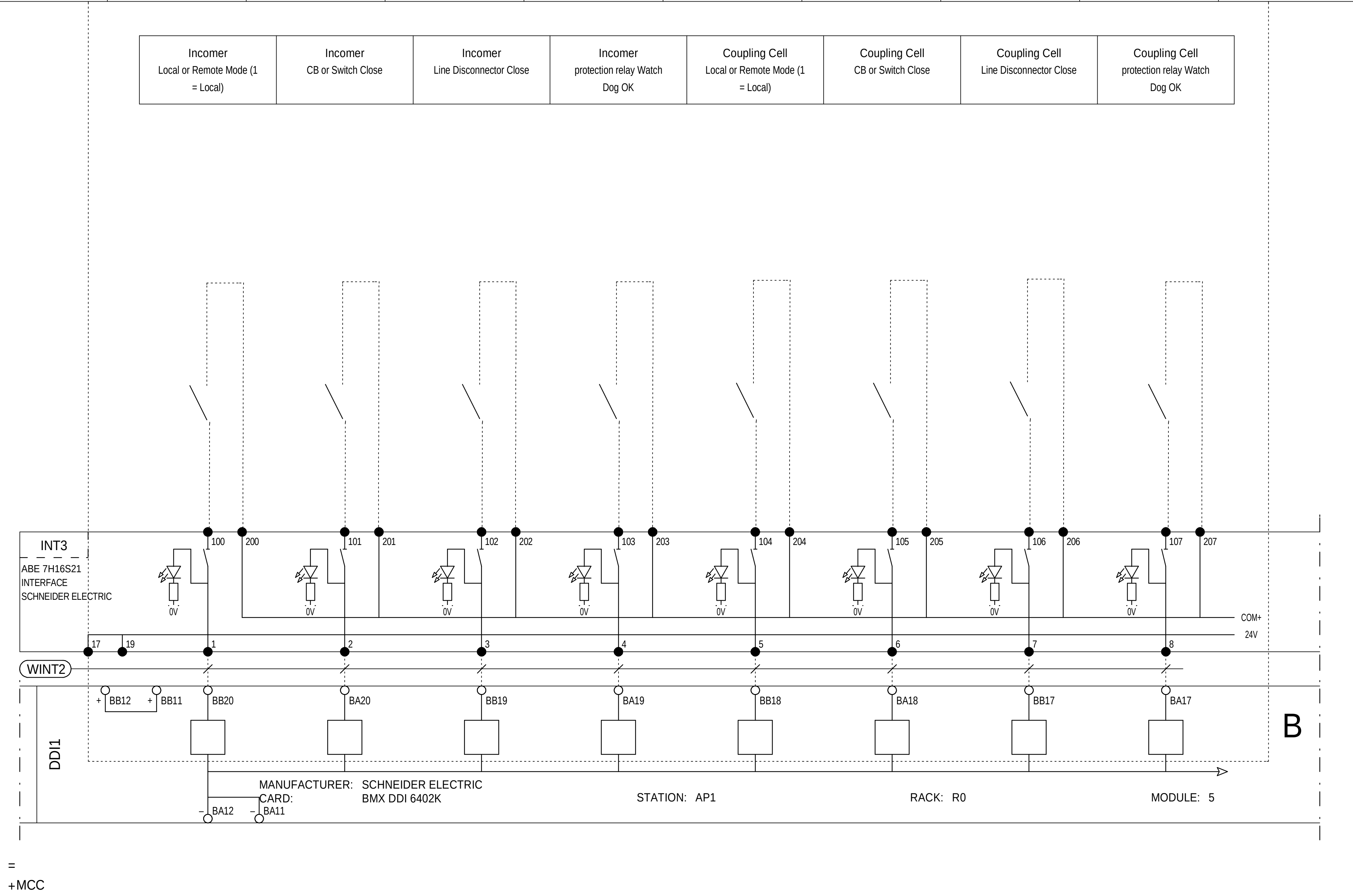
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 28

A3 suite - 01/2008



Incomer
Local or Remote Mode (1 = Local)
Incomer
CB or Switch Close
Incomer
Line Disconnector Close
Incomer
protection relay Watch Dog OK
Coupling Cell
Local or Remote Mode (1 = Local)
Coupling Cell
CB or Switch Close
Coupling Cell
Line Disconnector Close
Coupling Cell
protection relay Watch Dog OK
INT3
ABE 7H16S21
INTERFACE
SCHNEIDER ELECTRIC
100 200 101 201 102 202 103 203 104 204 105 205 106 206 107 207
0V
COM+
24V
17 19 1 2 3 4 5 6 7 8
WINT2
BB12 BB11 BB20 BA20 BB19 BA19 BB18 BA18 BB17 BA17
B
DDI1
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 5
BA12 BA11
=
+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

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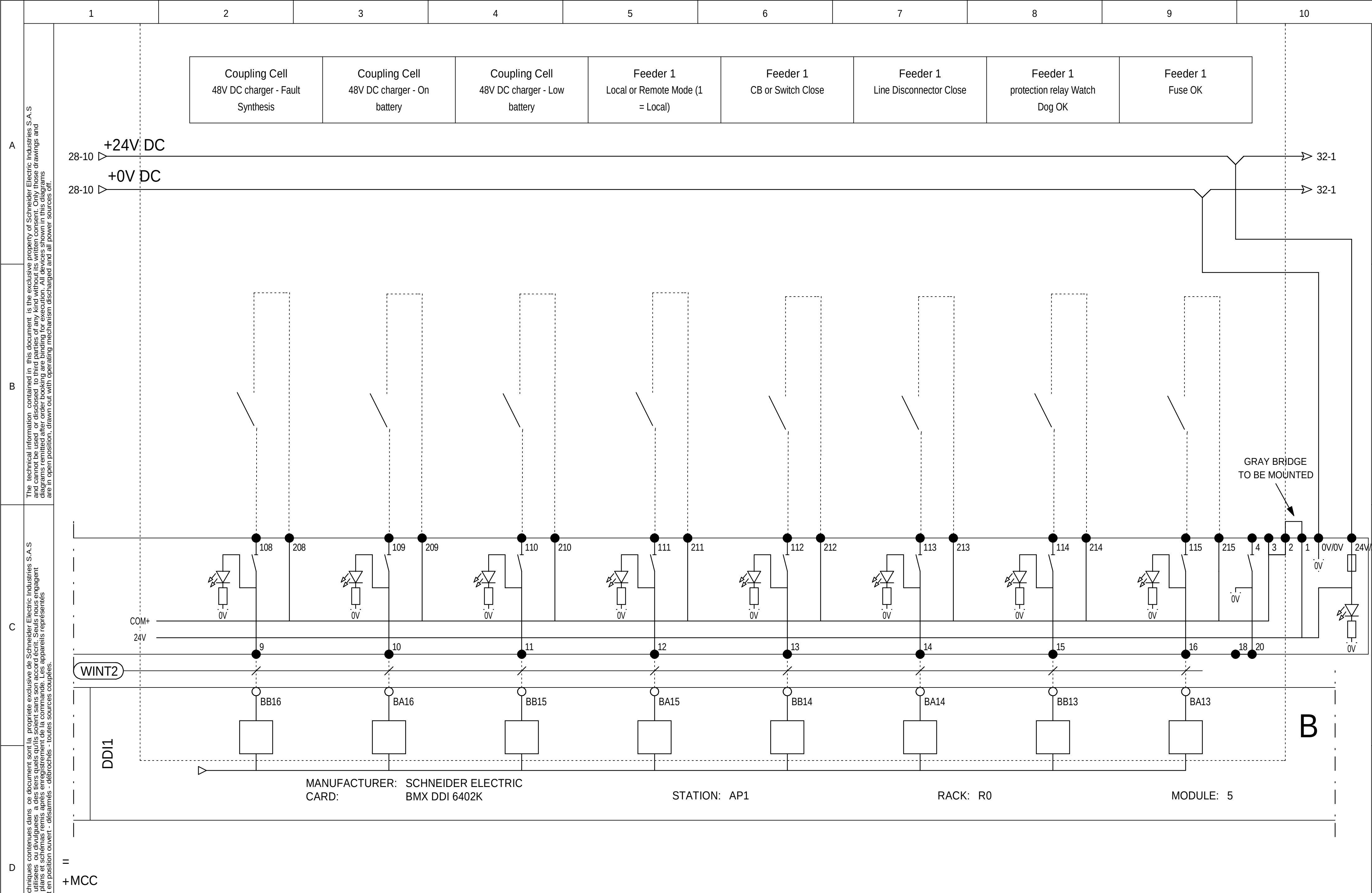
EAV5829303

Projet - No commande / Project - Order No.

Indice Rev: 00

Folio Sheet: 29

A3 suite - 01/2008


1 2 3 4 5 6 7 8 9 10
A B C D
Coupling Cell
48V DC charger - Fault Synthesis
Coupling Cell
48V DC charger - On battery
Coupling Cell
48V DC charger - Low battery
Feeder 1
Local or Remote Mode (1 = Local)
Feeder 1
CB or Switch Close
Feeder 1
Line Disconnector Close
Feeder 1
protection relay Watch Dog OK
Feeder 1
Fuse OK
+24V DC
28-10
32-1
+0V DC
28-10
32-1
GRAY BRIDGE
TO BE MOUNTED
108 208 109 209 110 210 111 211 112 212 113 213 114 214 115 215 4 3 2 1 0V/0V 24V/24V
0V
COM+
24V
9 10 11 12 13 14 15 16 18 20
WINT2
BB16 BA16 BB15 BA15 BB14 BA14 BB13 BA13
B
DDI1
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 5
=
+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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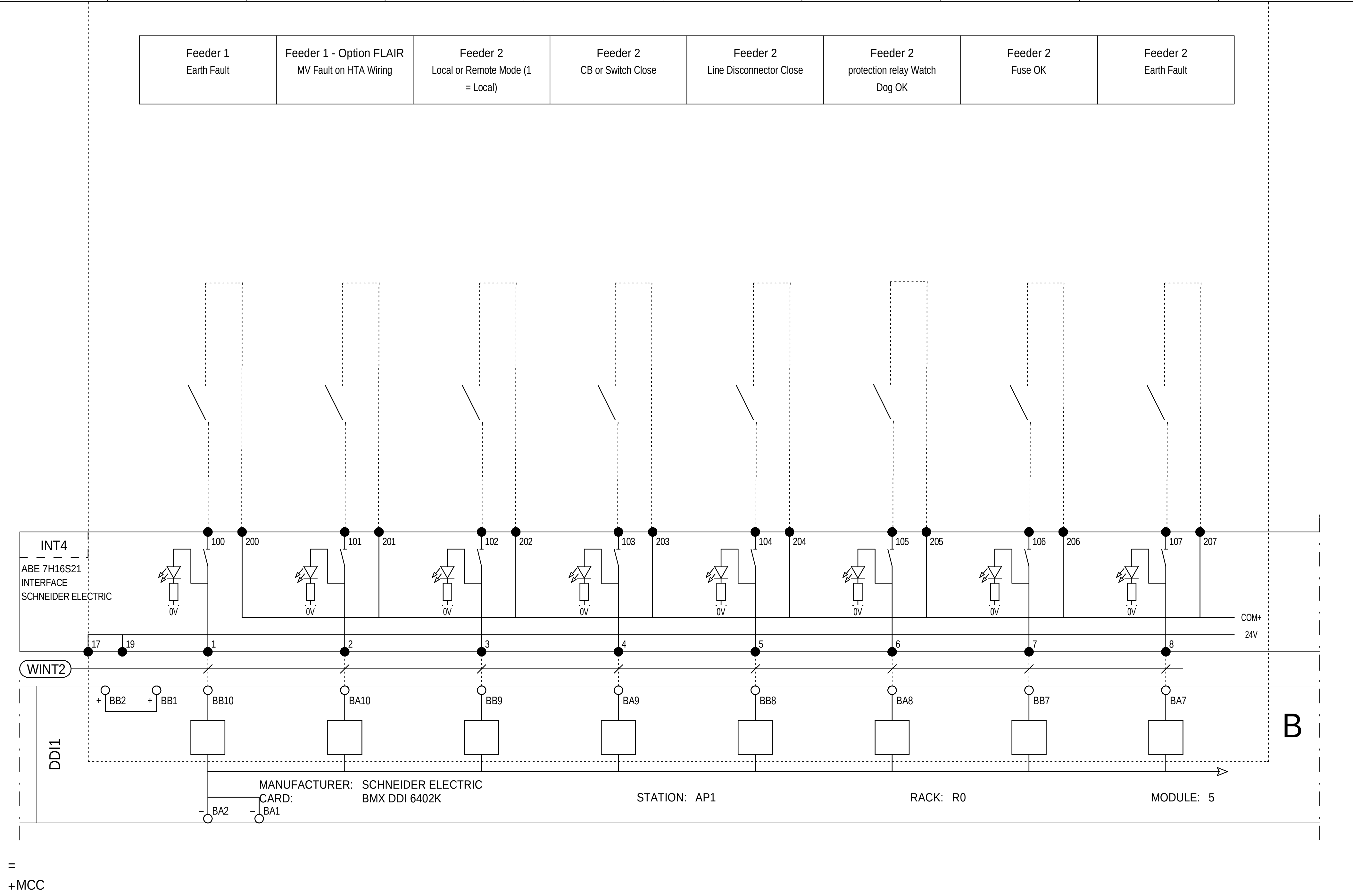
EAV5829303

Projet - No commande / Project - Order No.

Indice Rev: 00

Folio Sheet: 30



Feeder 1
Earth Fault
Feeder 1 - Option FLAIR
MV Fault on HTA Wiring
Feeder 2
Local or Remote Mode (1 = Local)
Feeder 2
CB or Switch Close
Feeder 2
Line Disconnector Close
Feeder 2
protection relay Watch Dog OK
Feeder 2
Fuse OK
Feeder 2
Earth Fault
INT4
ABE 7H16S21
INTERFACE
SCHNEIDER ELECTRIC
100 200 101 201 102 202 103 203 104 204 105 205 106 206 107 207
0V
COM+
24V
17 19 1 2 3 4 5 6 7 8
WINT2
+ BB2
+ BB1
BB10 BA10 BB9 BA9 BB8 BA8 BB7 BA7
DDI1
B
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 5
– BA2
– BA1

=
+MCC

Ind. / Rev	Date / Date	Modification / Modification	Archiv. / Micro-filmed	Ind. / Rev	Date / Date	Modification / Modification	Archiv. / Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Released for Manufacturing
Printed on 2014/03/19

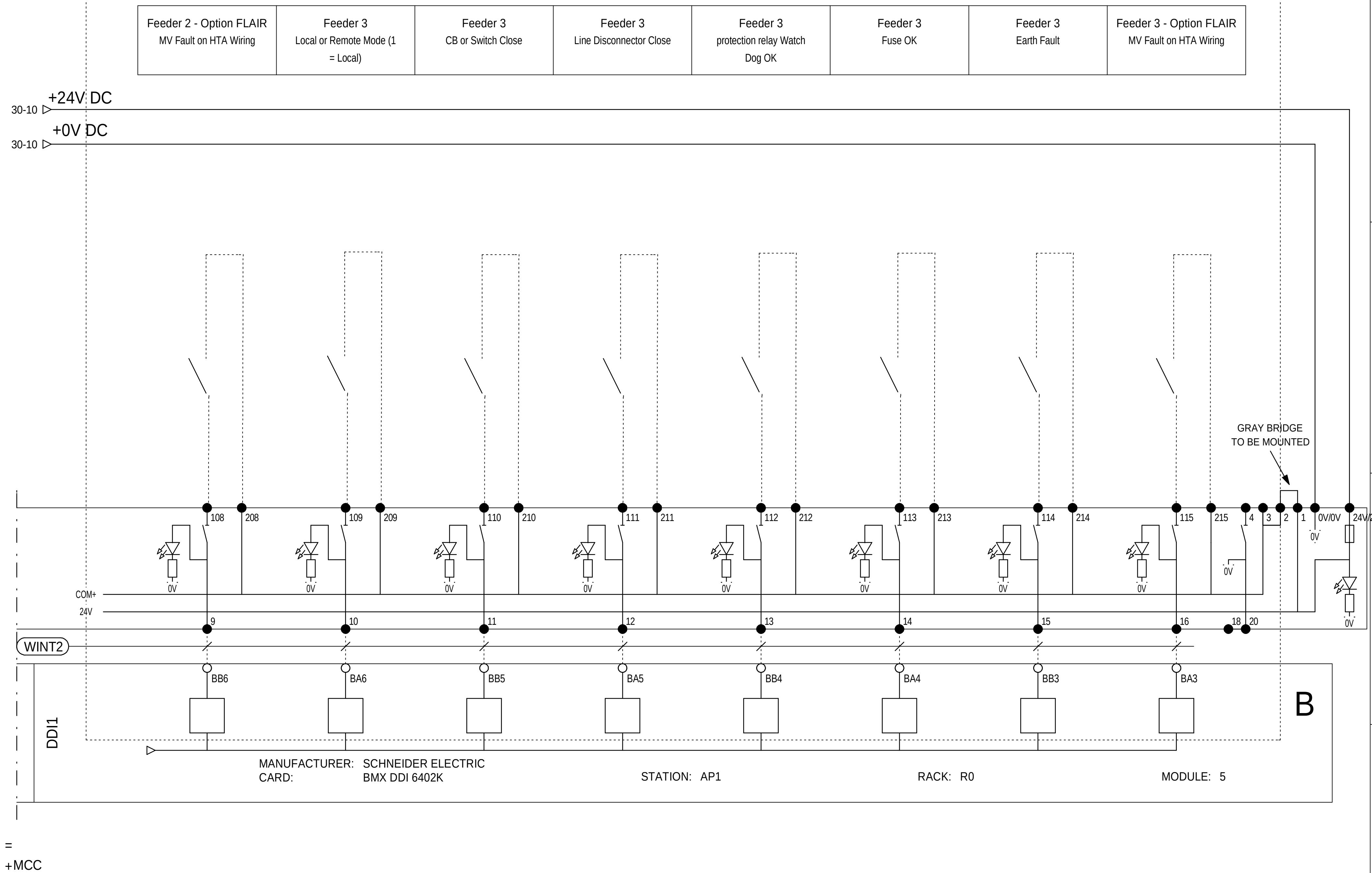
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 31

A3 suite - 01/2008


Feeder 2 - Option FLAIR
MV Fault on HTA Wiring
Feeder 3
Local or Remote Mode (1 = Local)
Feeder 3
CB or Switch Close
Feeder 3
Line Disconnector Close
Feeder 3
protection relay Watch Dog OK
Feeder 3
Fuse OK
Feeder 3
Earth Fault
Feeder 3 - Option FLAIR
MV Fault on HTA Wiring
+24V DC
30-10
+0V DC
30-10
GRAY BRIDGE TO BE MOUNTED
108 208 109 209 110 210 111 211 112 212 113 213 114 214 115 215 4 3 2 1 0V/0V 24V/24V
0V
COM+
24V
9 10 11 12 13 14 15 16 18 20
WINT2
BB6 BA6 BB5 BA5 BB4 BA4 BB3 BA3
B
DDI1
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 5
=
+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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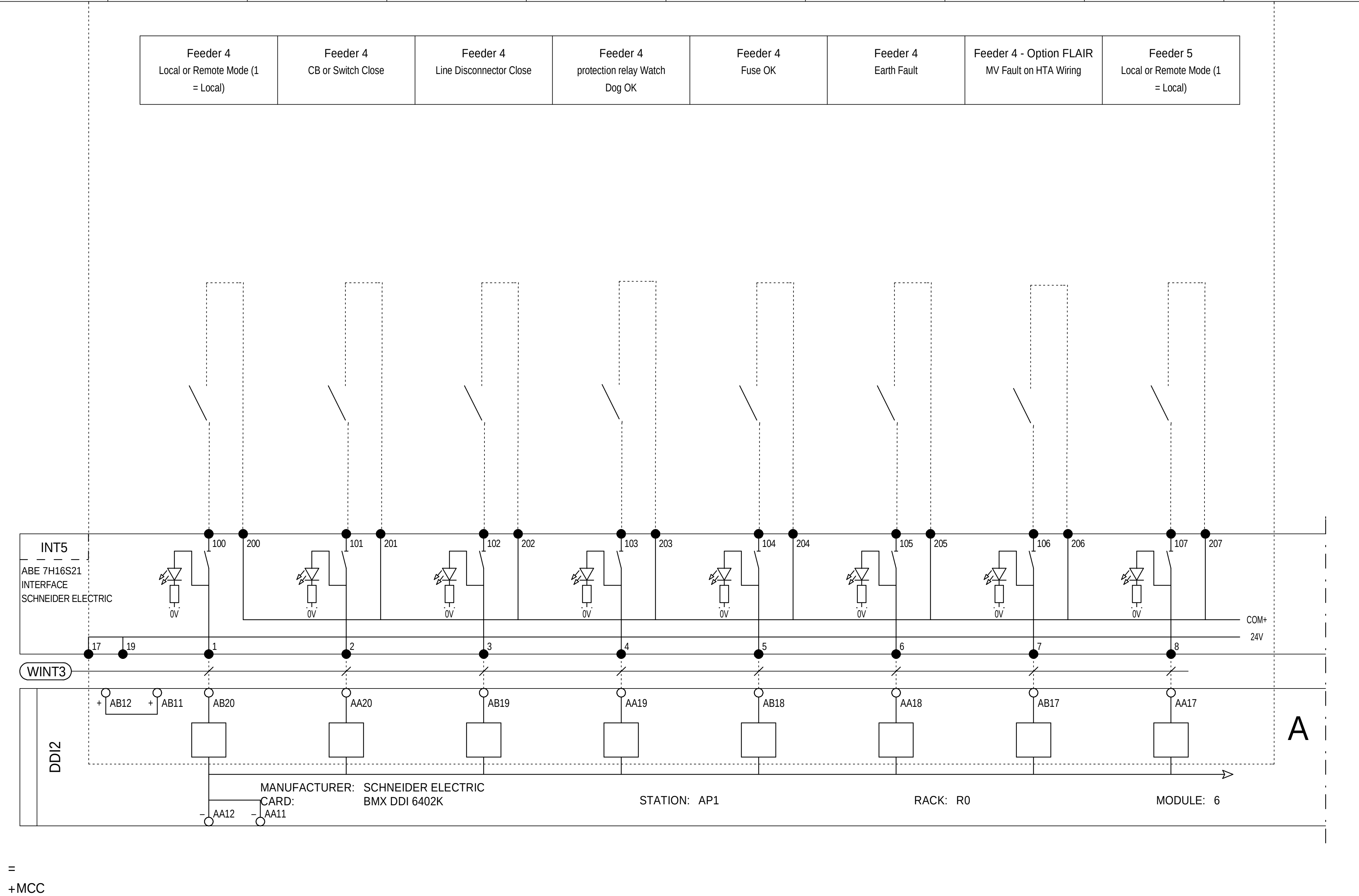
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 32



