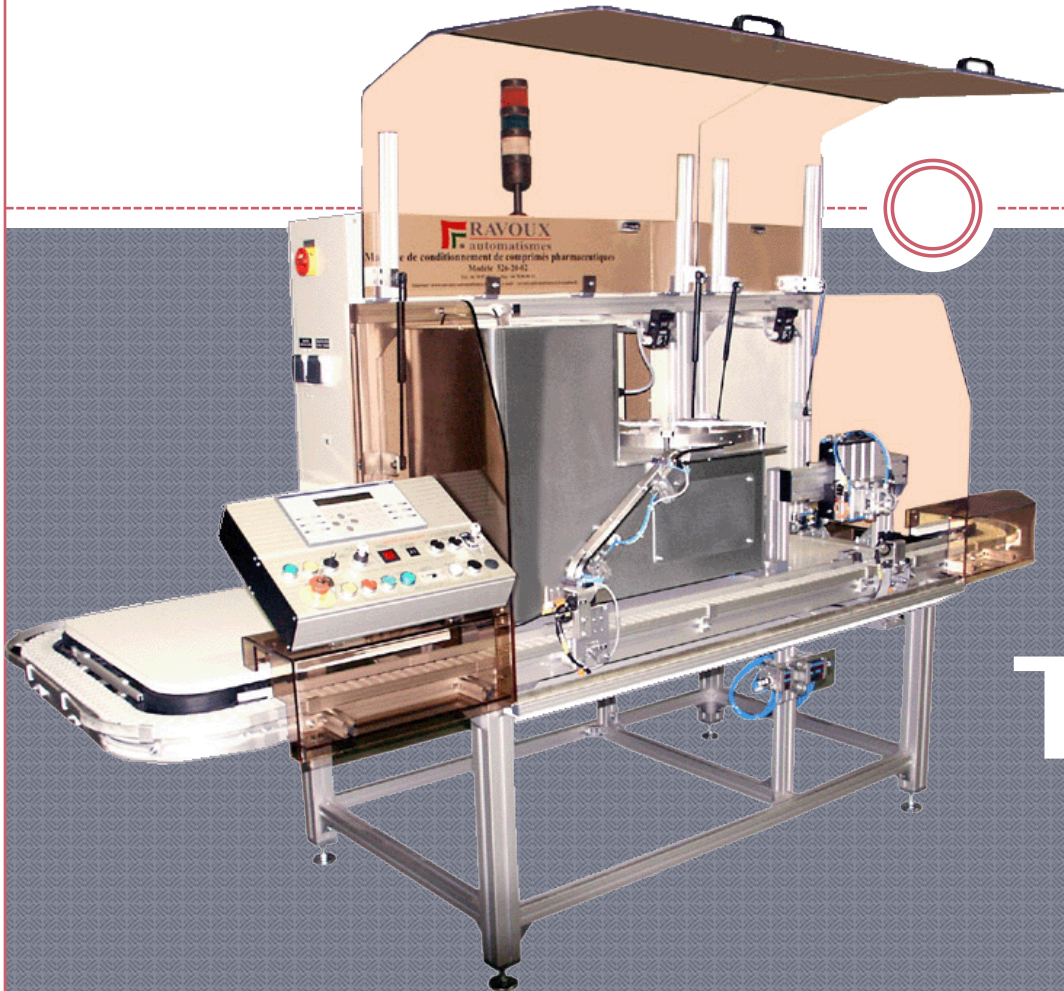
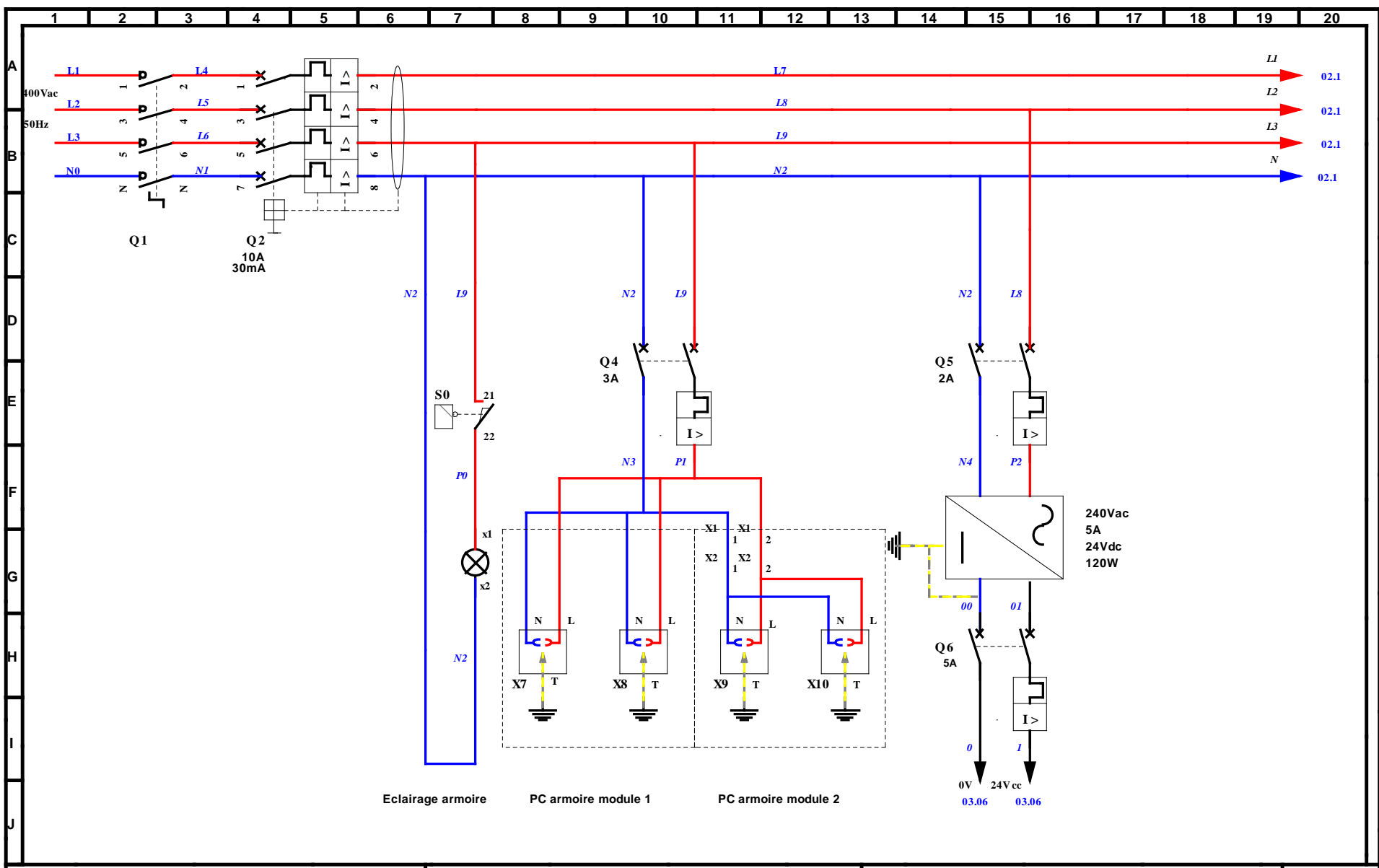