Feeder 4 Local or Remote Mode (1 = Local)
Feeder 4 CB or Switch Close
Feeder 4 Line Disconnector Close
Feeder 4 protection relay Watch Dog OK
Feeder 4 Fuse OK
Feeder 4 Earth Fault
Feeder 4 - Option FLAIR MV Fault on HTA Wiring
Feeder 5 Local or Remote Mode (1 = Local)
INT5
ABE 7H16S21
INTERFACE
SCHNEIDER ELECTRIC
100 200 101 201 102 202 103 203 104 204 105 205 106 206 107 207
0V
COM+
24V
17 19 1 2 3 4 5 6 7 8
WINT3
AB12 AB11 AB20 AA20 AB19 AA19 AB18 AA18 AB17 AA17
DDI2
A
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 6
AA12 AA11

=
+MCC

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00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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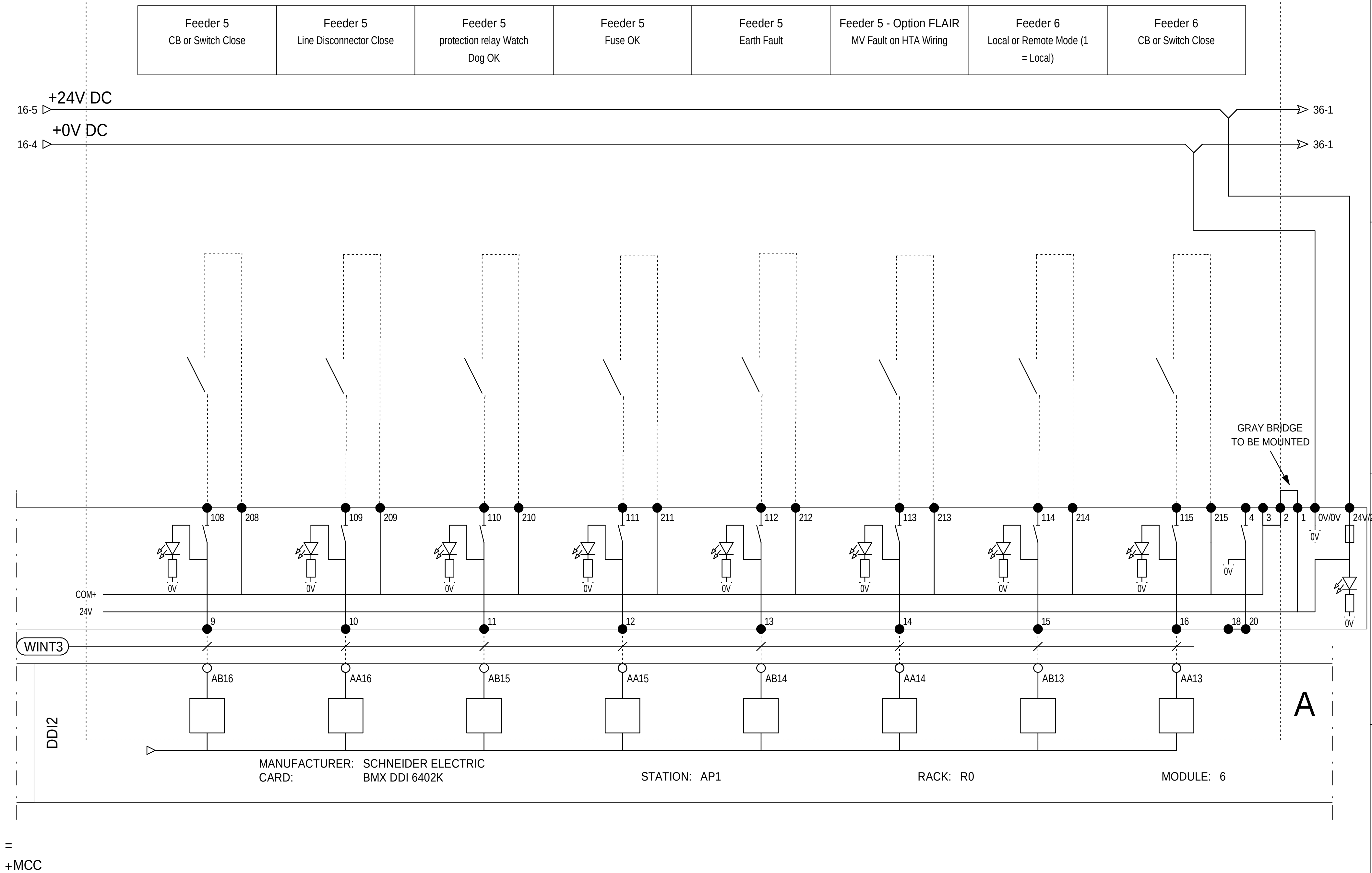
EAV5829303

Projet - No commande / Project - Order No.

Indice Rev: 00

Folio Sheet: 33

A3 suite - 01/2008



Feeder 5
CB or Switch Close
Feeder 5
Line Disconnector Close
Feeder 5
protection relay Watch Dog OK
Feeder 5
Fuse OK
Feeder 5
Earth Fault
Feeder 5 - Option FLAIR
MV Fault on HTA Wiring
Feeder 6
Local or Remote Mode (1 = Local)
Feeder 6
CB or Switch Close
+24V DC
16-5
36-1
+0V DC
16-4
36-1
GRAY BRIDGE
TO BE MOUNTED
108 208 109 209 110 210 111 211 112 212 113 213 114 214 115 215 4 3 2 1 0V/0V 24V/24V
COM+
24V
0V
9 10 11 12 13 14 15 16 18 20
WINT3
AB16 AA16 AB15 AA15 AB14 AA14 AB13 AA13
A
DDI2
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 6
=
+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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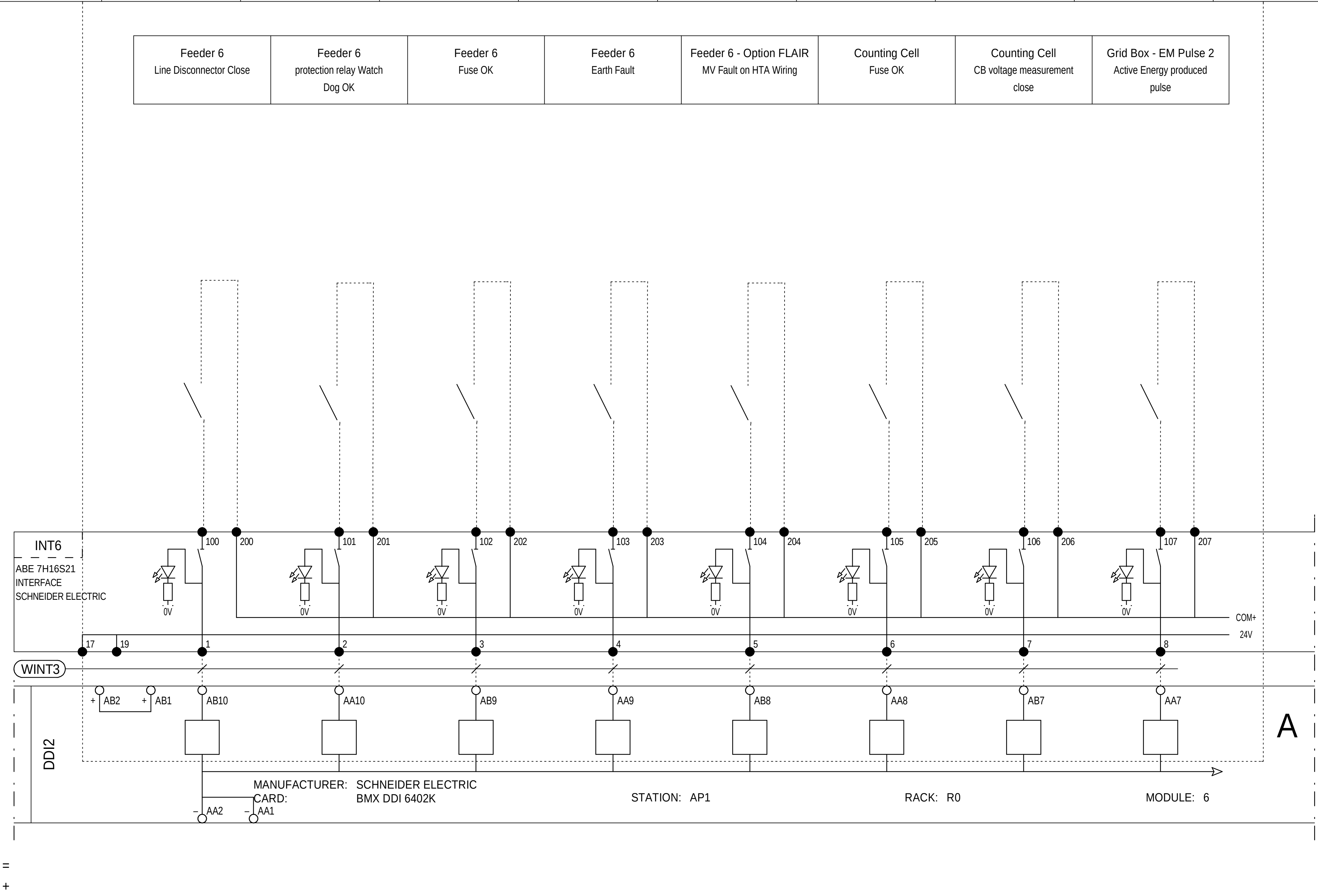
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.

Indice Rev: 00

Folio Sheet: 34


Feeder 6
Line Disconnector Close
Feeder 6
protection relay Watch Dog OK
Feeder 6
Fuse OK
Feeder 6
Earth Fault
Feeder 6 - Option FLAIR
MV Fault on HTA Wiring
Counting Cell
Fuse OK
Counting Cell
CB voltage measurement close
Grid Box - EM Pulse 2
Active Energy produced pulse
INT6
ABE 7H16S21
INTERFACE
SCHNEIDER ELECTRIC
100
200
101
201
102
202
103
203
104
204
105
205
106
206
107
207
0V
COM+
24V
17
19
1
2
3
4
5
6
7
8
WINT3
AB2
AB1
AB10
AA10
AB9
AA9
AB8
AA8
AB7
AA7
A
DDI2
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 6
AA2
AA1
=
+

00	17/03/2014	Edition originale / First issue					
Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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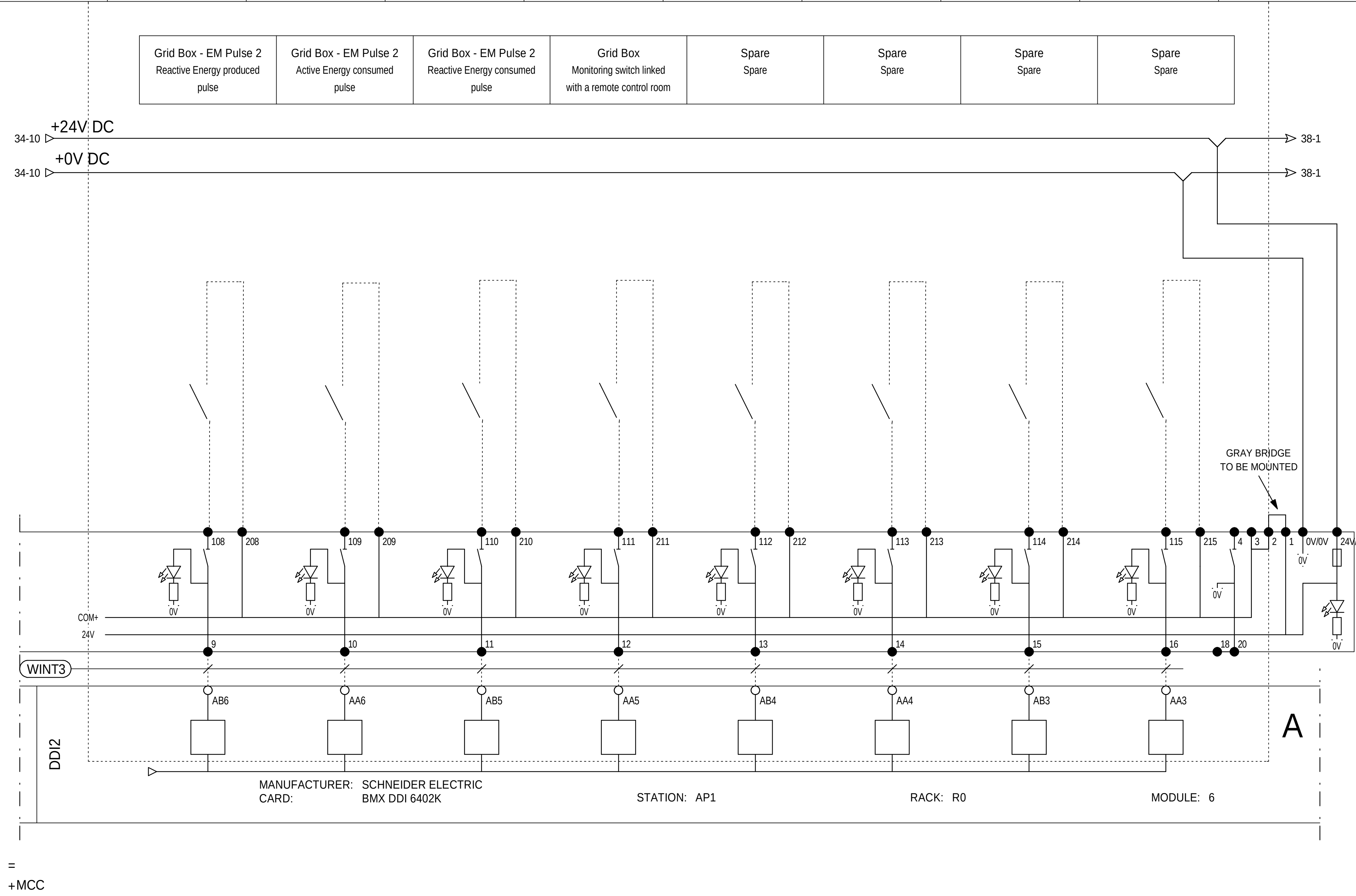
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	35



Grid Box - EM Pulse 2
Reactive Energy produced pulse
Grid Box - EM Pulse 2
Active Energy consumed pulse
Grid Box - EM Pulse 2
Reactive Energy consumed pulse
Grid Box
Monitoring switch linked with a remote control room
Spare
Spare
Spare
Spare
Spare
Spare
Spare
Spare
+24V DC
34-10
38-1
+0V DC
34-10
38-1
GRAY BRIDGE TO BE MOUNTED
108
208
109
209
110
210
111
211
112
212
113
213
114
214
115
215
4
3
2
1
0V/0V
24V/24V
0V
COM+
24V
9
10
11
12
13
14
15
16
18
20
WINT3
AB6
AA6
AB5
AA5
AB4
AA4
AB3
AA3
A
DDI2
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 6
=
+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Released for Manufacturing
Printed on 2014/03/19

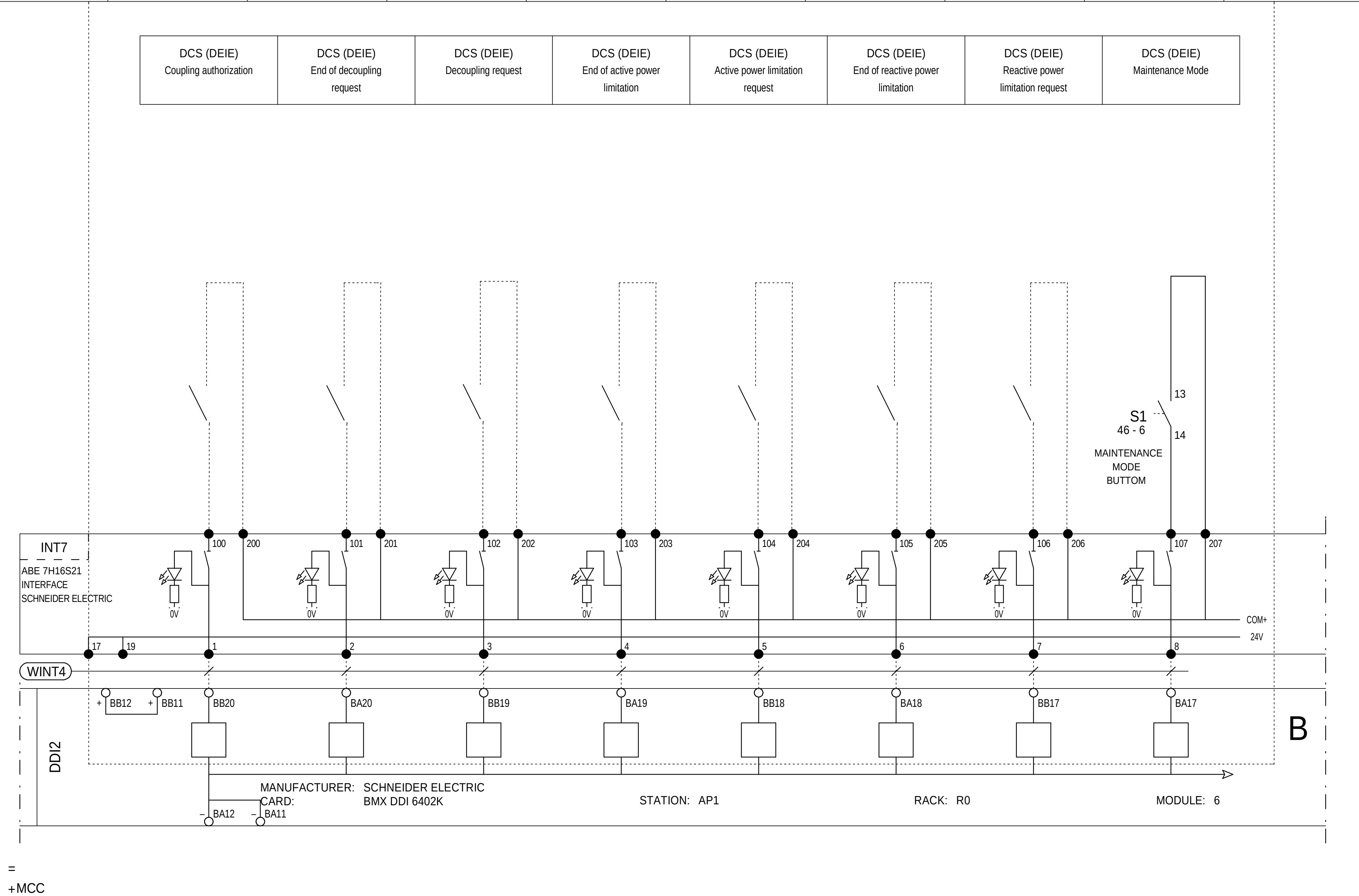
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 36

A3 suite - 01/2008



DCS (DEIE) Coupling authorization
DCS (DEIE) End of decoupling request
DCS (DEIE) Decoupling request
DCS (DEIE) End of active power limitation
DCS (DEIE) Active power limitation request
DCS (DEIE) End of reactive power limitation
DCS (DEIE) Reactive power limitation request
DCS (DEIE) Maintenance Mode
13
S1
46 - 6
14
MAINTENANCE MODE BUTTOM
INT7
ABE 7H16S21
INTERFACE
SCHNEIDER ELECTRIC
100 200 101 201 102 202 103 203 104 204 105 205 106 206 107 207
0V
COM+
24V
17 19 1 2 3 4 5 6 7 8
WINT4
BB12 BB11 BB20 BA20 BB19 BA19 BB18 BA18 BB17 BA17
B
DDI2
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 6
BA12 BA11

=
+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Released for Manufacturing
Printed on 2014/03/19

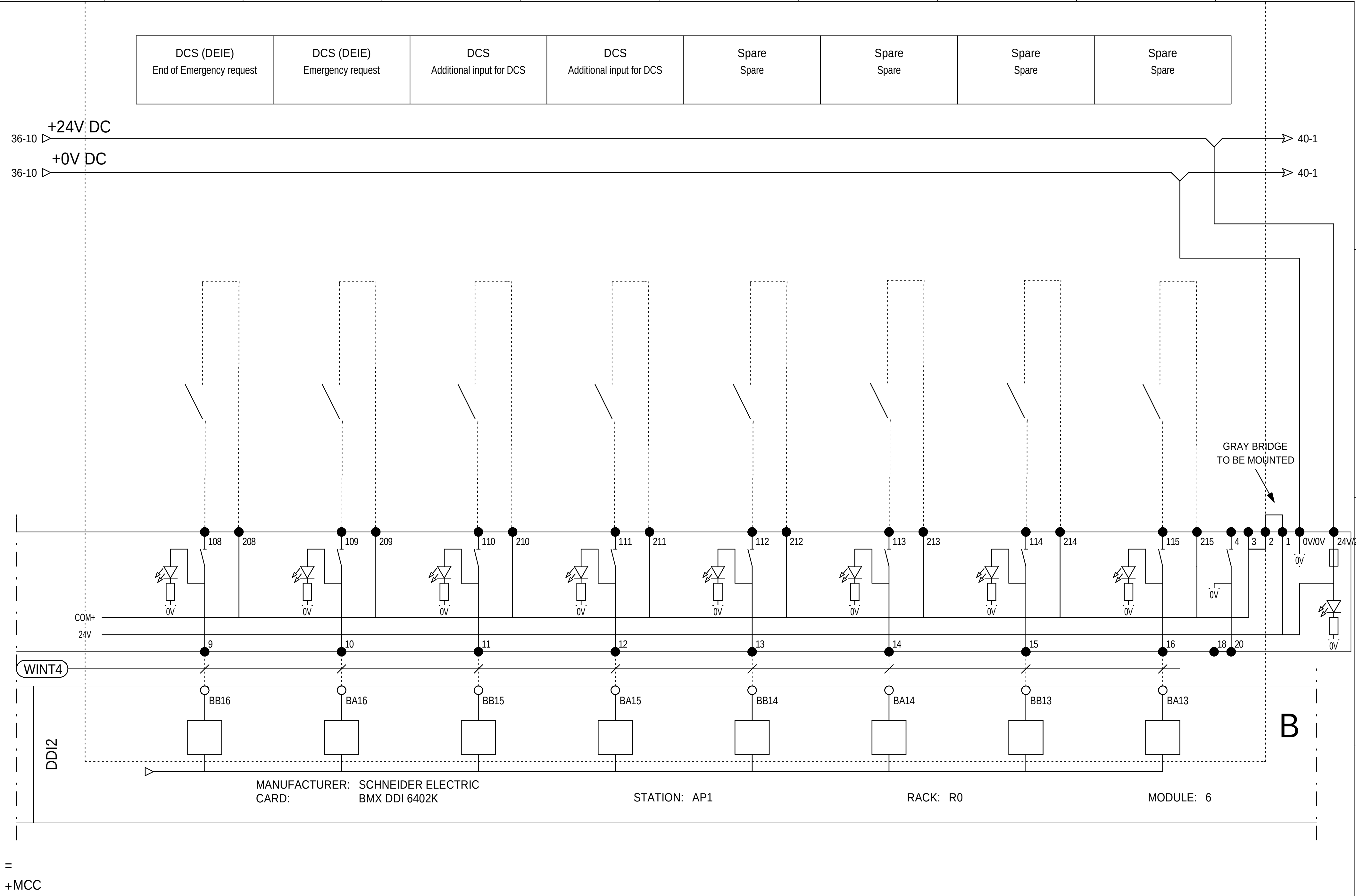
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 37

A3 suite - 01/2008



DCS (DEIE)
End of Emergency request
DCS (DEIE)
Emergency request
DCS
Additional input for DCS
DCS
Additional input for DCS
Spare
Spare
Spare
Spare
Spare
Spare
Spare
Spare
36-10
+24V DC
40-1
36-10
+0V DC
40-1
GRAY BRIDGE
TO BE MOUNTED
108 208 109 209 110 210 111 211 112 212 113 213 114 214 115 215 4 3 2 1 0V/0V 24V/24V
COM+
24V
0V
9 10 11 12 13 14 15 16 18 20
WINT4
BB16 BA16 BB15 BA15 BB14 BA14 BB13 BA13
B
DDI2
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDI 6402K
STATION: AP1
RACK: R0
MODULE: 6
=
+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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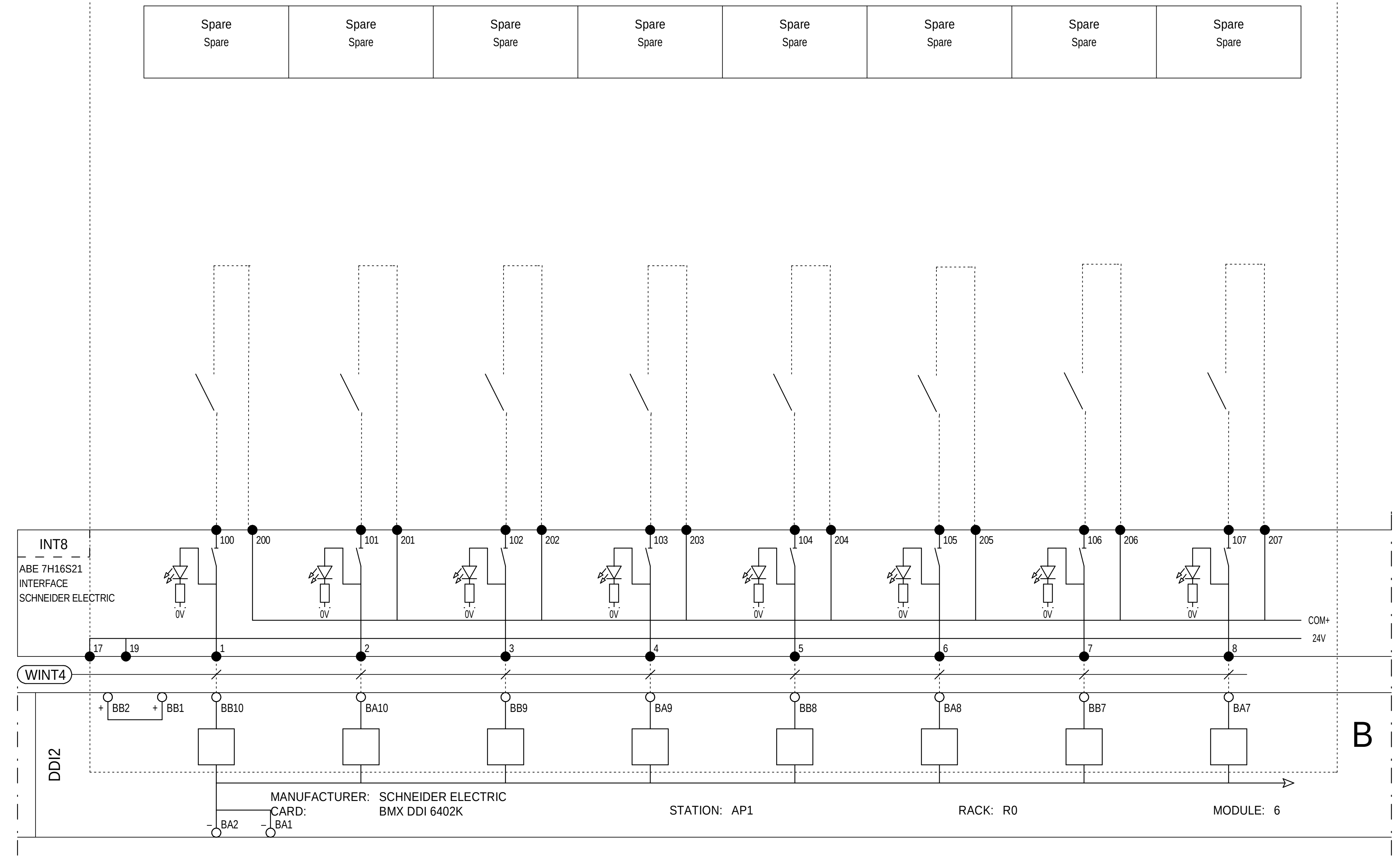
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	38



=
+MCC

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00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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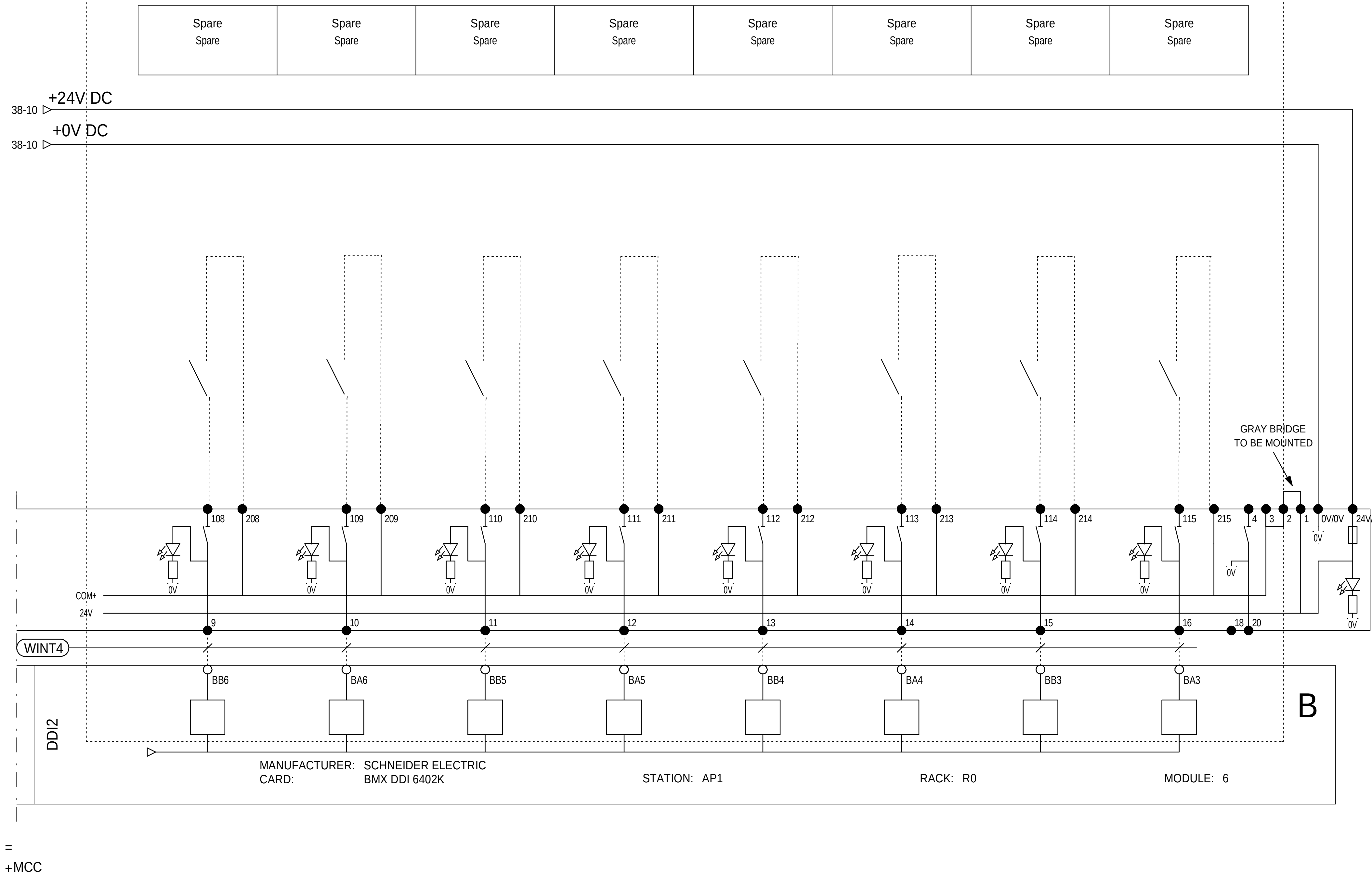
Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.

Indice Rev: 00

Folio Sheet: 39



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00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Inputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

Released for Manufacturing
Printed on 2014/03/19

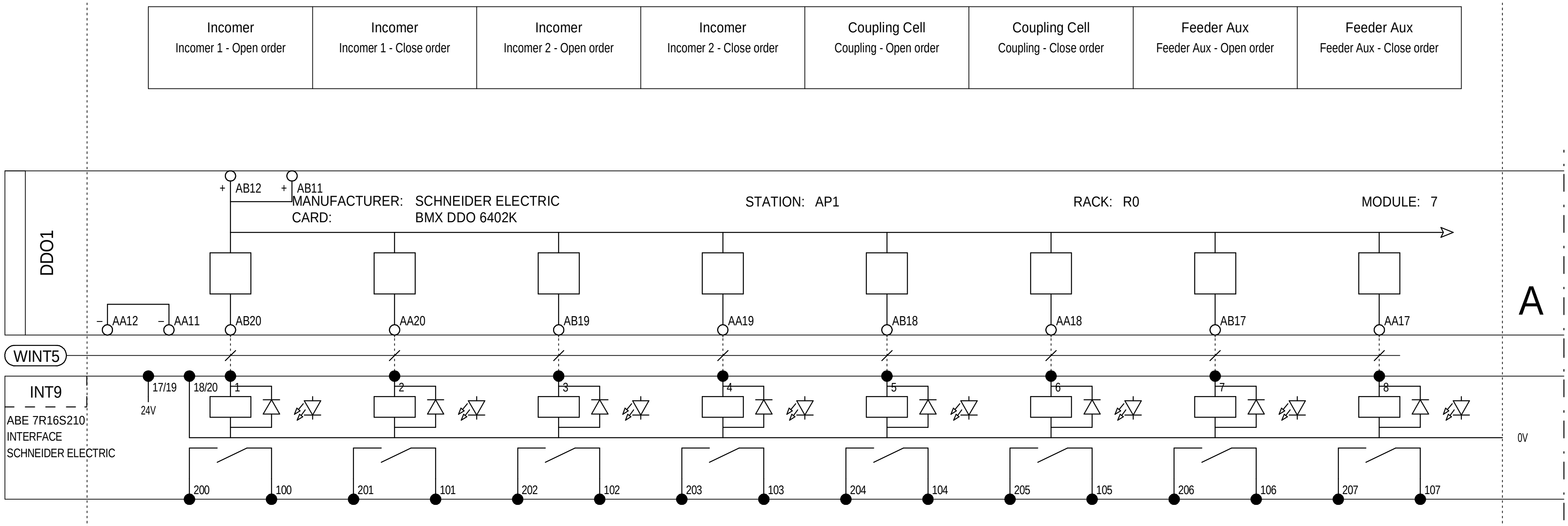
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 40

A3 suite - 01/2008



Incomer
Incomer 1 - Open order
Incomer
Incomer 1 - Close order
Incomer
Incomer 2 - Open order
Incomer
Incomer 2 - Close order
Coupling Cell
Coupling - Open order
Coupling Cell
Coupling - Close order
Feeder Aux
Feeder Aux - Open order
Feeder Aux
Feeder Aux - Close order
DDO1
AB12
AB11
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDO 6402K
STATION: AP1
RACK: R0
MODULE: 7
A
AA12
AA11
AB20
AA20
AB19
AA19
AB18
AA18
AB17
AA17
WINT5
INT9
ABE 7R16S210
INTERFACE
SCHNEIDER ELECTRIC
17/19
18/20
24V
1
2
3
4
5
6
7
8
0V
200
100
201
101
202
102
203
103
204
104
205
105
206
106
207
107

=

+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Ouputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

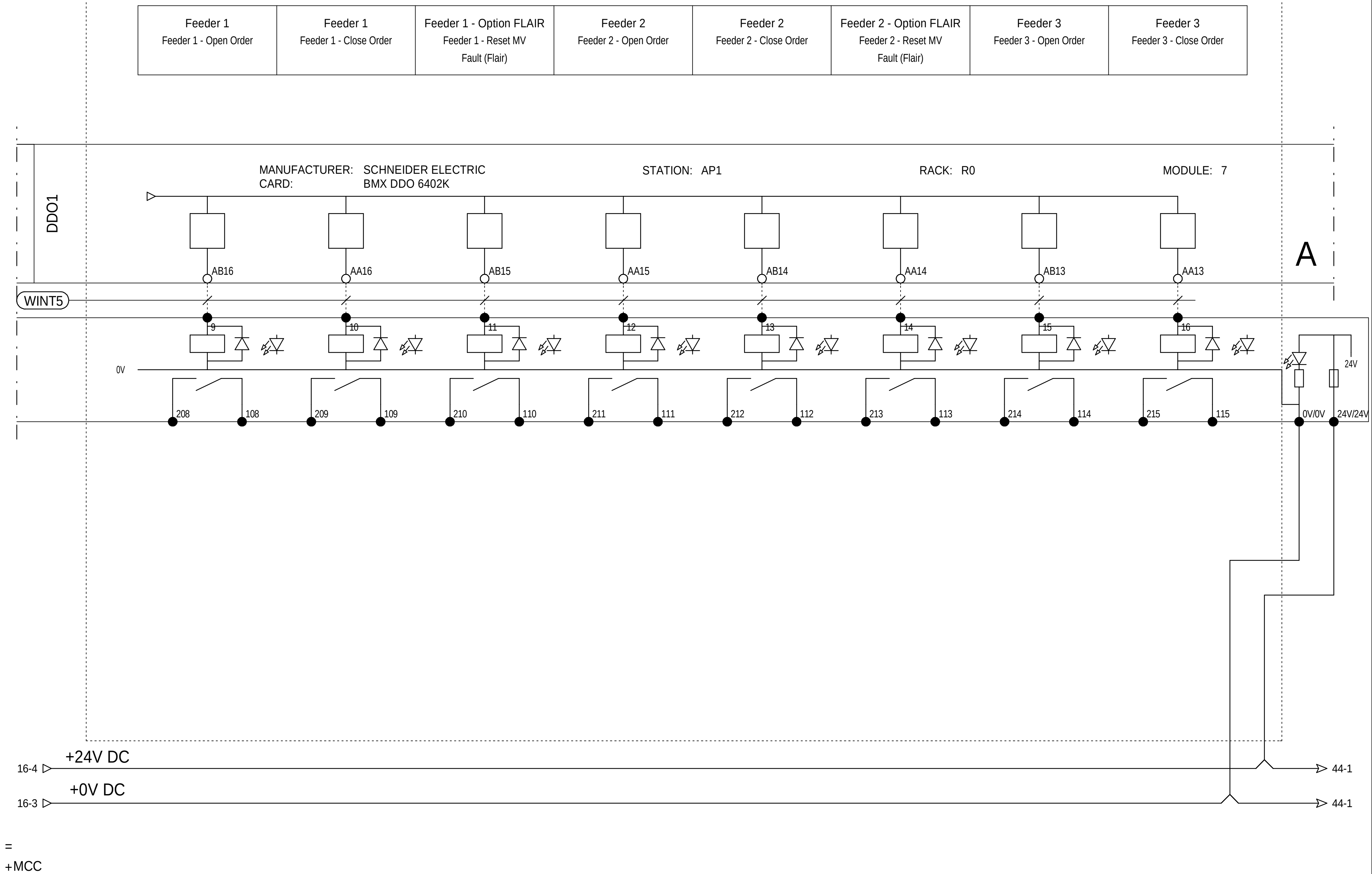
Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Projet - No commande
Project - Order No.

Indice Rev: 00

Folio Sheet: 41


Feeder 1
Feeder 1 - Open Order
Feeder 1
Feeder 1 - Close Order
Feeder 1 - Option FLAIR
Feeder 1 - Reset MV Fault (Flair)
Feeder 2
Feeder 2 - Open Order
Feeder 2
Feeder 2 - Close Order
Feeder 2 - Option FLAIR
Feeder 2 - Reset MV Fault (Flair)
Feeder 3
Feeder 3 - Open Order
Feeder 3
Feeder 3 - Close Order
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDO 6402K
STATION: AP1
RACK: R0
MODULE: 7
DDO1
A
AB16
AA16
AB15
AA15
AB14
AA14
AB13
AA13
WINT5
9
10
11
12
13
14
15
16
0V
24V
208
108
209
109
210
110
211
111
212
112
213
113
214
114
215
115
0V/0V
24V/24V
16-4
+24V DC
44-1
16-3
+0V DC
44-1
=
+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Ouputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

Released for Manufacturing
Printed on 2014/03/19

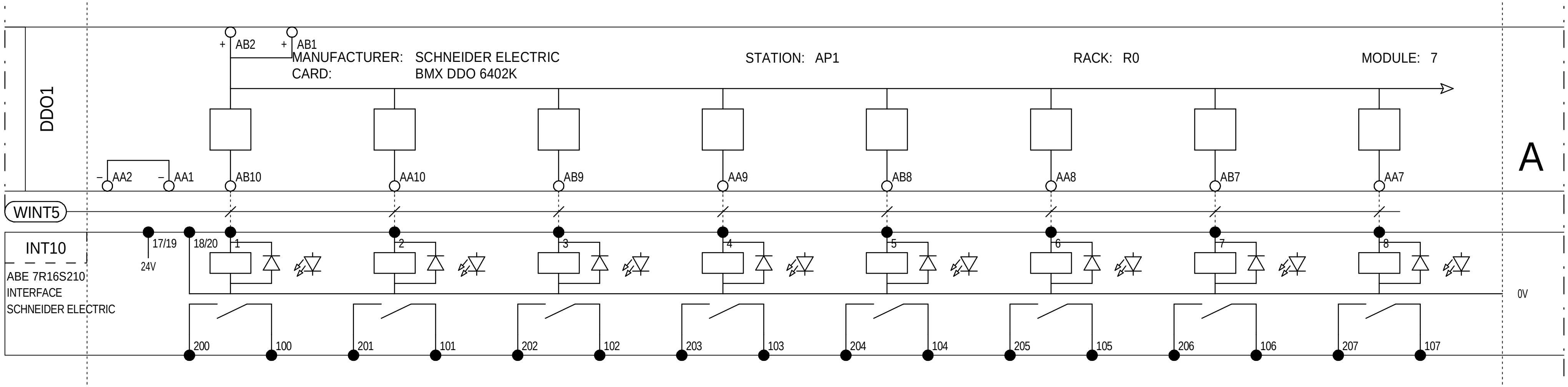
EAV5829303

Projet - No commande
Project - Order No.

Indice Rev 00

Folio Sheet 42

Feeder 3 - Option FLAIR	Feeder 4	Feeder 4	Feeder 4 - Option FLAIR	Feeder 5	Feeder 5	Feeder 5 - Option FLAIR	Feeder 6
Feeder 3 - Reset MV Fault (Flair)	Feeder 4 - Open Order	Feeder 4 - Close Order	Feeder 4 - Reset MV Fault (Flair)	Feeder 5 - Open Order	Feeder 5 - Close Order	Feeder 5 - Reset MV Fault (Flair)	Feeder 6 - Open Order



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+MCC

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00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Ouputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.