RAVOUX



Dossier Technique

Schémas ELECTRIQUE

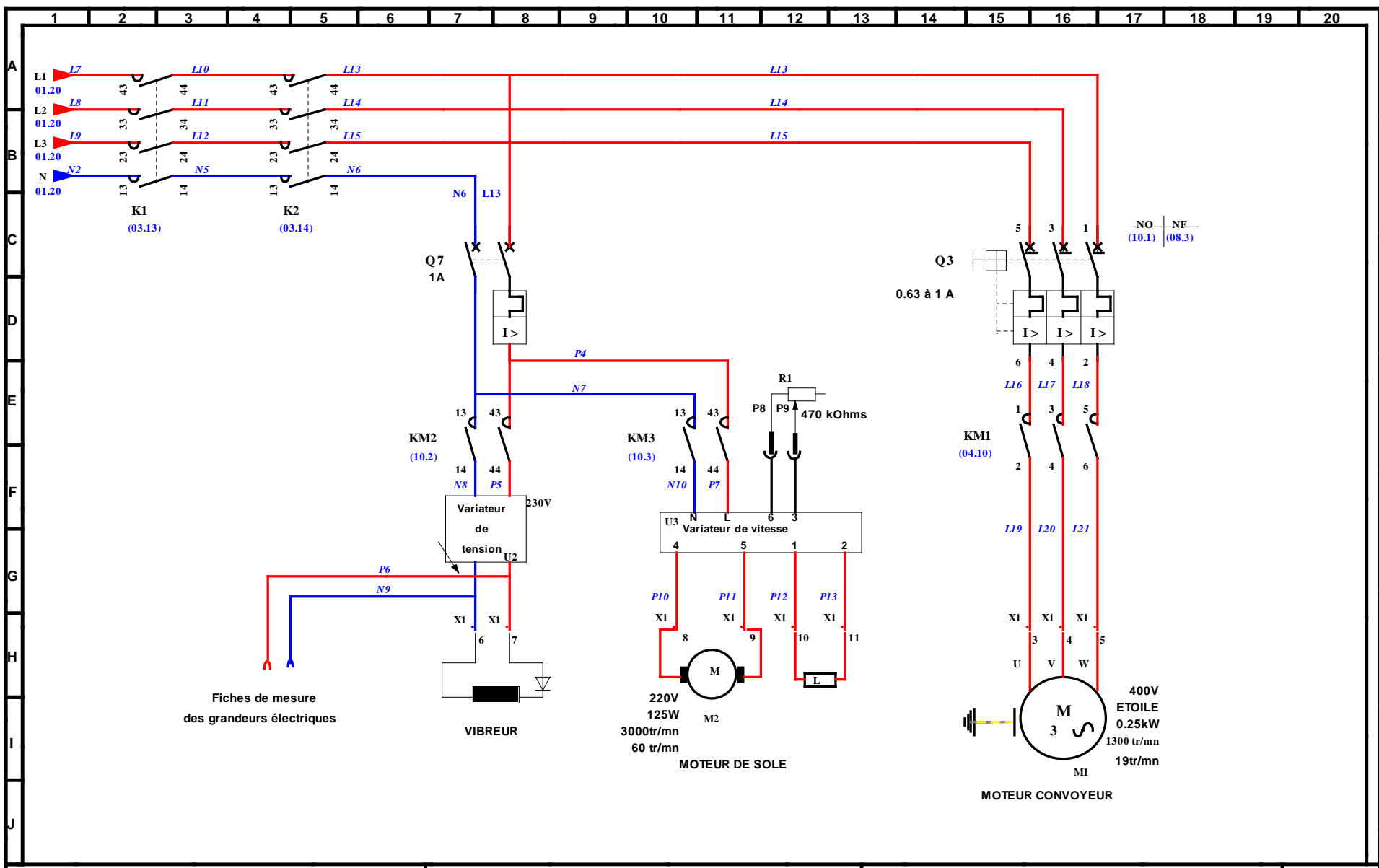


RAVOUX

PILLULIER

PUISSANCE

FOLIO
1

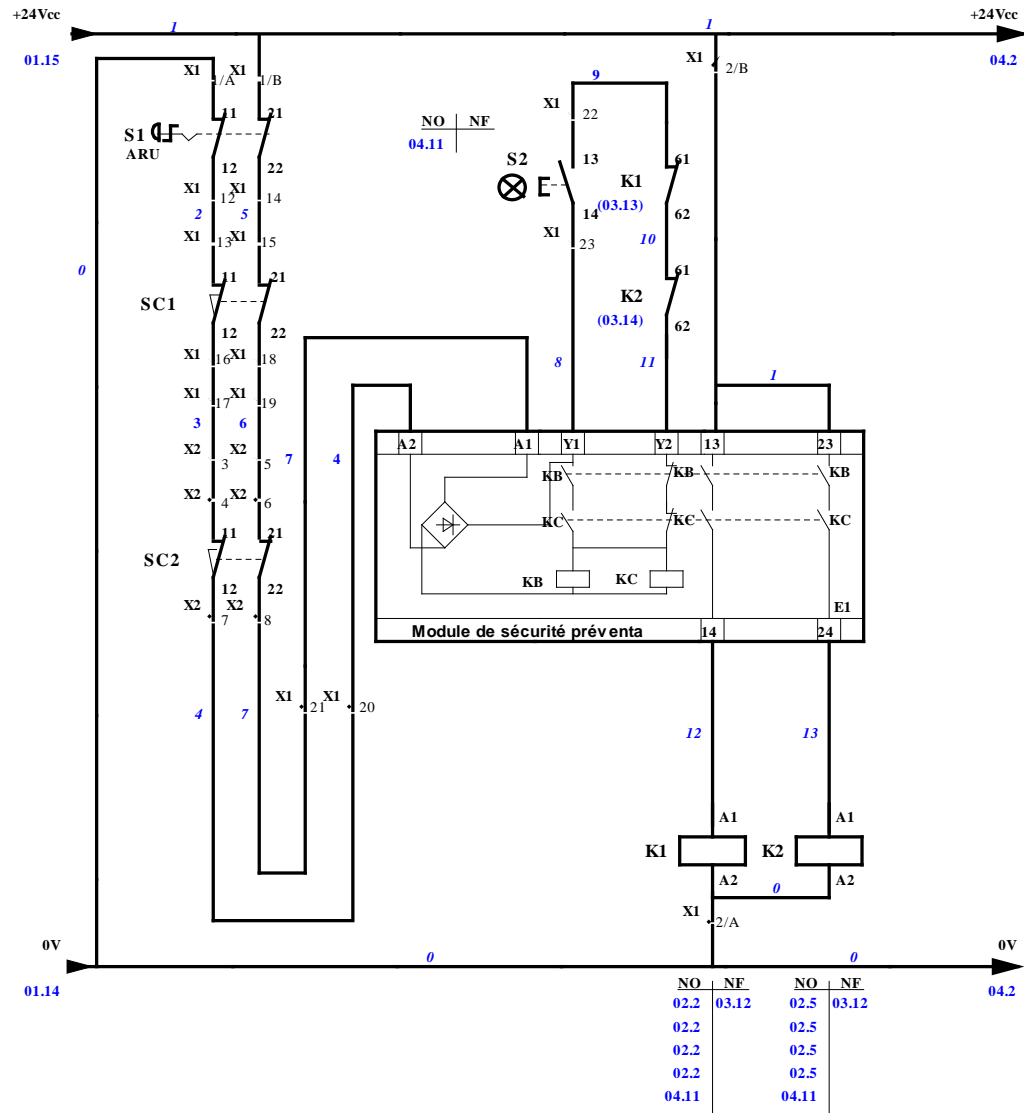


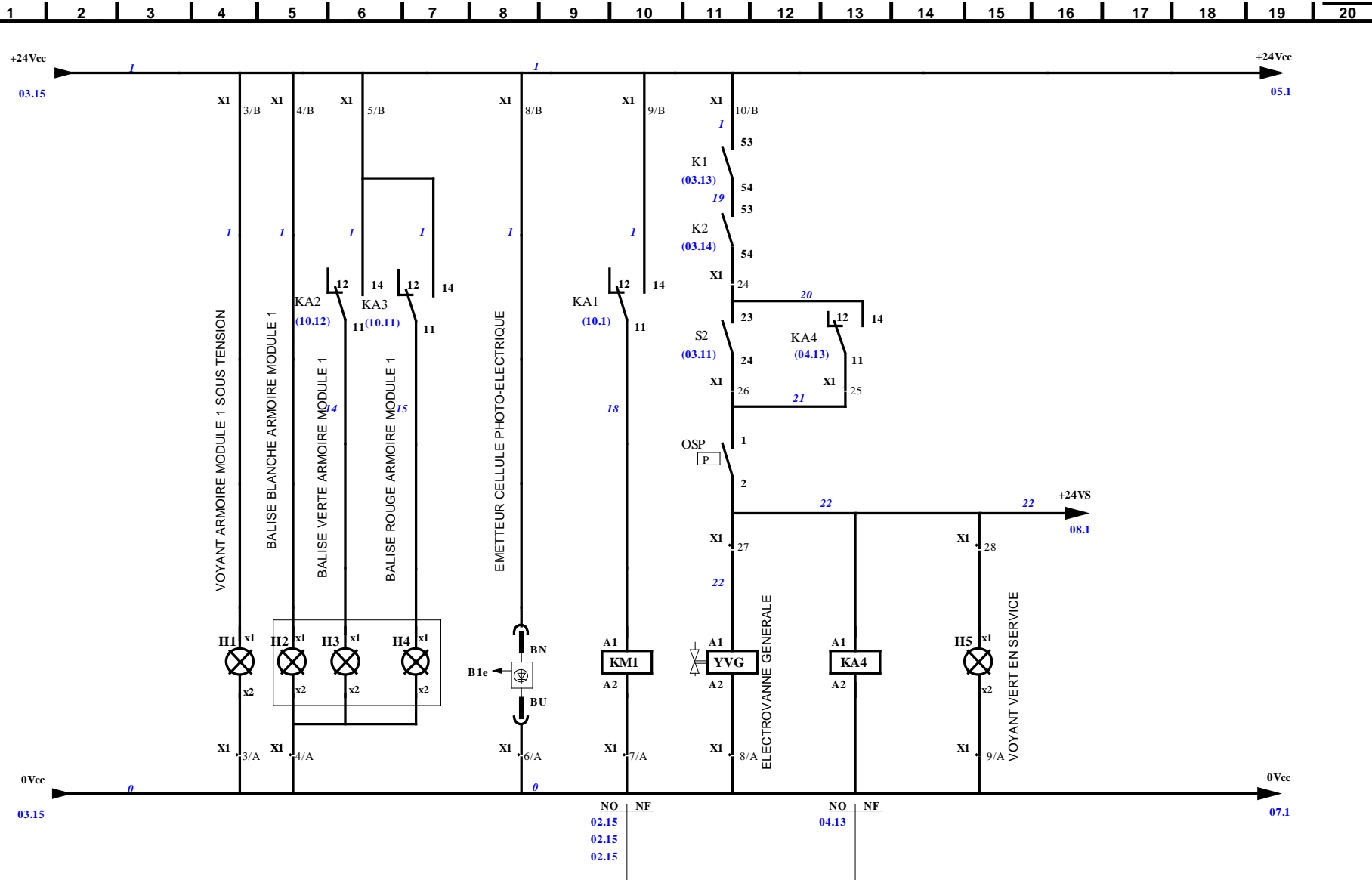
RAVOUX

PILLULIER

Variation sole & vibreur

FOLIO
2



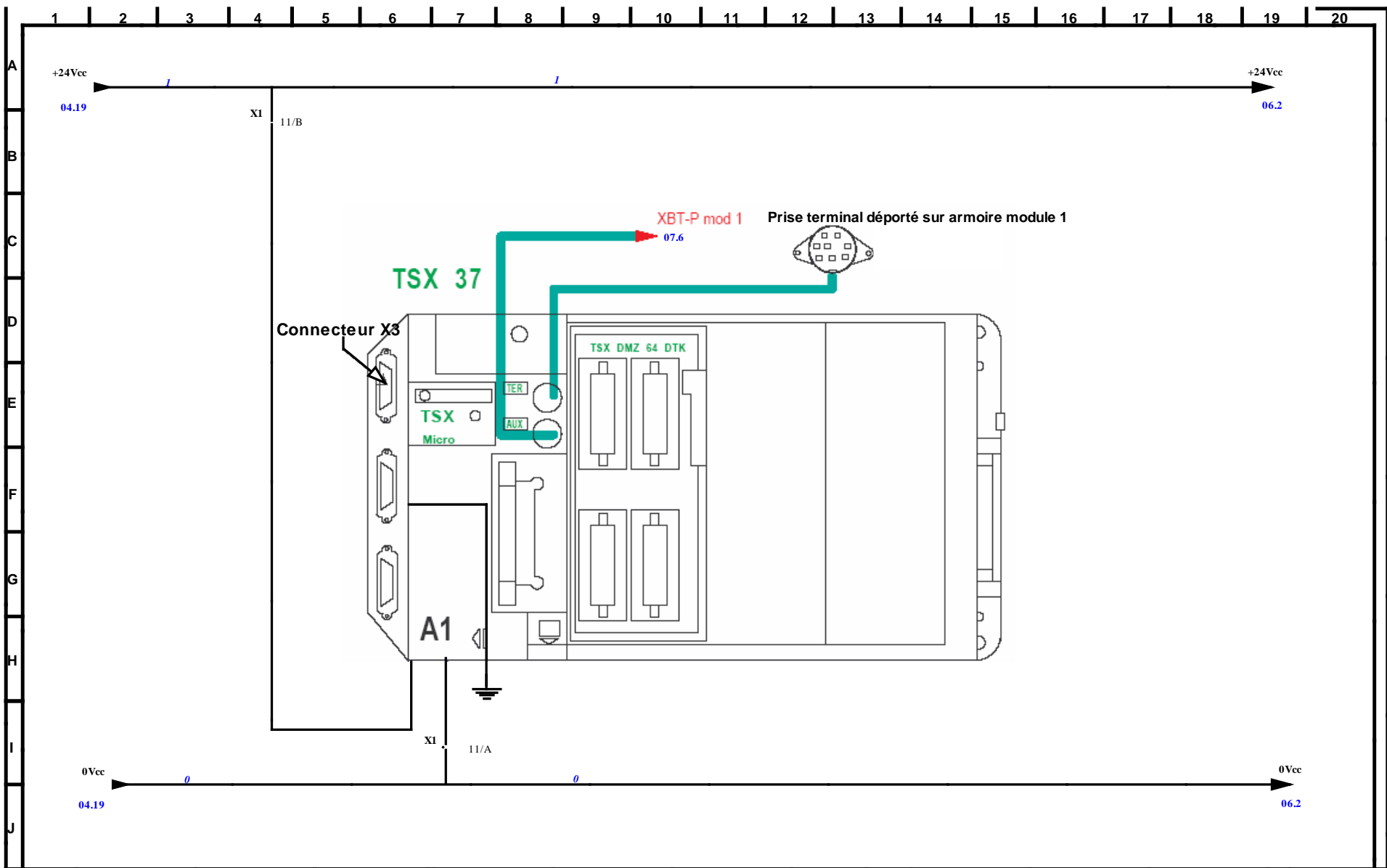


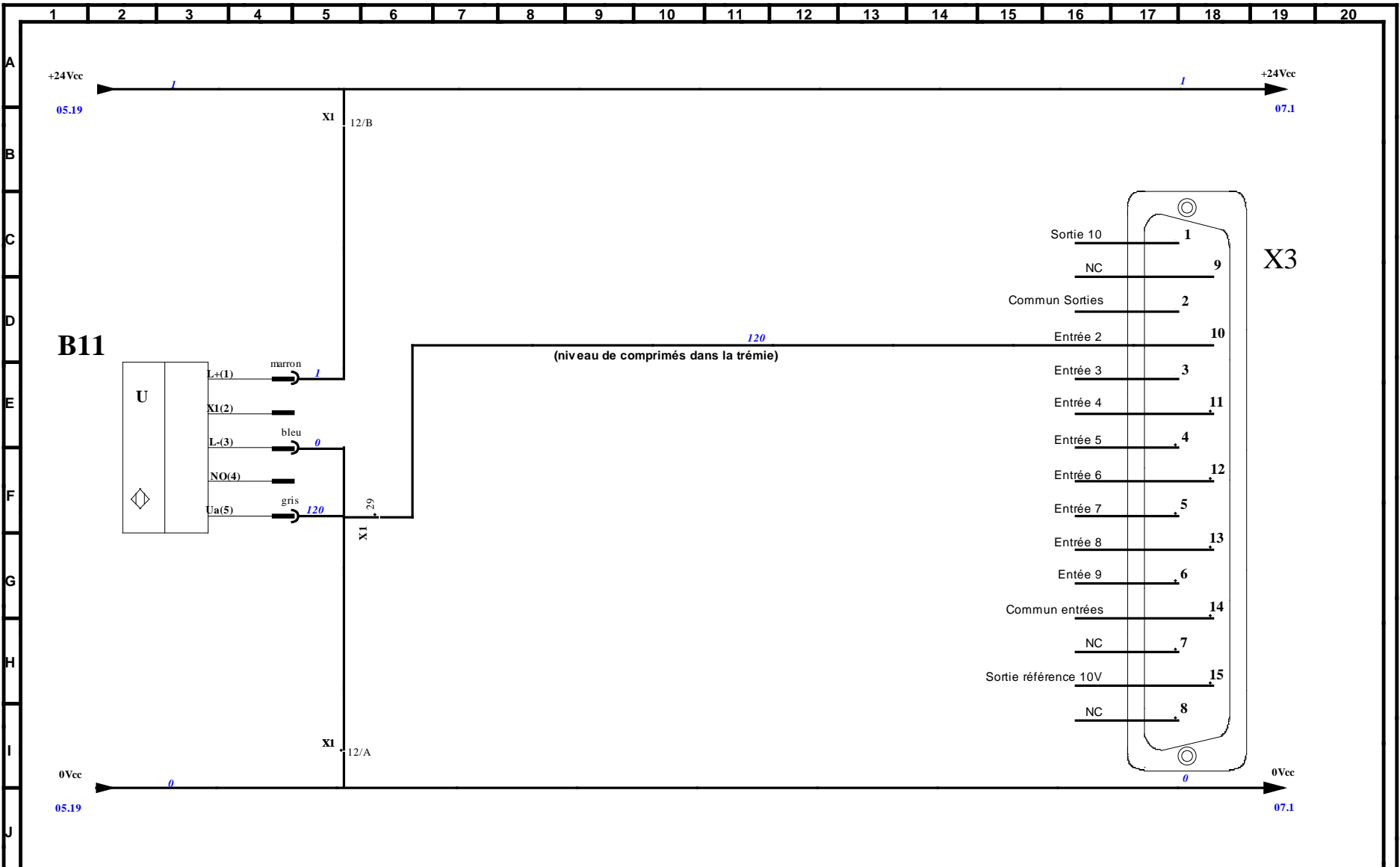
RAVOUX

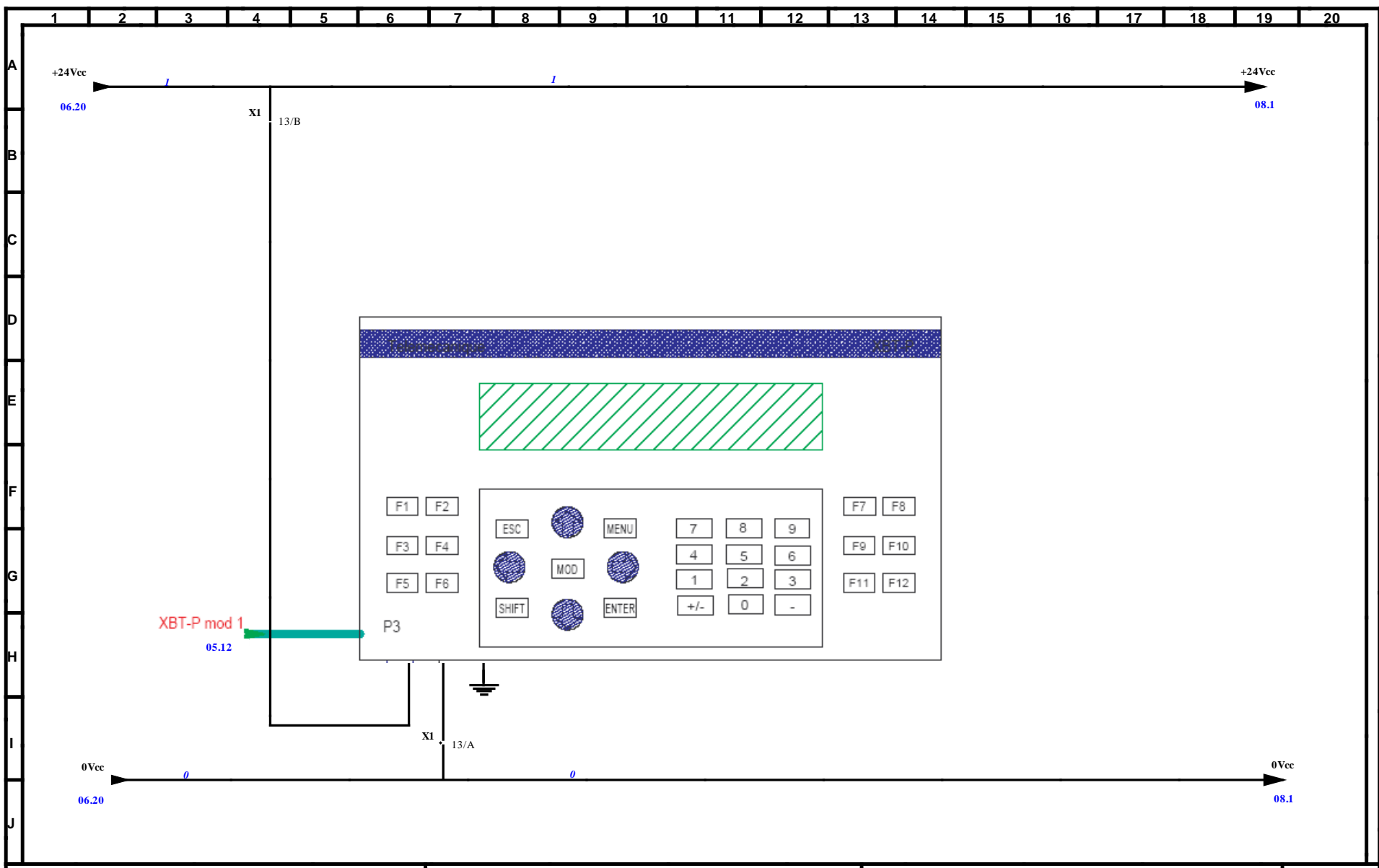
PILLULIER

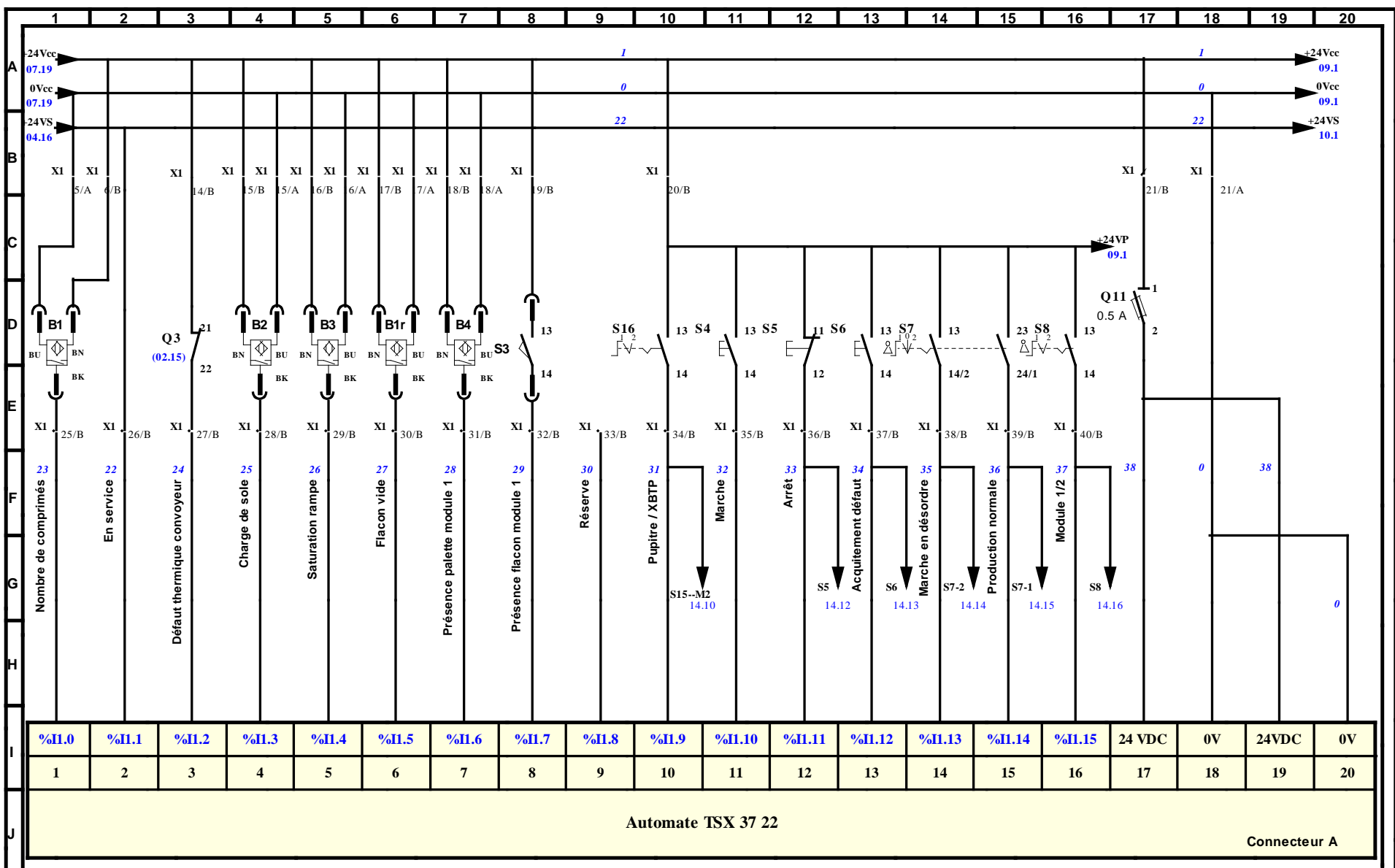
Commande

FOLIO
4









Automate TSX 37 22

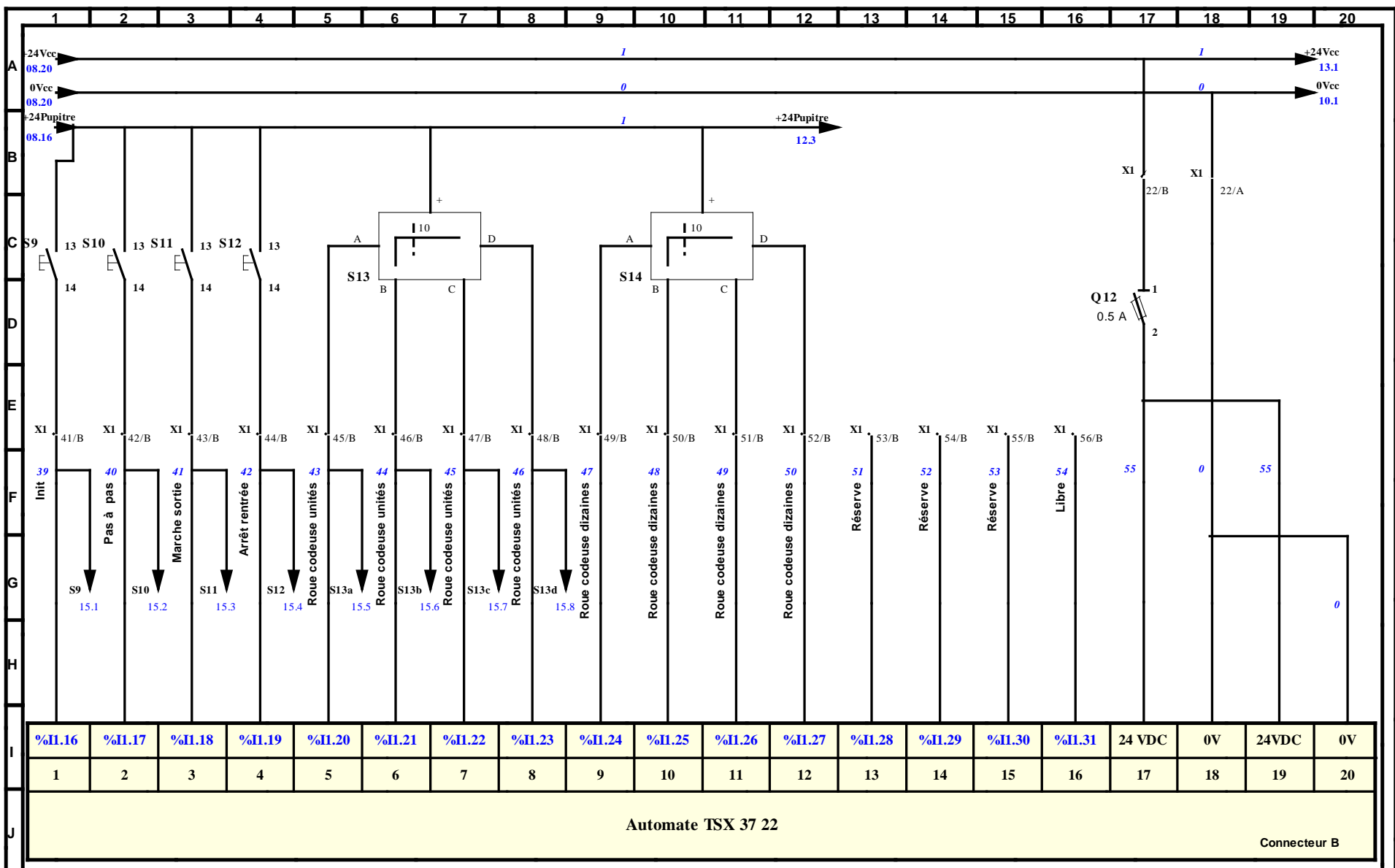
Connecteur A

RAVOUX

PILLULIER

Entrées API module 1

FOLIO
8



%I1.16	%I1.17	%I1.18	%I1.19	%I1.20	%I1.21	%I1.22	%I1.23	%I1.24	%I1.25	%I1.26	%I1.27	%I1.28	%I1.29	%I1.30	%I1.31	24 VDC	0V	24VDC	0V
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Automate TSX 37 22

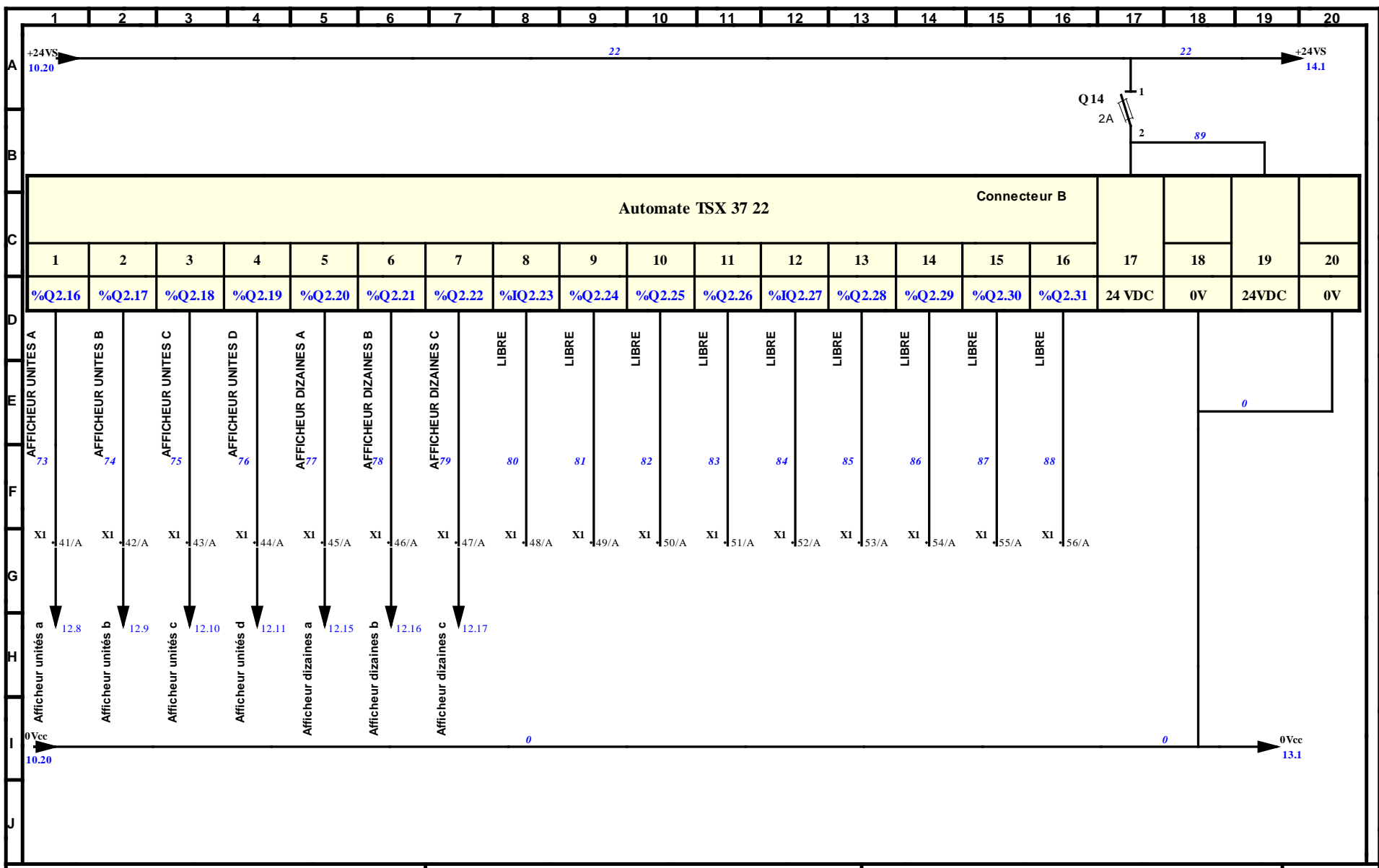
Connecteur B

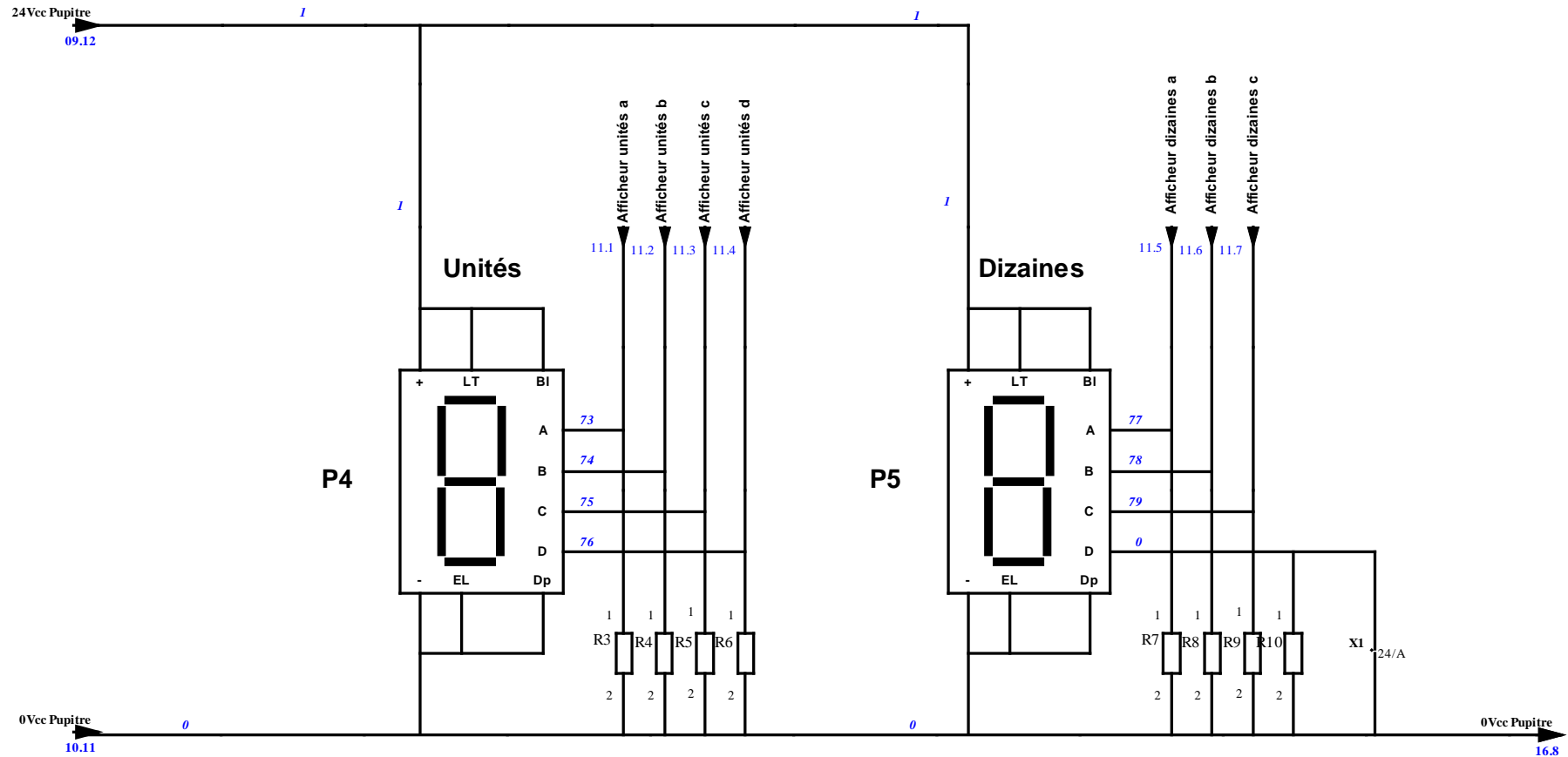
RAVOUX

PILLULIER

Entrées API module 1

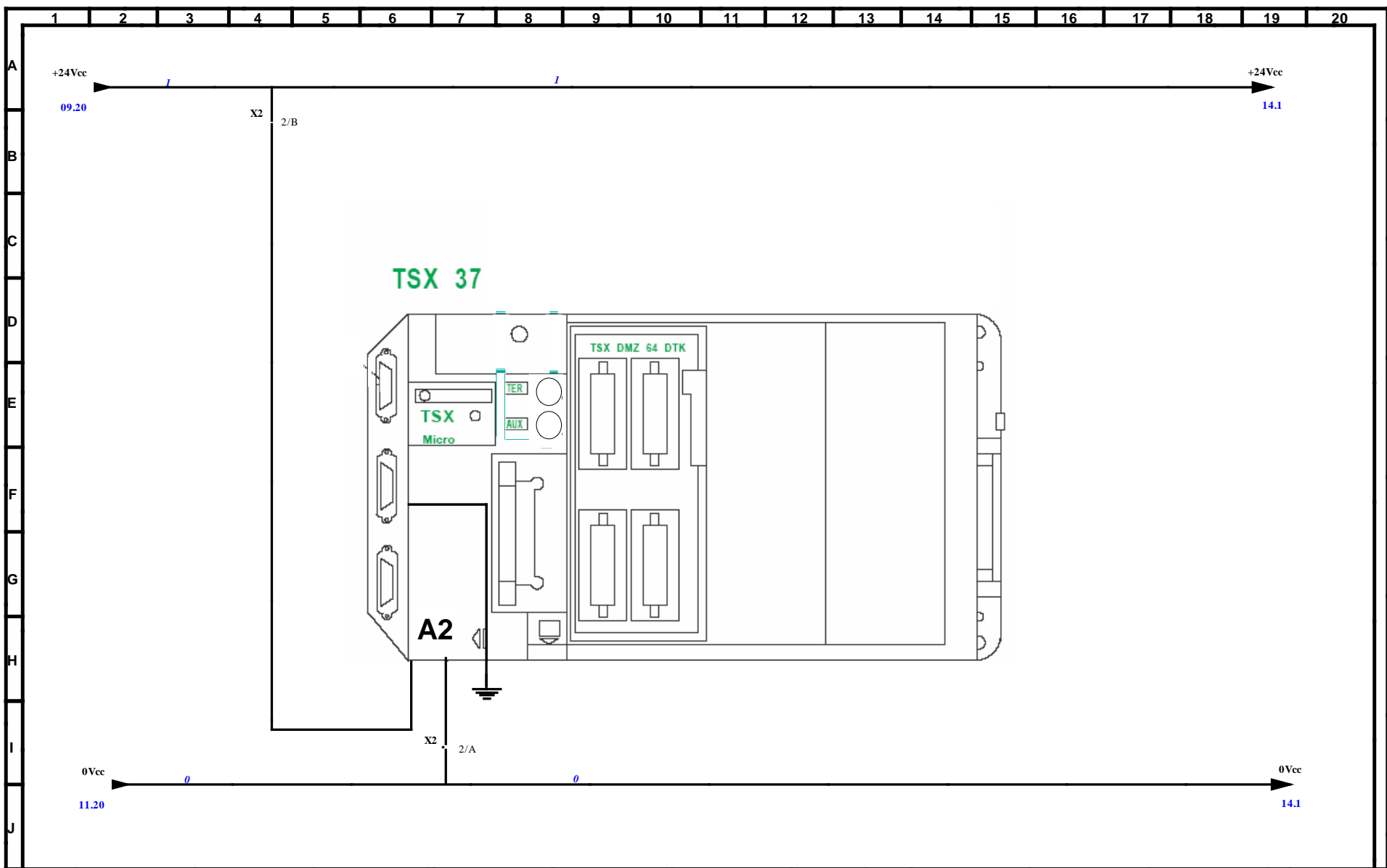
FOLIO
9





4 résistances de 4,7 kilo-ohms, 1/2 Watt

4 résistances de 4,7 kilo-ohms, 1/2 Watt

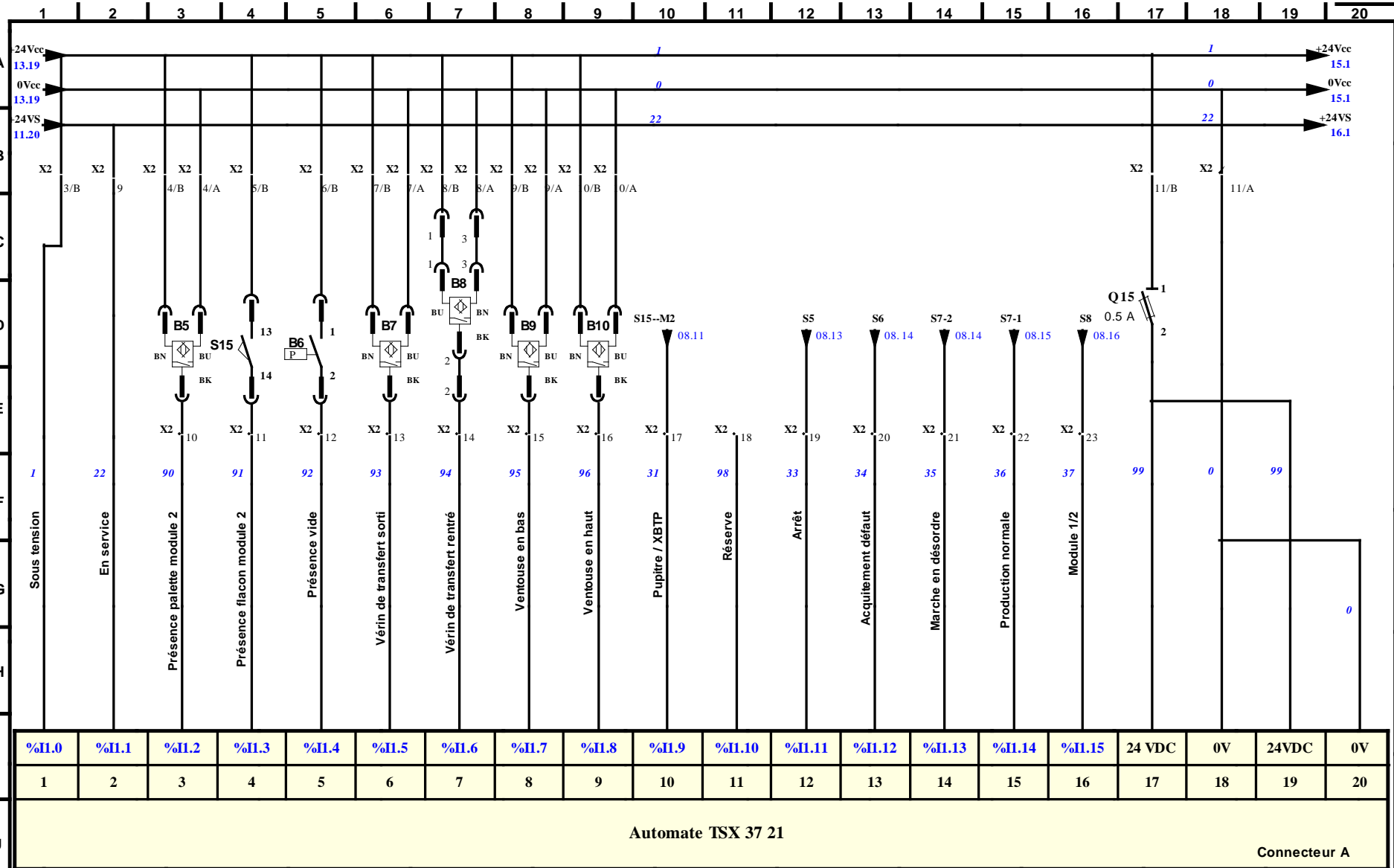


RAVOUX

PILLULIER

Automate module 2 (capsulage)

FOLIO
13



%I1.0	%I1.1	%I1.2	%I1.3	%I1.4	%I1.5	%I1.6	%I1.7	%I1.8	%I1.9	%I1.10	%I1.11	%I1.12	%I1.13	%I1.14	%I1.15	24 VDC	0V	24VDC	0V
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Automate TSX 37 21

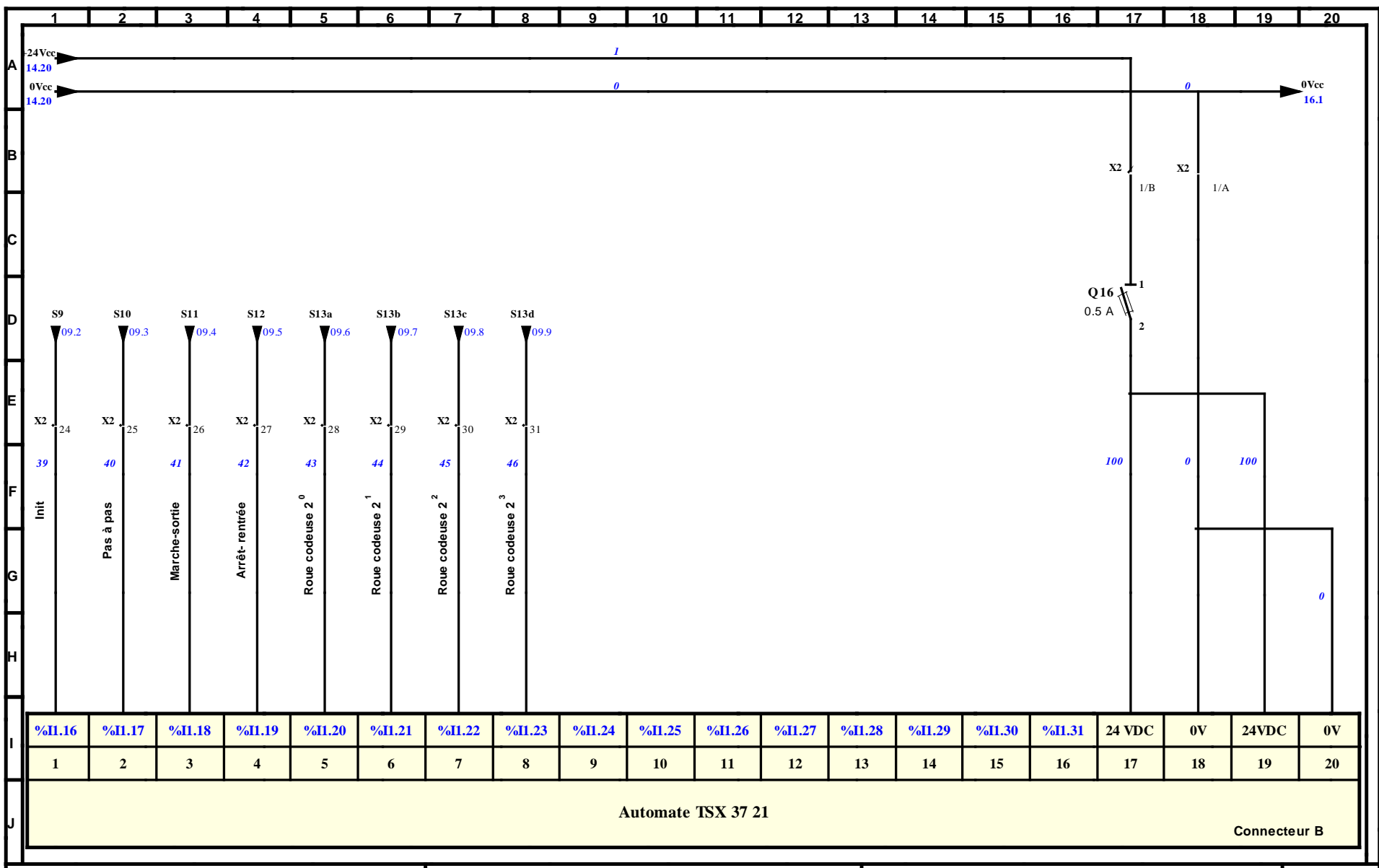
Connecteur A

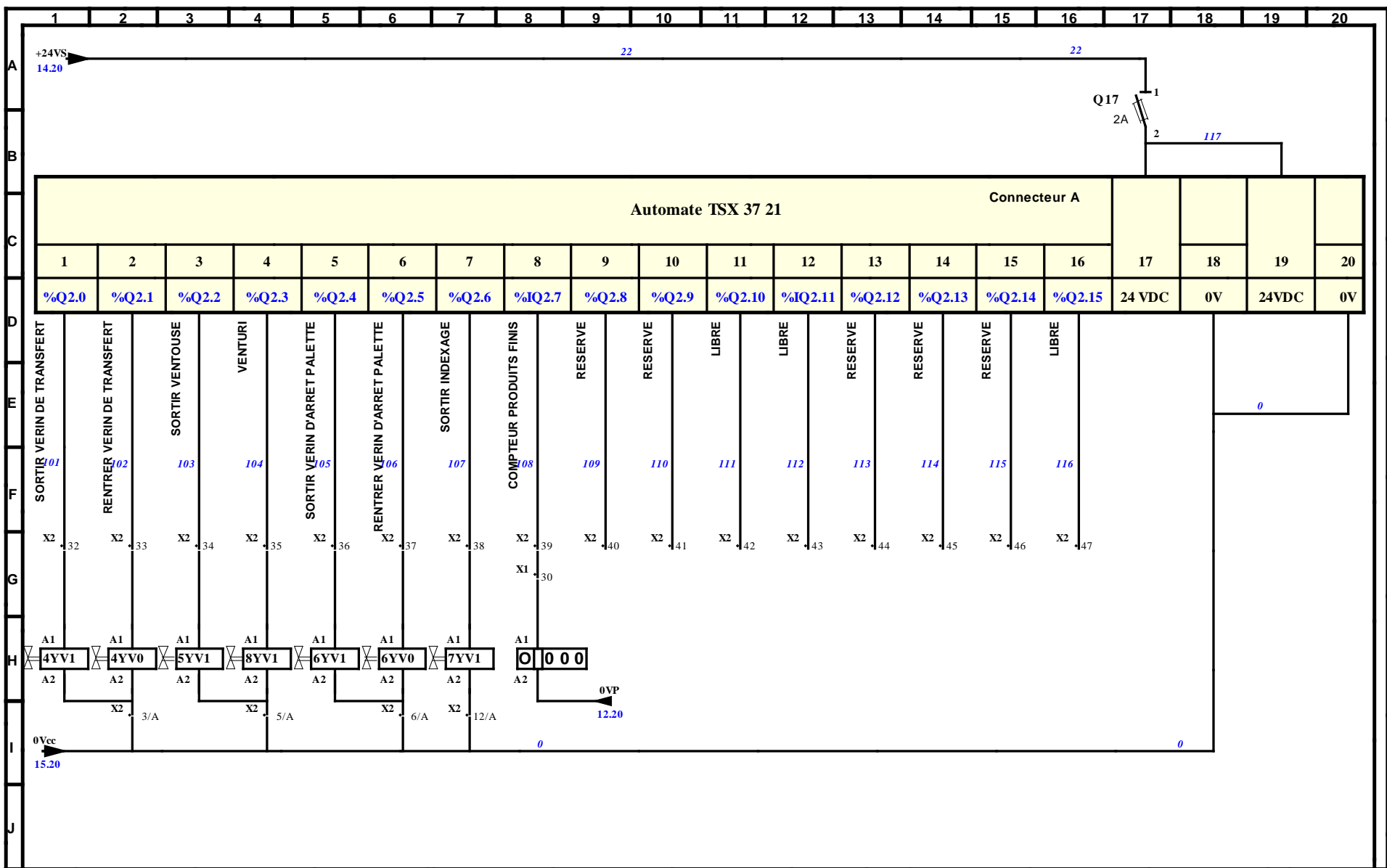
RAVOUX

PILLULIER

Entrées API module 2

FOLIO
14





RAVOUX

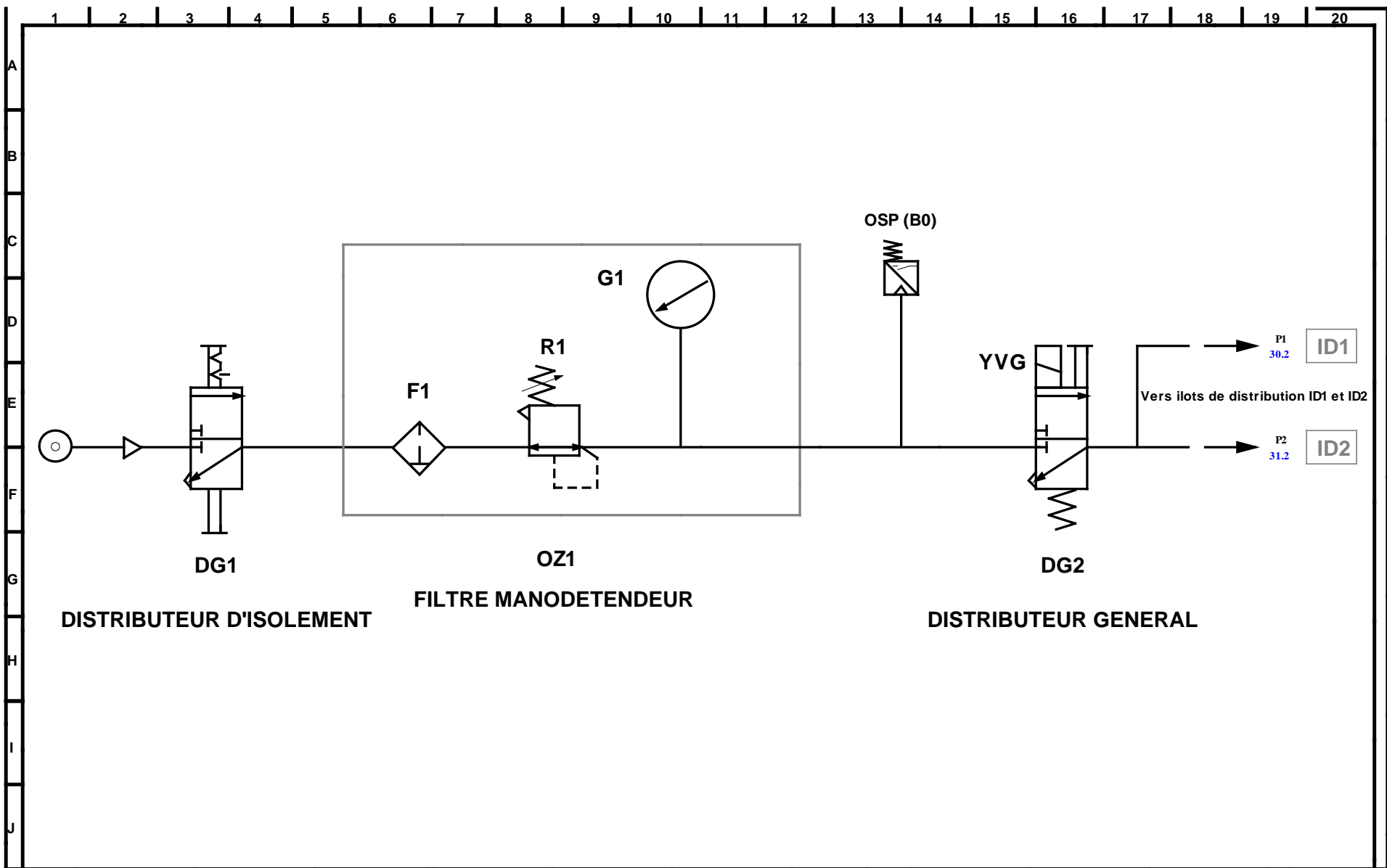
PILLULIER

Sorties API module 2

FOLIO
16

Schémas

PNEUMATIQUE



ARRET PALETTE MODULE 1

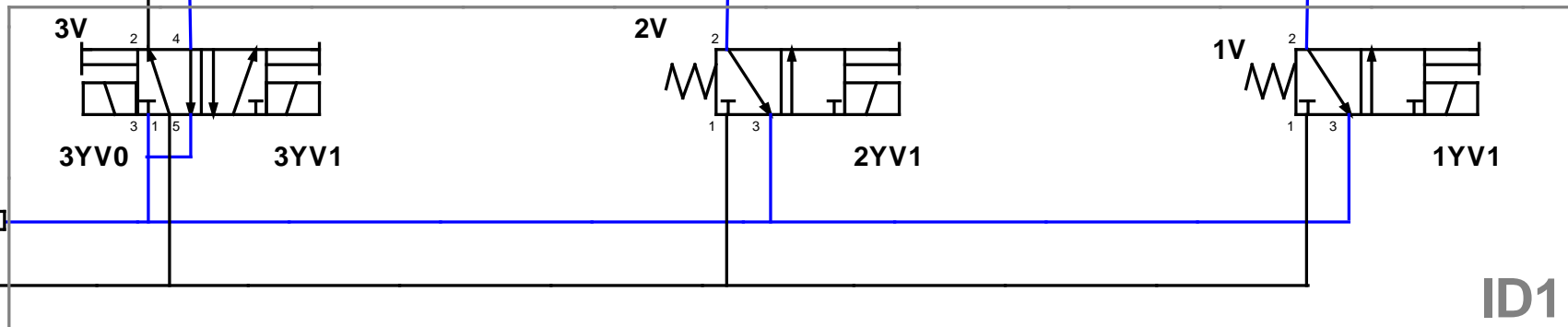
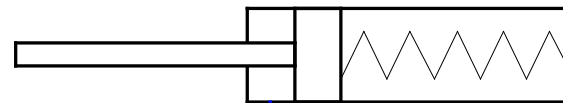
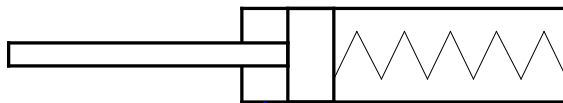
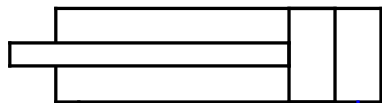
BAS DE RAMPE