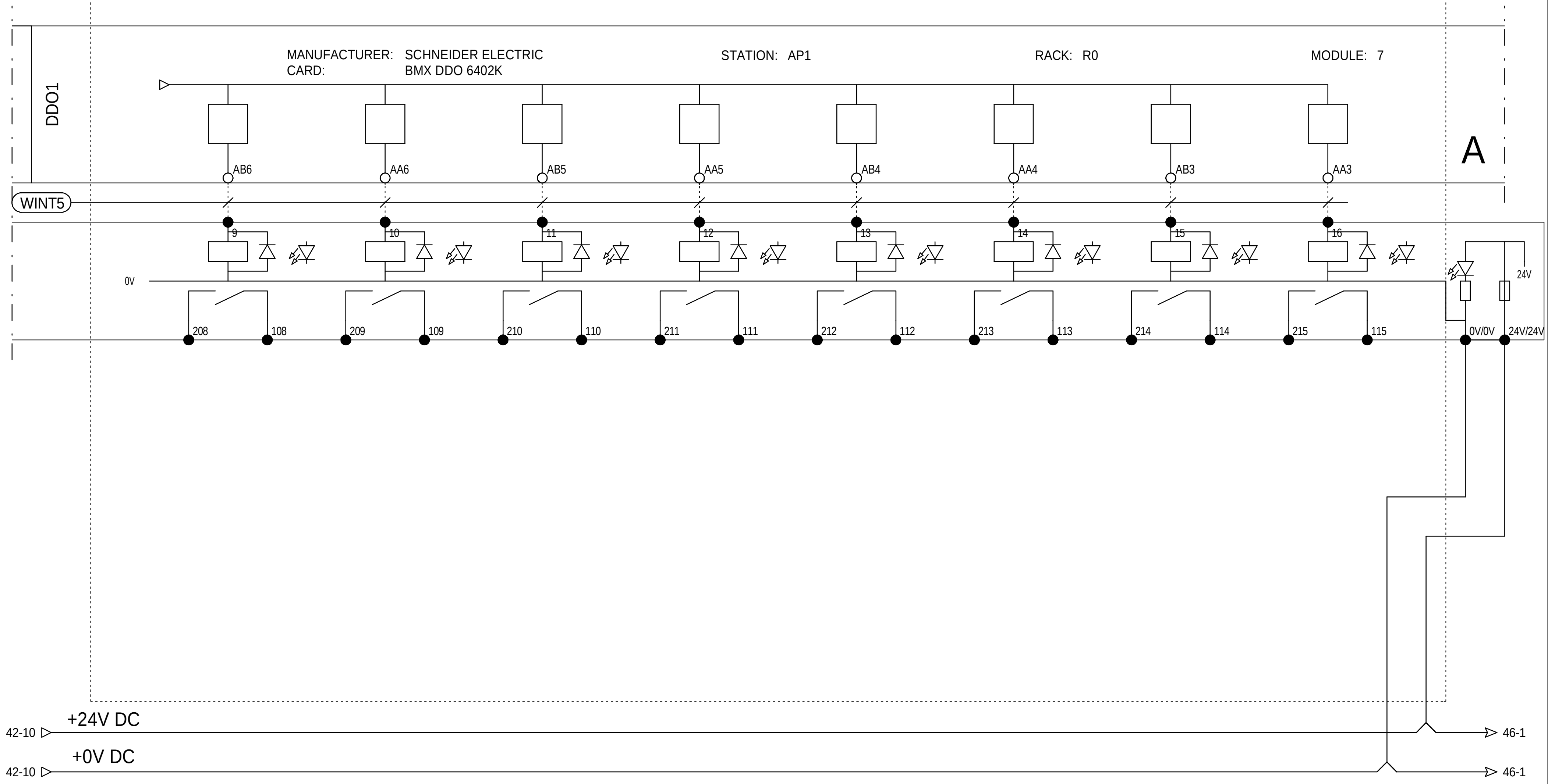
Indice / Rev: 00

Folio / Sheet: 43

A3 suite - 01/2008

1	2	3	4	5	6	7	8	9	10

Feeder 6	Feeder 6 - Option FLAIR	Coupling Cell	Spare	Spare	Spare	Spare	Spare
Feeder 6 - Close Order	Feeder 6 - Reset MV Fault (Flair)	48VDC Charger - Rearm	Spare	Spare	Spare	Spare	Spare



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00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Ouputs - 6 FEEDERS

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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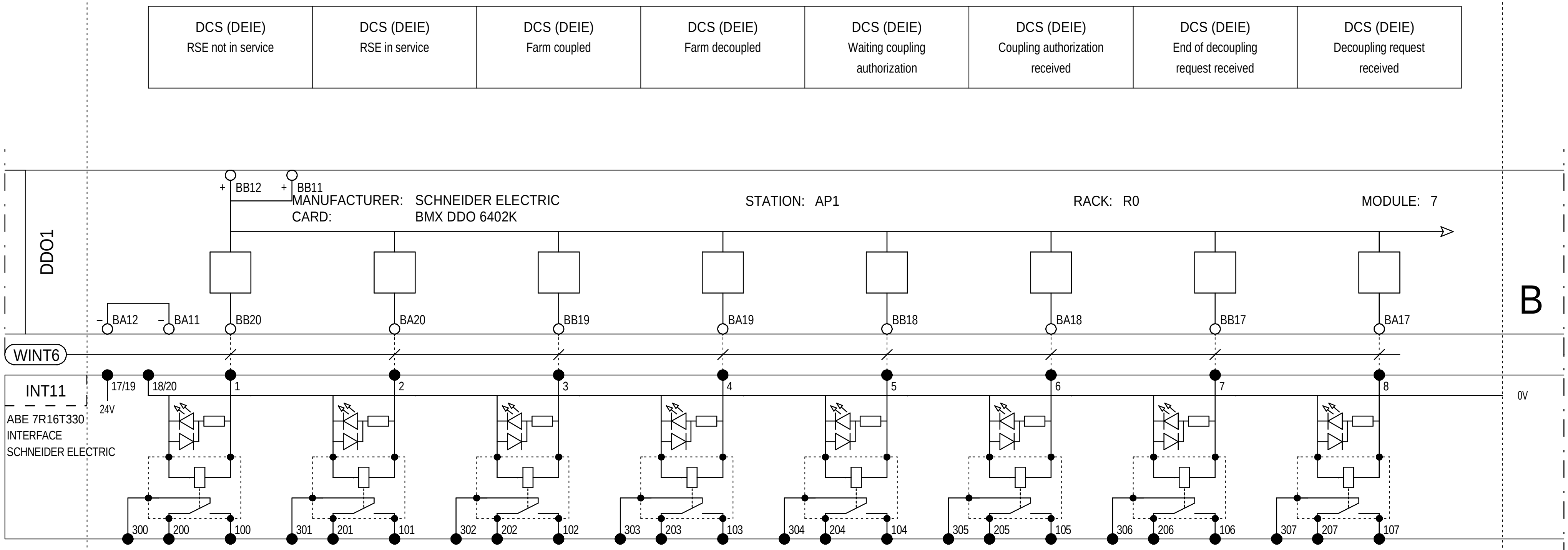
Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	44



DCS (DEIE) RSE not in service
DCS (DEIE) RSE in service
DCS (DEIE) Farm coupled
DCS (DEIE) Farm decoupled
DCS (DEIE) Waiting coupling authorization
DCS (DEIE) Coupling authorization received
DCS (DEIE) End of decoupling request received
DCS (DEIE) Decoupling request received
DDO1
+ BB12
+ BB11
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDO 6402K
STATION: AP1
RACK: R0
MODULE: 7
B
– BA12
– BA11
BB20
BA20
BB19
BA19
BB18
BA18
BB17
BA17
WINT6
INT11
17/19
18/20
24V
0V
ABE 7R16T330
INTERFACE
SCHNEIDER ELECTRIC
1 2 3 4 5 6 7 8
300 200 100
301 201 101
302 202 102
303 203 103
304 204 104
305 205 105
306 206 106
307 207 107

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Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Digitals Ouputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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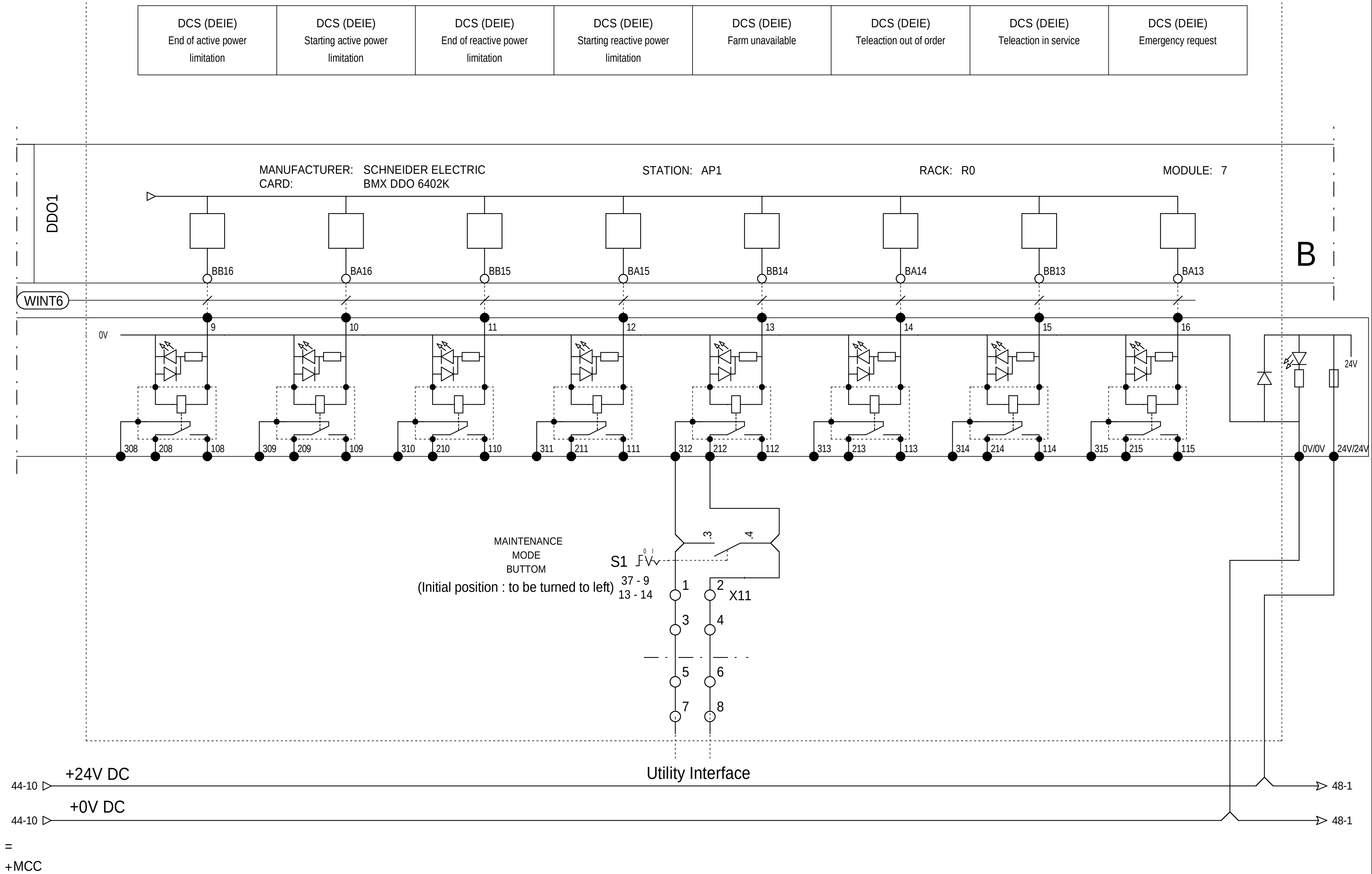
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 45



DCS (DEIE) End of active power limitation
DCS (DEIE) Starting active power limitation
DCS (DEIE) End of reactive power limitation
DCS (DEIE) Starting reactive power limitation
DCS (DEIE) Farm unavailable
DCS (DEIE) Teleaction out of order
DCS (DEIE) Teleaction in service
DCS (DEIE) Emergency request
DDO1
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX DDO 6402K
STATION: AP1
RACK: R0
MODULE: 7
B
BB16
BA16
BB15
BA15
BB14
BA14
BB13
BA13
WINT6
0V
9
10
11
12
13
14
15
16
24V
308
208
108
309
209
109
310
210
110
311
211
111
312
212
112
313
213
113
314
214
114
315
215
115
0V/0V
24V/24V
MAINTENANCE MODE BUTTOM
(Initial position : to be turned to left)
S1
37 - 9
13 - 14
X11
Utility Interface
44-10
+24V DC
48-1
44-10
+0V DC
48-1
=
+MCC

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Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	

ADVANCED Digitals Ouputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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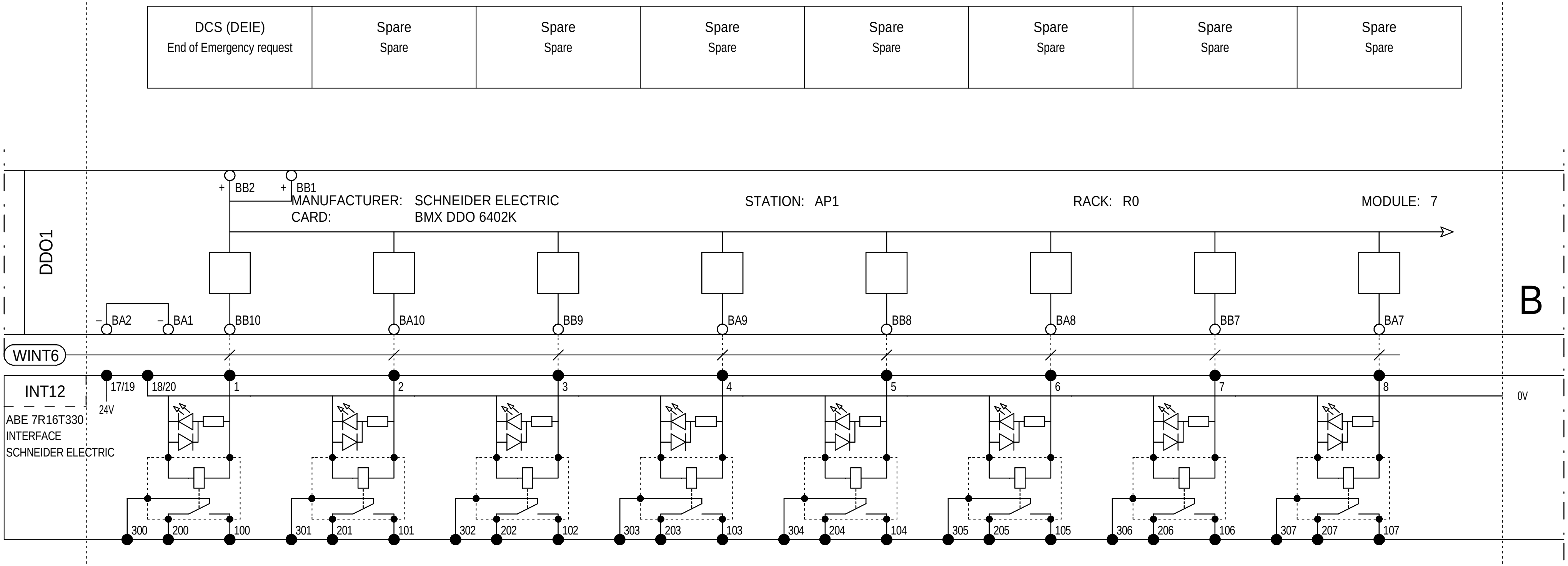
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 46

A3 suite - 01/2008



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ADVANCED Digitals Ouputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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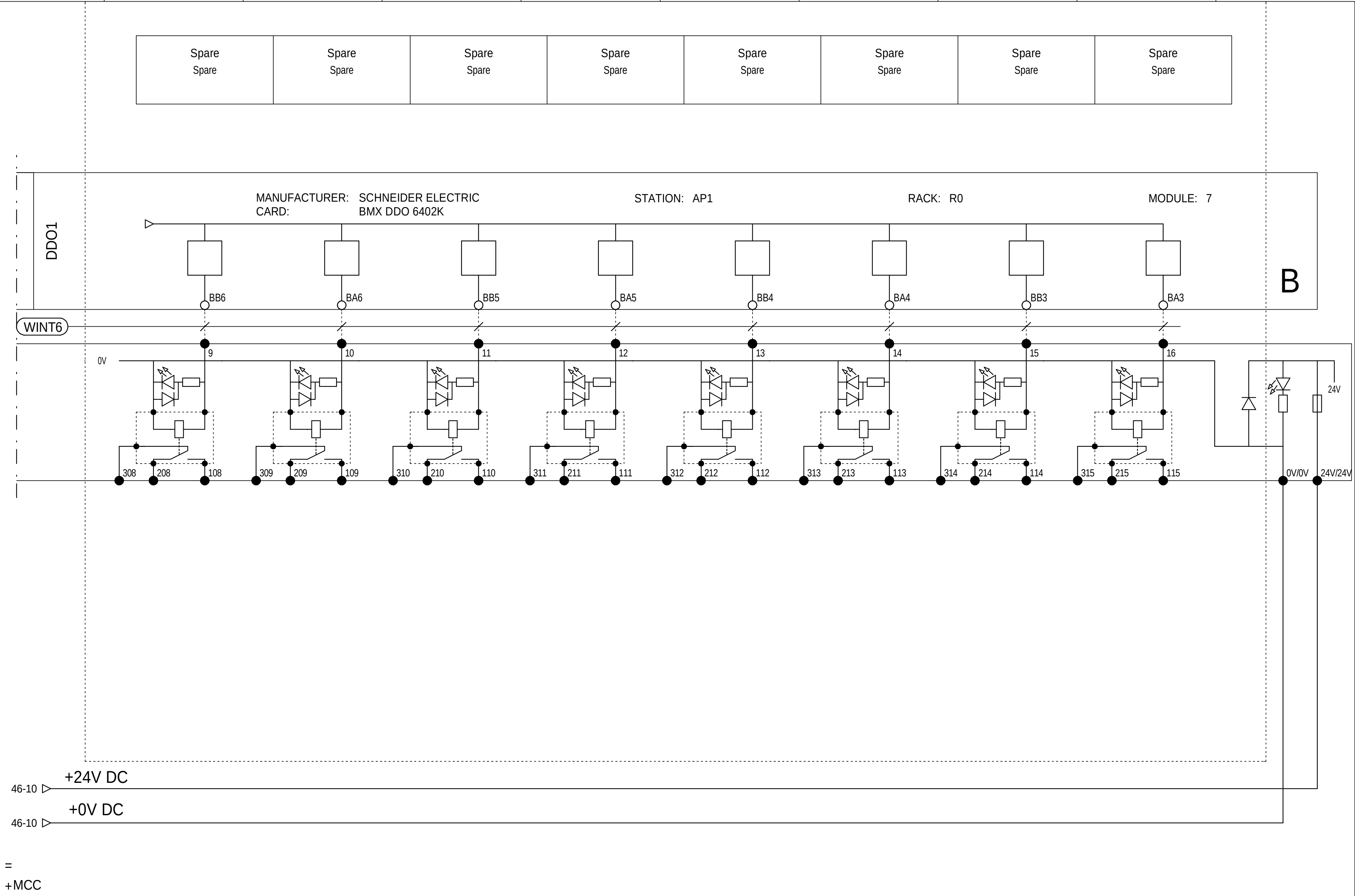
EAV5829303

Projet - No commande
Project - Order No.

Indice Rev 00

Folio Sheet 47

A3 suite - 01/2008



Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
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ADVANCED Digitals Ouputs
- 6 FEEDERS

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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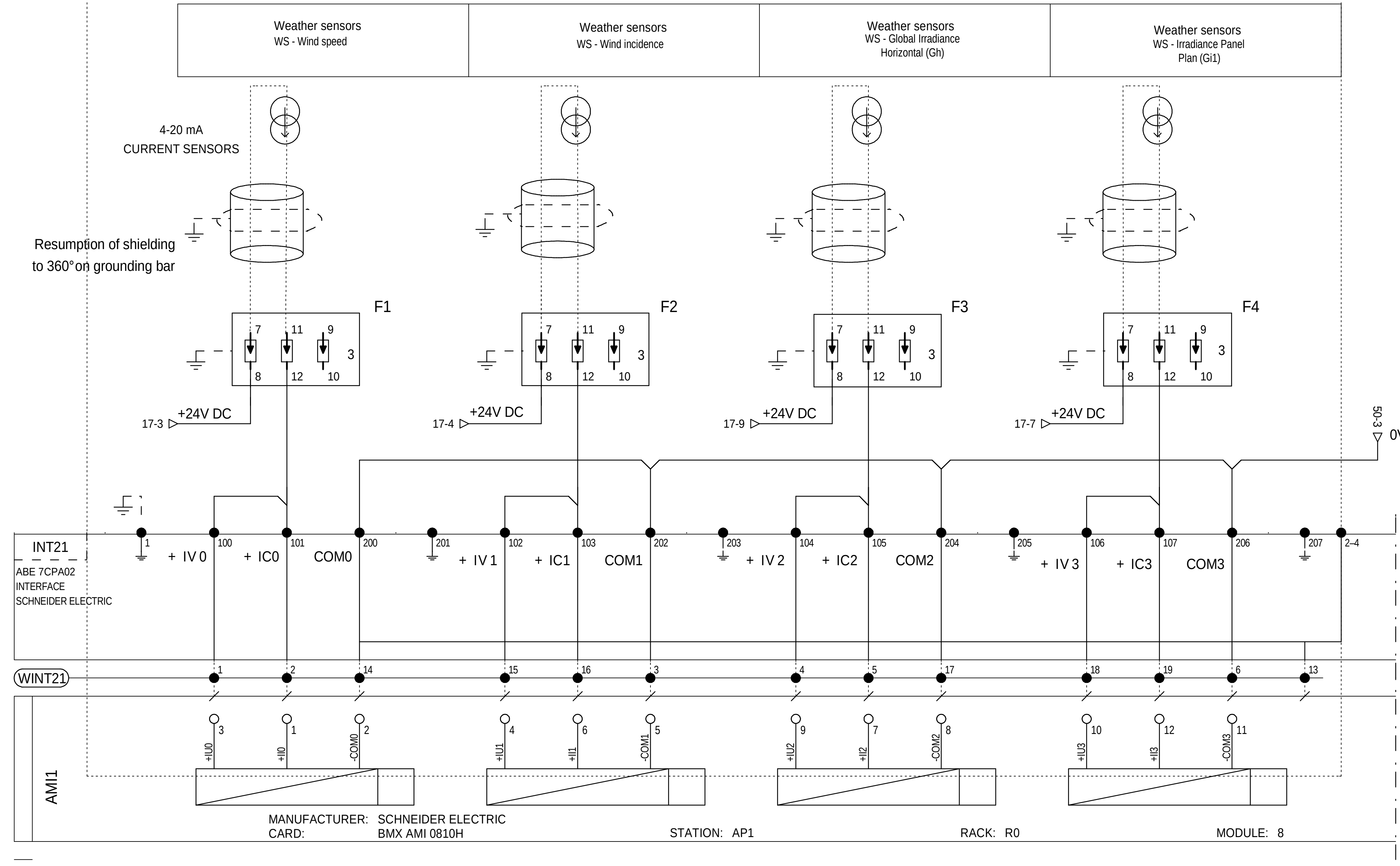
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 48

A3 suite - 01/2008



Weather sensors
WS - Wind speed
Weather sensors
WS - Wind incidence
Weather sensors
WS - Global Irradiance
Horizontal (Gh)
Weather sensors
WS - Irradiance Panel
Plan (Gi1)
4-20 mA
CURRENT SENSORS
Resumption of shielding
to 360°on grounding bar
F1
F2
F3
F4
+24V DC
17-3
17-4
17-9
17-7
50-3
0V DC
INT21
ABE 7CPA02
INTERFACE
SCHNEIDER ELECTRIC
+ IV 0
+ IC0
COM0
+ IV 1
+ IC1
COM1
+ IV 2
+ IC2
COM2
+ IV 3
+ IC3
COM3
WINT21
AMI1
+IU0
+II0
-COM0
+IU1
+II1
-COM1
+IU2
+II2
-COM2
+IU3
+II3
-COM3
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX AMI 0810H
STATION: AP1
RACK: R0
MODULE: 8

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+MCC

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00	17/03/2014	Edition originale / First issue					

ADVANCED WS Analog Inputs

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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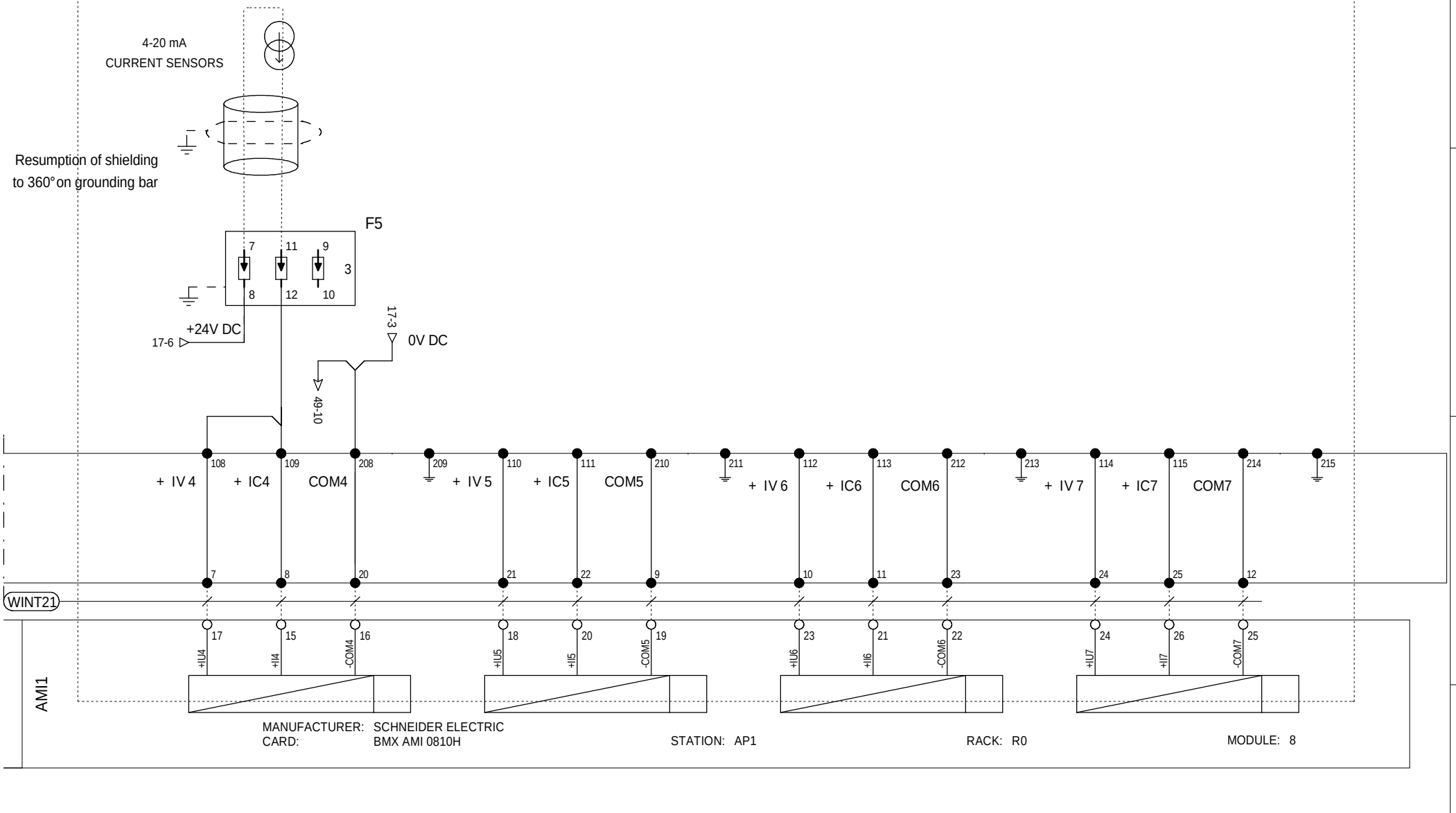
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 49