HAUT DE RAMPE

Vérin-3C

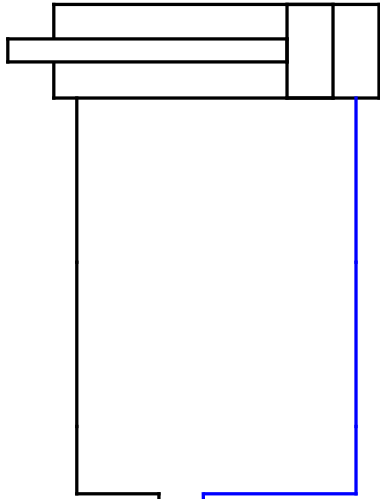
Vérin-2C

Vérin-1C



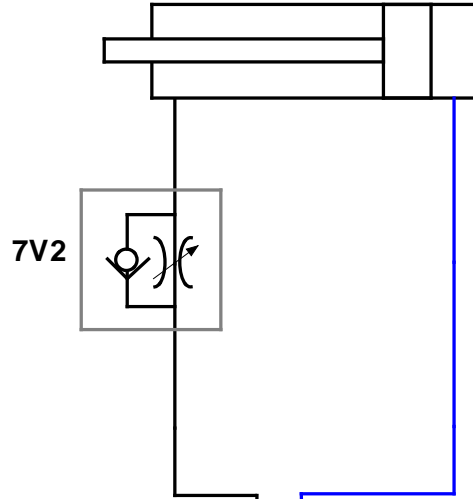
ARRET PALETTE MODULE 2

Vérin-6C



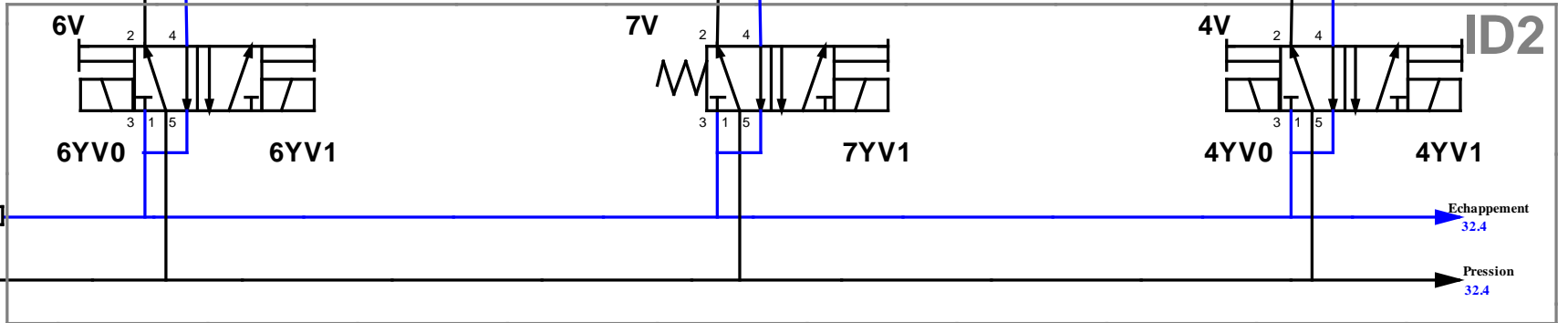
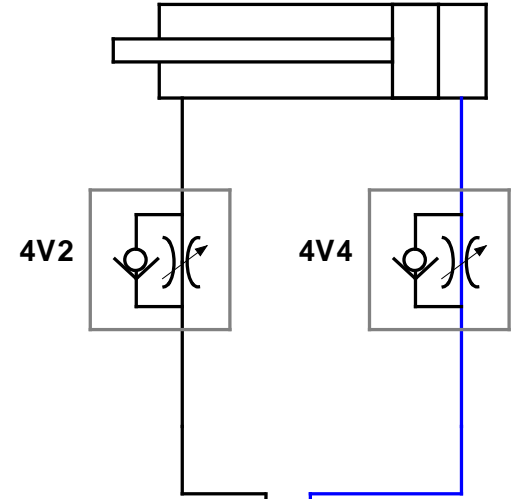
INDEXAGE

Vérin-7C



TRANSFERT

Vérin-4C



DESCENTE VENTOUSE

ASPIRATION CAPSULE

Vérin-5C

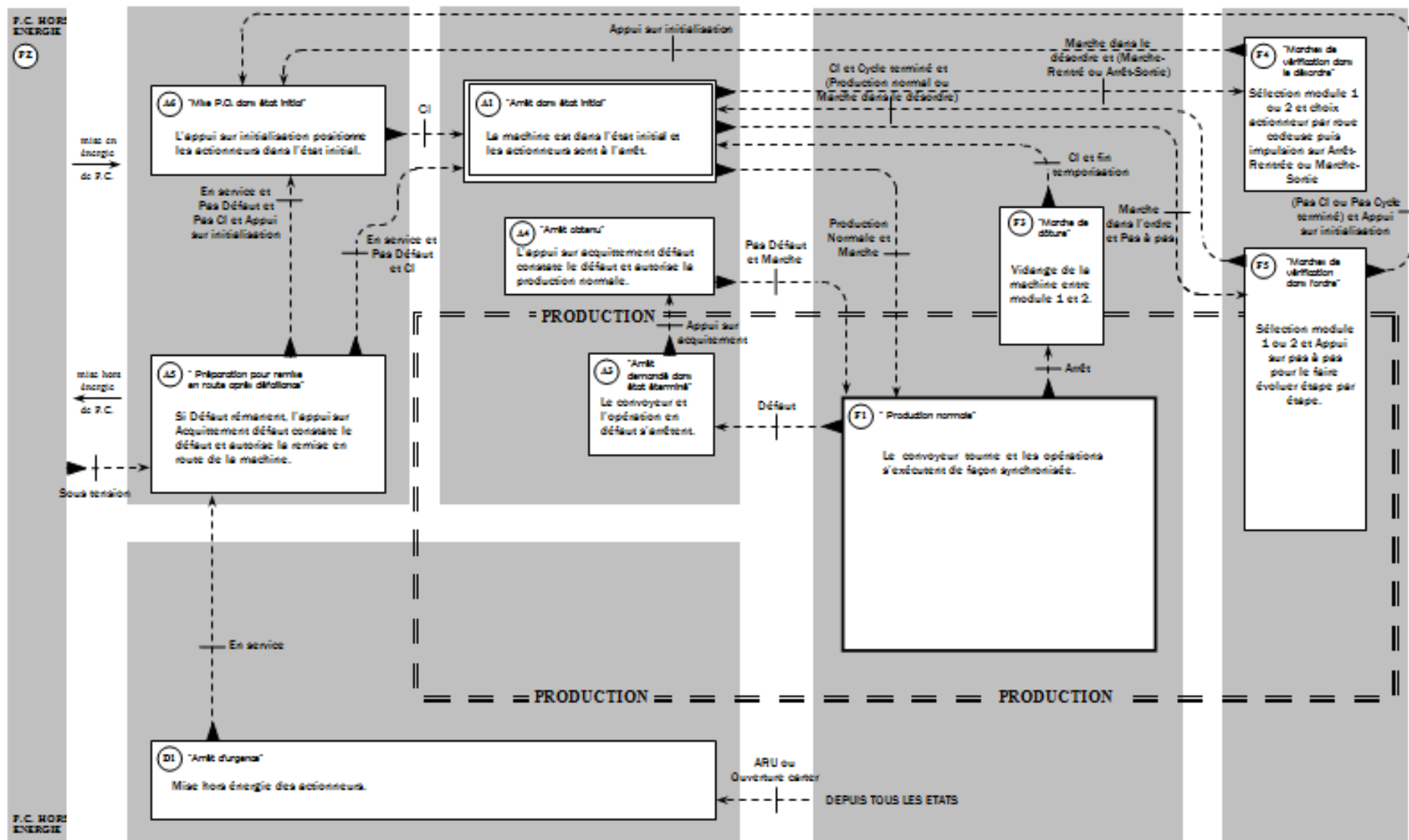
Venturi-8C



GRAF CET

A PROCEDURES D'ARRÊT de la Partie Opérative (PO)

F PROCEDURES DE FONCTIONNEMENT



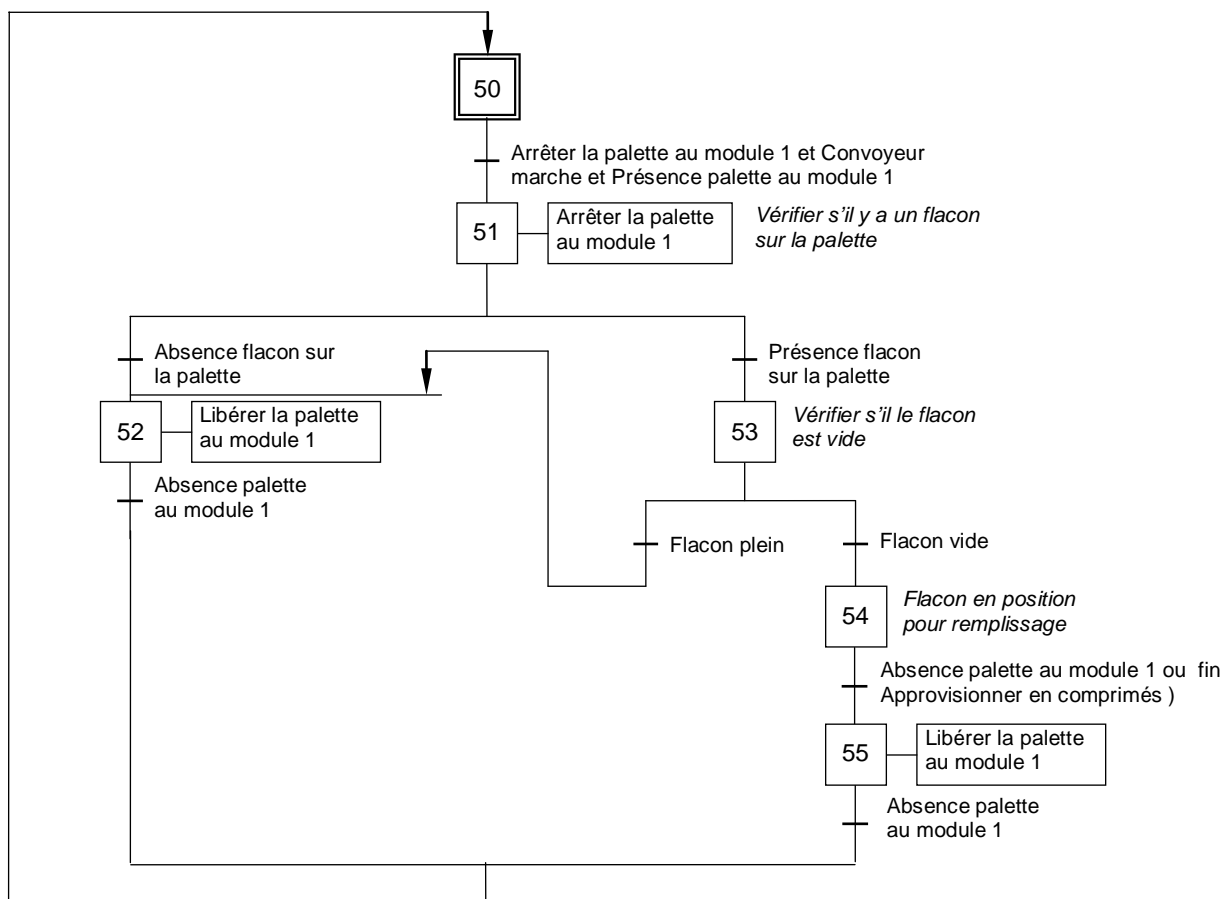
D PROCEDURES DE DEFAILLANCES de la Partie Opérative (PO)

F PROCEDURES DE FONCTIONNEMENT

GRAFNET RAVOUX

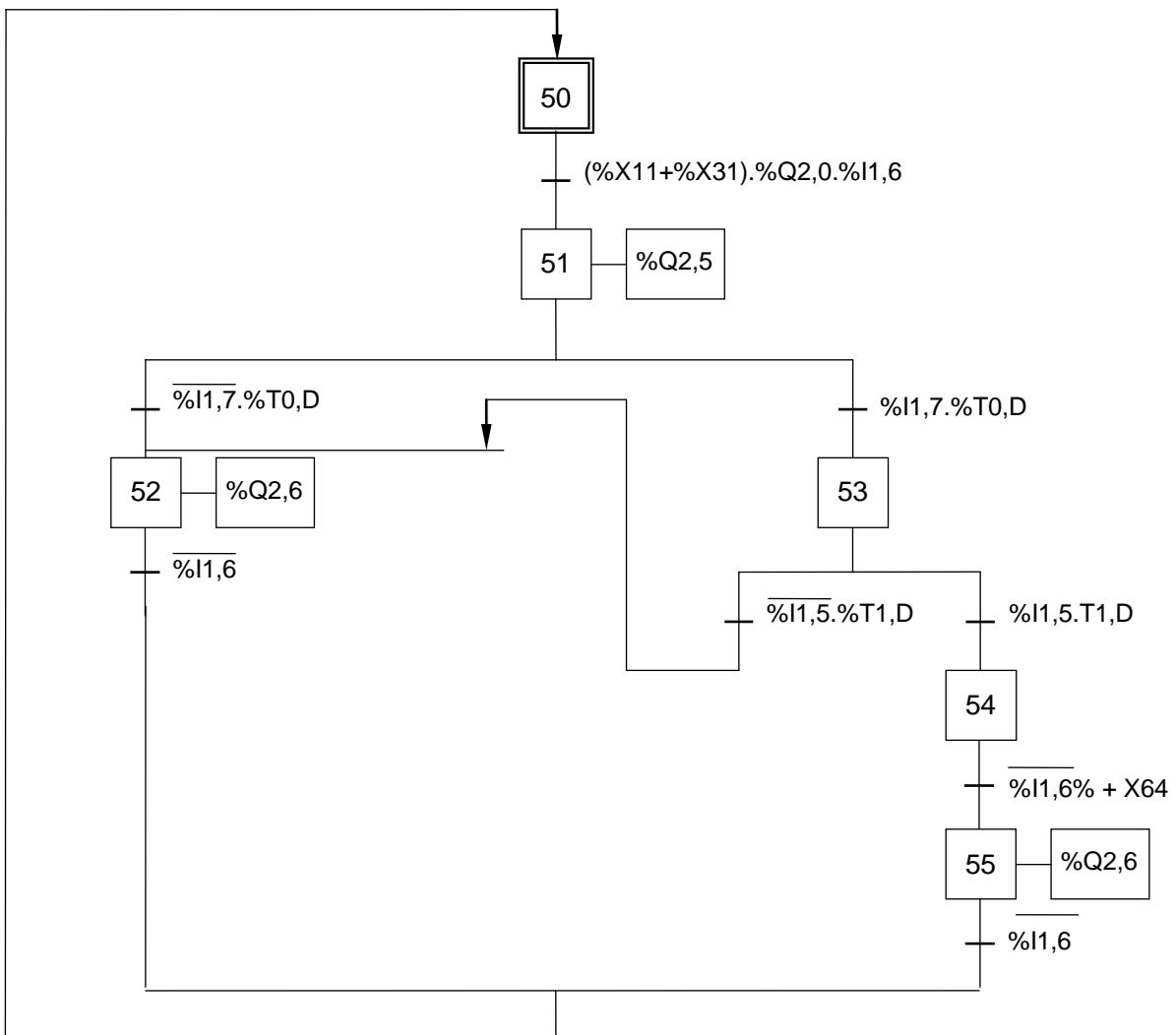
ARRETER LA PALETTE AU MODULE 1 (T5-1)

POINT DE VUE SYSTEME



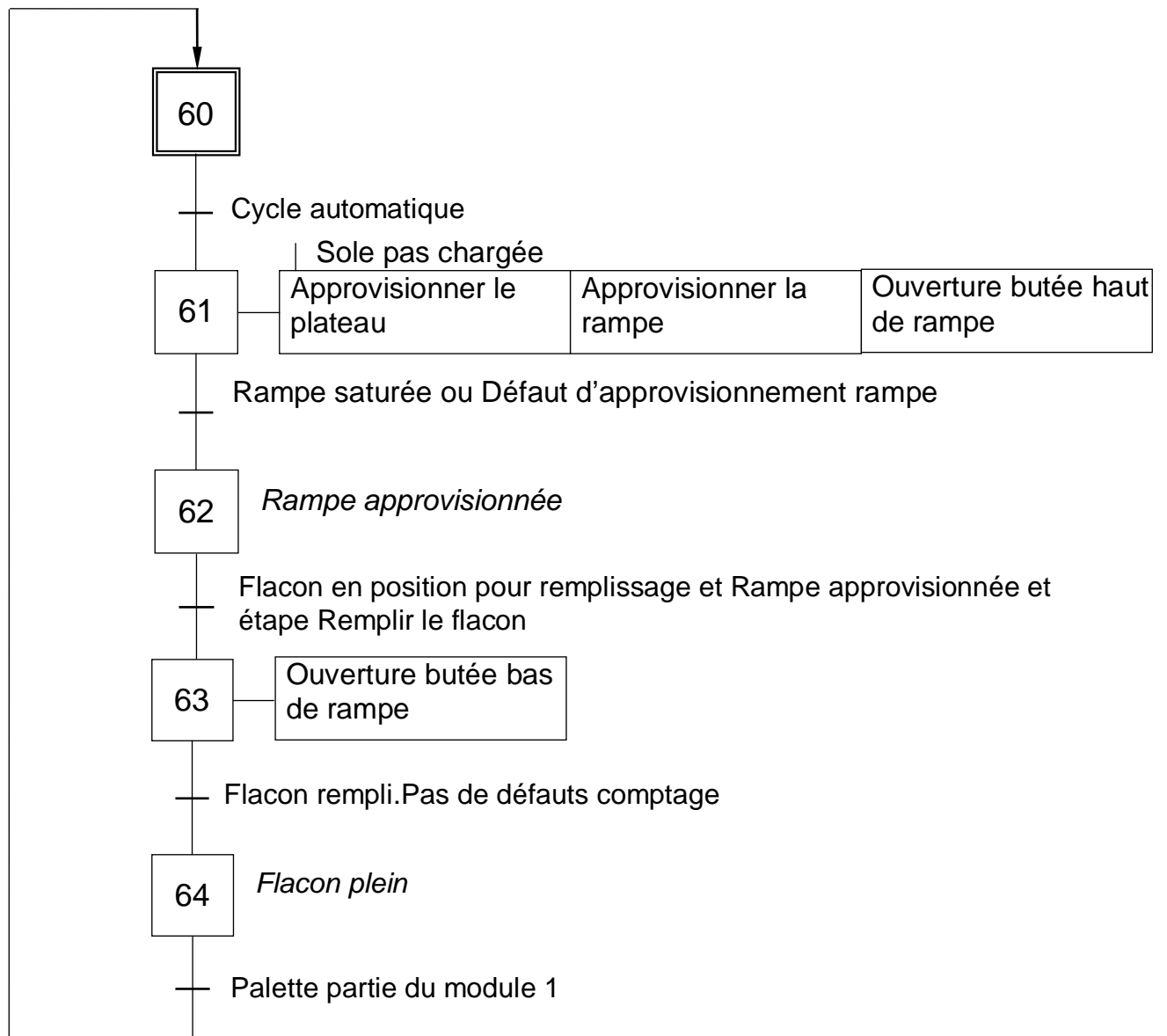
ARRETER LA PALETTE AU MODULE 1 (T5-1)

POINT DE VUE AUTOMATE



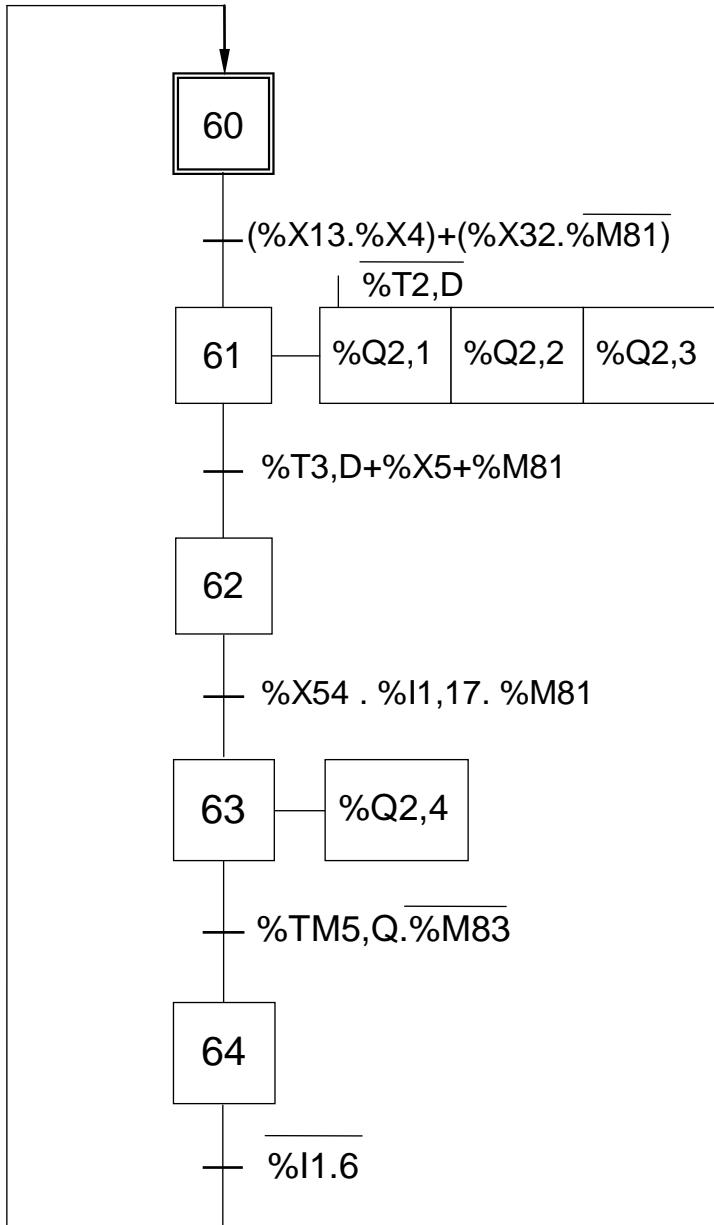
APPROVISIONNER EN COMPRIMES (T7-1)

POINT DE VUE SYSTEME



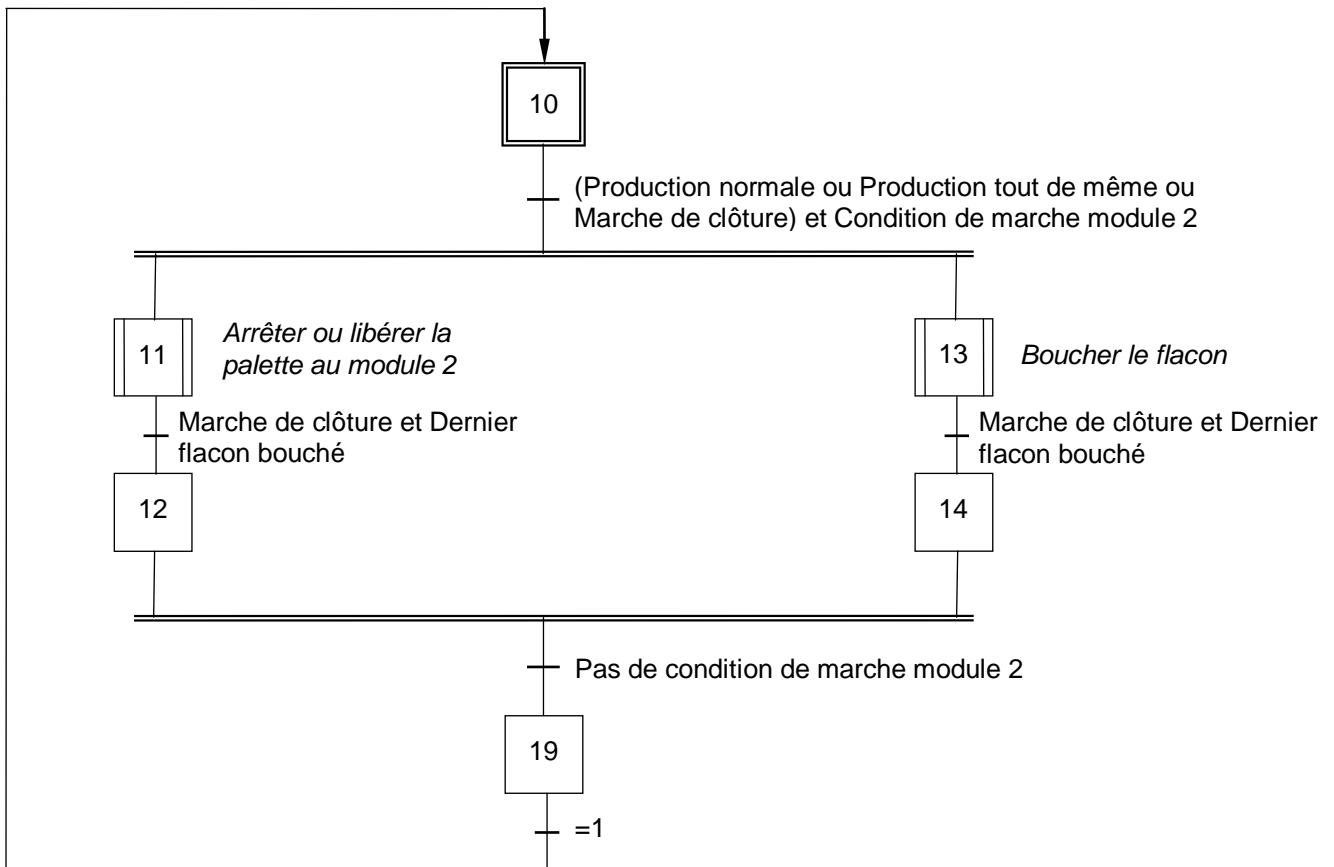
APPROVISIONNER EN COMPRIMES (T7-1)

POINT DE VUE AUTOMATE



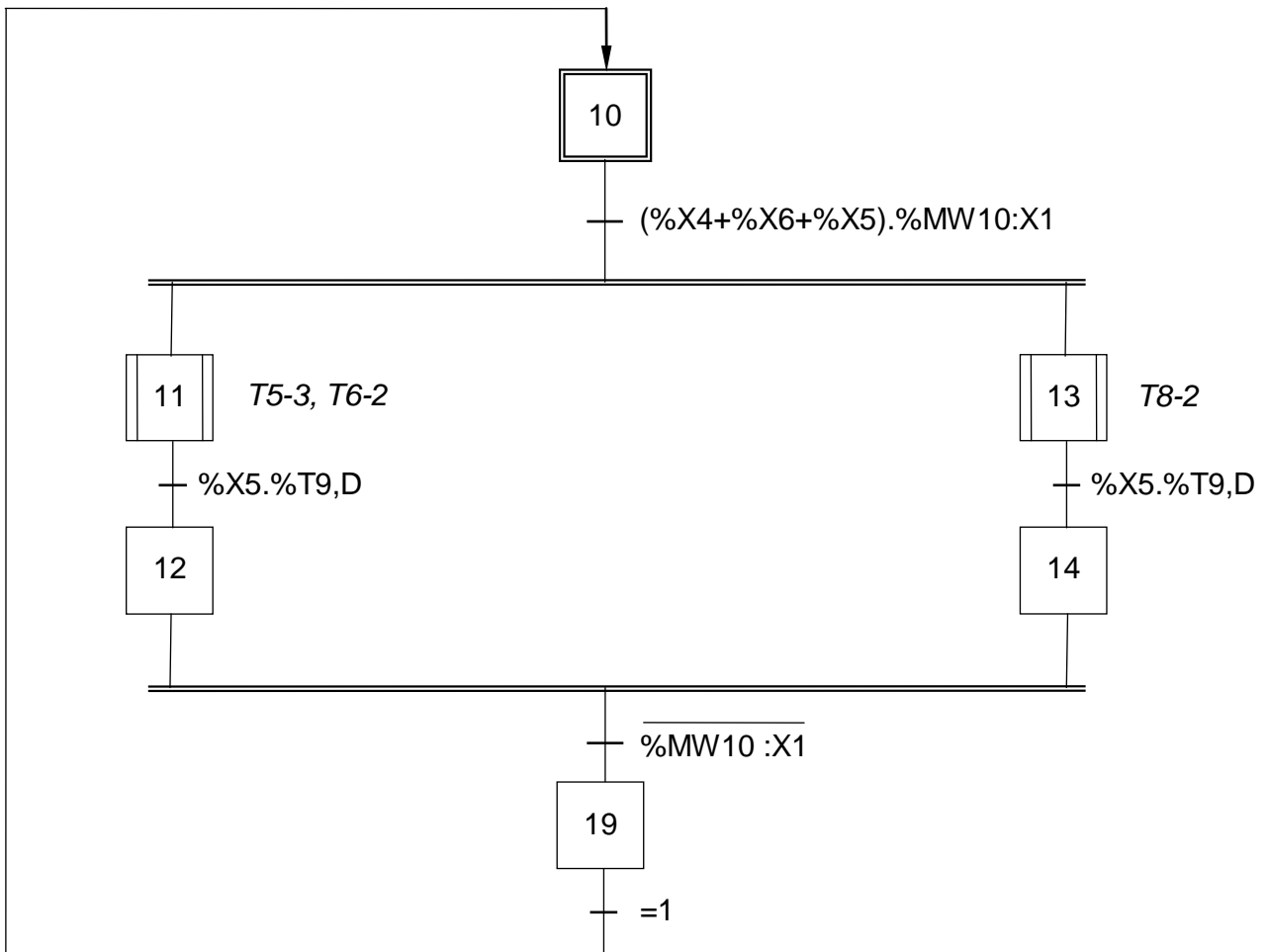
PRODUCTION AUTOMATIQUE MODULE 2 (T1-2)

POINT DE VUE SYSTEME



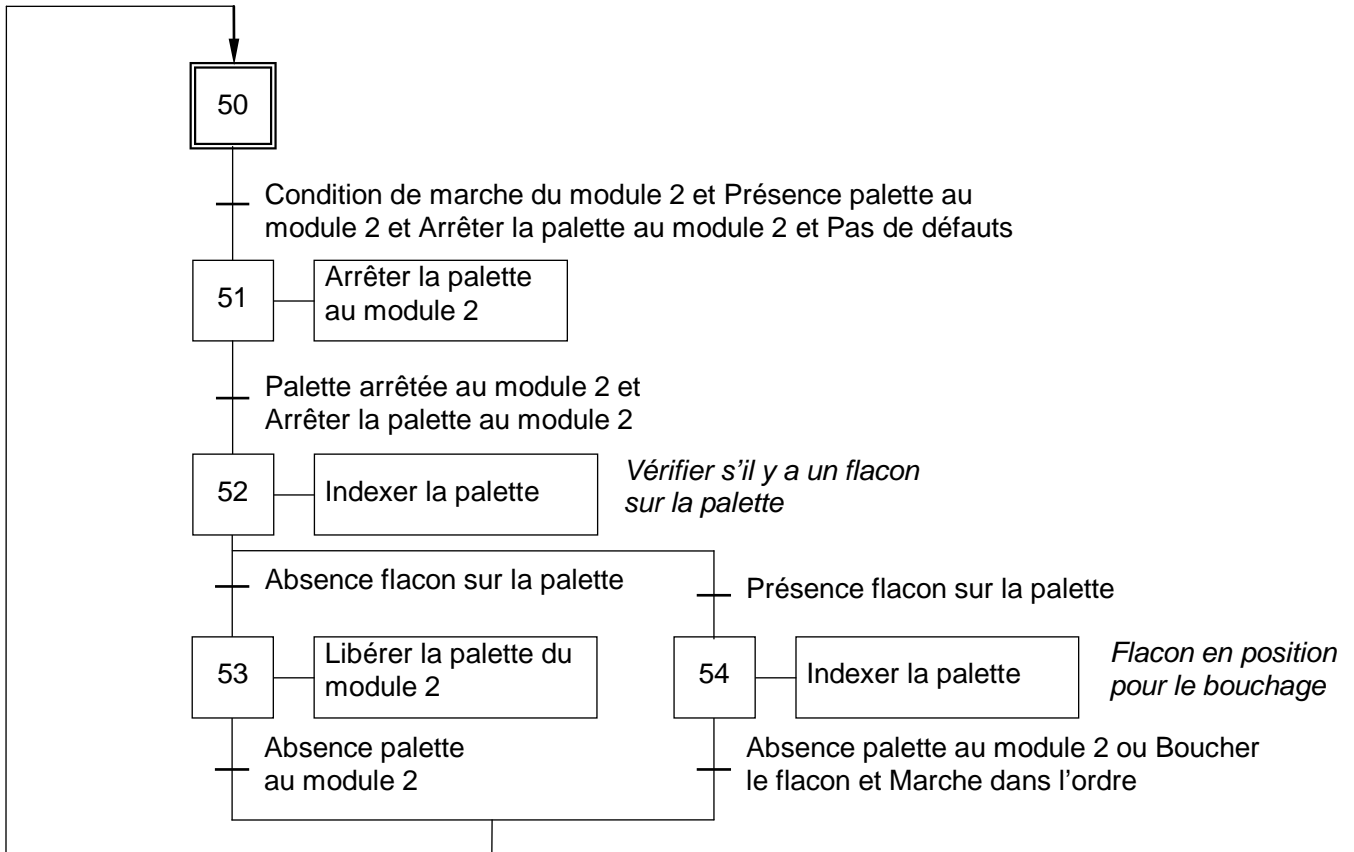
PRODUCTION AUTOMATIQUE MODULE 2 (T1-2)

POINT DE VUE AUTOMATE



ARRETER LA PALETTE AU MODULE 2 (T5-2)

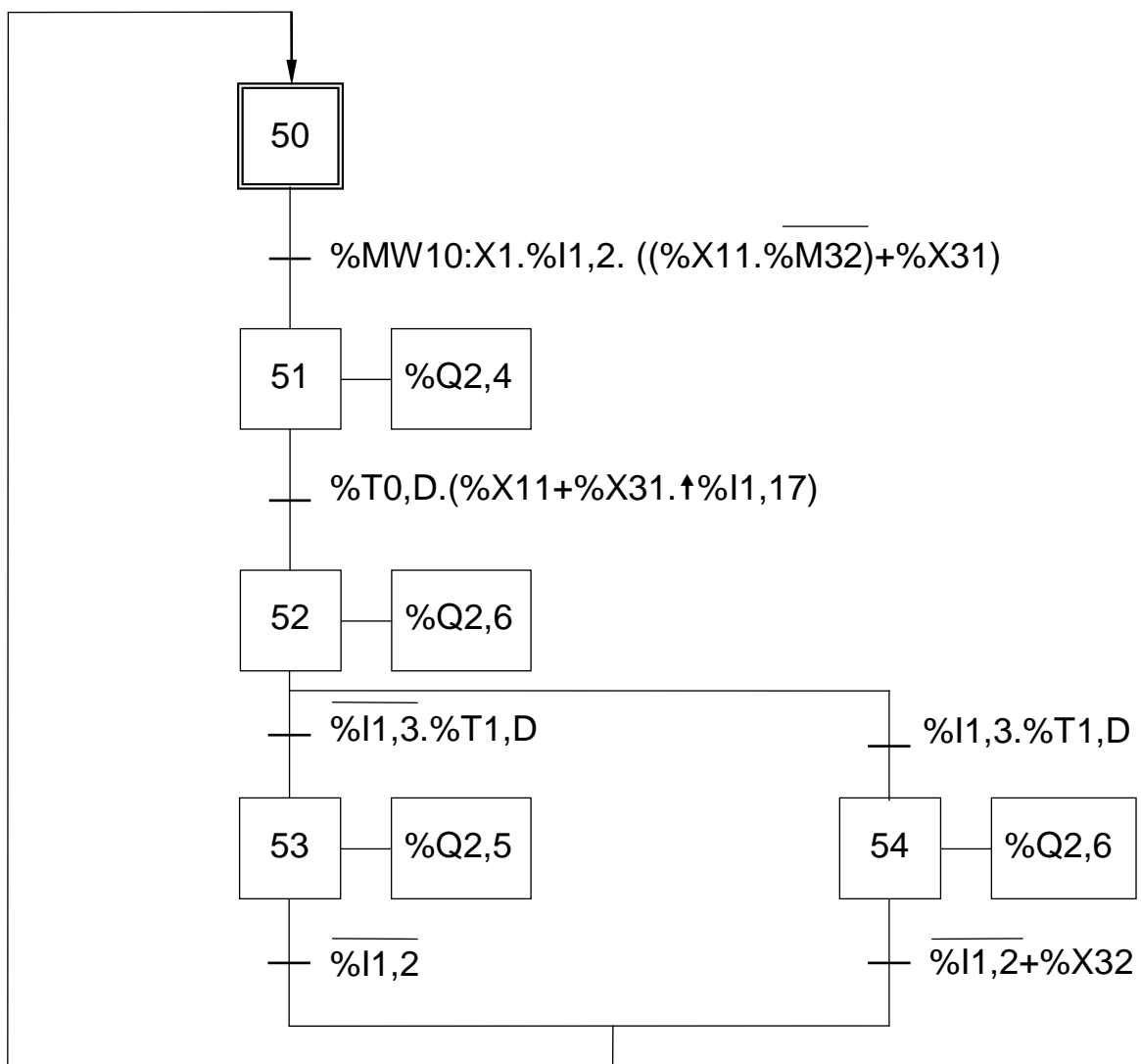
POINT DE VUE SYSTEME



Arrêter la palette au module 2 = arrêter la palette en production normale ou en marche dans l'ordre.

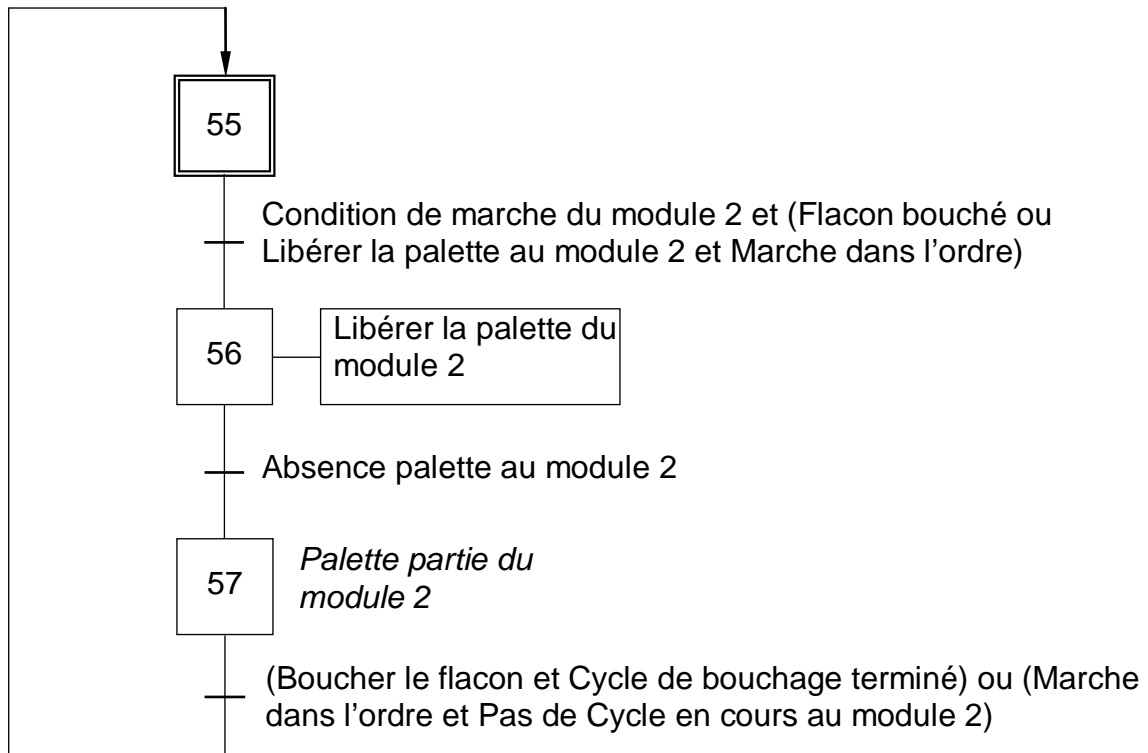
ARRETER LA PALETTE AU MODULE 2 (T5-2)

POINT DE VUE AUTOMATE



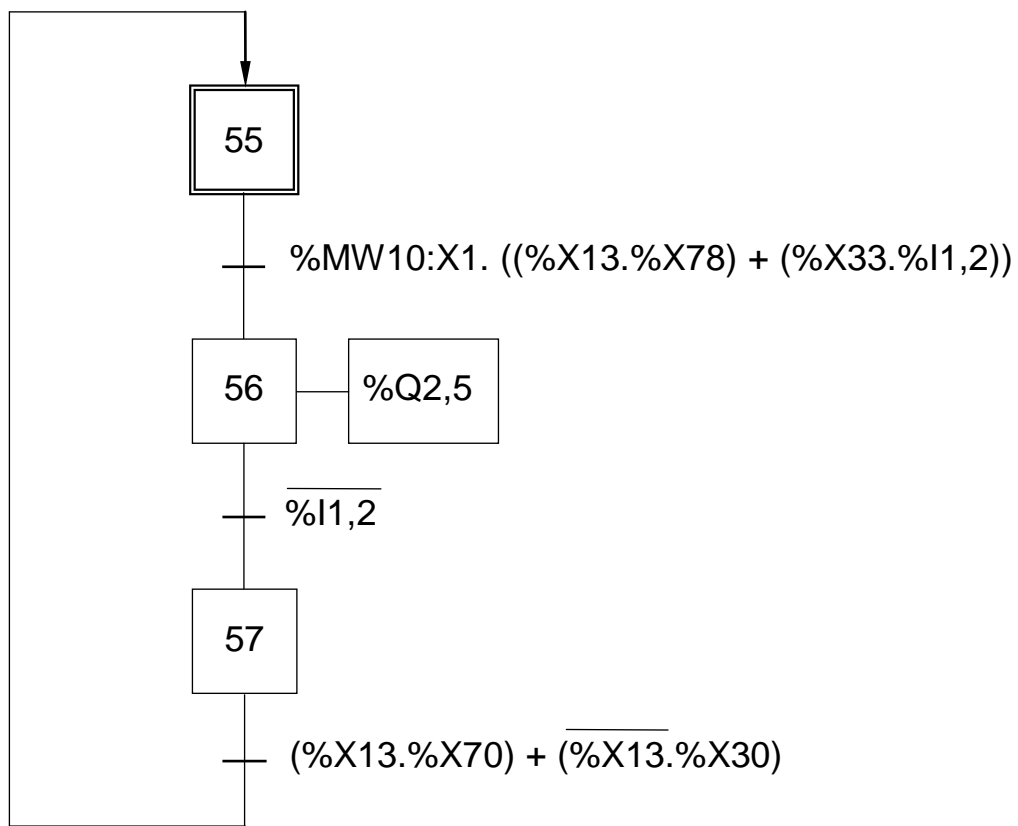
LIBERER LA PALETTE AU MODULE 2 (T6-2)

POINT DE VUE SYSTEME



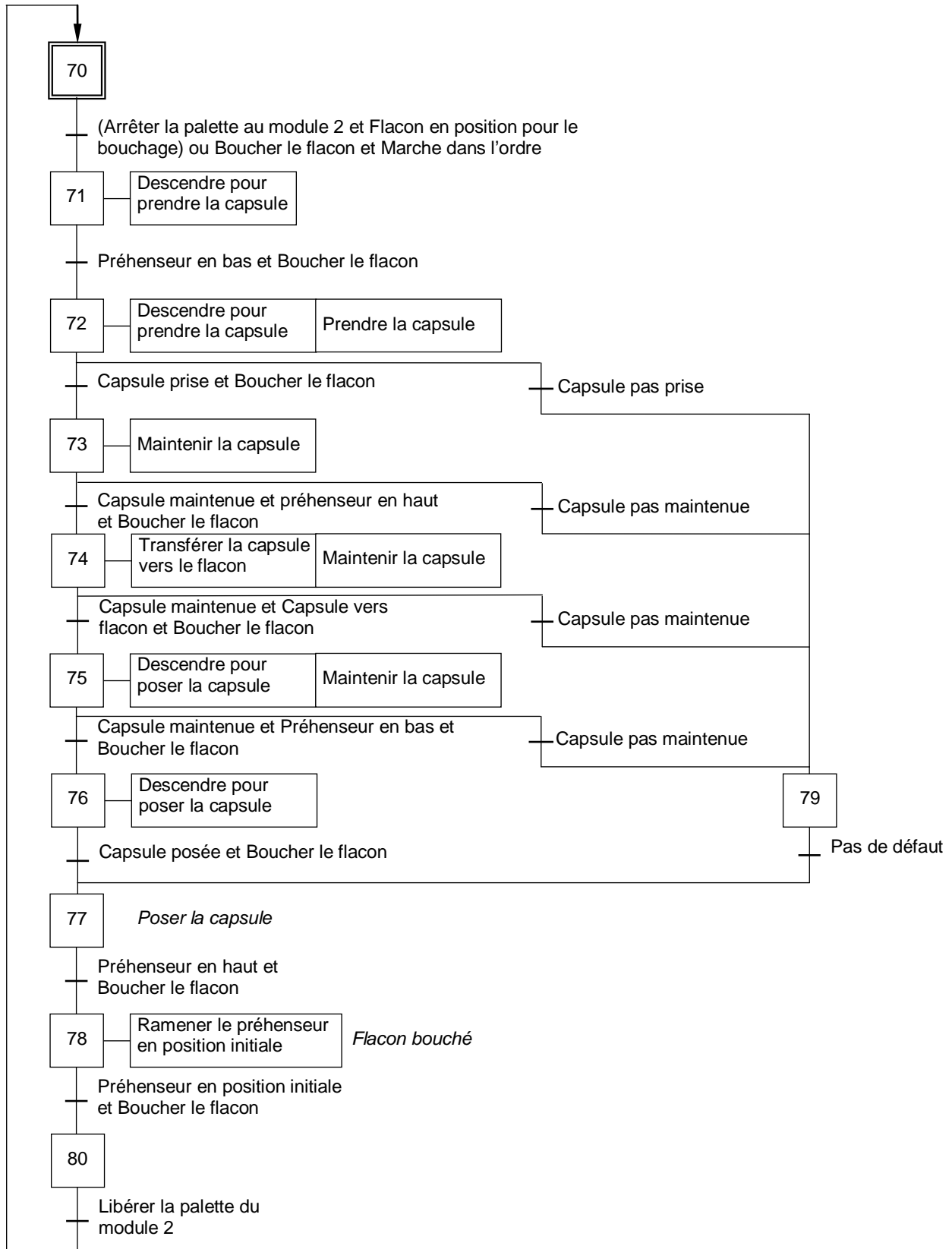
LIBERER LA PALETTE AU MODULE 2 (T6-2)

POINT DE VUE AUTOMATE



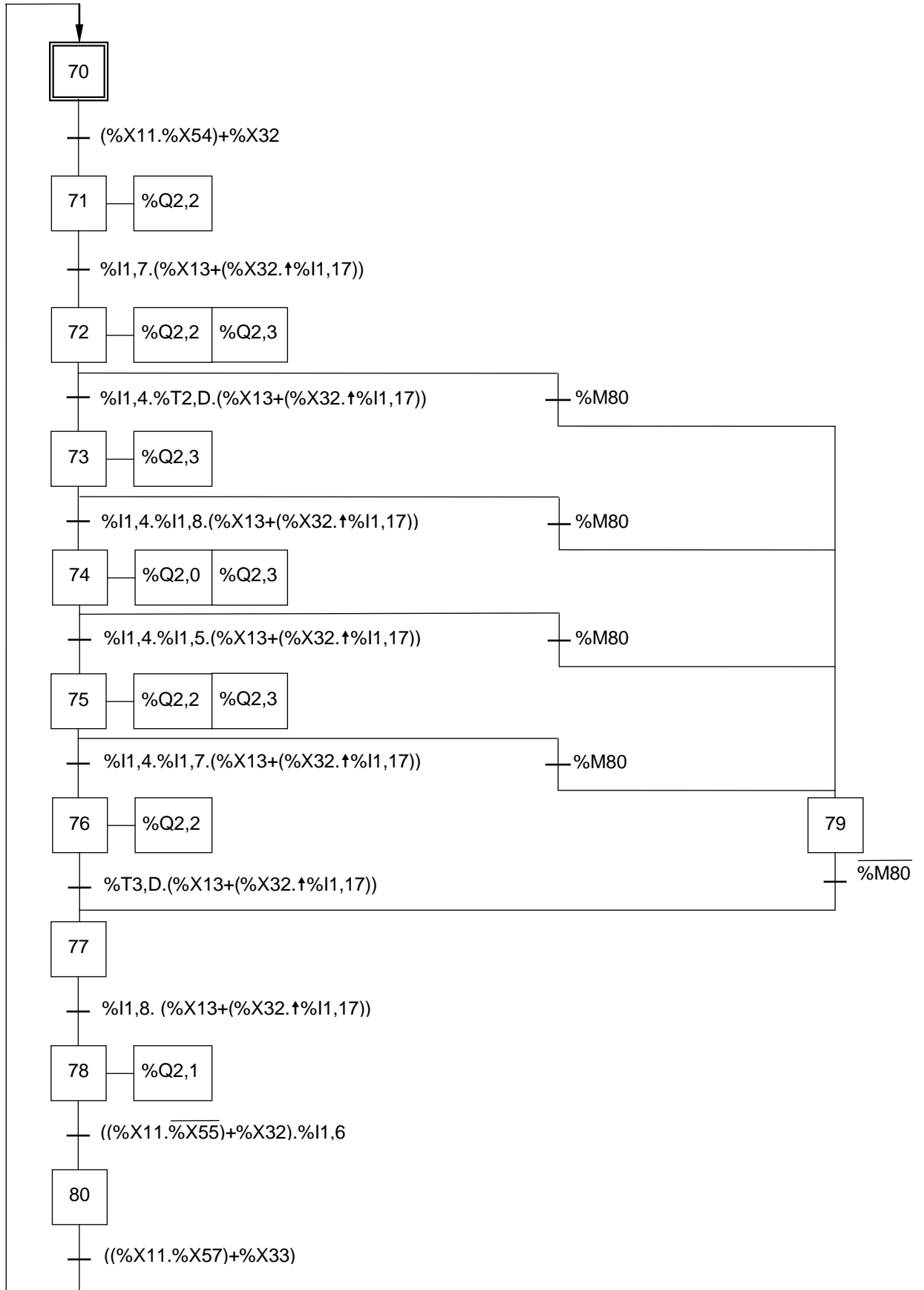
BOUCHER LE FLACON (T8-2)

POINT DE VUE SYSTEME



BOUCHER LE FLACON (T8-2)

POINT DE VUE AUTOMATE

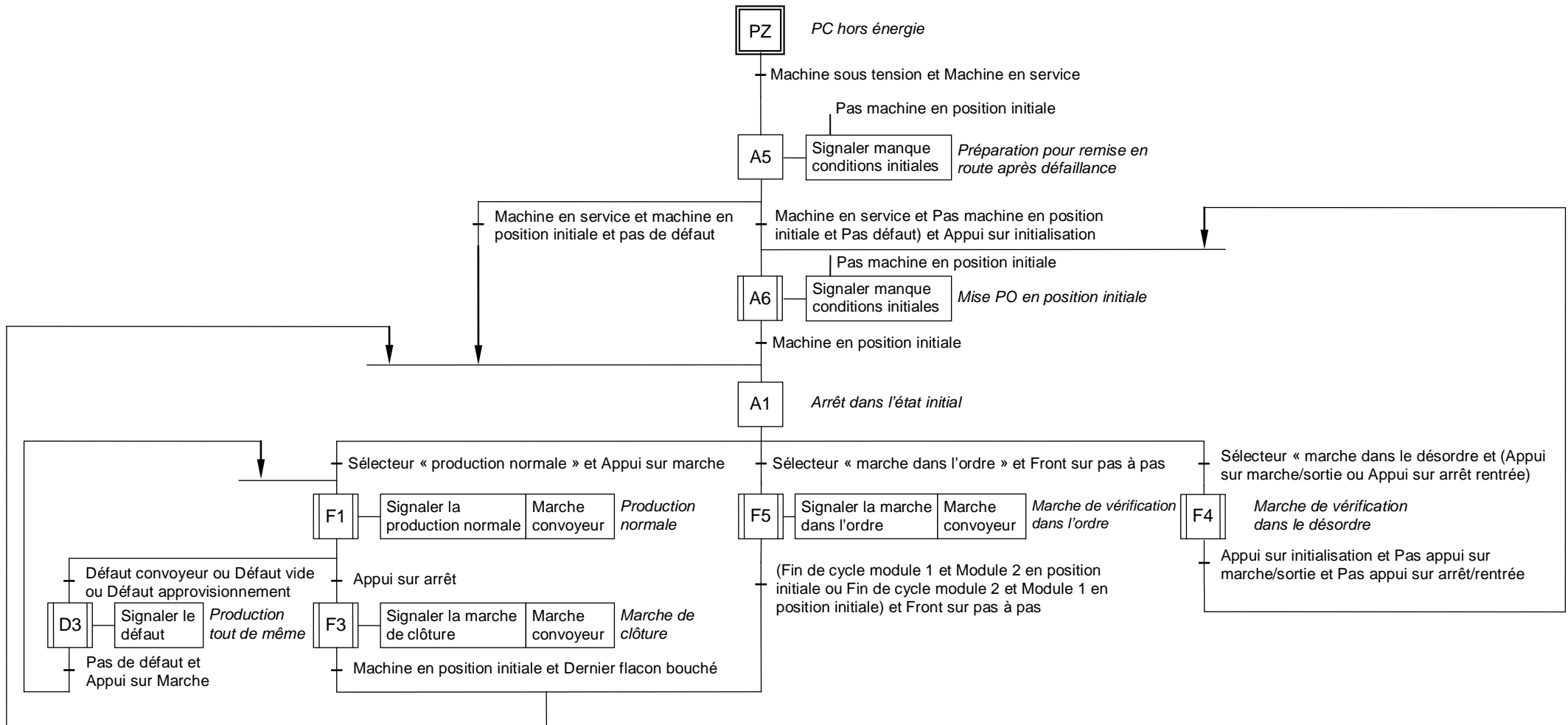


GRAFCET

MODULE 1

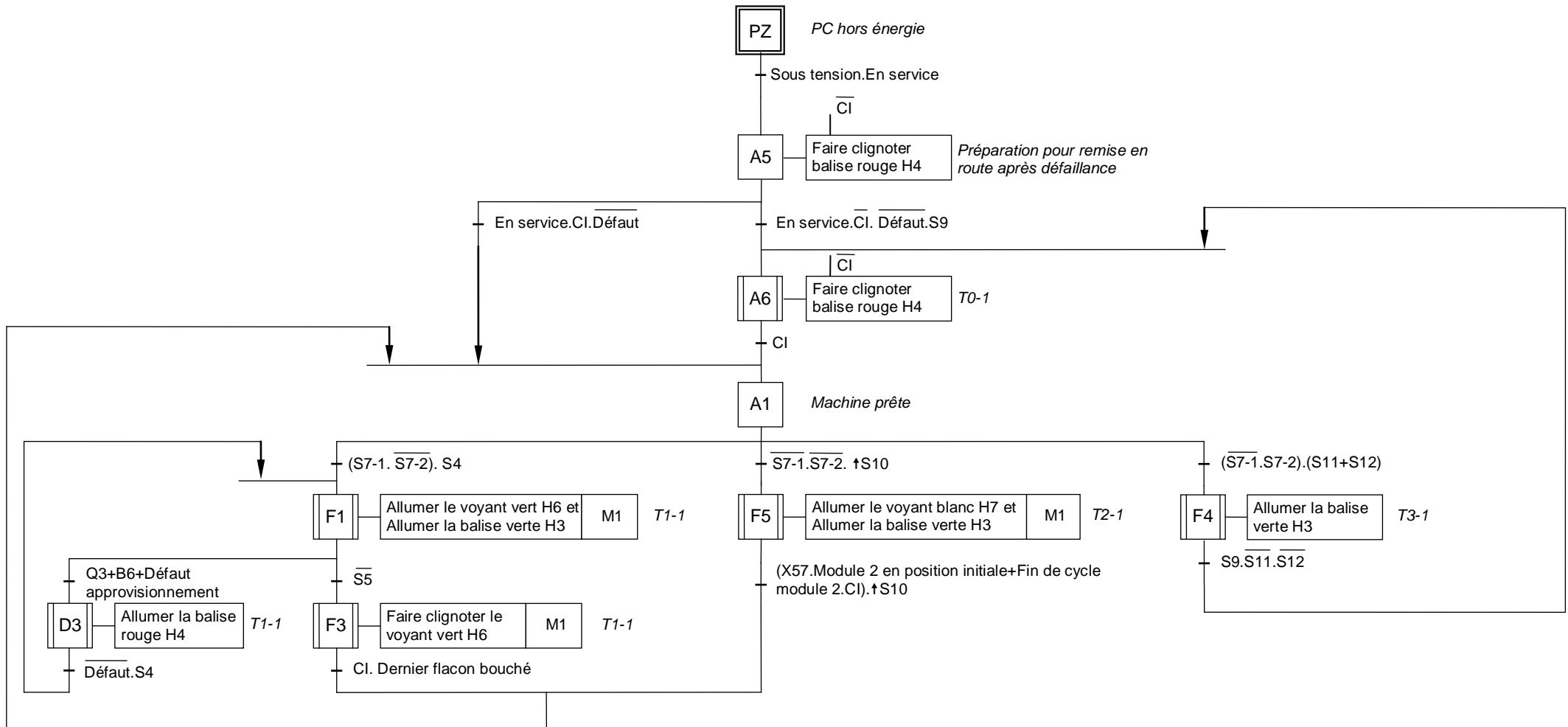
GRAFNET DE MODES DE MARCHÉ ET D'ARRÊT DU MODULE 1