Weather sensors WS - Irradiance Panel Plan (Gi2)	Weather sensors WS - Spare 1	Weather sensors WS - Spare 2	Weather sensors WS - Spare 3



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00	17/03/2014	Edition originale / First issue					

ADVANCED WS Analog Inputs

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

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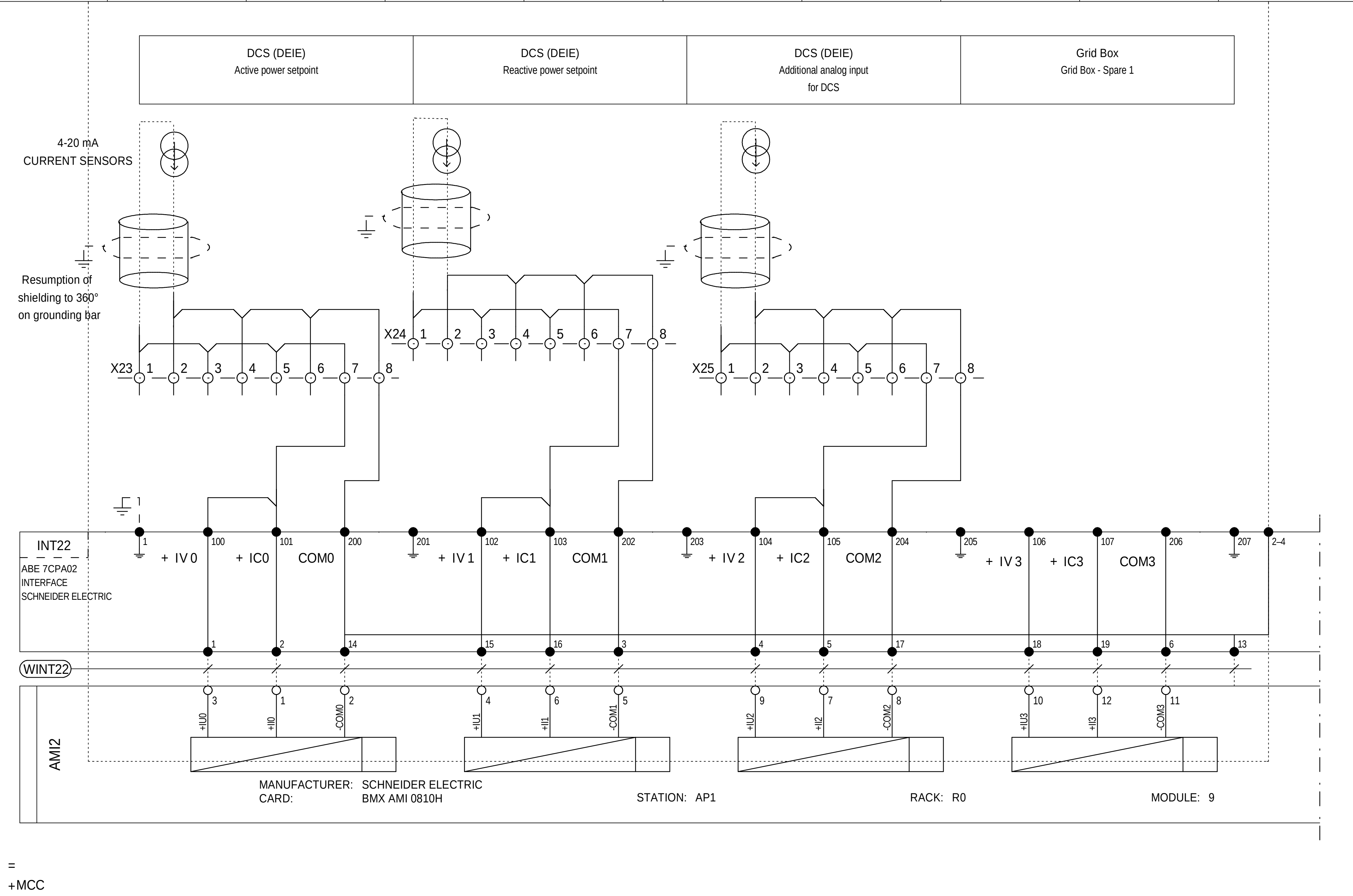
Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	50



DCS (DEIE)
Active power setpoint
DCS (DEIE)
Reactive power setpoint
DCS (DEIE)
Additional analog input for DCS
Grid Box
Grid Box - Spare 1
4-20 mA CURRENT SENSORS
Resumption of shielding to 360° on grounding bar
X23
X24
X25
INT22
ABE 7CPA02
INTERFACE
SCHNEIDER ELECTRIC
+ IV 0
+ IC0
COM0
+ IV 1
+ IC1
COM1
+ IV 2
+ IC2
COM2
+ IV 3
+ IC3
COM3
WINT22
AMI2
+IU0
+II0
-COM0
+IU1
+II1
-COM1
+IU2
+II2
-COM2
+IU3
+II3
-COM3
MANUFACTURER: SCHNEIDER ELECTRIC
CARD: BMX AMI 0810H
STATION: AP1
RACK: R0
MODULE: 9

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+MCC

Ind. Rev	Date	Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED DCS Analog Inputs

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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EAV5829303

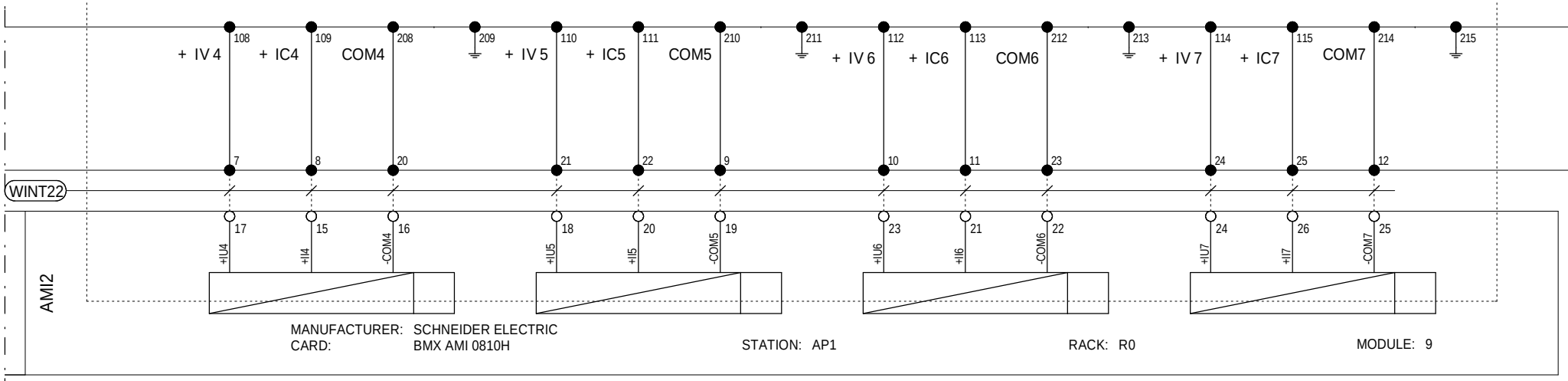
Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 51

A3 suite - 01/2008

Grid Box	Grid Box	Grid Box	Grid Box
Grid Box - Spare 2	Grid Box - Spare 3	Grid Box - Spare 4	Grid Box - Spare 5



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+MCC

Ind. Rev	Date Date		Archiv. Micro-filmed	Ind. Rev	Date Date		Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					
		Modification / Modification				Modification / Modification	

ADVANCED DCS Analog Inputs

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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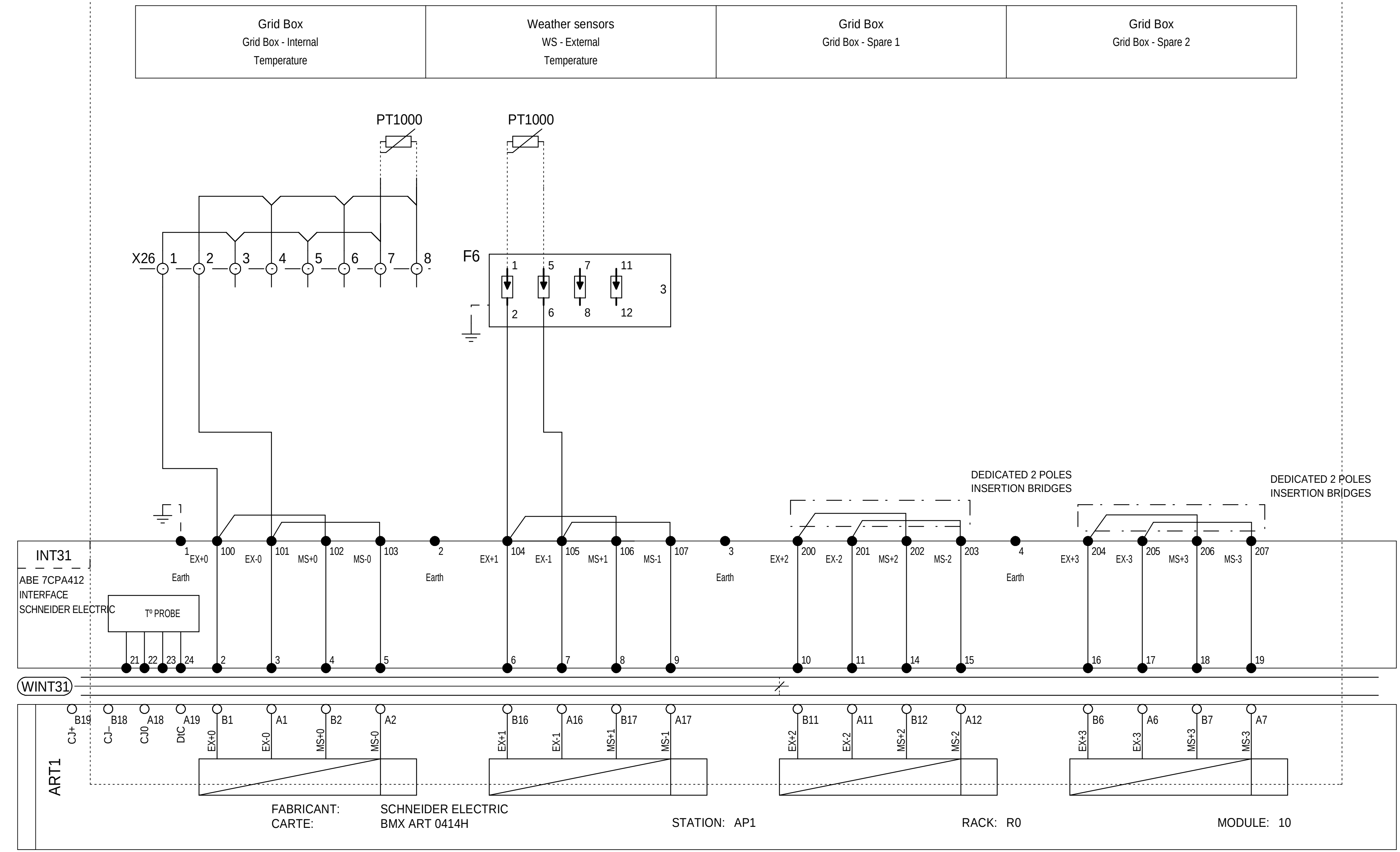
Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	52

A3 suite - 01/2008



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00	17/03/2014	Edition originale / First issue					

ADVANCED PT1000 Analog Inputs

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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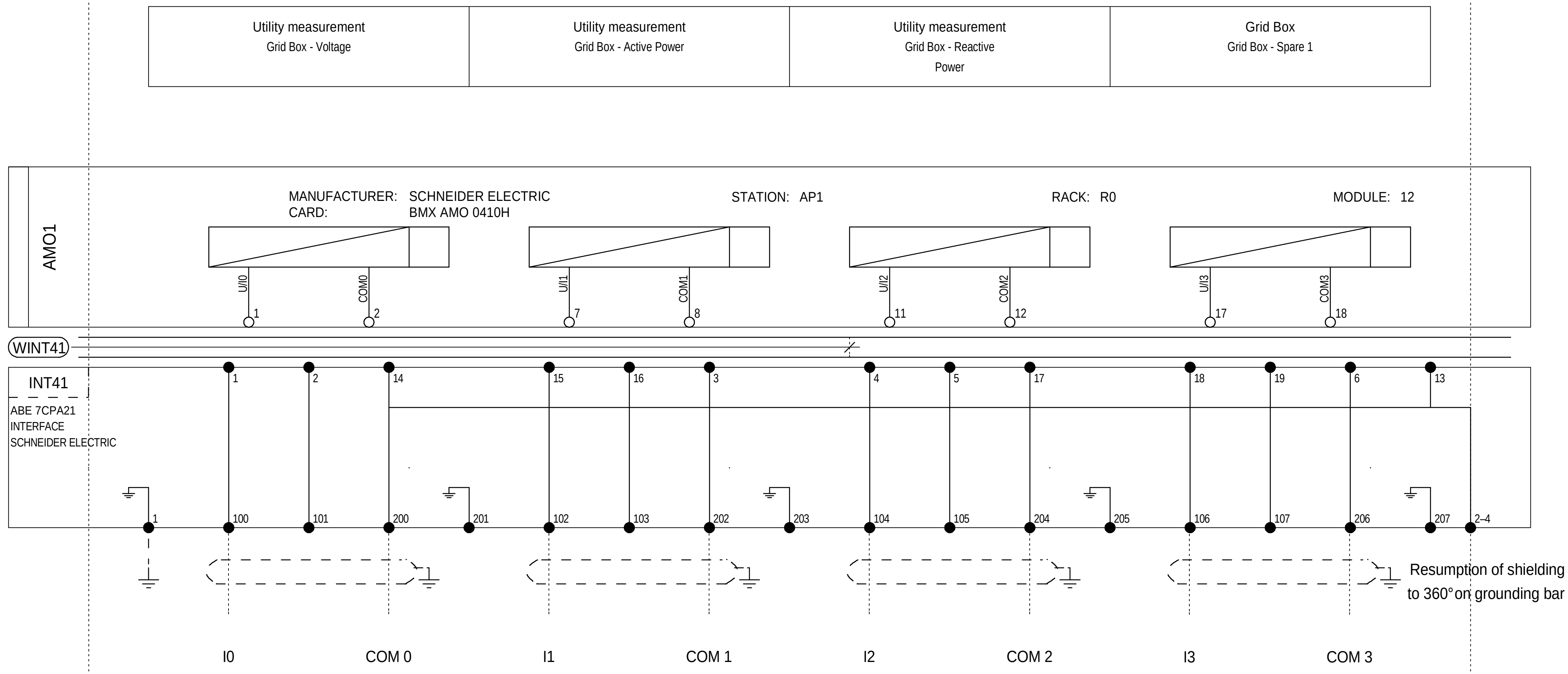
Projet - No commande / Project - Order No.

Indice Rev: 00

Folio Sheet: 53

A3 suite - 01/2008



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+MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

ADVANCED Analog Outputs

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Printed on 2014/03/19

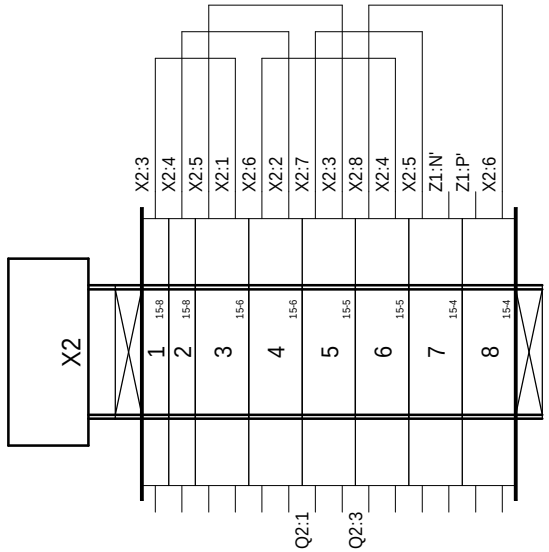
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 54

A3 suite - 01/2008



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00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X2

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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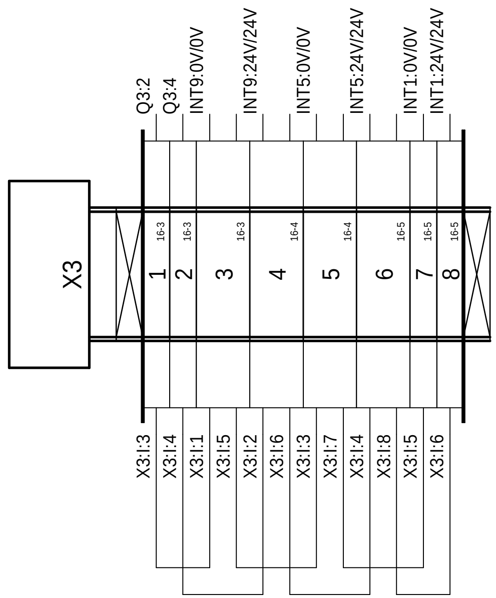
Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	150

A3 suite - 11/2006

1	2	3	4	5	6	7	8	9	10



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Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X3

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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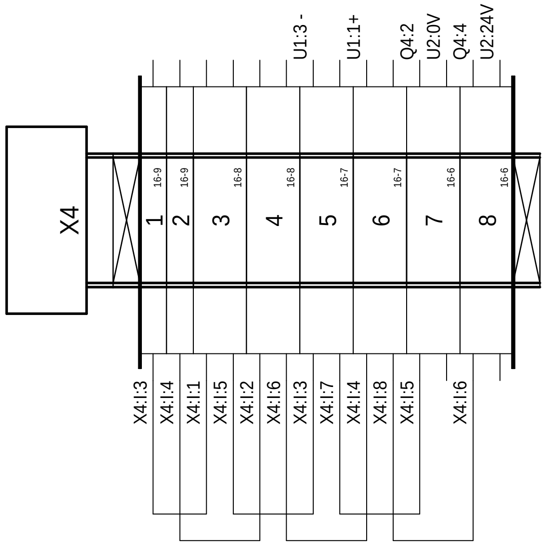
EAV5829303

Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	151



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Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X4

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Printed on 2014/03/19

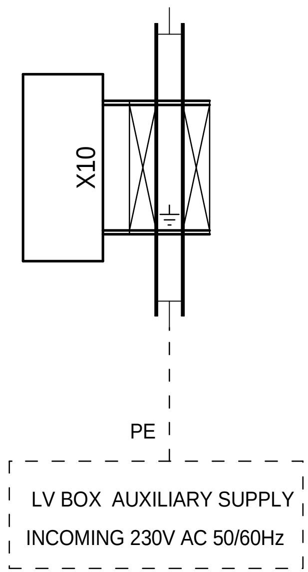
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 152

1	2	3	4	5	6	7	8	9	10



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00	17/03/2014	Edition originale / First issue					
Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed

TERMINAL BLOCK : =+MCC-X10

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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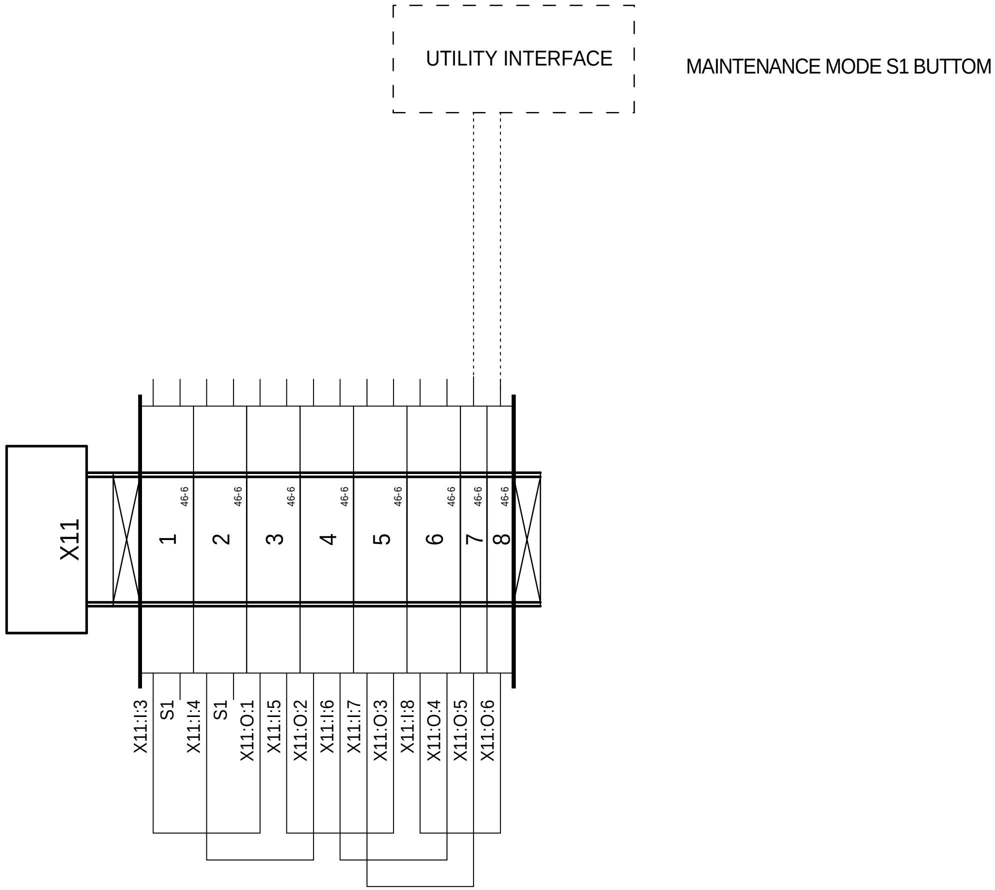
EAV5829303

Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
	00	153



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00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X11

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Printed on 2014/03/19

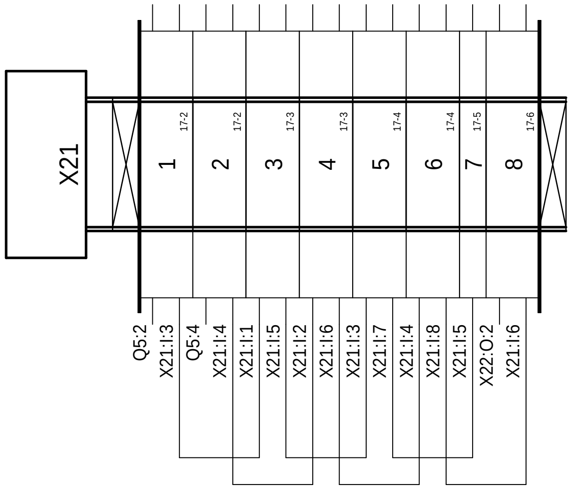
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 154

1	2	3	4	5	6	7	8	9	10



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Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X21

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Printed on 2014/03/19

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EAV5829303

Projet - No commande Project - Order No.	Indice Rev	Folio Sheet
	00	155

A3 suite - 11/2006

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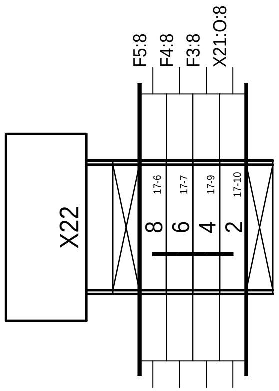

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Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X22

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

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EAV5829303

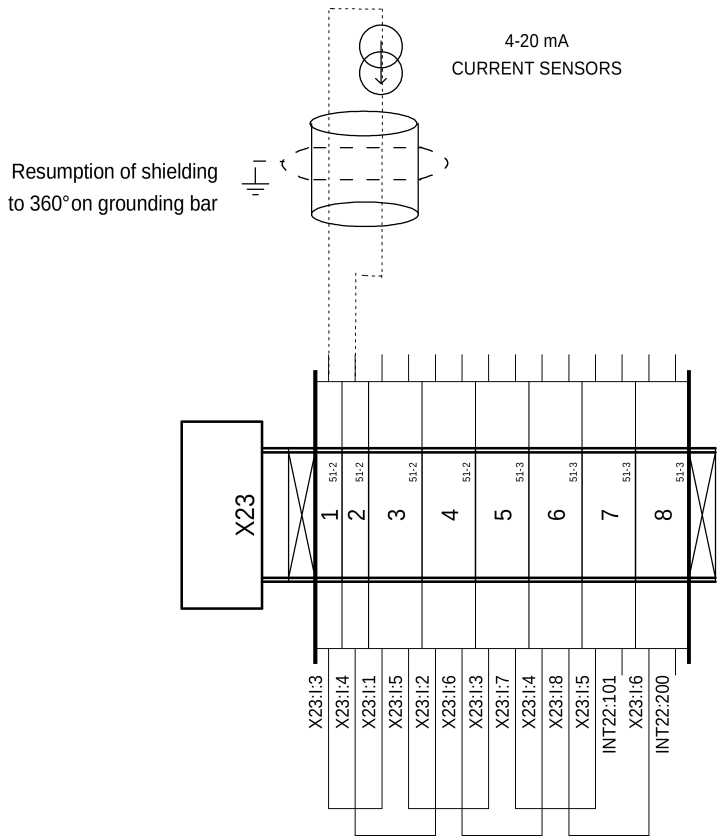
Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 156

A3 suite - 11/2006

1	2	3	4	5	6	7	8	9	10



MCC

00	17/03/2014	Edition originale / First issue					
Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed

TERMINAL BLOCK : =+MCC-X23

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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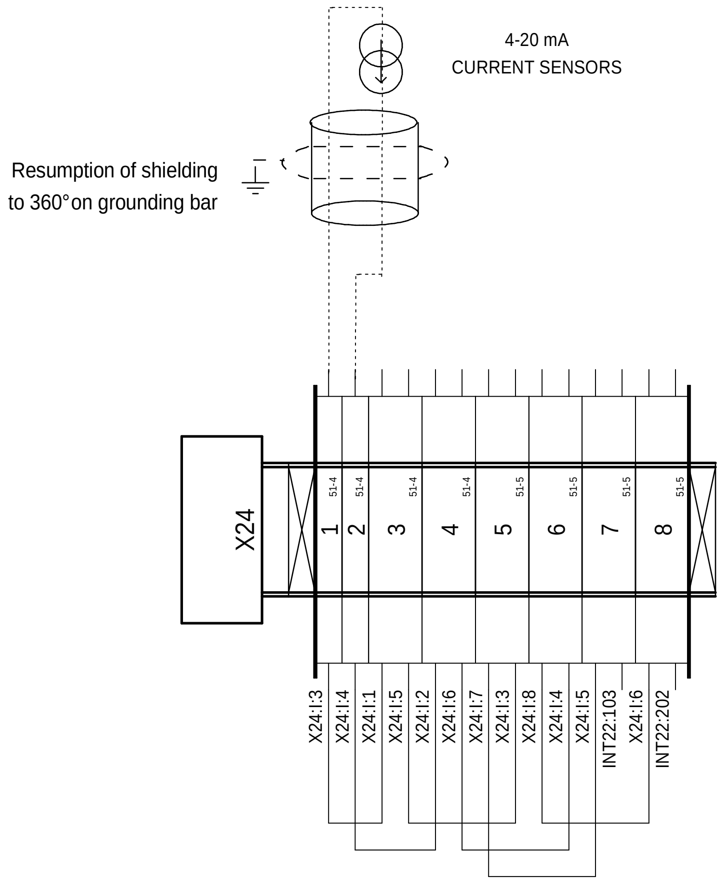
EAV5829303

Projet - No commande
Project - Order No.

Indice Rev: 00

Folio Sheet: 157



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00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X24

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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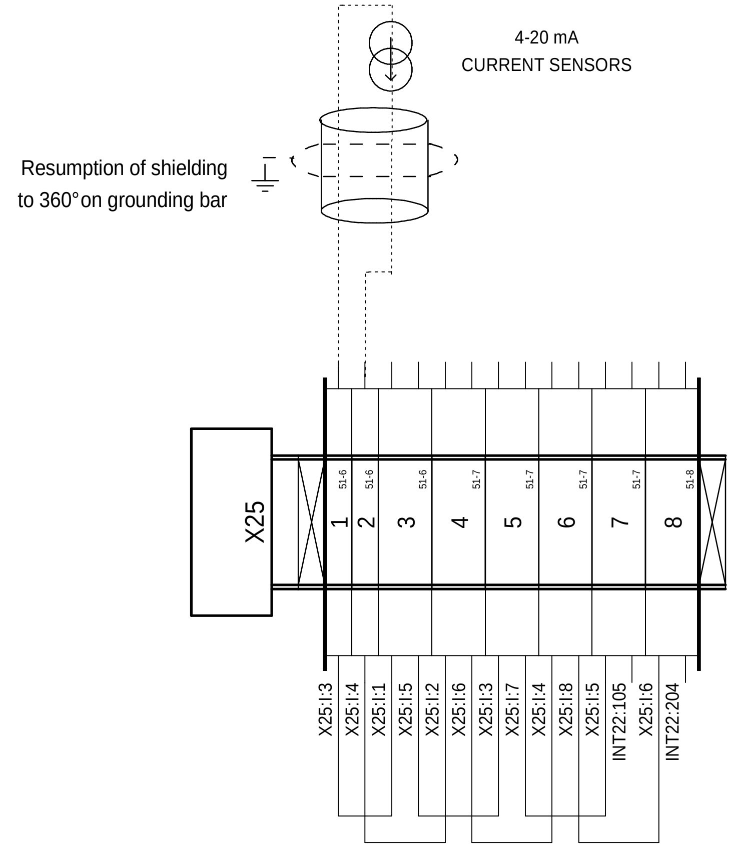
EAV5829303

Projet - No commande / Project - Order No.

Indice Rev: 00

Folio Sheet: 158



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00	17/03/2014	Edition originale / First issue					
Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed

TERMINAL BLOCK : =+MCC-X25

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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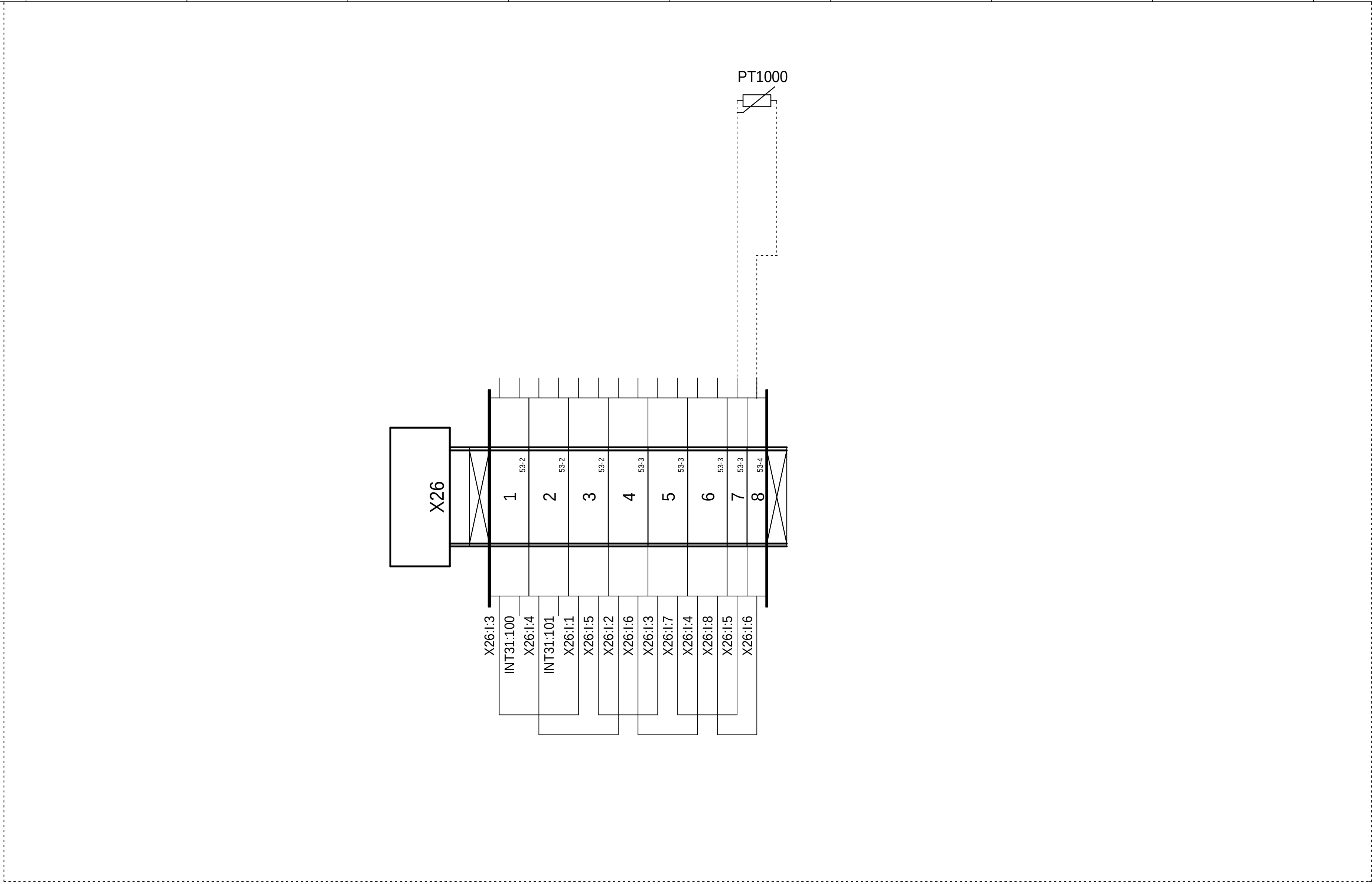
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 159

A3 suite - 11/2006



MCC

Ind. / Rev	Date	Modification / Modification	Archiv. / Micro-filmed	Ind. / Rev	Date	Modification / Modification	Archiv. / Micro-filmed
00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X26

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Printed on 2014/03/19

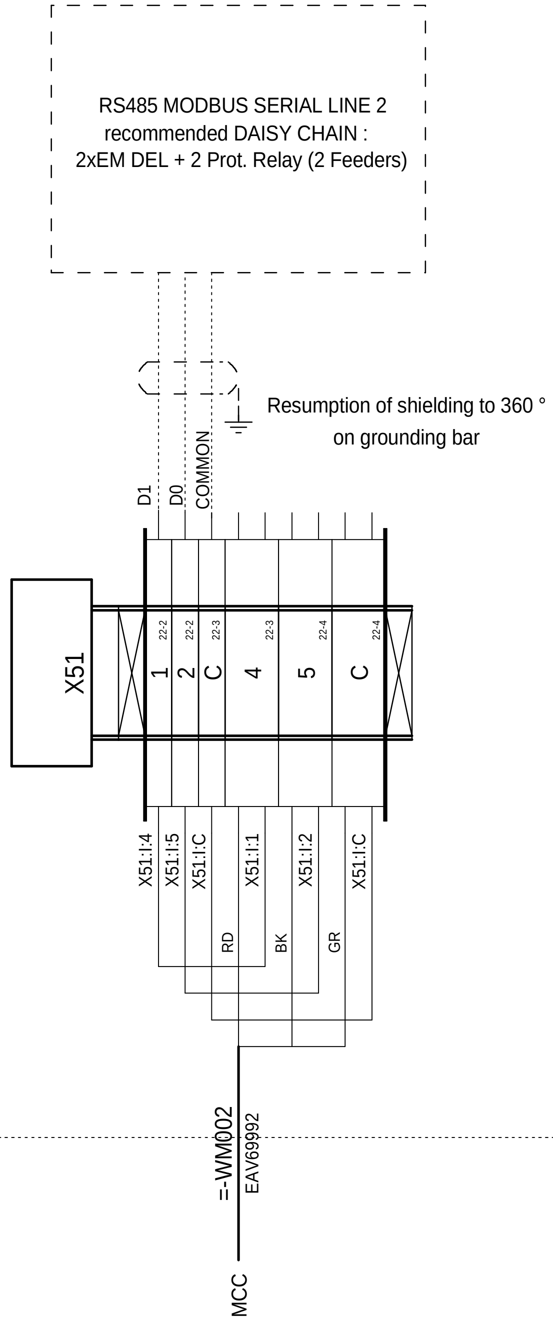
EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 160

1	2	3	4	5	6	7	8	9	10



MCC

Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X51

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

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Schneider Electric

EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 161

A3 suite - 11/2006

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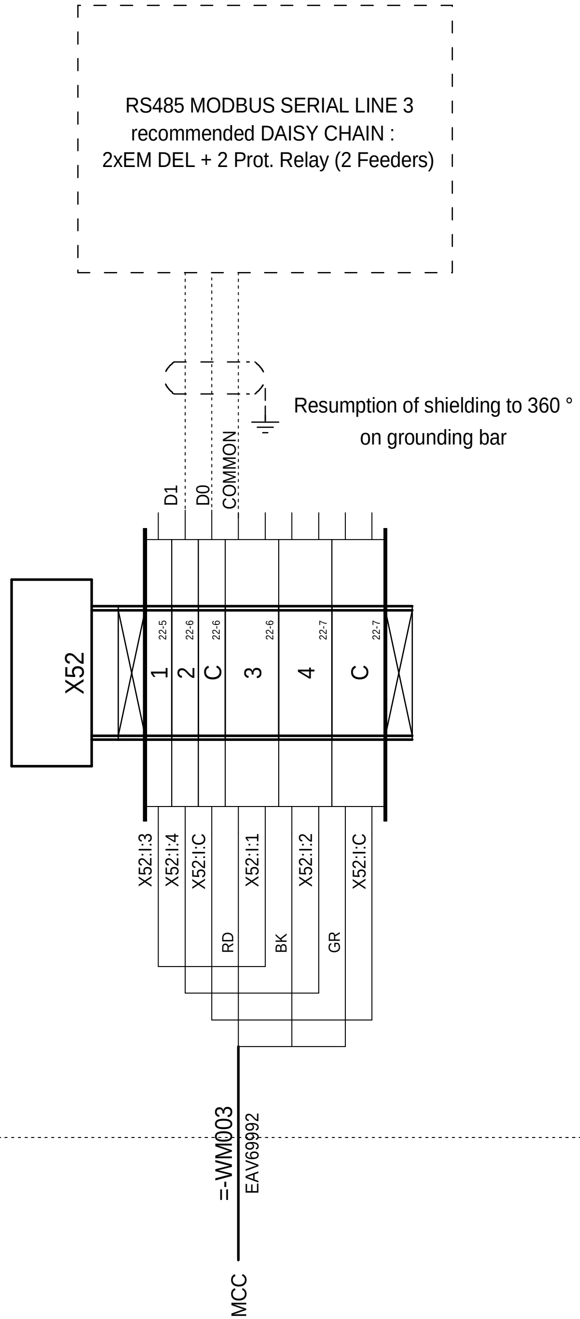

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Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X52

GRID MONITORING CONTROL CAB.
(GRID MCC)
ADVANCED 6 FEEDERS

Schneider Electric

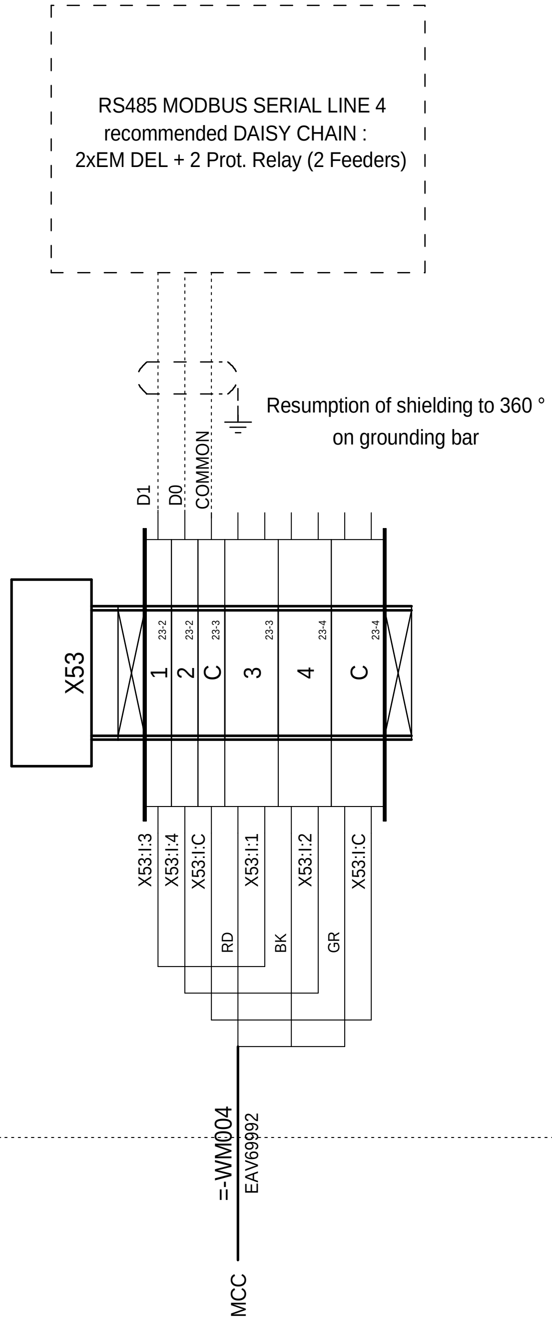
Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 162



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00	17/03/2014	Edition originale / First issue					
Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date Date	Modification / Modification	Archiv. Micro-filmed

TERMINAL BLOCK : =+MCC-X53

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(GRID MCC)
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Released for Manufacturing
Printed on 2014/03/19

Schneider Electric

EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 163

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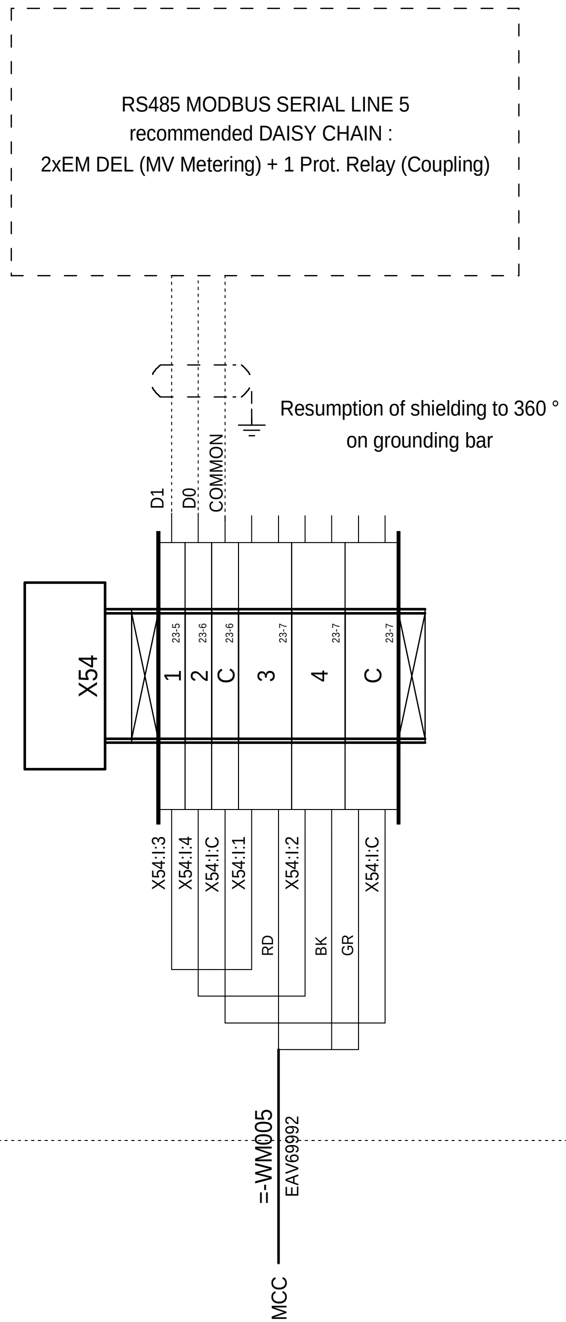

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Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed	Ind. Rev	Date	Modification / Modification	Archiv. Micro-filmed
00	17/03/2014	Edition originale / First issue					

TERMINAL BLOCK : =+MCC-X54

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No.