POINT DE VUE SYSTEME



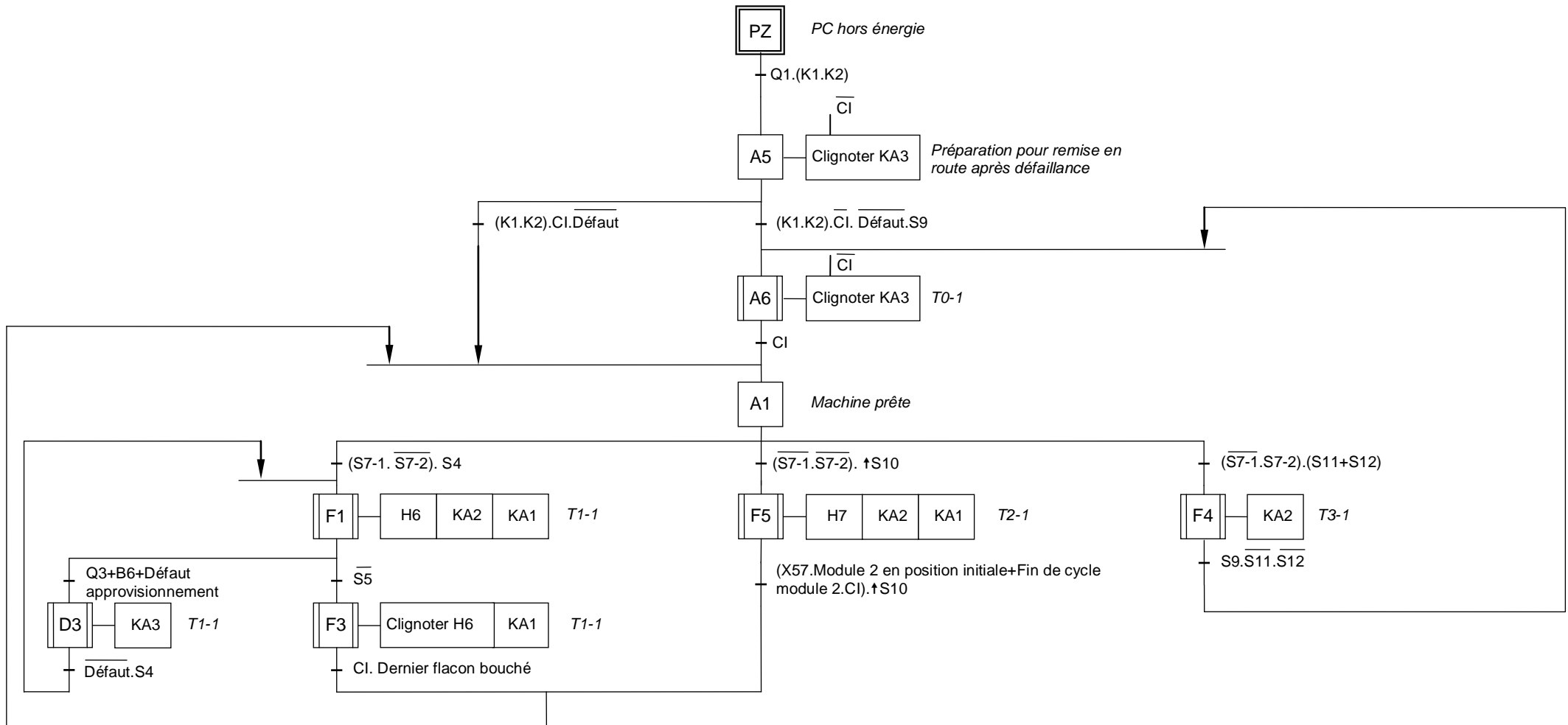
GRAFSET DE MODES DE MARCHÉ ET D'ARRET DU MODULE 1

POINT DE VUE PARTIE OPERATIVE



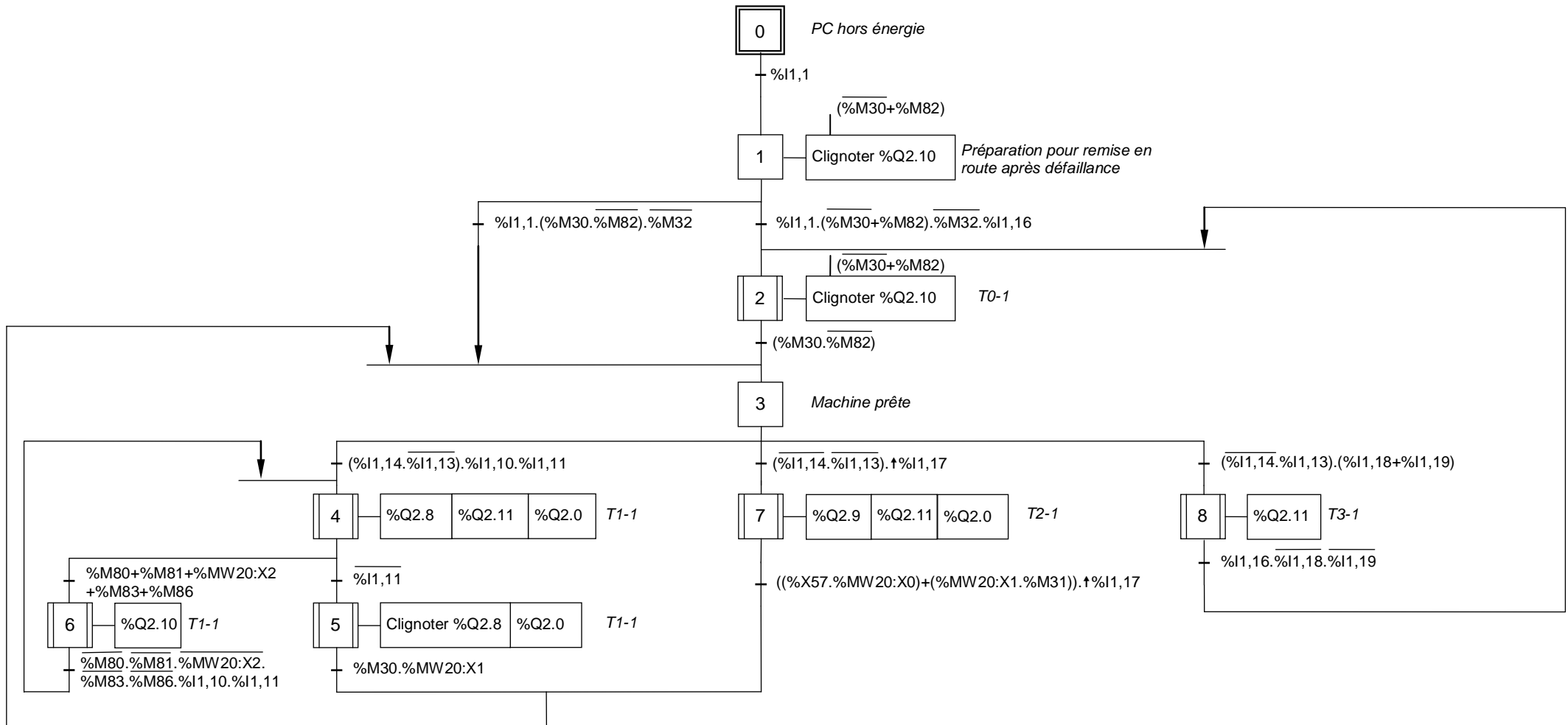
GRAFSET DE MODES DE MARCHE ET D'ARRET DU MODULE 1

POINT DE VUE PARTIE COMMANDE



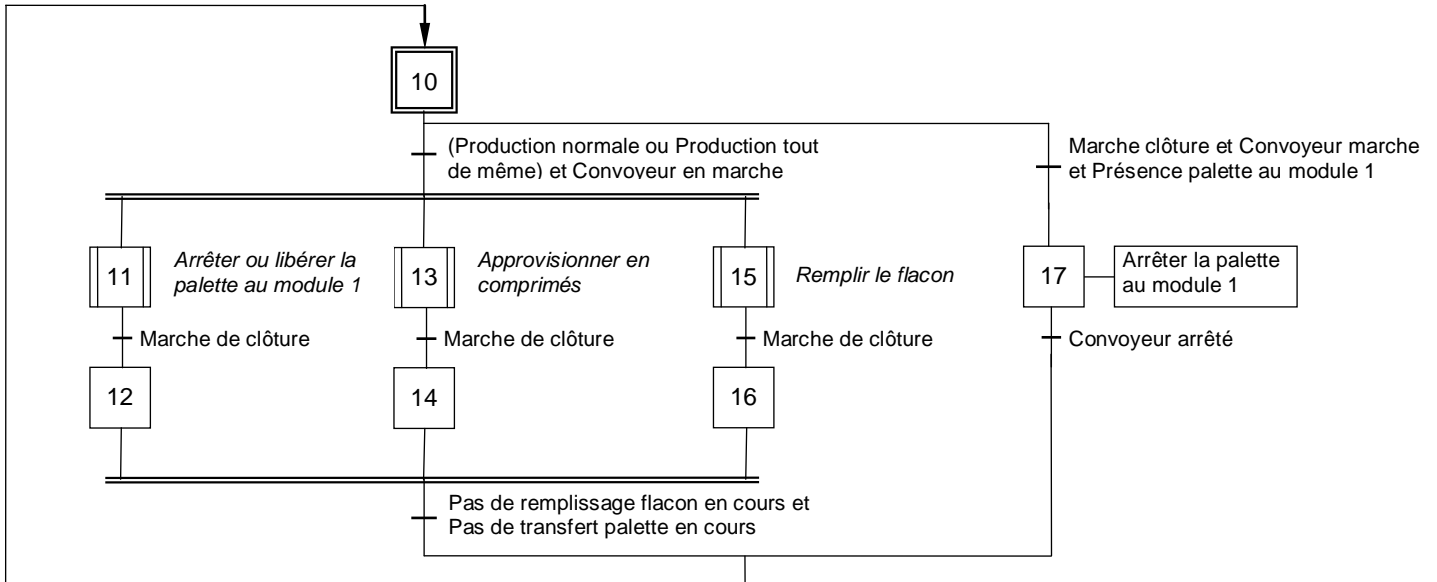
GRAFSET DE MODES DE MARCHE ET D'ARRET DU MODULE 1

POINT DE VUE AUTOMATE



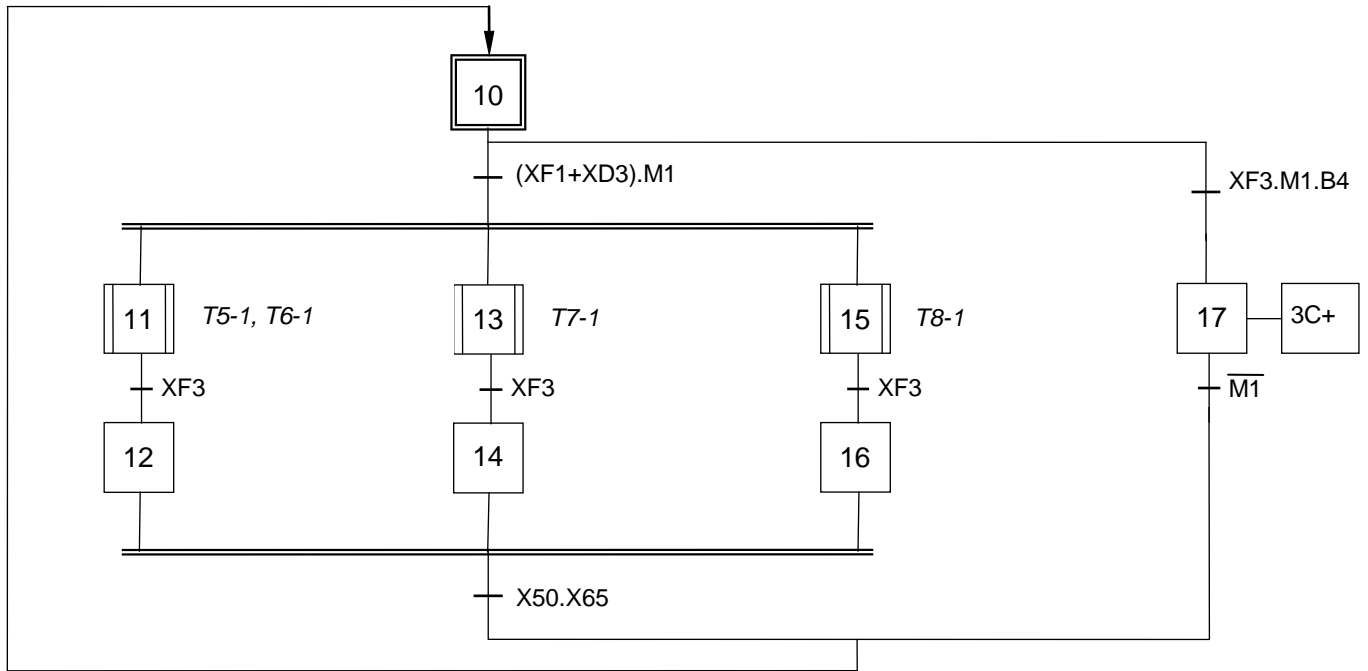
PRODUCTION AUTOMATIQUE MODULE 1 (T1-1)

POINT DE VUE SYSTEME



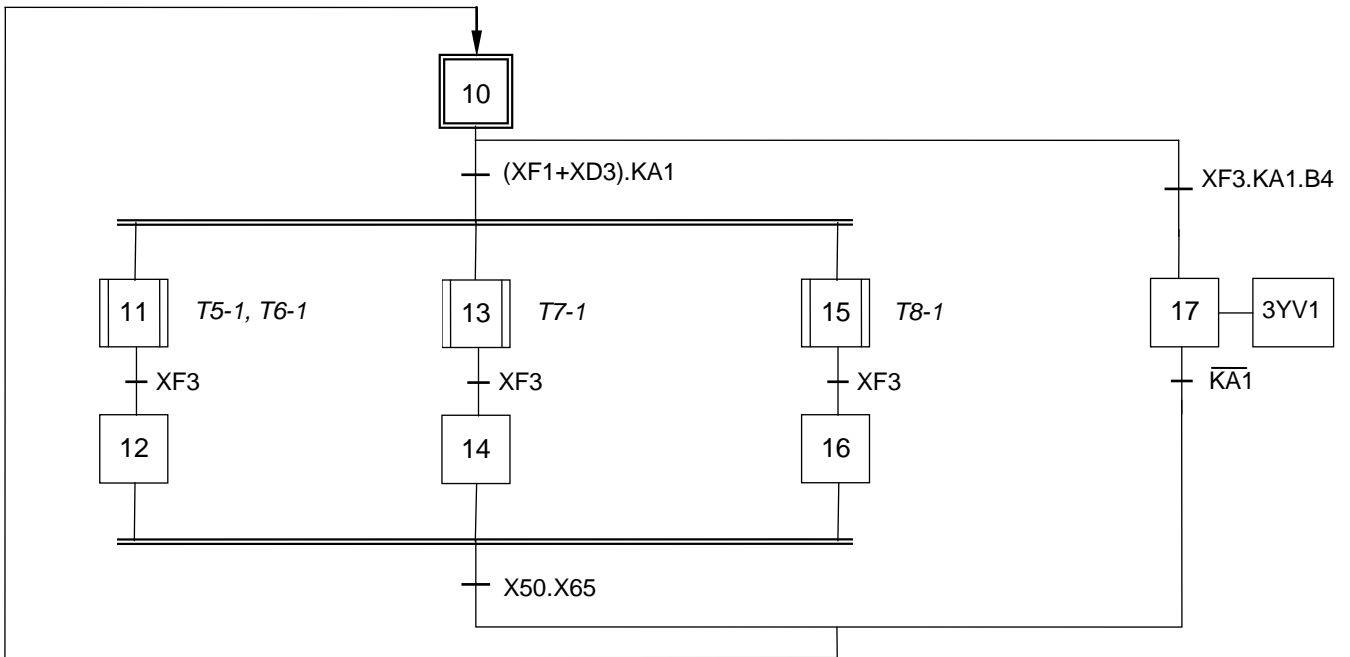
PRODUCTION AUTOMATIQUE MODULE 1 (T1-1)

POINT DE VUE PARTIE OPERATIVE



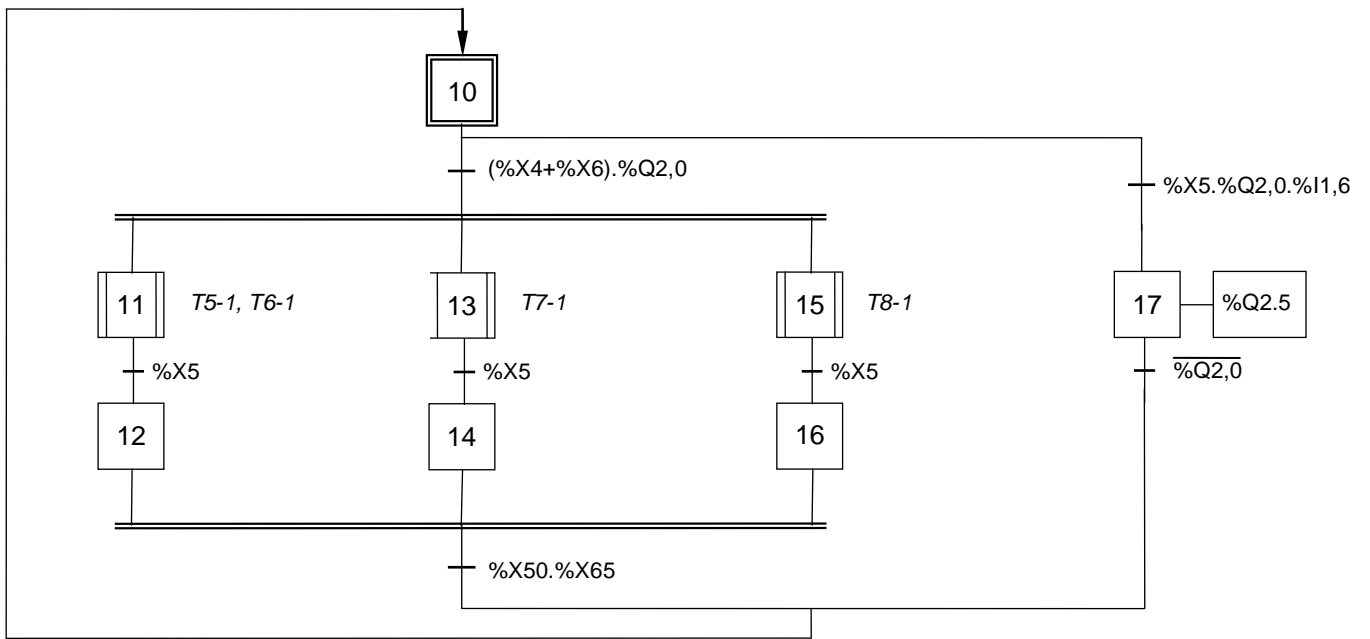
PRODUCTION AUTOMATIQUE MODULE 1 (T1-1)

POINT DE VUE PARTIE COMMANDE



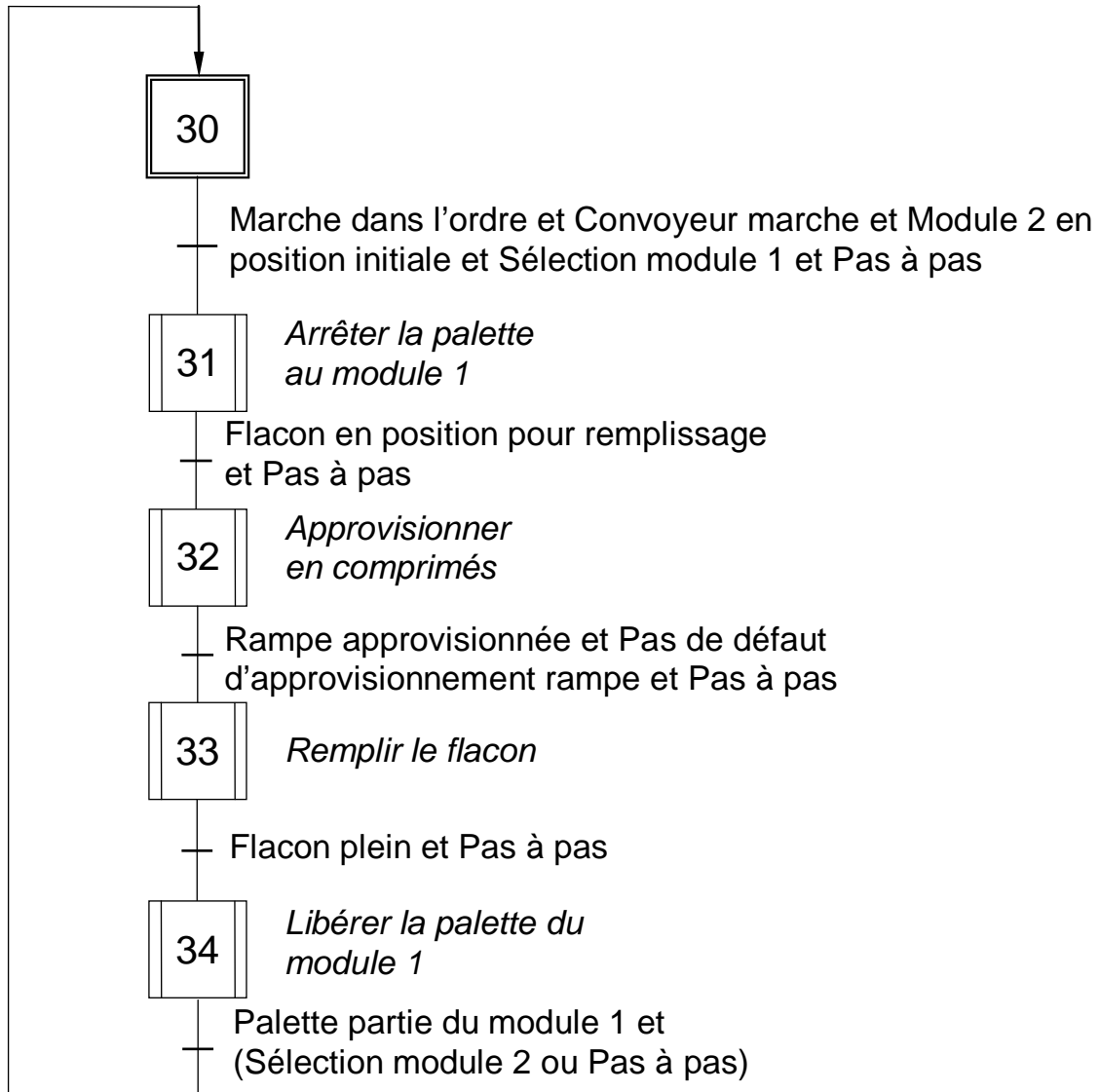
PRODUCTION AUTOMATIQUE MODULE 1 (T1-1)

POINT DE VUE AUTOMATE



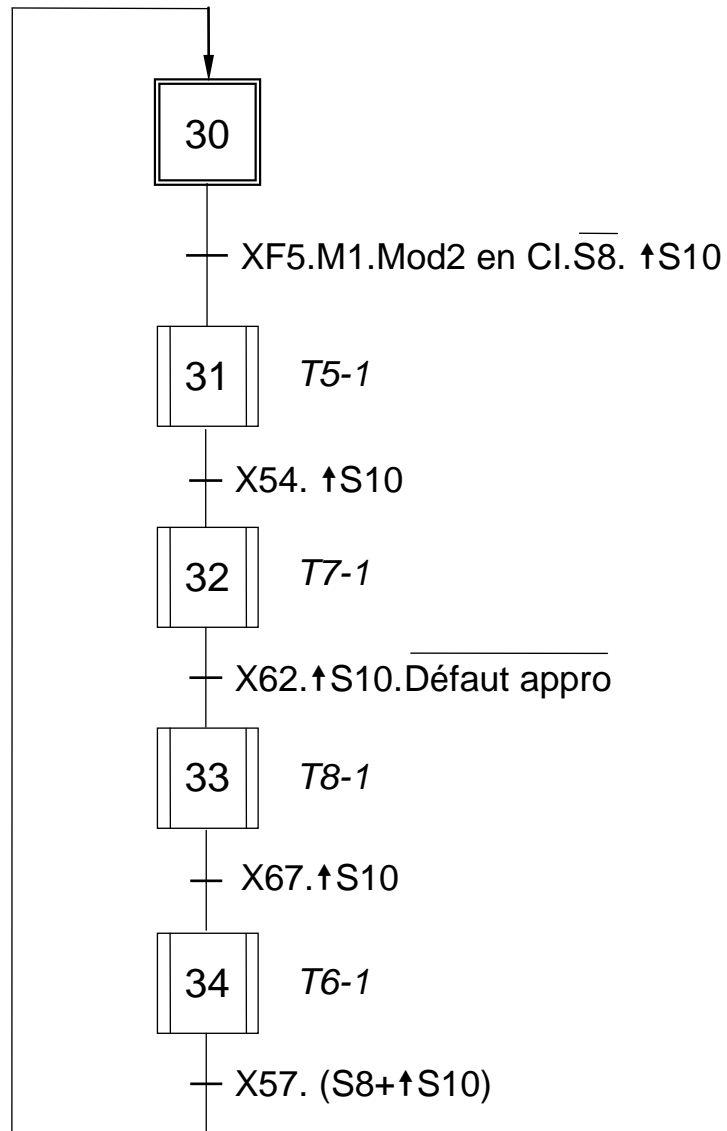
MARCHE DANS L'ORDRE DU MODULE 1 (T2-1)

POINT DE VUE SYSTEME



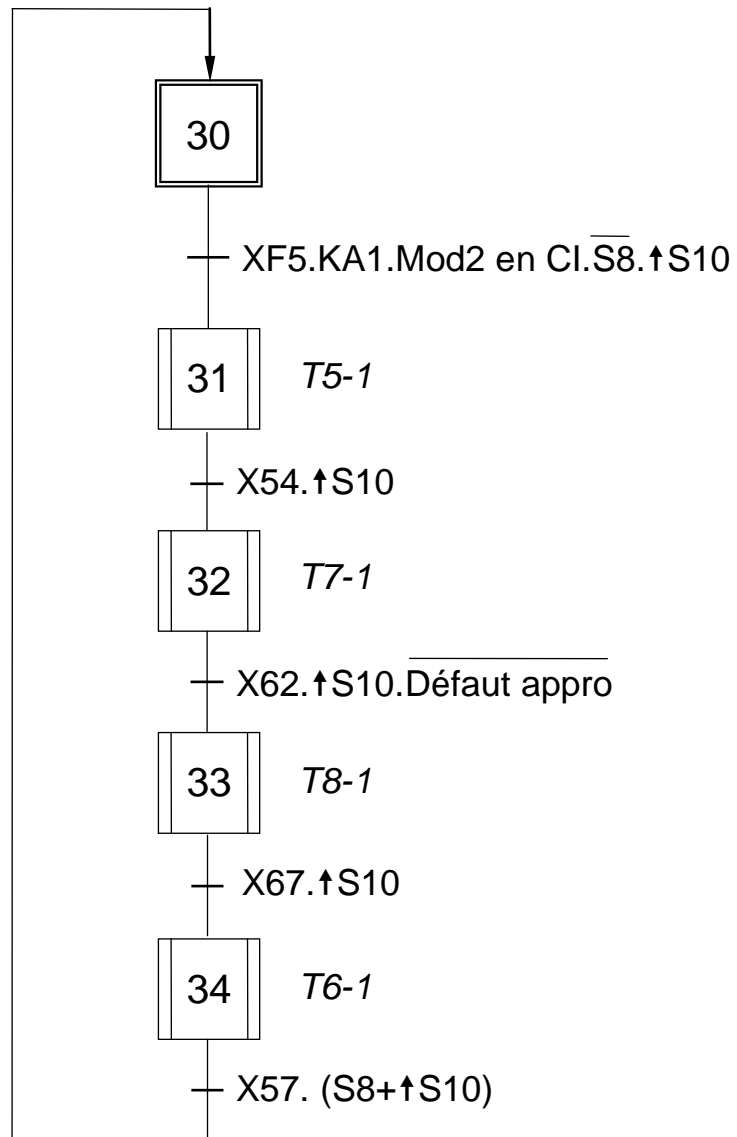
MARCHE DANS L'ORDRE DU MODULE 1 (T2-1)

POINT DE VUE PARTIE OPERATIVE



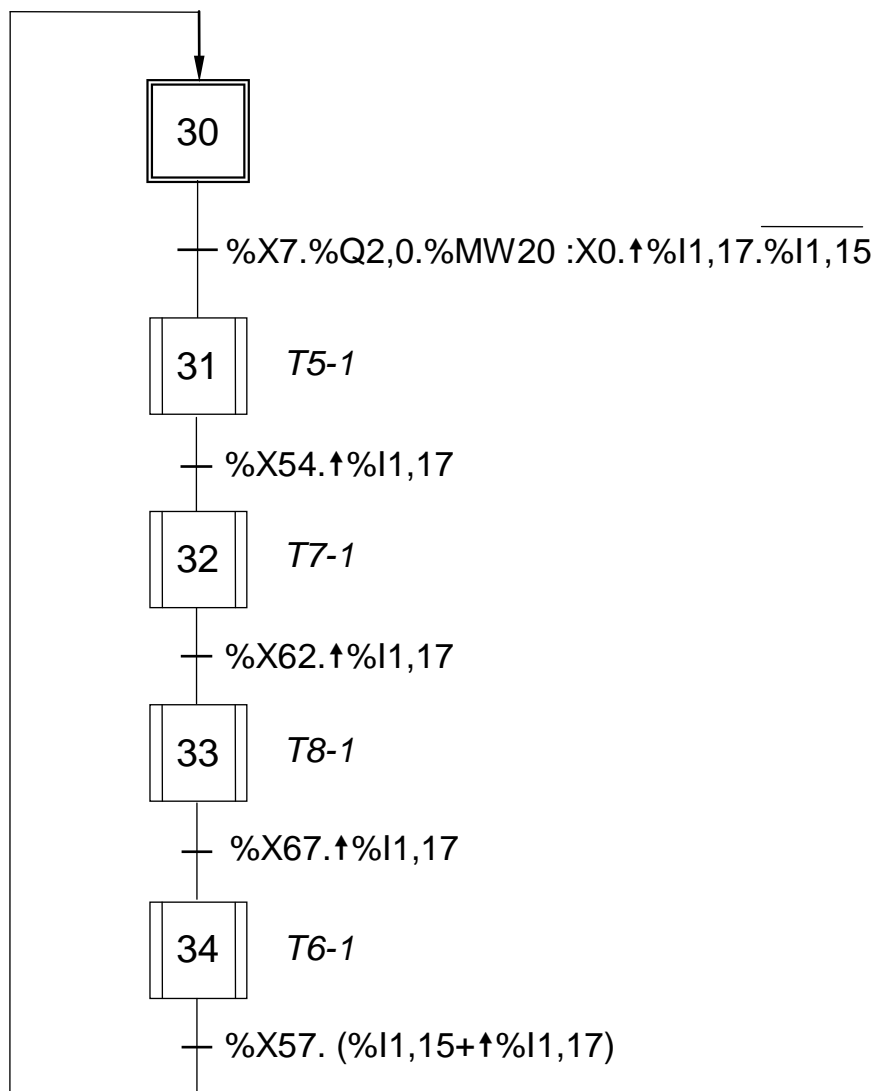
MARCHE DANS L'ORDRE DU MODULE 1 (T2-1)

POINT DE VUE PARTIE COMMANDE



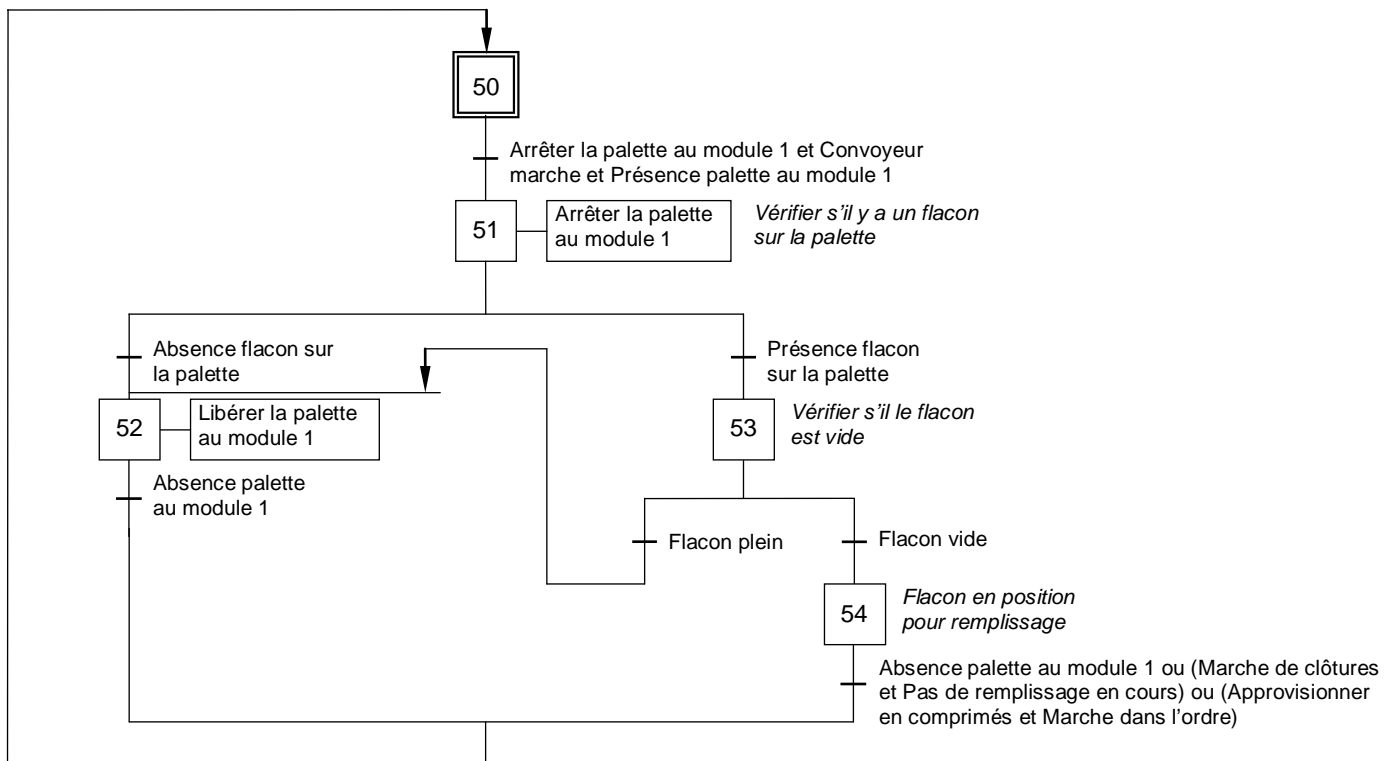
MARCHE DANS L'ORDRE DU MODULE 1 (T2-1)

POINT DE VUE AUTOMATE



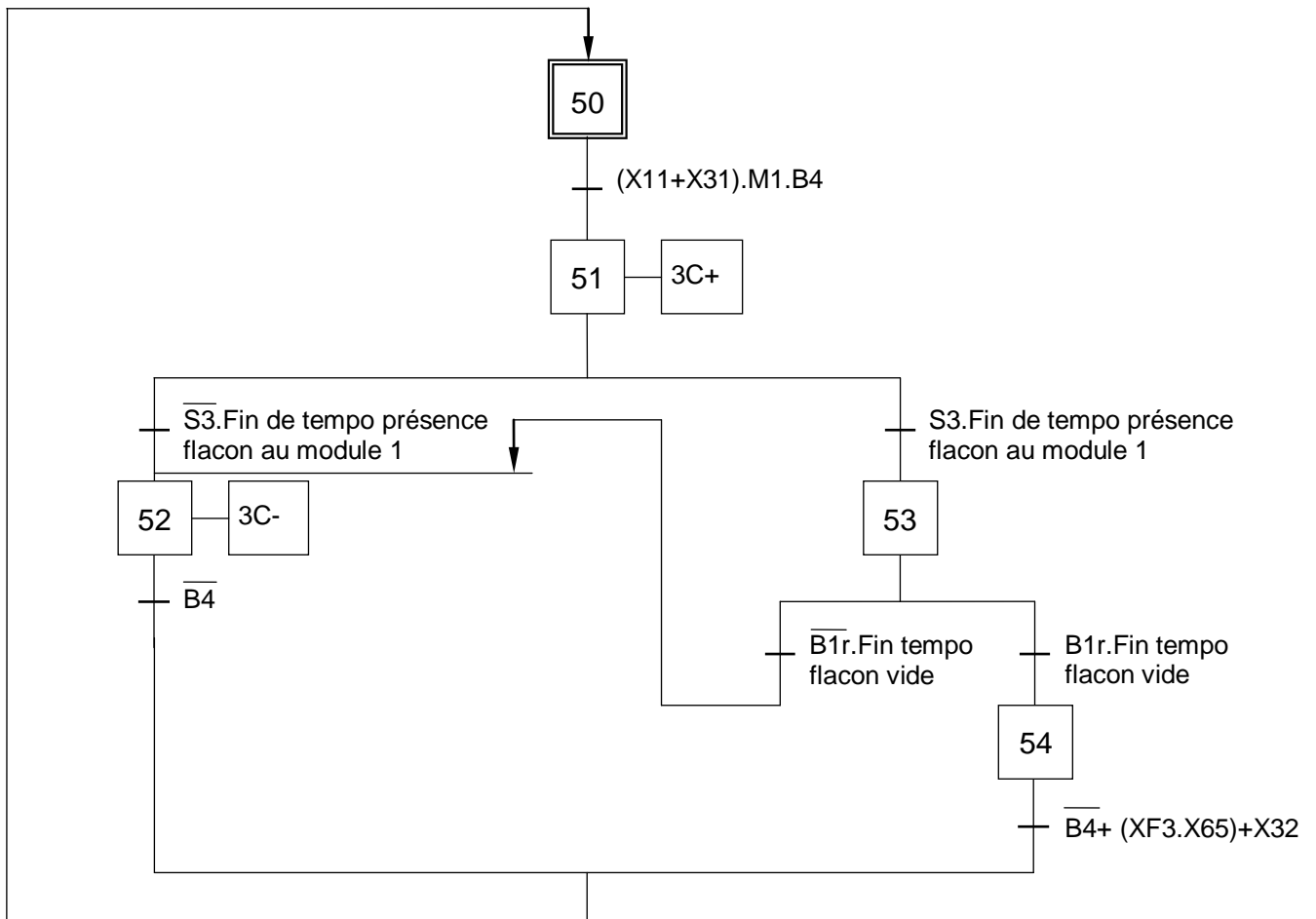
ARRETER LA PALETTE AU MODULE 1 (T5-1)

POINT DE VUE SYSTEME



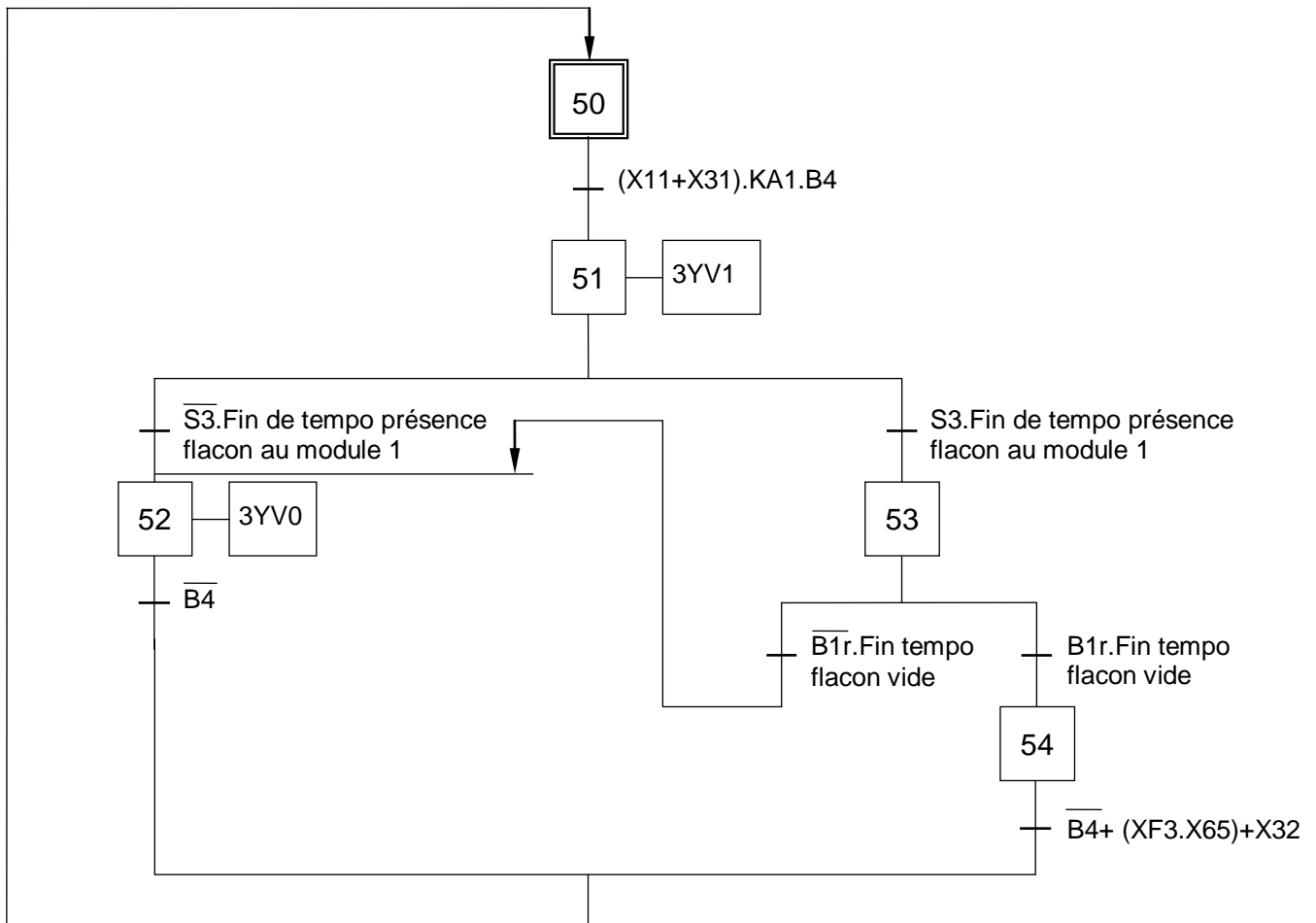
ARRETER LA PALETTE AU MODULE 1 (T5-1)

POINT DE VUE PARTIE OPERATIVE



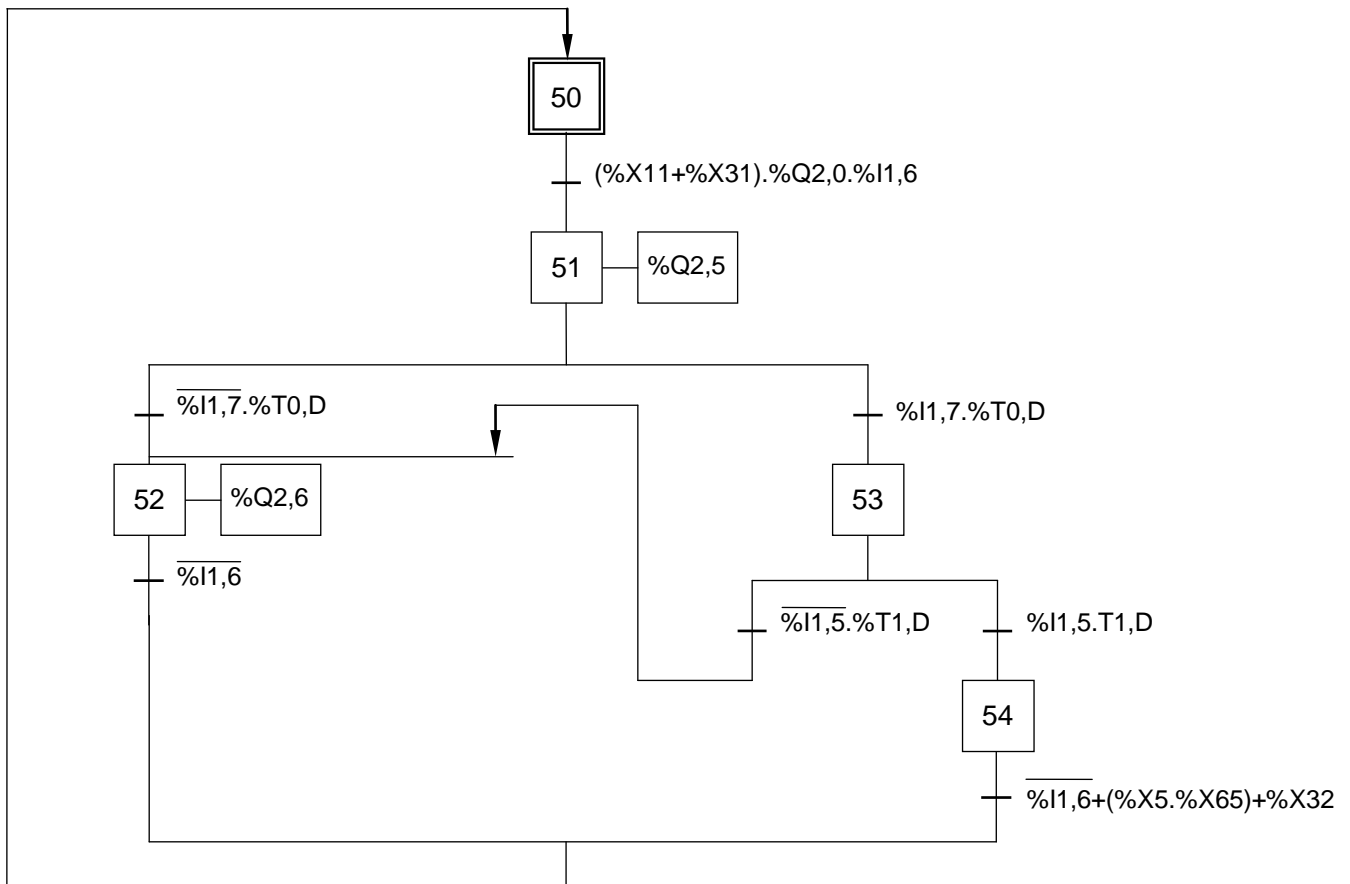
ARRETER LA PALETTE AU MODULE 1 (T5-1)

POINT DE VUE PARTIE COMMANDE



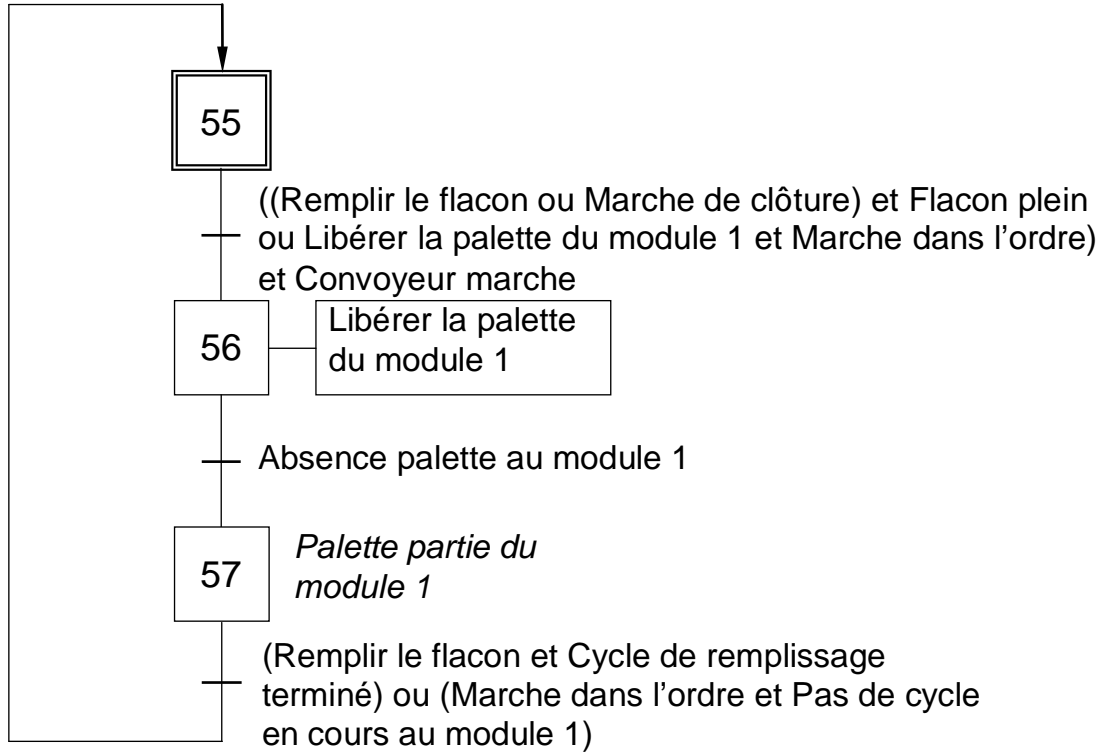
ARRETER LA PALETTE AU MODULE 1 (T5-1)

POINT DE VUE AUTOMATE



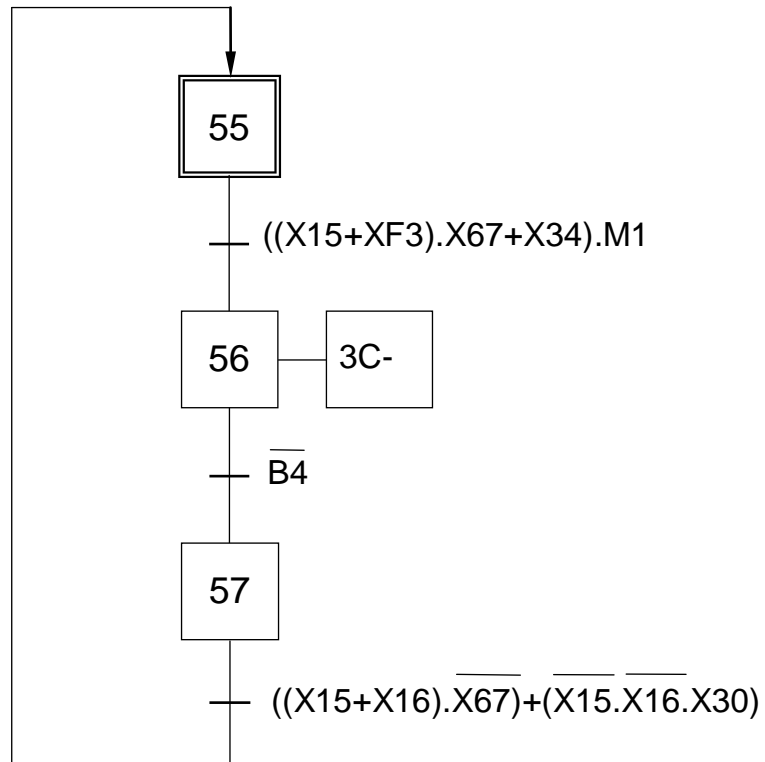
LIBERER LA PALETTE AU MODULE 1 (T6-1)

POINT DE VUE SYSTEME



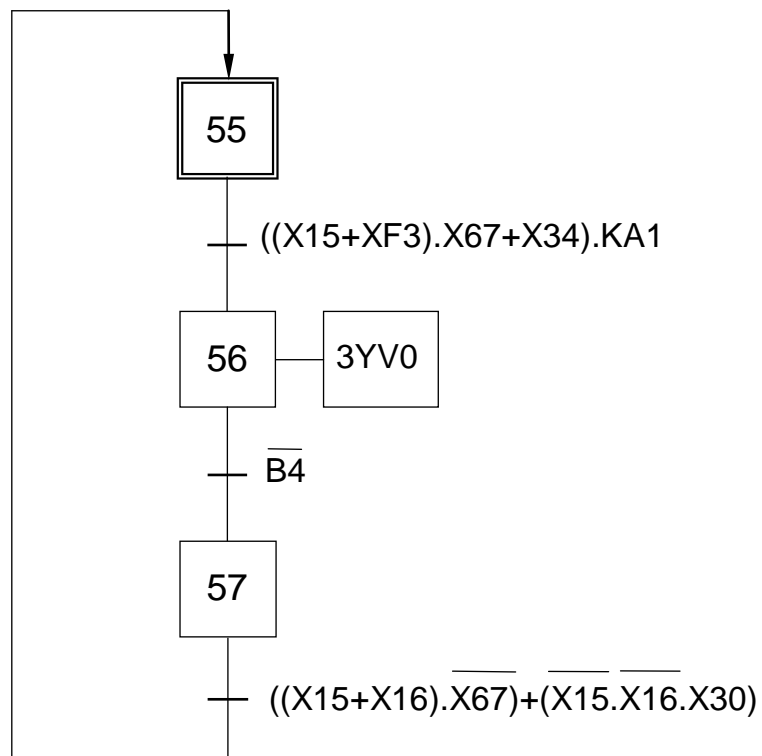
LIBERER LA PALETTE AU MODULE 1 (T6-1)

POINT DE VUE PARTIE OPERATIVE



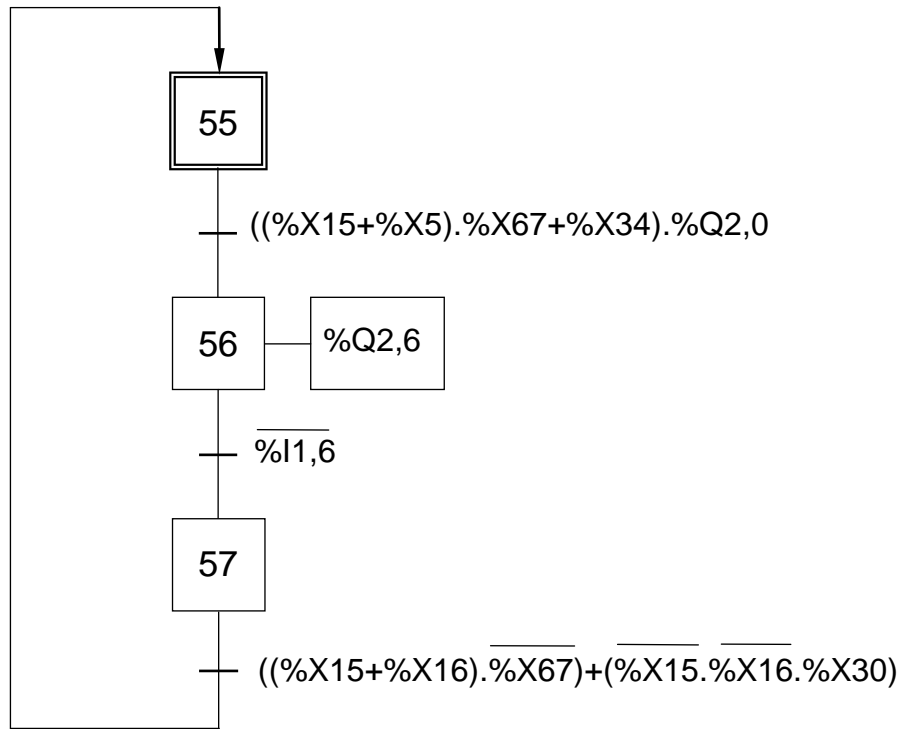
LIBERER LA PALETTE AU MODULE 1 (T6-1)

POINT DE VUE PARTIE COMMANDE



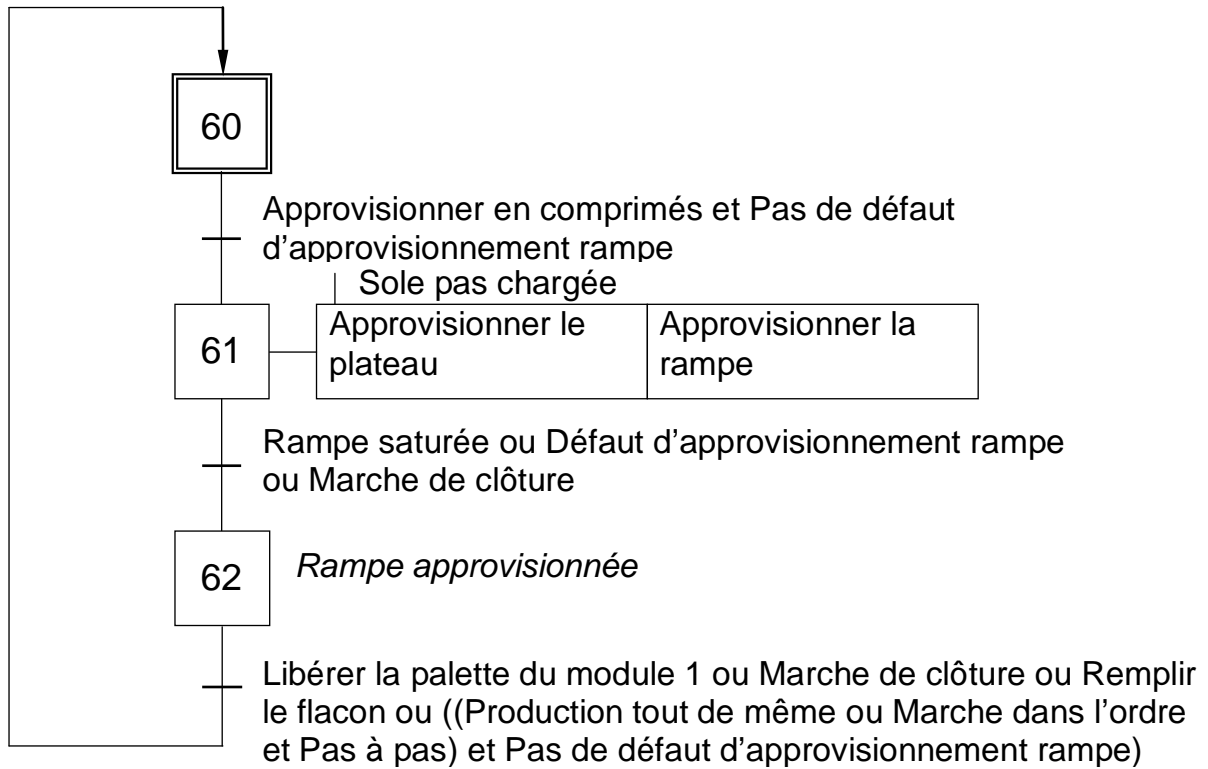
LIBERER LA PALETTE AU MODULE 1 (T6-1)

POINT DE VUE AUTOMATE



APPROVISIONNER EN COMPRIMÉS (T7-1)

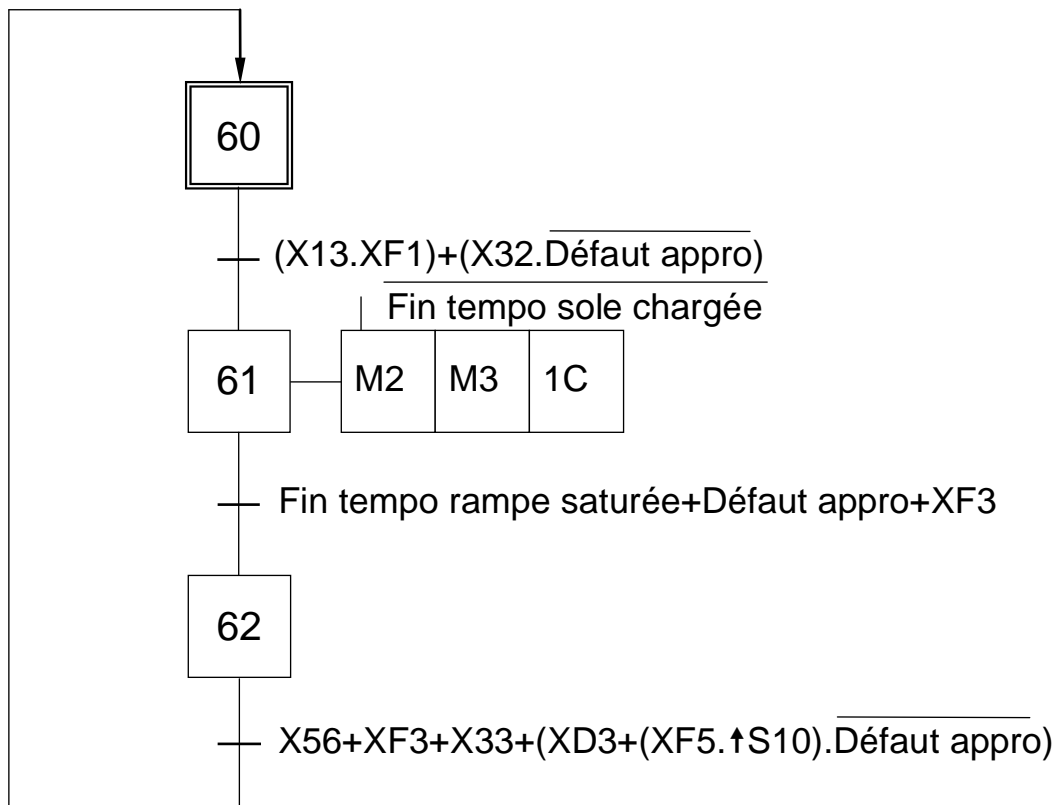
POINT DE VUE SYSTEME



Approvisionner en comprimés = approvisionner en comprimés en production normale ou en marche dans l'ordre

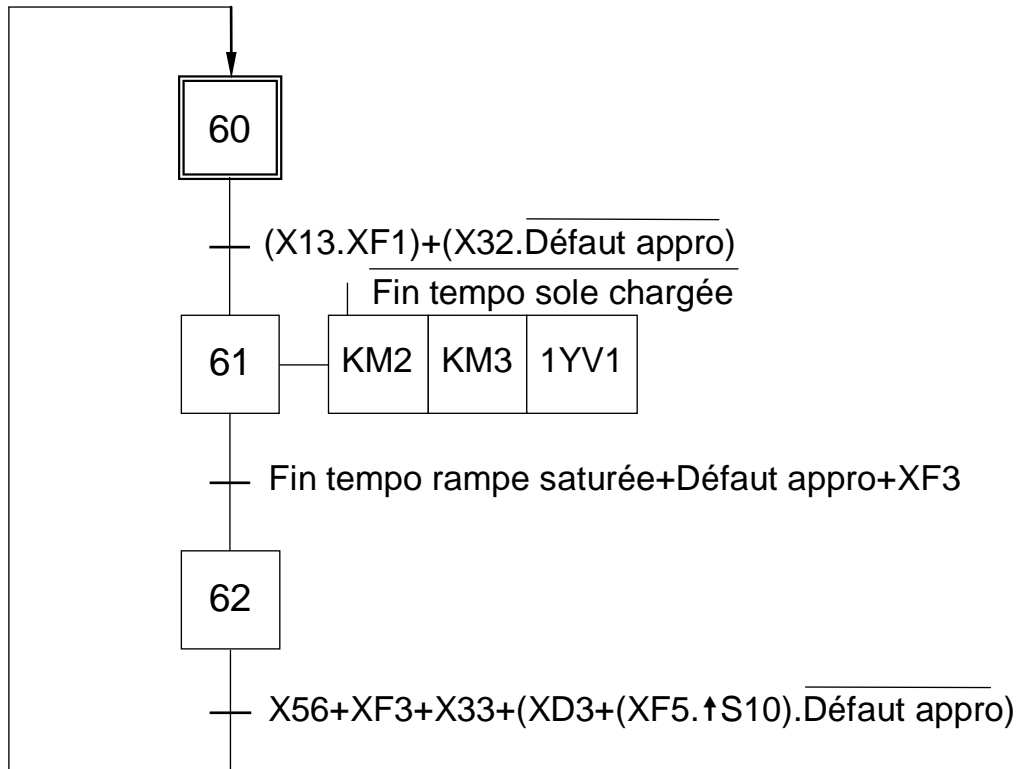
APPROVISIONNER EN COMPRIMES (T7-1)