Indice / Rev: 00

Folio / Sheet: 164

A3 suite - 11/2006

Nom composant / Component name – Localisation (Location)	Installation (Function)	Repère (Tag)	Page (Sheet)	Designation	Fabricant (Manufacturer)	Ref. fabricant (Manufacturer Ref.)
MCC		24V DC HARNESS	15	H07VK POWER SUPPLY HARNESS Q1 to Z1	COMMATEL	EAV69249
			15	H07VK POWER SUPPLY HARNESS Z1 to X5 via X2	COMMATEL	EAV69250
			15	H07VK 6 FEEDERS ALL POWER SUPPLY HARNESS (after X5)	COMMATEL	EAV69251
			15	H07VK POWER SUPPLY HARNESS X11 to S1	COMMATEL	EAV69252
			15	H07VK POWER SUPPLY HARNESS X26 to INT31, F6 to INT31, X21-22 to F1, F2, F3, F4, F5 and INT21	COMMATEL	EAV69254
			15	H07VK POWER SUPPLY HARNESS X23-24-25 to INT22	COMMATEL	EAV69255
		230V AC HARNESS	18	H07VK POWER SUPPLY HARNESS Q8 to R1 via H1	COMMATEL	EAV68531
		AMI1	24	HARD 8 ISOLATED CHANNELS ANALOG INPUTS MODULE for Current and Voltage Sensors,28-way spring removable terminal	SCHNEIDER ELECTRIC	BMX AMI 0810H
		AMI2	24	HARD 8 ISOLATED CHANNELS ANALOG INPUTS MODULE for Current and Voltage Sensors,28-way spring removable terminal	SCHNEIDER ELECTRIC	BMX AMI 0810H
		AMO1	24	HARD 4 CHANNELS ISOLATED ANALOG OUTPUTS MODULE, 10V 0-20mA 4-20mA, 28-way spring terminal block	SCHNEIDER ELECTRIC	BMX AMO 0410H
		AP1R0	24	HARH 12 SLOTS RACK	SCHNEIDER ELECTRIC	BMX XBP 1200H
			24	SHIELD KIT Size1 WIRE CLAMP for 5...11 mm² cable	SCHNEIDER ELECTRIC	STB XSP 3020
			24	12 SLOTS SHIELD KIT	SCHNEIDER ELECTRIC	BMX XSP 1200
		ART1	24	HARSH 4 ISOLATED CHANNELS ANALOG INPUTS for Thermosensors and Thermocouples, Connector 40 pins	SCHNEIDER ELECTRIC	BMX ART 0414H
		CPS1	24	HARD 24VDC ISOLATED POWER SUPPLY MODULE, 24/48VDC, 3.3VDC 4.5A, 24VDC 1.3A	SCHNEIDER ELECTRIC	BMX CPS 3020H
		CPU1	24	HARD 4096K RAM Processor Module, 10BASE-T/100BASE-TX (RJ45) ,Serial Port, USB Port	SCHNEIDER ELECTRIC	BMX P34 2020H
			24	128 MB Memory Card	SCHNEIDER ELECTRIC	BMX RMS 128MPF
		DDI1	24	24VDC 64 Channels DIGITAL INPUTS MODULE, two Connectors 40 pins	SCHNEIDER ELECTRIC	BMX DDI 6402K
		DDI2	24	24VDC 64 Channels DIGITAL INPUTS MODULE, two Connectors 40 pins	SCHNEIDER ELECTRIC	BMX DDI 6402K
		DDO1	24	24VDC 0.1A 64 Channels DIGITAL OUPUTS MODULE, two Connectors 40 pins	SCHNEIDER ELECTRIC	BMX DDO 6402K
		EARTHING HARNESS	15	H07VK EARTHING HARNESS INT21	COMMATEL	EAV69987
			15	H07VK EARTHING HARNESS INT22	COMMATEL	EAV69988
			15	H07VK EARTHING HARNESS INT31	COMMATEL	EAV69989
			15	H07VK EARTHING HARNESS INT41	COMMATEL	EAV69990
			15	H07VK EARTHING HARNESS U1	COMMATEL	EAV51269
			15	H07VK EARTHING HARNESS U2	COMMATEL	EAV69970
			15	H07VK EARTHING HARNESS Z1	COMMATEL	EAV51862
		F1	49	PROTECTIVE PLUG PT,2-core floating signal circuit protective circuit, In:10kA (8/20)-Uc:28VDC	PHOENIX CONTACT	2856032
			49	BASE ELEMENT FOR SURGE PROTECTION PLUG (protective circuit for a 2-core floating signal circuit)	PHOENIX CONTACT	2856113
		F2	49	PROTECTIVE PLUG PT,2-core floating signal circuit protective circuit, In:10kA (8/20)-Uc:28VDC	PHOENIX CONTACT	2856032
			49	BASE ELEMENT FOR SURGE PROTECTION PLUG (protective circuit for a 2-core floating signal circuit)	PHOENIX CONTACT	2856113
		F3	49	PROTECTIVE PLUG PT,2-core floating signal circuit protective circuit, In:10kA (8/20)-Uc:28VDC	PHOENIX CONTACT	2856032
			49	BASE ELEMENT FOR SURGE PROTECTION PLUG (protective circuit for a 2-core floating signal circuit)	PHOENIX CONTACT	2856113
		F4	49	PROTECTIVE PLUG PT,2-core floating signal circuit protective circuit, In:10kA (8/20)-Uc:28VDC	PHOENIX CONTACT	2856032
			49	BASE ELEMENT FOR SURGE PROTECTION PLUG (protective circuit for a 2-core floating signal circuit)	PHOENIX CONTACT	2856113
		F5	50	PROTECTIVE PLUG PT,2-core floating signal circuit protective circuit, In:10kA (8/20)-Uc:28VDC	PHOENIX CONTACT	2856032
			50	BASE ELEMENT FOR SURGE PROTECTION PLUG (protective circuit for a 2-core floating signal circuit)	PHOENIX CONTACT	2856113
		F6	53	PROTECTIVE PLUG PT, 4-core floating signal circuit protective circuit, In:10kA (8/20)-Uc:27VDC	PHOENIX CONTACT	2839240
			53	BASE ELEMENT FOR PROTECTIVE PLUG PT (4-core floating signal circuit protective circuit)	PHOENIX CONTACT	2839402
		H1	18	ELECTRONIC HYGROTHERM, HUMIDITY RANGE : 10-95%RH, SUPPLY VOLTAGE : 240VAC - 50/60Hz	SCHNEIDER ELECTRIC	NSYCCOHYT230VID
		INT1	25	PASSIVE INSULATED 16 CHANNELS DIGITAL I/O CONNECTION SUB-BASE, HE10 20 pins	SCHNEIDER ELECTRIC	ABE 7H16S21
		INT2	27	PASSIVE INSULATED 16 CHANNELS DIGITAL I/O CONNECTION SUB-BASE, HE10 20 pins	SCHNEIDER ELECTRIC	ABE 7H16S21
		INT3	29	PASSIVE INSULATED 16 CHANNELS DIGITAL I/O CONNECTION SUB-BASE, HE10 20 pins	SCHNEIDER ELECTRIC	ABE 7H16S21
		INT4	31	PASSIVE INSULATED 16 CHANNELS DIGITAL I/O CONNECTION SUB-BASE, HE10 20 pins	SCHNEIDER ELECTRIC	ABE 7H16S21
		INT5	33	PASSIVE INSULATED 16 CHANNELS DIGITAL I/O CONNECTION SUB-BASE, HE10 20 pins	SCHNEIDER ELECTRIC	ABE 7H16S21
		INT6	35	PASSIVE INSULATED 16 CHANNELS DIGITAL I/O CONNECTION SUB-BASE, HE10 20 pins	SCHNEIDER ELECTRIC	ABE 7H16S21
		INT7	37	PASSIVE INSULATED 16 CHANNELS DIGITAL I/O CONNECTION SUB-BASE, HE10 20 pins	SCHNEIDER ELECTRIC	ABE 7H16S21
		INT8	39	PASSIVE INSULATED 16 CHANNELS DIGITAL I/O CONNECTION SUB-BASE, HE10 20 pins	SCHNEIDER ELECTRIC	ABE 7H16S21
		INT9	41	16 CHANNELS 5A ELECTROMECHANICAL RELAY OUTPUT CONNECTION SUB-BASE, HE10 20 pins, fixed relays	SCHNEIDER ELECTRIC	ABE 7R16S210
		INT10	43	16 CHANNELS 5A ELECTROMECHANICAL RELAY OUTPUT CONNECTION SUB-BASE, HE10 20 pins, fixed relays	SCHNEIDER ELECTRIC	ABE 7R16S210

Ind. (Rev)	Date	Modification / Modification	Archiv. (Micro-filmed)	Ind. (Rev)	Date	Modification / Modification	Archiv. (Micro-filmed)
00	17/03/2014	Edition originale / First issue					

EQUIPMENT LIST

GRID MONITORING CONTROL CAB. (GRID MCC) ADVANCED 6 FEEDERS

Schneider Electric

Released for Manufacturing
Printed on 2014/03/19

EAV5829303

Projet - No commande / Project - Order No. — Indice / Rev: 00 — Folio / Sheet: 500

Localisation (Location)	Installation (Function)	Repère (Tag)	Page (Sheet)	Designation	Fabricant (Manufacturer)	Ref. fabricant (Manufacturer Ref.)
		INT11	45	SUB-BASE WITH ELECTROMECHANICAL RELAYS 16 CHANNELS, HE10 20 pins,plug-in relays	SCHNEIDER ELECTRIC	ABE 7R16T330
		INT12	47	SUB-BASE WITH ELECTROMECHANICAL RELAYS 16 CHANNELS, HE10 20 pins,plug-in relays	SCHNEIDER ELECTRIC	ABE 7R16T330
		INT21	49	8 CHANNELS ANALOG CONNECTION SUB-BASE 8E±10V,0-10V,0-5V,1-5V,±5V,0-20mA,4-20mA,±20mA sensors,25ways Sub-D Conn	SCHNEIDER ELECTRIC	ABE 7CPA02
		INT22	51	8 CHANNELS ANALOG CONNECTION SUB-BASE 8E±10V,0-10V,0-5V,1-5V,±5V,0-20mA,4-20mA,±20mA sensors,25ways Sub-D Conn	SCHNEIDER ELECTRIC	ABE 7CPA02
		INT31	53	4 CHANNELS SUB-BASE ANALOG CONNECTION FOR THERMOCOUPLES AND THERMOSENSORS, D SUB 25 pins	SCHNEIDER ELECTRIC	ABE 7CPA412
			53	2 POLES GREY TERMINAL BLOCK INSERTION BRIDGE EB 2-10, 10.16 mm pitch	PHOENIX CONTACT	0203153
		INT41	54	4 CHANNELS CONNEXION SUB-BASE CURRENTS/VOLTAGE OUTPUTS, 25 ways SUB-D Connector	SCHNEIDER ELECTRIC	ABE 7CPA21
		NOE1	24	HARSH 10/100Mbit/s ETHERNET TCP/IP NETWORK MODULE, 10Base-TX/100Base-TX (RJ45) port	SCHNEIDER ELECTRIC	BMX NOE 0110H
		NOM1	24	HARSH RS485 MODBUS SERIAL MODULE, 2 RJ45 Ports	SCHNEIDER ELECTRIC	BMX NOM 0200H
		NOM2	24	HARSH RS485 MODBUS SERIAL MODULE, 2 RJ45 Ports	SCHNEIDER ELECTRIC	BMX NOM 0200H
		NOR1	24	HARSH RTU COMMUNICATION MODULE,10Base-TX/100Base-TX Port (RJ45), Serial Port (RJ45)	SCHNEIDER ELECTRIC	BMX NOR 0200H
		Q1	15	iSW SWITCH-DISCONNECTOR 415V AC/DC 2P 40A	SCHNEIDER ELECTRIC	A9S60240
		Q2	16	MINIATURE CIRCUIT BREAKER FOR DC VOLTAGE C60H-DC 2 POLES 3A	SCHNEIDER ELECTRIC	A9N61523
		Q3	16	MINIATURE CIRCUIT BREAKER FOR DC VOLTAGE C60H-DC 2 POLES 2A	SCHNEIDER ELECTRIC	A9N61522
		Q4	16	MINIATURE CIRCUIT BREAKER FOR DC VOLTAGE C60H-DC 2 POLES 2A	SCHNEIDER ELECTRIC	A9N61522
		Q5	16	MINIATURE CIRCUIT BREAKER FOR DC VOLTAGE C60H-DC 2 POLES 2A	SCHNEIDER ELECTRIC	A9N61522
		Q8	18	iC60N CIRCUIT-BREAKER 2P 3A, 440VAC/25kA 133VDC/6kA, CURVE D	SCHNEIDER ELECTRIC	A9F75203
		R1	18	INSULATED RESISTANCE HEATER WITH FAN, NOMINAL POWER : 170W - NOMINAL VOLTAGE : 230VAC	SCHNEIDER ELECTRIC	NSYCR170W230VVC
		S1	46	BLACK SELECTOR SWITCH d=22 HANDLE 2 POSITIONS , 1NO	SCHNEIDER ELECTRIC	XB4BD21
			46	CONTACT 1NO	SCHNEIDER ELECTRIC	ZBE101
		U1	20	SWITCH ETHERNET 14 PORTS 10/100 TX ET 2 PORTS 100 FX-MM (Multi-Mode Fiber)	SCHNEIDER ELECTRIC	TCSESM163F2CU0
		U2	21	RS485 MODBUS RTU ISOLATED DEVICE, Screw Terminal Block, RJ45 Ports	SCHNEIDER ELECTRIC	TWD XCA ISO
		WET001	20	HARNESS of 3 S/FTP Cat6A SHIELDED ETHERNET AP1R0 à U1 CORDS, 4-Twisted Pair, Gray LSZH sheath, RJ45 Connectors	COMMATEL	EAV69991
		WET002	20	HARNESS of 3 S/FTP Cat6A SHIELDED ETHERNET AP1R0 à U1 CORDS, 4-Twisted Pair, Gray LSZH sheath, RJ45 Connectors	COMMATEL	EAV69991
		WET003	20	HARNESS of 3 S/FTP Cat6A SHIELDED ETHERNET AP1R0 à U1 CORDS, 4-Twisted Pair, Gray LSZH sheath, RJ45 Connectors	COMMATEL	EAV69991
		WINT1	25	PRE-FORMED CONNECTING CORD FOR DIGITAL I/O BMX* MODULE, Connectors FCN 40pins and 2xHE10 20pins	SCHNEIDER ELECTRIC	BMX FCC 103
		WINT2	29	PRE-FORMED CONNECTING CORD FOR DIGITAL I/O BMX* MODULE, Connectors FCN 40pins and 2xHE10 20pins	SCHNEIDER ELECTRIC	BMX FCC 203
		WINT3	33	PRE-FORMED CONNECTING CORD FOR DIGITAL I/O BMX* MODULE, Connectors FCN 40pins and 2xHE10 20pins	SCHNEIDER ELECTRIC	BMX FCC 203
		WINT4	37	PRE-FORMED CONNECTING CORD FOR DIGITAL I/O BMX* MODULE, Connectors FCN 40pins and 2xHE10 20pins	SCHNEIDER ELECTRIC	BMX FCC 203
		WINT5	41	PRE-FORMED CONNECTING CORD FOR DIGITAL I/O BMX* MODULE, Connectors FCN 40pins and 2xHE10 20pins	SCHNEIDER ELECTRIC	BMX FCC 103
		WINT6	45	PRE-FORMED CONNECTING CORD FOR DIGITAL I/O BMX* MODULE, Connectors FCN 40pins and 2xHE10 20pins	SCHNEIDER ELECTRIC	BMX FCC 203
		WINT21	49	PRE-FORMED CONNEXION CORD FOR ANALOG BMX AMO or AMI 08*0, 28-way terminal block and 25 way SUD-D connector	SCHNEIDER ELECTRIC	BMX FTA300
		WINT22	51	PRE-FORMED CONNEXION CORD FOR ANALOG BMX AMO or AMI 08*0, 28-way terminal block and 25 way SUD-D connector	SCHNEIDER ELECTRIC	BMX FTA300
		WINT31	53	PRE-FORMED CONNECTING CORD FOR ANALOG BMX ART * MODULE, Connectors FCN 40pins and D Sub 25pins	SCHNEIDER ELECTRIC	BMX FCA152
		WINT41	54	PRE-FORMED CONNEXION CORD FOR ANALOG BMX AMO or AMI 08*0, 28-way terminal block and 25 way SUD-D connector	SCHNEIDER ELECTRIC	BMX FCA300
		WM001	21	HARNESS OF 5 OUTER BRAIDED SHIELD RS485 MODBUS CORDS, CLASS 6A S/FTP, Tierce 0.34², RJ45 Connector	COMMATEL	EAV69992
		WM002	22	HARNESS OF 5 OUTER BRAIDED SHIELD RS485 MODBUS CORDS, CLASS 6A S/FTP, Tierce 0.34², RJ45 Connector	COMMATEL	EAV69992
		WM003	22	HARNESS OF 5 OUTER BRAIDED SHIELD RS485 MODBUS CORDS, CLASS 6A S/FTP, Tierce 0.34², RJ45 Connector	COMMATEL	EAV69992
		WM004	23	HARNESS OF 5 OUTER BRAIDED SHIELD RS485 MODBUS CORDS, CLASS 6A S/FTP, Tierce 0.34², RJ45 Connector	COMMATEL	EAV69992
		WM005	23	HARNESS OF 5 OUTER BRAIDED SHIELD RS485 MODBUS CORDS, CLASS 6A S/FTP, Tierce 0.34², RJ45 Connector	COMMATEL	EAV69992
		WO001	19	MULTIMOD 50/125µm 2.8mm ZIPCORD CORD, SC-PC/SC-PC Connectors, GREY, 2m	FOLAN	502102221N
		WO002	19	MULTIMOD 50/125µm 2.8mm ZIPCORD CORD, SC-PC/SC-PC Connectors, GREY, 2m	FOLAN	502102221N
		X2	150	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
		X3	151	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
		X4	152	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
		X5	16	CUTTABLE COMB BUSBAR 2P 100A 12 MODULES	SCHNEIDER ELECTRIC	A9XPH212
			16	SET OF 4 CONNECTORS, 100A monoconnect	SCHNEIDER ELECTRIC	A9XPCM04
			16	COMB BUSBAR SIDE COVER	SCHNEIDER ELECTRIC	A9XPE210
		X10	153	2 Points TERMINAL ARISES PE, 2.5mm2, Yellow-Green	SCHNEIDER ELECTRIC	NSYTRR22PE
		X11	154	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24

Ind. (Rev)	Date	Modification	Archiv. (Micro-filmed)	Ind. (Rev)	Date	Modification	Archiv. (Micro-filmed)
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Printed on 2014/03/19

EAV5829303

Projet - No commande (Project - Order No.) | Indice (Rev) 00 | Folio (Sheet) 501

Nom composant / Component name Localisation / Location	Installation / Function	Repère / Tag	Page / Sheet	Designation	Fabricant / Manufacturer	Ref. fabricant / Manufacturer Ref.
		X21	155	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
				INSULATED BRIDGE TERMINAL BLOCKS, 2 Poles, Red	SCHNEIDER ELECTRIC	NSYTRAL22
		X22	156	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
		X23	157	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
		X24	158	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
		X25	159	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
		X26	160	4 Points TERMINAL ARISES, 2.5mm2 , Grey	SCHNEIDER ELECTRIC	NSYTRR24
		X51	161	2 Points TERMINAL ARISES, 1.5mm², Grey	PHOENIX CONTACT	3031076
		X52	162	2 Points TERMINAL ARISES, 1.5mm², Grey	PHOENIX CONTACT	3031076
		X53	163	2 Points TERMINAL ARISES, 1.5mm², Grey	PHOENIX CONTACT	3031076
		X54	164	2 Points TERMINAL ARISES, 1.5mm², Grey	PHOENIX CONTACT	3031076
		XFO1	19	MALAGA BOX 8SC, 5 harness grommets	FOLAN	621131001
			19	MOUNTED SC-PC MULTIMOD FITTING	FOLAN	211011023
			19	8 SPLICES BOX	FOLAN	359031021
			19	MOUNTED MULTIMOD PIGTAILS 50/125µm 2.8mm, SC-PC Connector, yellow, 1m	FOLAN	511102063N
		Z1	15	EMI FILTER, Rated Current 6A	SCHAFFNER	FN 2090-6-06

Ind. / Rev	Date / Date	Modification / Modification	Archiv. Micro-filmed	Ind. / Rev	Date / Date	Modification / Modification	Archiv. Micro-filmed
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EAV5829303