POINT DE VUE PARTIE OPERATIVE



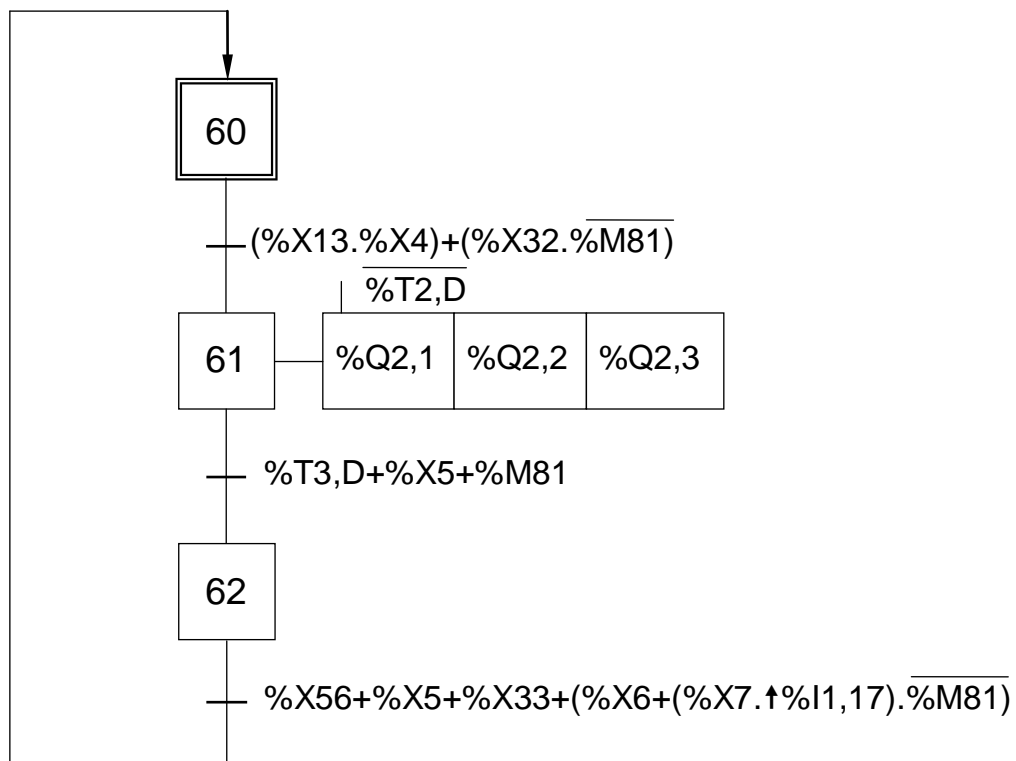
APPROVISIONNER EN COMPRIMES (T7-1)

POINT DE VUE PARTIE COMMANDE



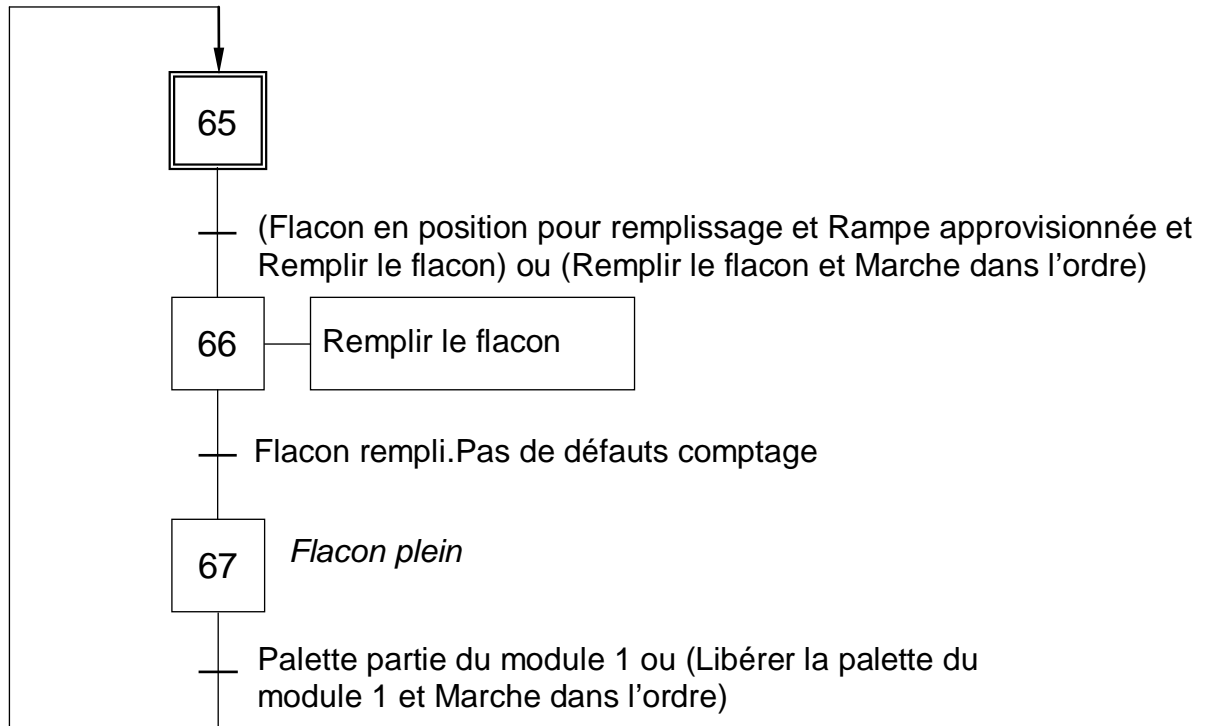
APPROVISIONNER EN COMPRIMES (T7-1)

POINT DE VUE AUTOMATE



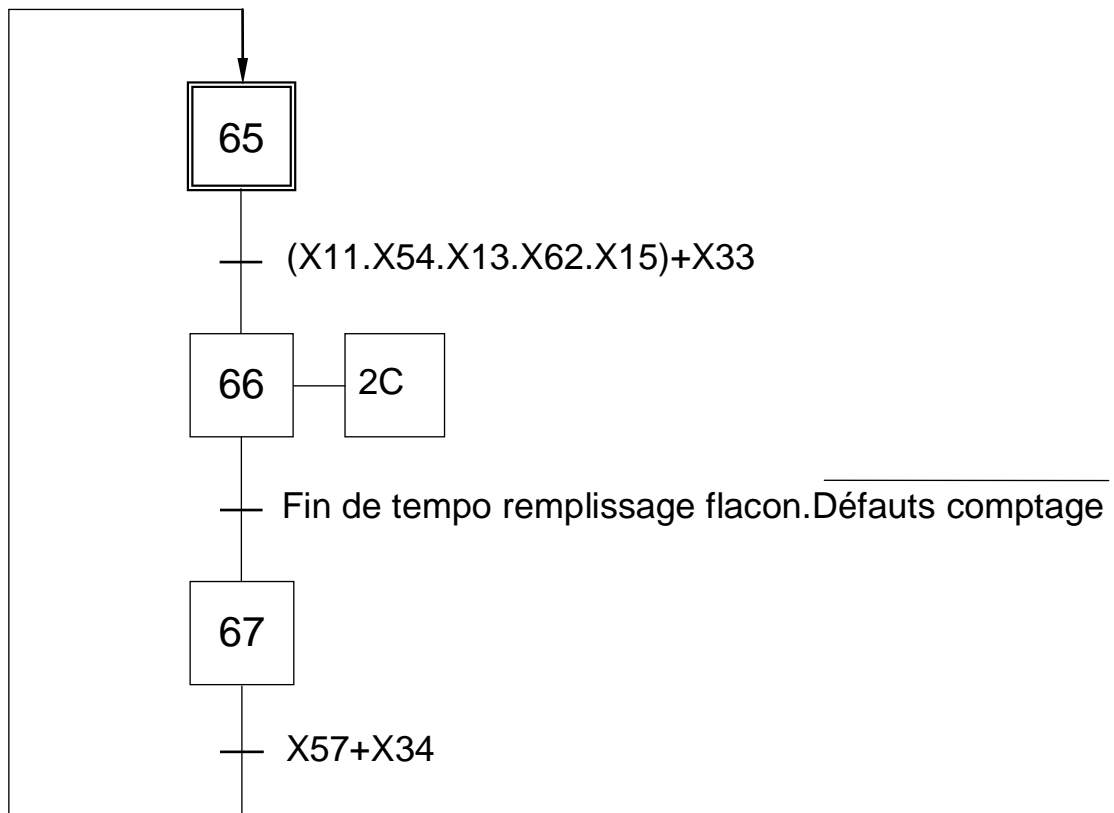
REEMPLIR LE FLACON (T8-1)

POINT DE VUE SYSTEME



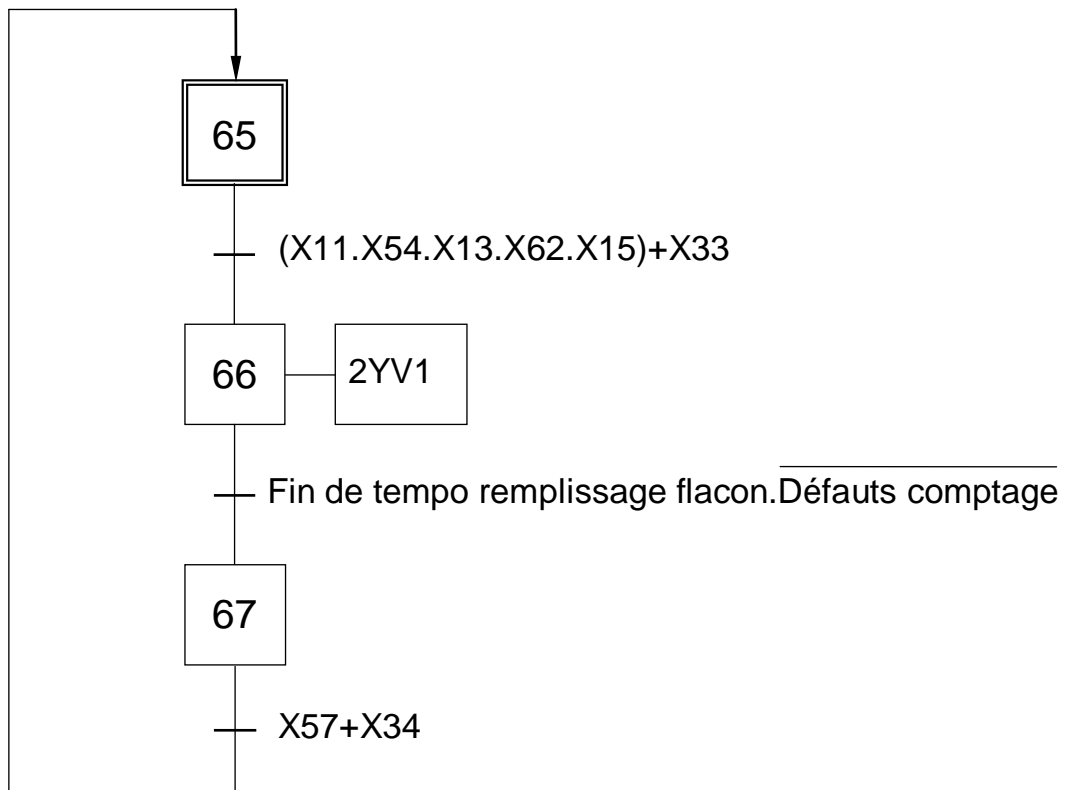
REMPLIR LE FLACON (T8-1)

POINT DE VUE PARTIE OPERATIVE



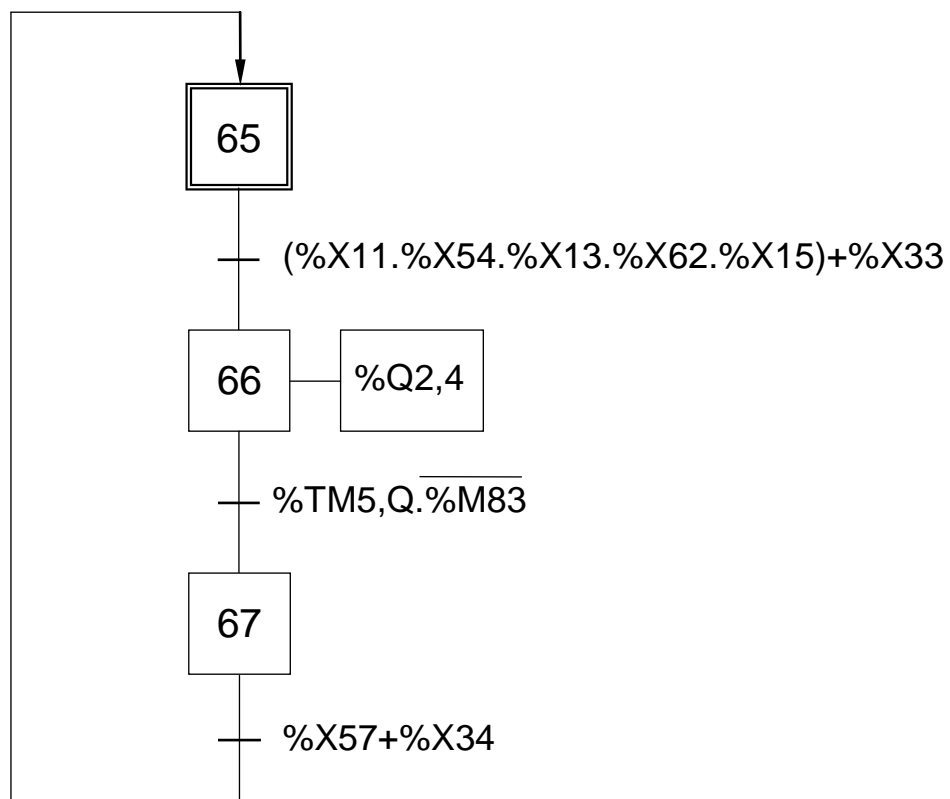
REEMPLIR LE FLACON (T8-1)

POINT DE VUE PARTIE COMMANDE



REEMPLIR LE FLACON (T8-1)

POINT DE VUE AUTOMATE



ENTREES	LIBELLES	APPELLATIONS
%I1.0	Nombre de comprimés	B1
%I1.1	En service	
%I1.2	Disjoncteur moteur convoyeur	Q3
%I1.3	Charge de sole	B2
%I1.4	Saturation rampe	B3
%I1.5	Flacon vide	B1r
%I1.6	Présence palette au module 1	B4
%I1.7	Présence flacon au module 1	S3
%I1.8	Réserve	
%I1.9	Pupitre / XBT	S16
%I1.10	Marche	S4
%I1.11	Arrêt	S5
%I1.12	Acquittement défaut	S6
%I1.13	Marche dans le désordre	S7
%I1.14	Production normale	
%I1.15	Module 1 / Module 2	S8
%I1.16	Initialisation	S9
%I1.17	Pas à pas	S10
%I1.18	Marche - Sortie	S11
%I1.19	Arrêt - Rentrée	S12
%I1.20	Roue codeuse unité a	S13
%I1.21	Roue codeuse unité b	
%I1.22	Roue codeuse unité c	
%I1.23	Roue codeuse unité d	
%I1.24	Roue codeuse dizaine a	S14
%I1.25	Roue codeuse dizaine b	
%I1.26	Roue codeuse dizaine c	
%I1.27	Roue codeuse dizaine d	
%I1.28	Réserve	
%I1.29	Réserve	
%I1.30	Réserve	

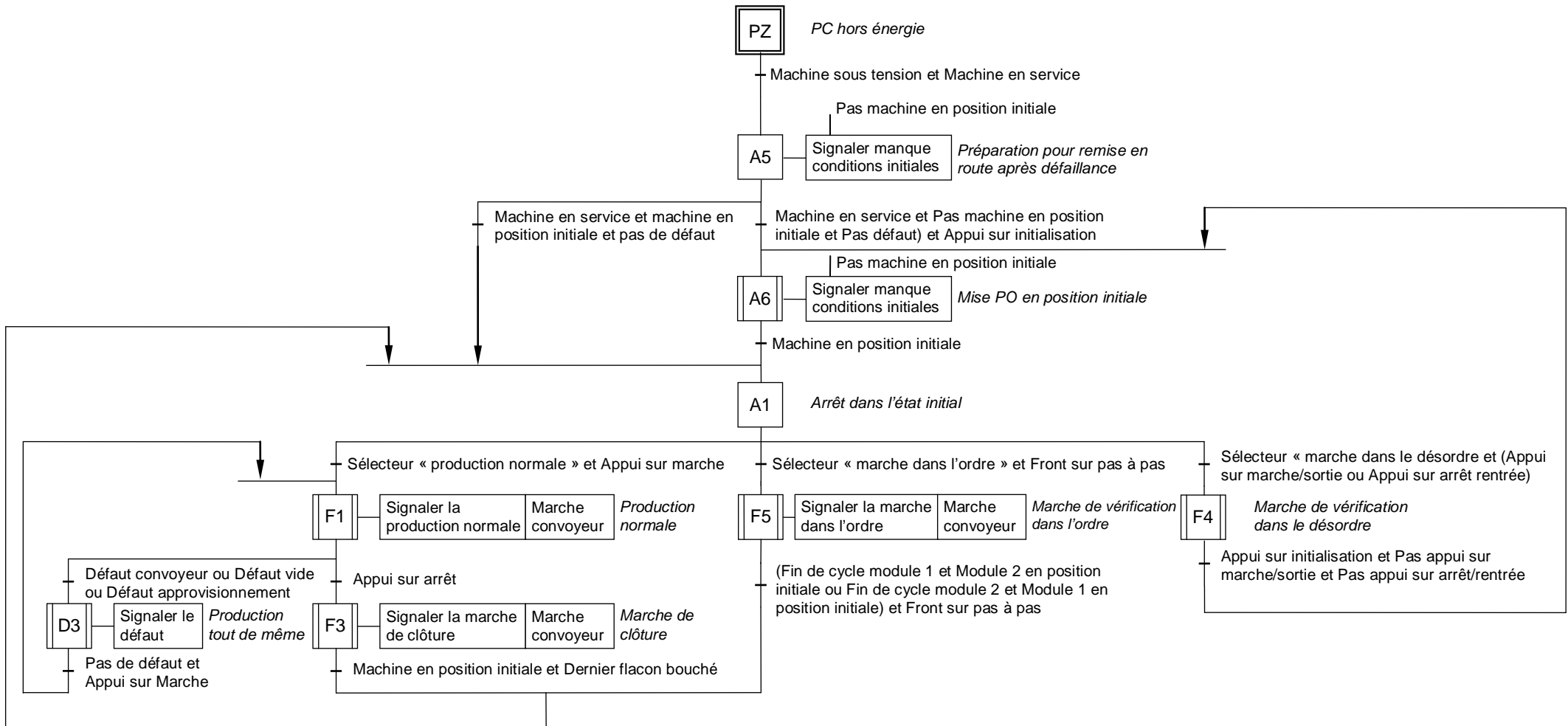
SORTIES	LIBELLES	REMARQUES	APPELLATIONS
%Q2.0	Convoyeur	KA1	M1
%Q2.1	Vibreux	KM2	M2
%Q2.2	Moteur sole	KM3	M3
%Q2.3	Rentrée vérin haut rampe	1YV1	1C
%Q2.4	Rentrée vérin bas rampe	2YV1	2C
%Q2.5	Sortie vérin d'arrêt module 1	3YV1	3C+
%Q2.6	Rentrée vérin d'arrêt module 1	3YV0	3C-
%Q2.7	Réserve		
%Q2.8	Voyant production normale		H6
%Q2.9	Voyant marche dans l'ordre		H7
%Q2.10	Balise rouge (défaut-init)	KA3	
%Q2.11	Balise verte (en fonctionnement)	KA2	
%Q2.12	Réserve		
%Q2.13	Réserve		
%Q2.14	Réserve		

GRAFCET

MODULE 2

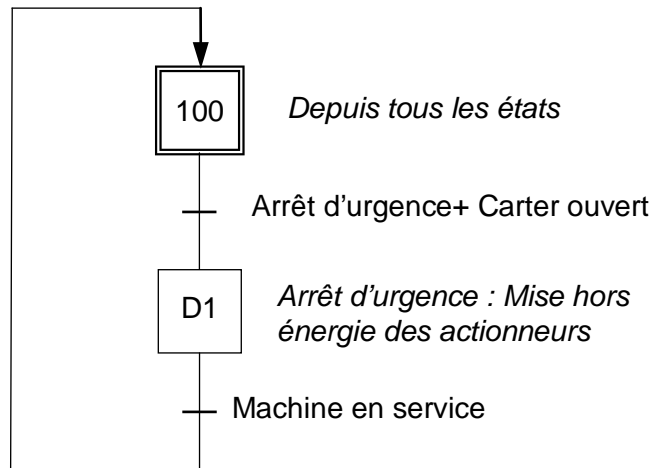
GRAFNET DE MODES DE MARCHÉ ET D'ARRÊT DU MODULE 2

POINT DE VUE SYSTEME

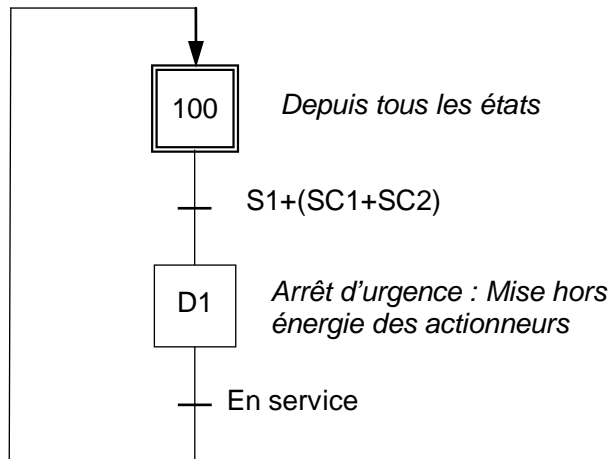


GRAFNET DE SECURITE

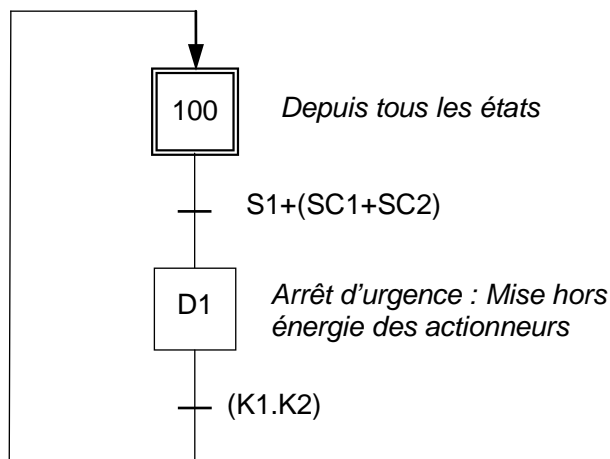
POINT DE VUE SYSTEME



POINT DE VUE PARTIE OPERATIVE

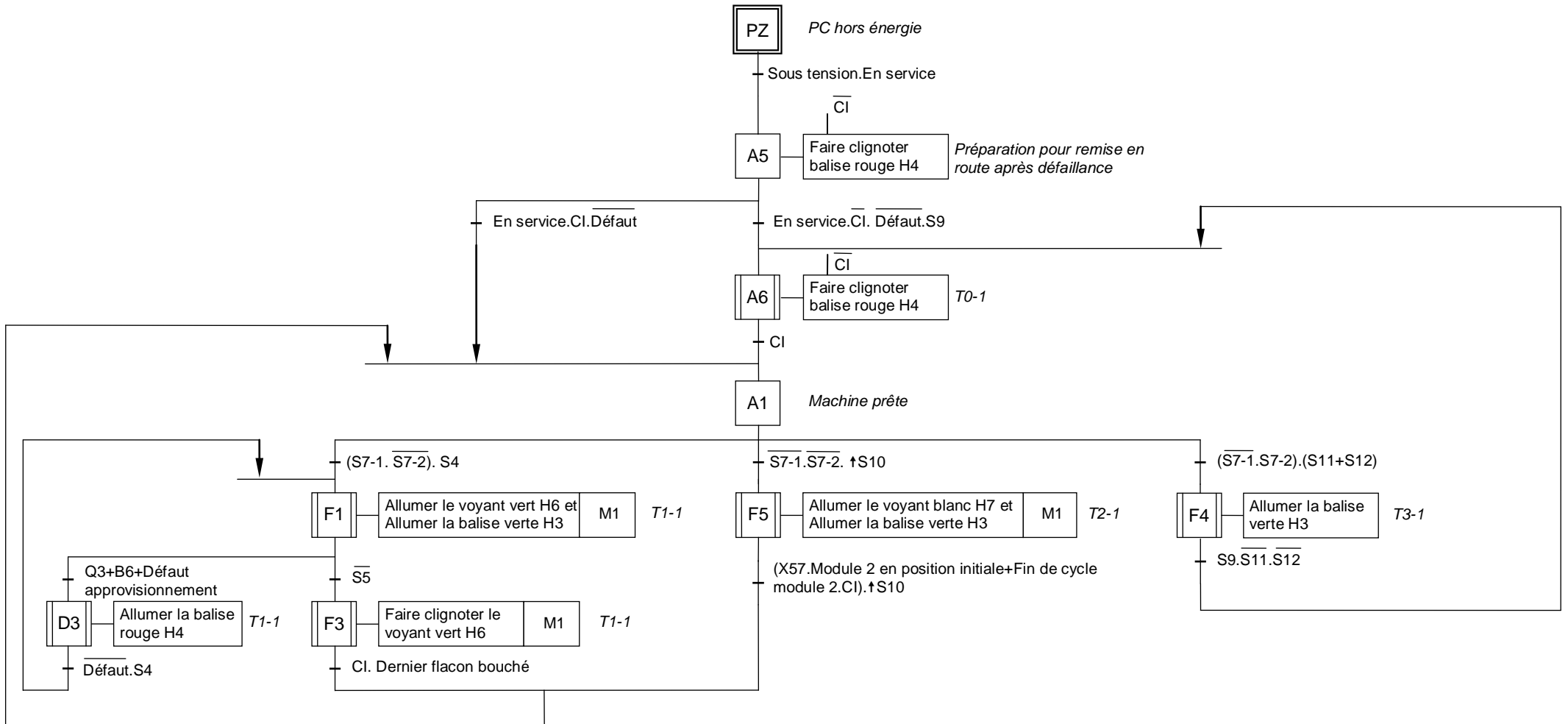


POINT DE VUE PARTIE COMMANDE



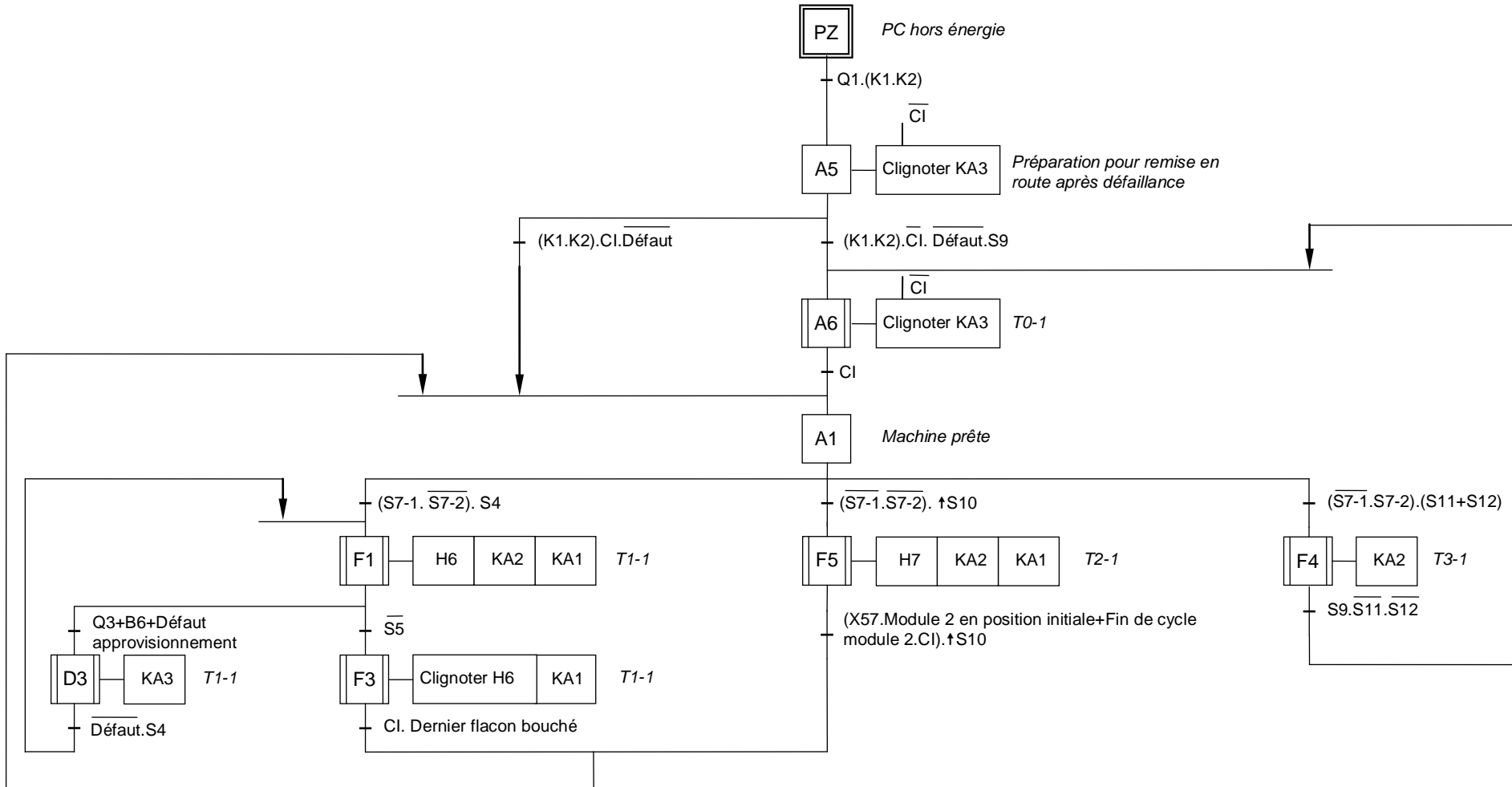
GRAFSET DE MODES DE MARCHÉ ET D'ARRET DU MODULE 2