Projet - No commande / Project - Order No.	Indice / Rev	Folio / Sheet
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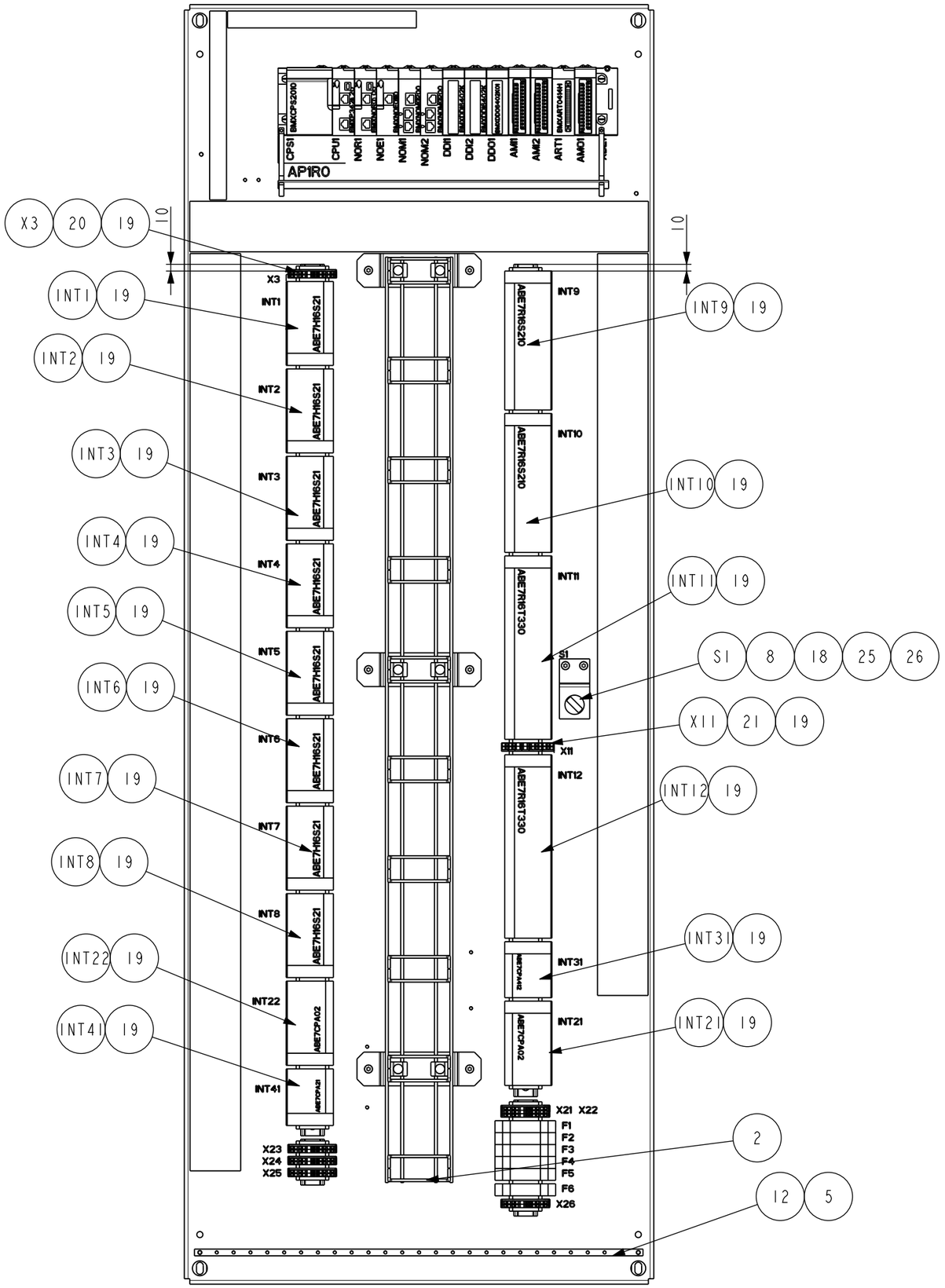
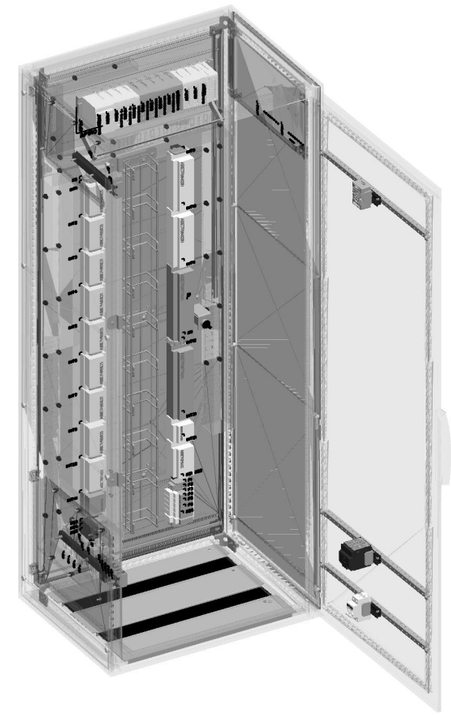
A3 suite - 11/2006





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	Number: EAV5831602	Revision: 00	Sheet: 1/5

State: Creation
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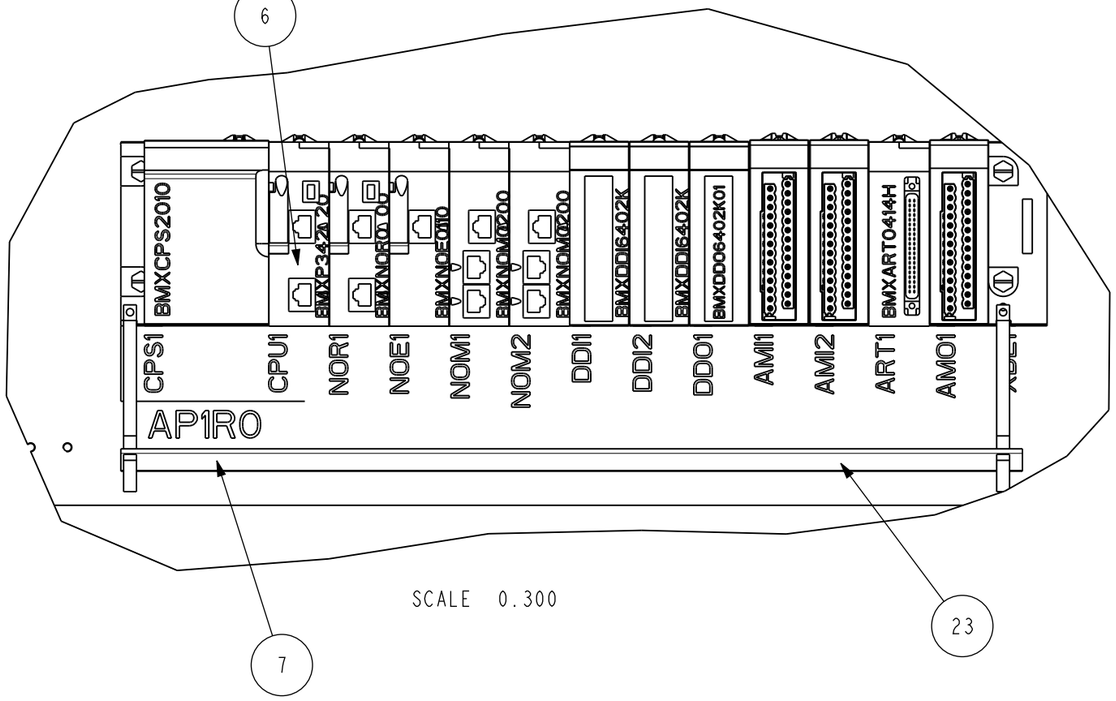
Original format A3



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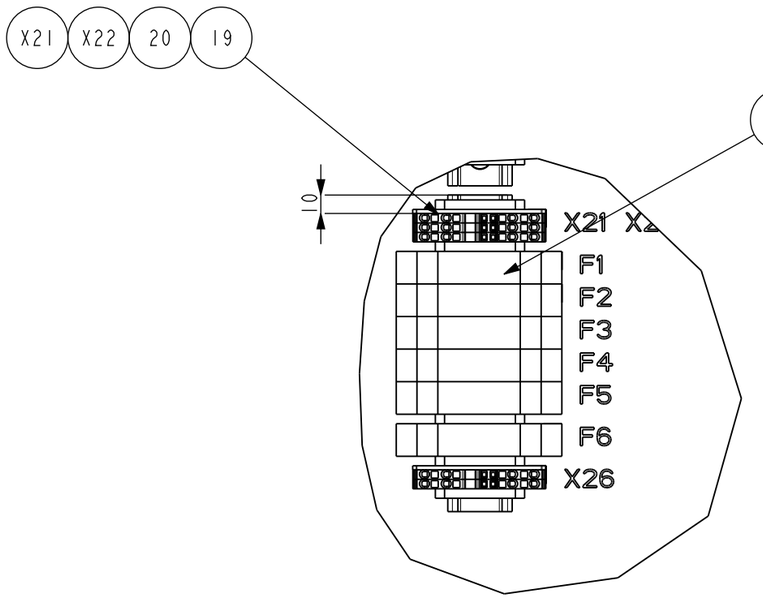

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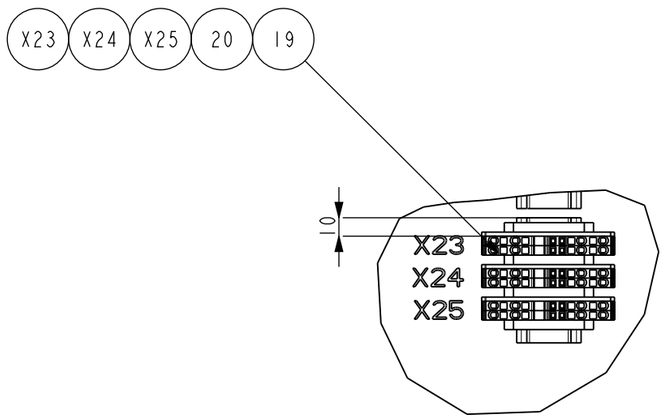

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	Number: EAV5831602	Revision: 00	Sheet: 2/5
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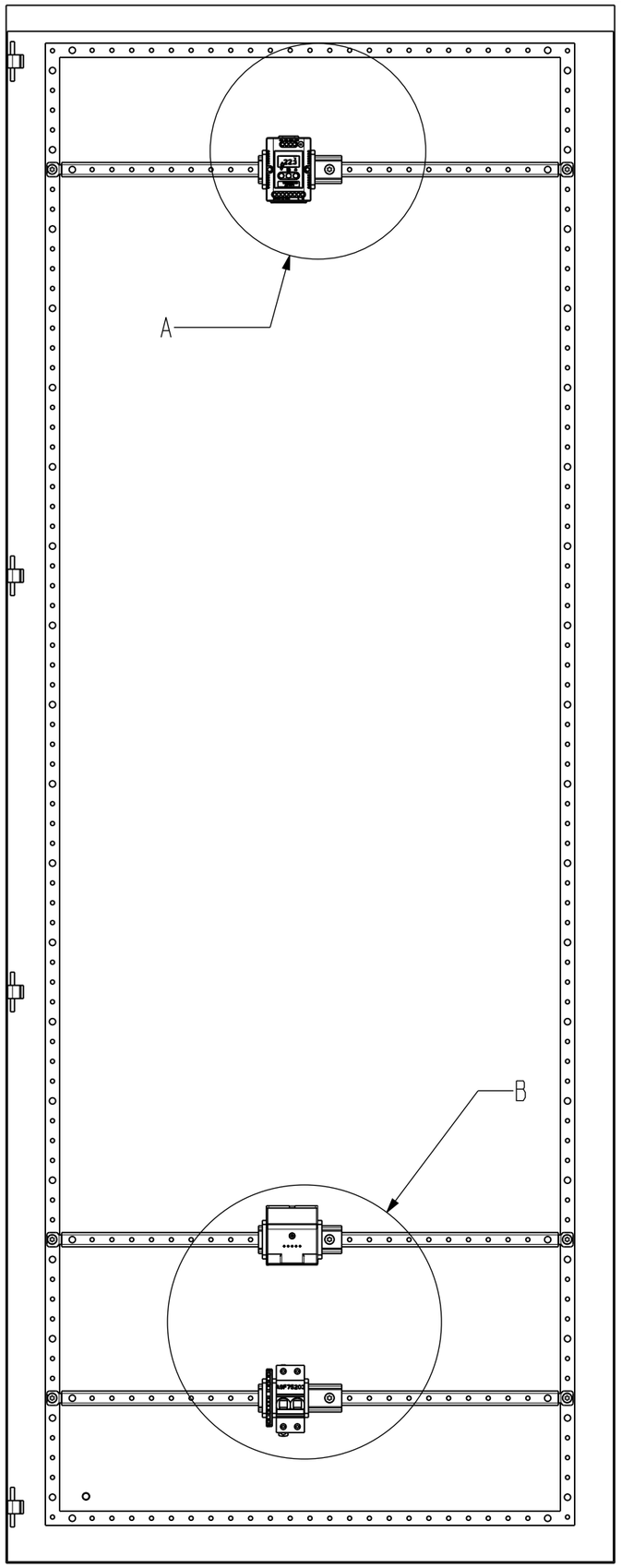

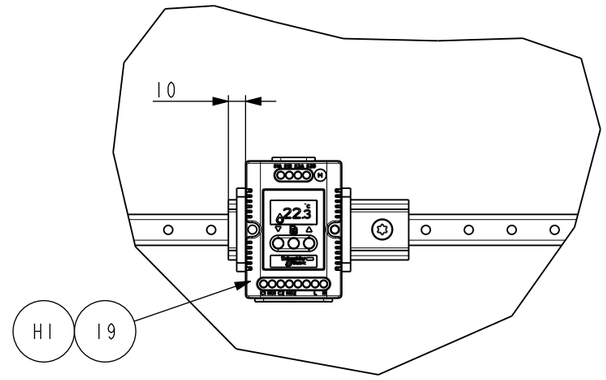

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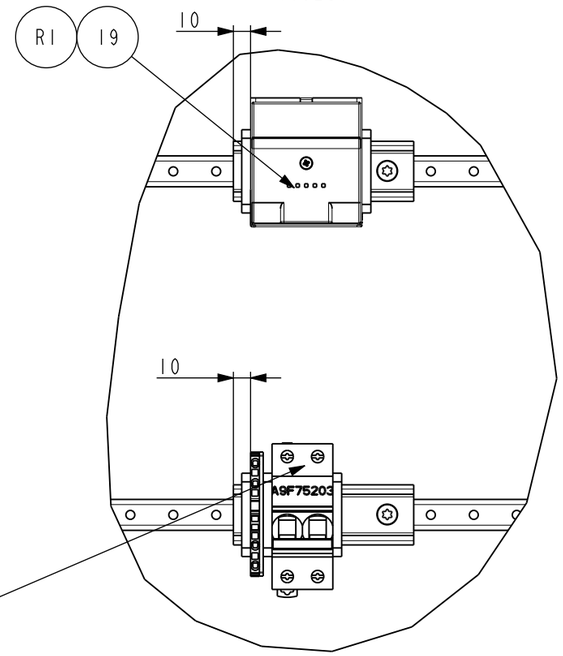

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	Number: EAV5831602	Revision: 00	Sheet: 3/5
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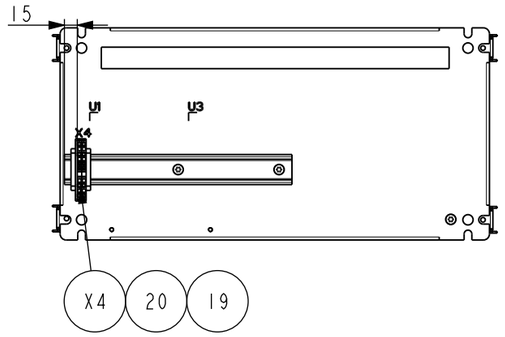

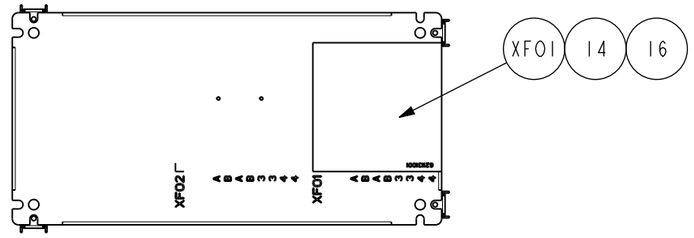

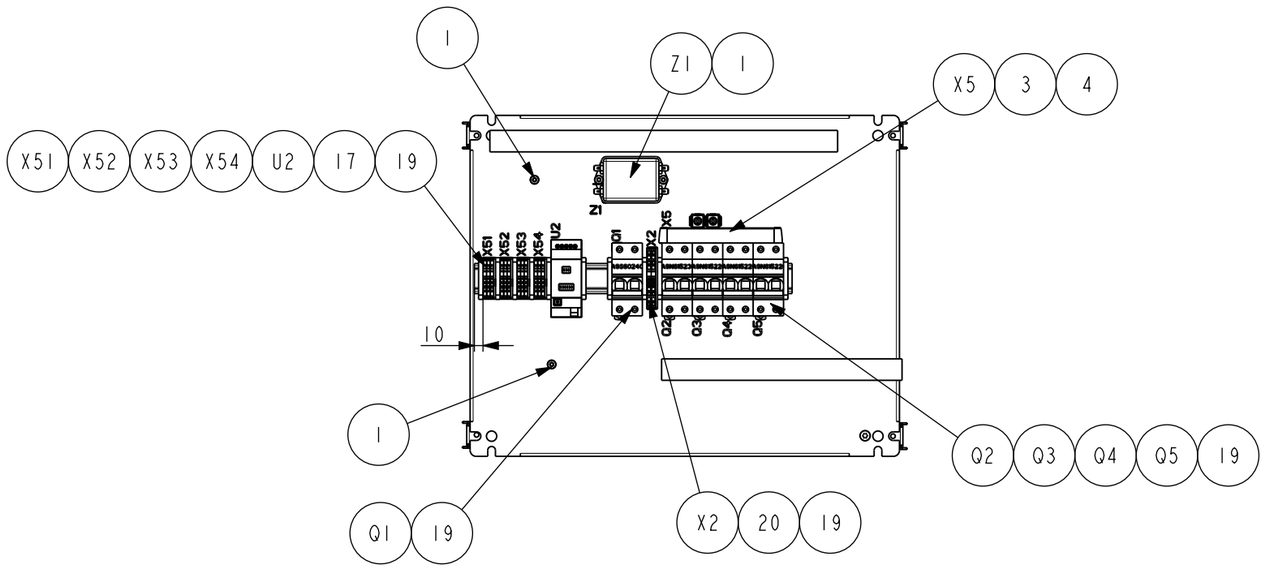

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Number: EAV5831602

Revision: 00

Sheet: 4/5

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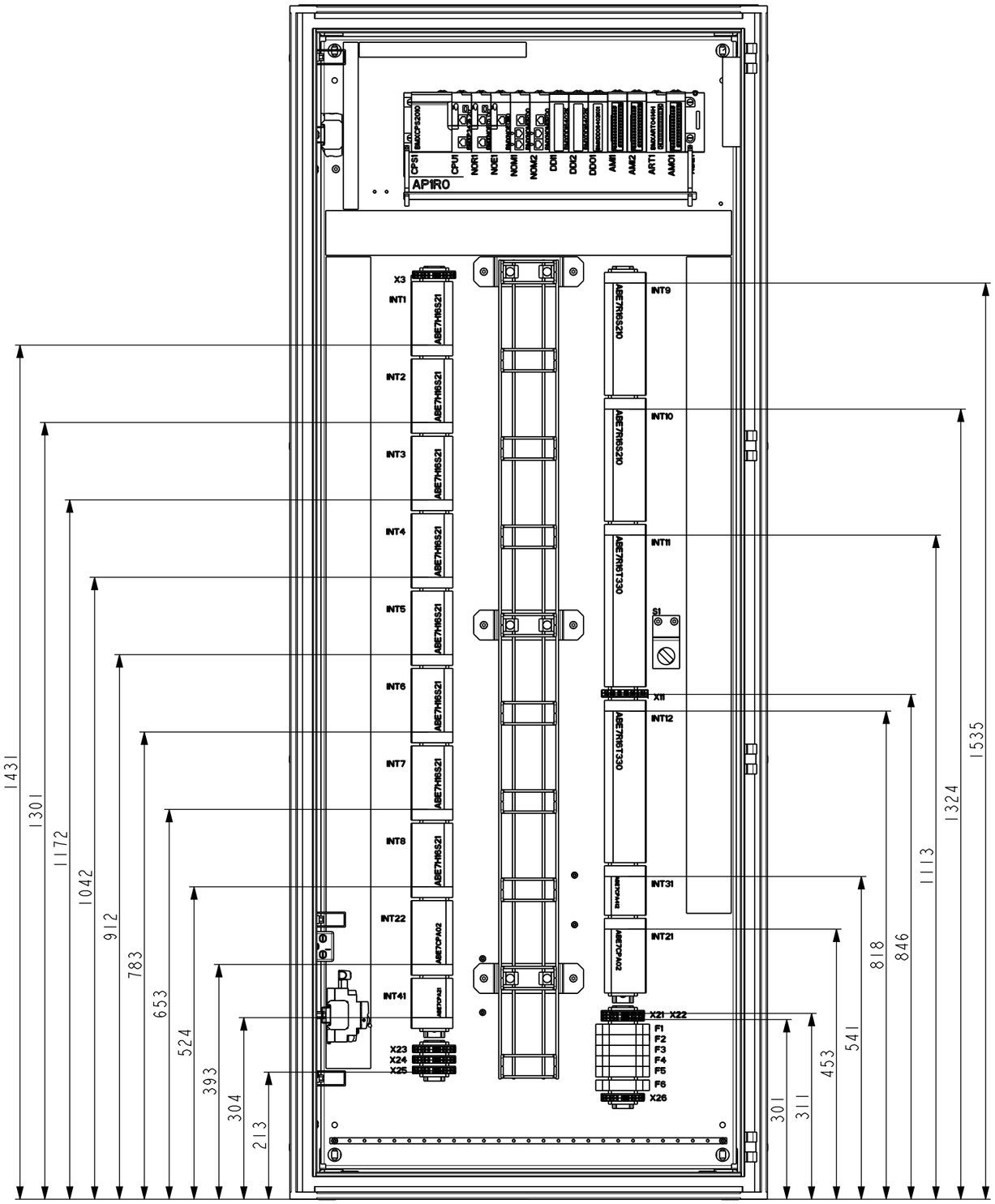

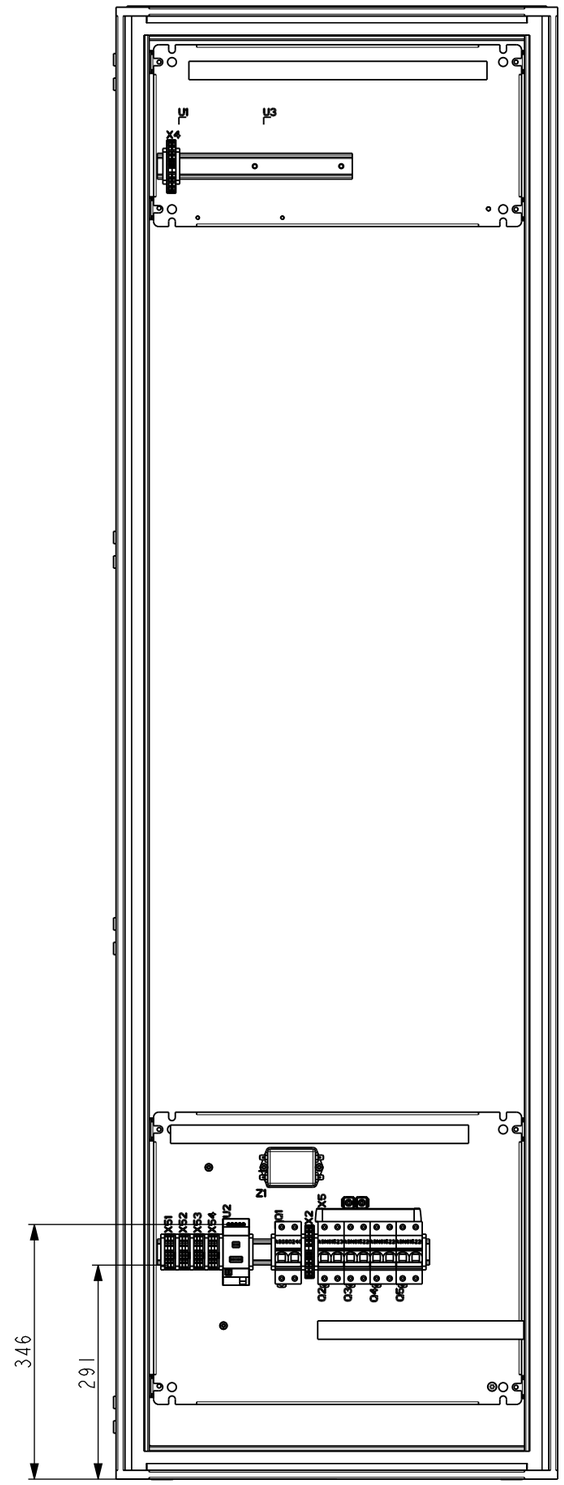

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