POINT DE VUE PARTIE OPERATIVE



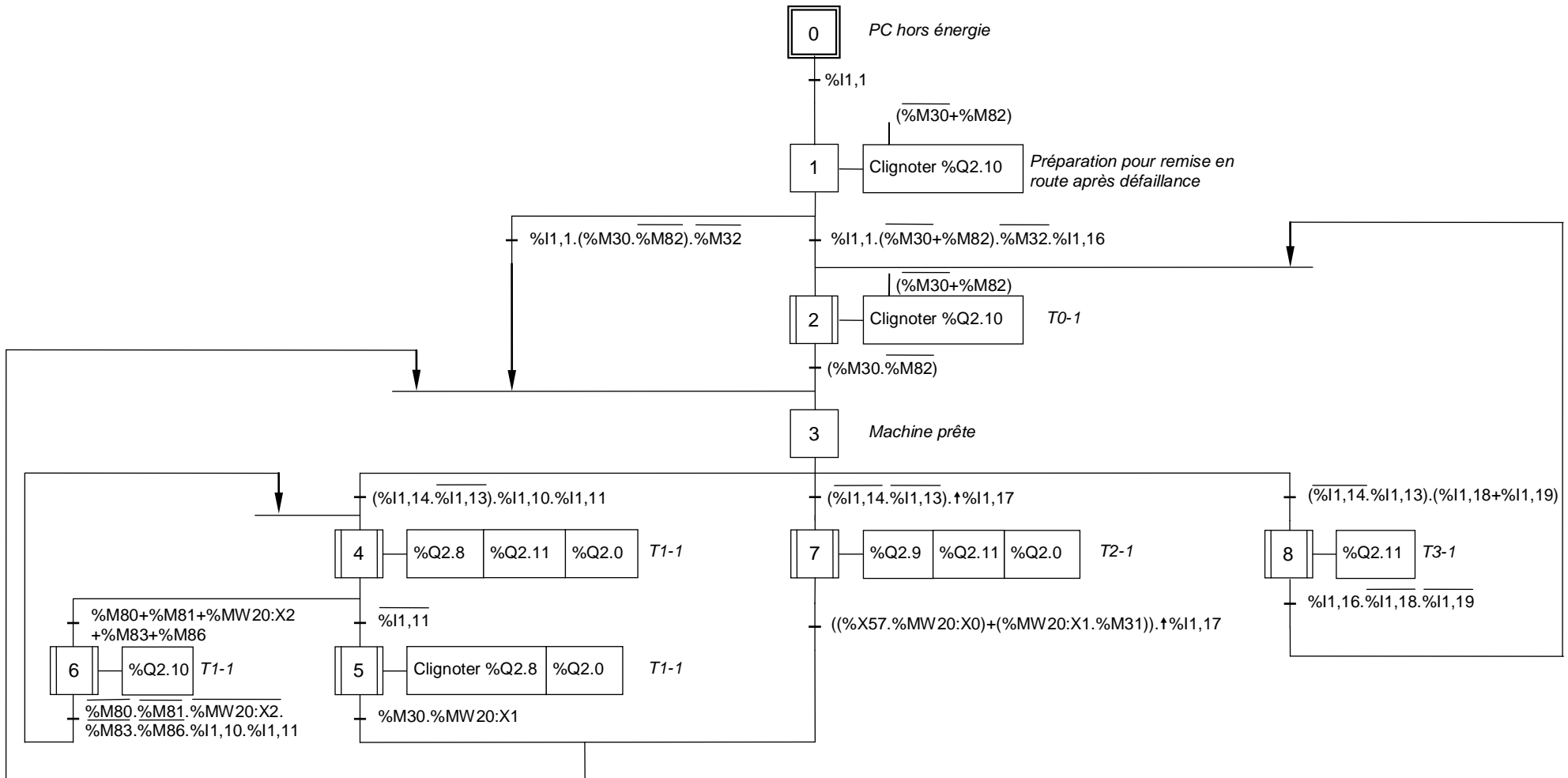
GRAFSET DE MODES DE MARCHE ET D'ARRET DU MODULE 2

POINT DE VUE PARTIE COMMANDE



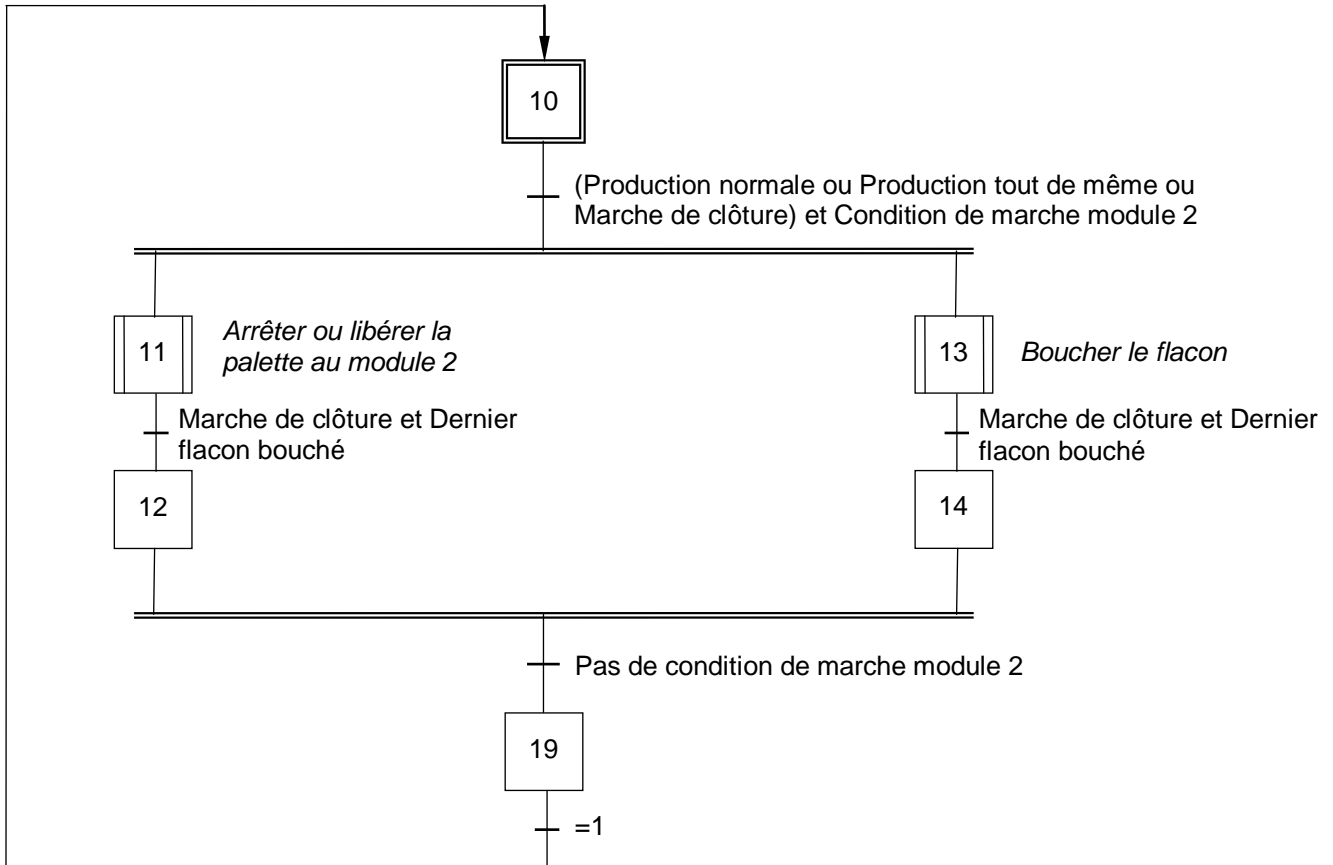
GRAFSET DE MODES DE MARCHE ET D'ARRET DU MODULE 2

POINT DE VUE AUTOMATE



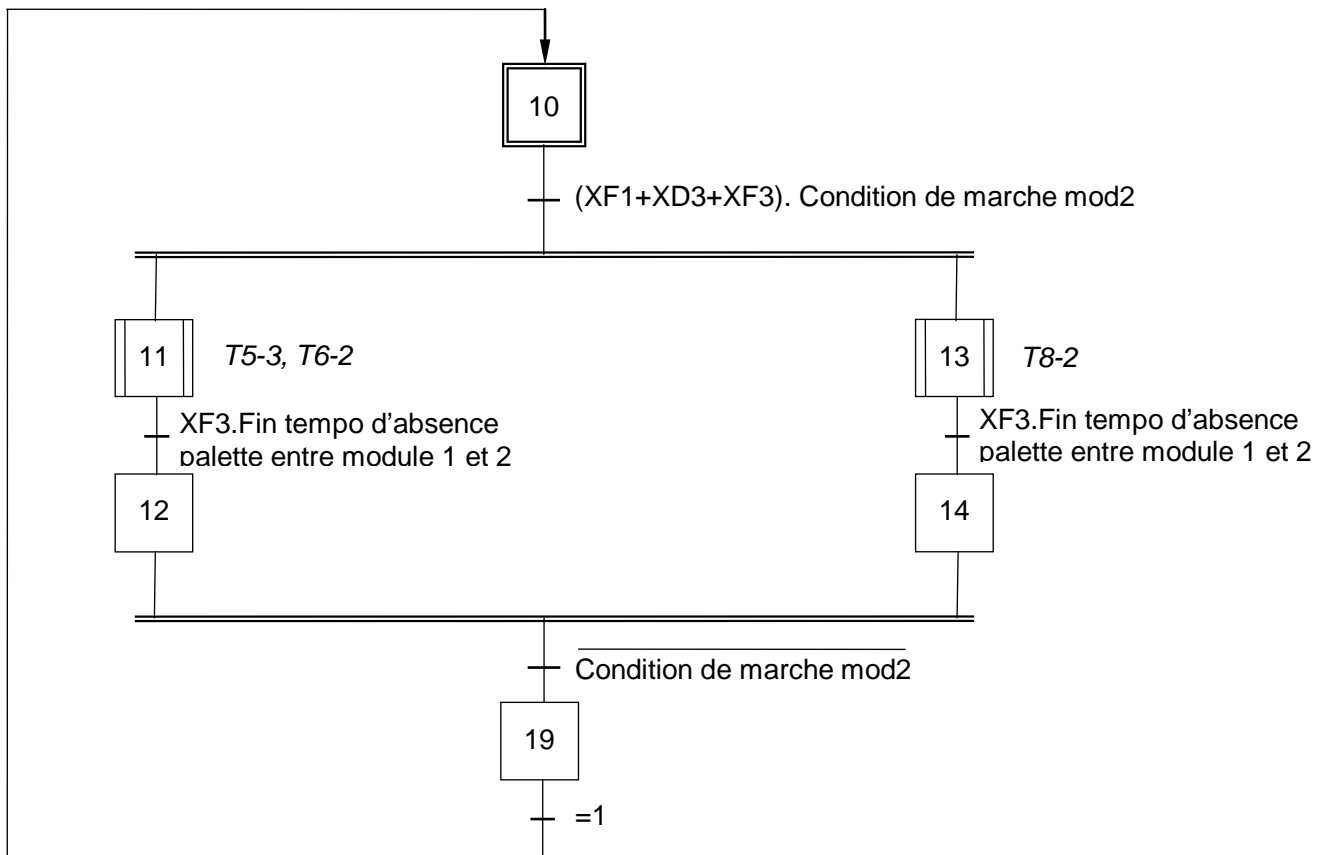
PRODUCTION AUTOMATIQUE MODULE 2 (T1-2)

POINT DE VUE SYSTEME



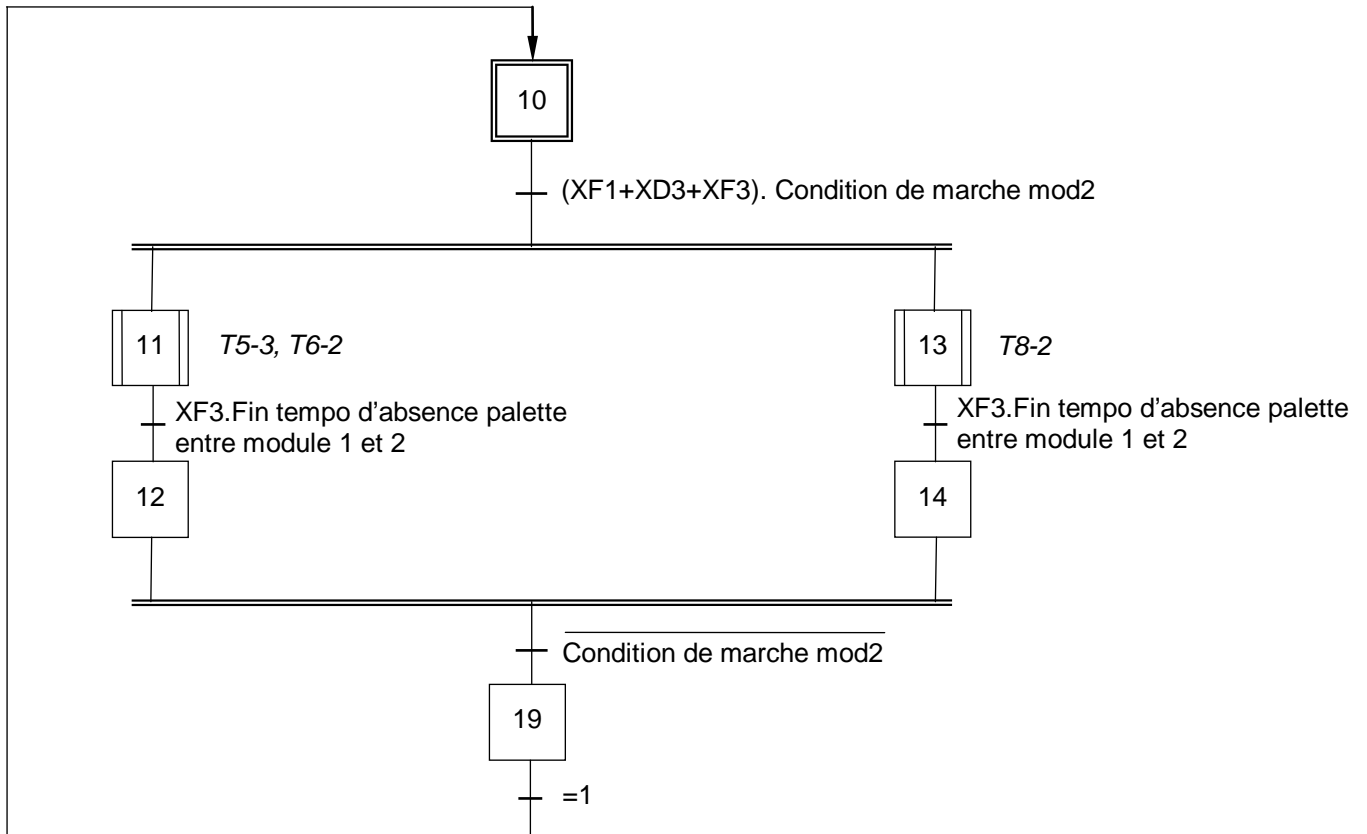
PRODUCTION AUTOMATIQUE MODULE 2 (T1-2)

POINT DE VUE PARTIE OPERATIVE



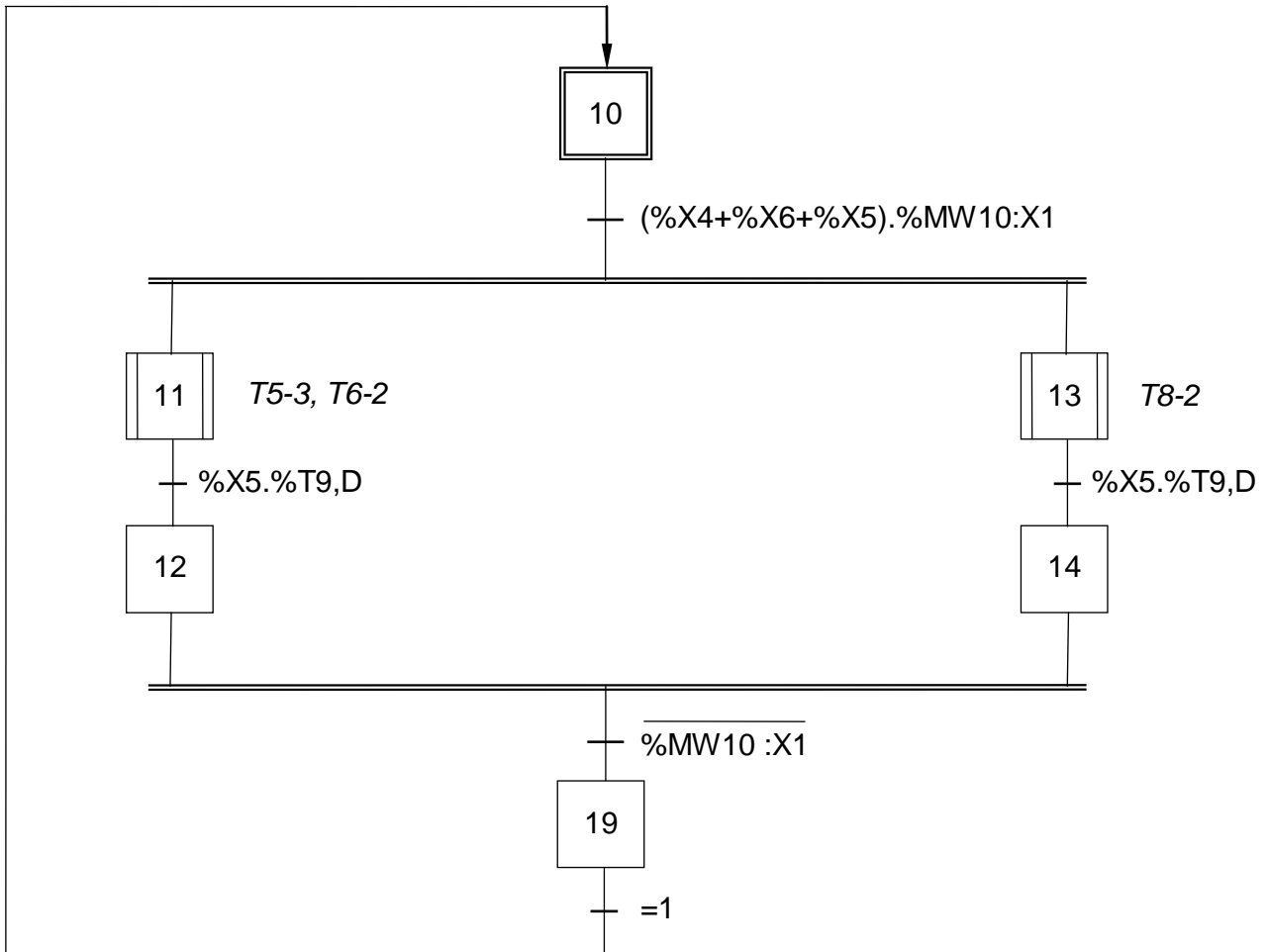
PRODUCTION AUTOMATIQUE MODULE 2 (T1-2)

POINT DE VUE PARTIE COMMANDE



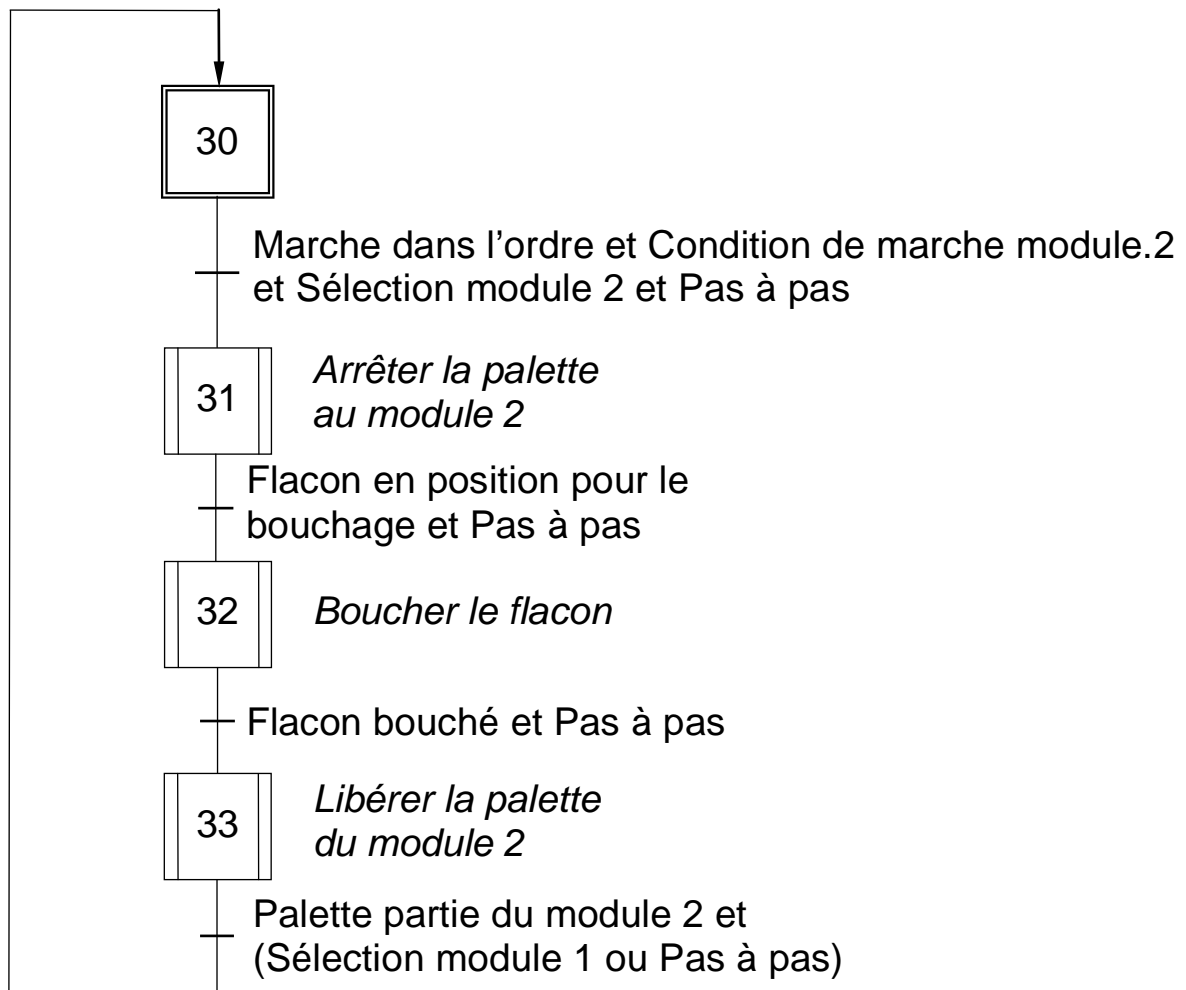
PRODUCTION AUTOMATIQUE MODULE 2 (T1-2)

POINT DE VUE AUTOMATE



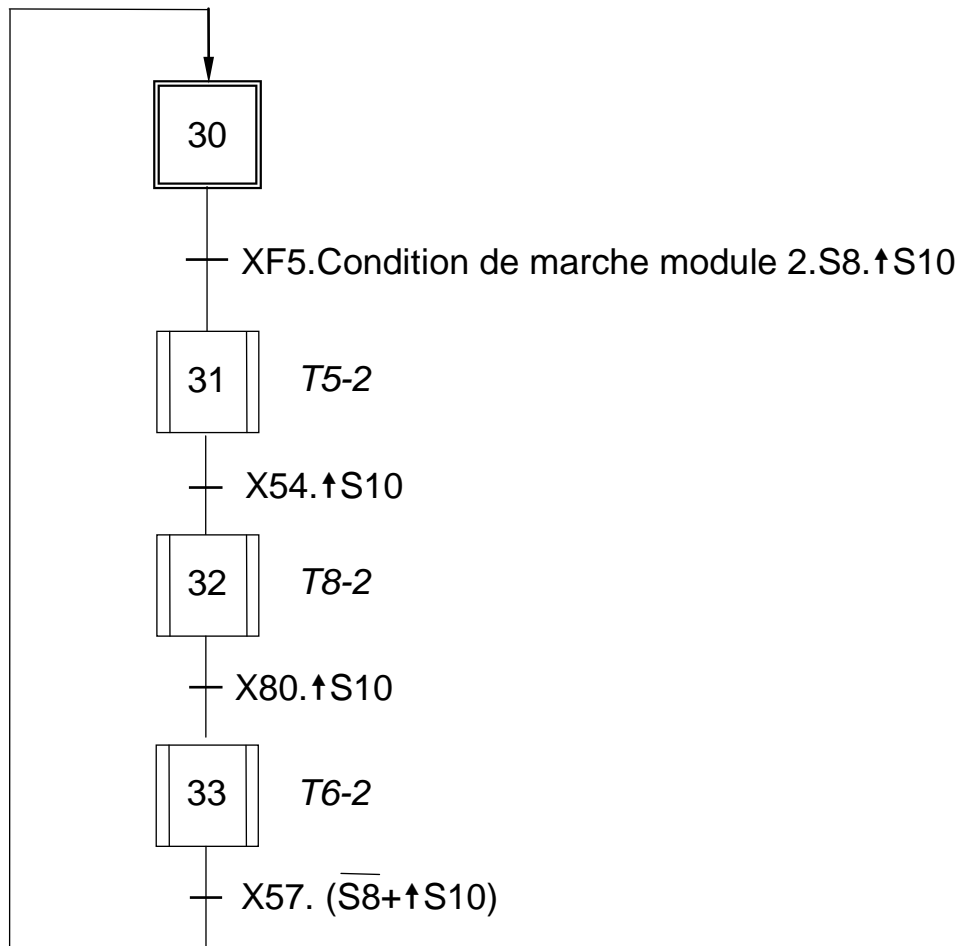
MARCHE DANS L'ORDRE DU MODULE 2 (T2-2)

POINT DE VUE SYSTEME



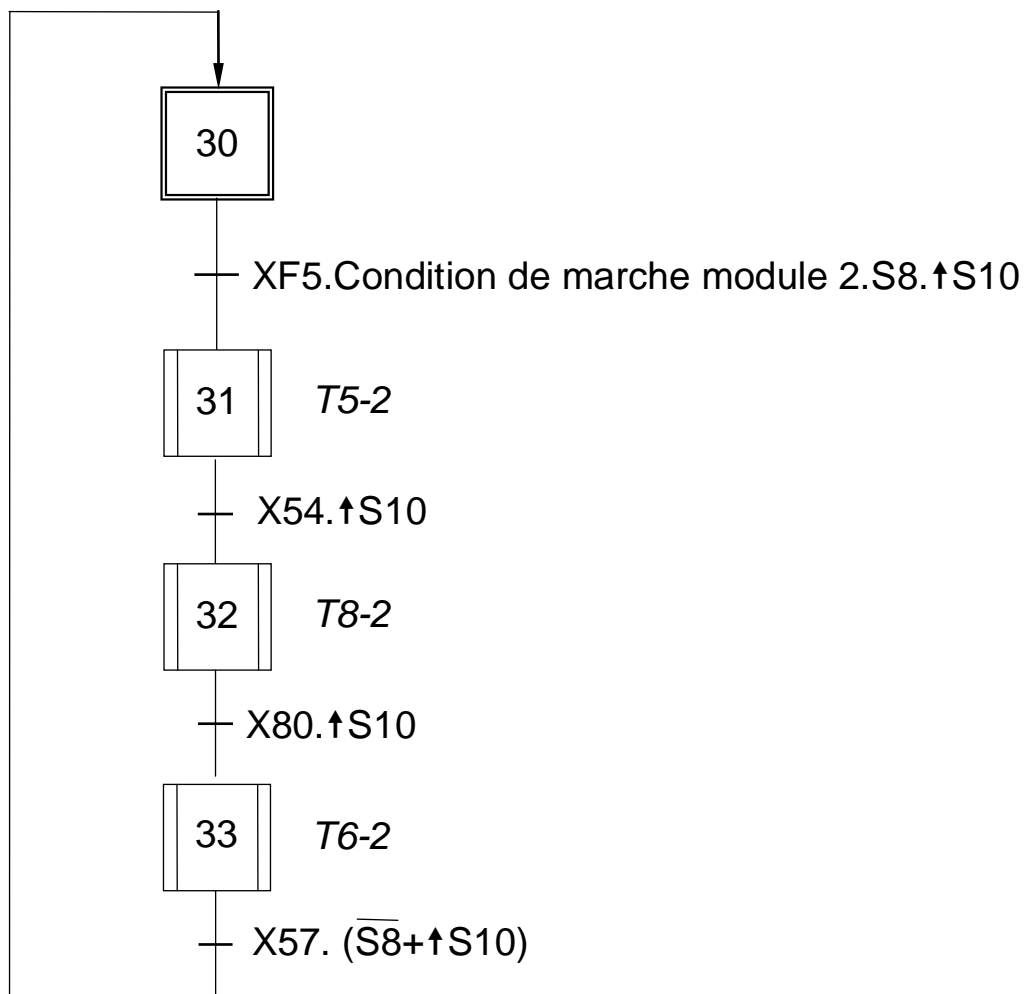
MARCHE DANS L'ORDRE DU MODULE 2 (T2-2)

POINT DE VUE PARTIE OPERATIVE



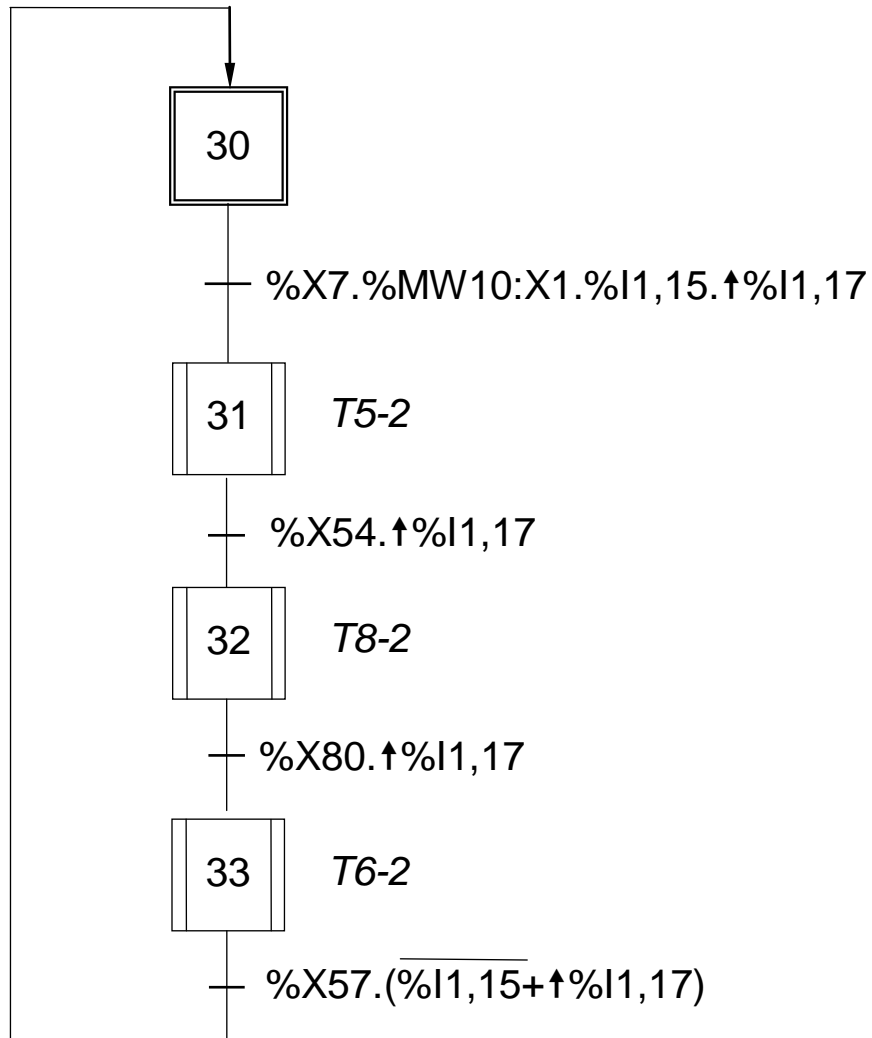
MARCHE DANS L'ORDRE DU MODULE 2 (T2-2)

POINT DE VUE PARTIE COMMANDE



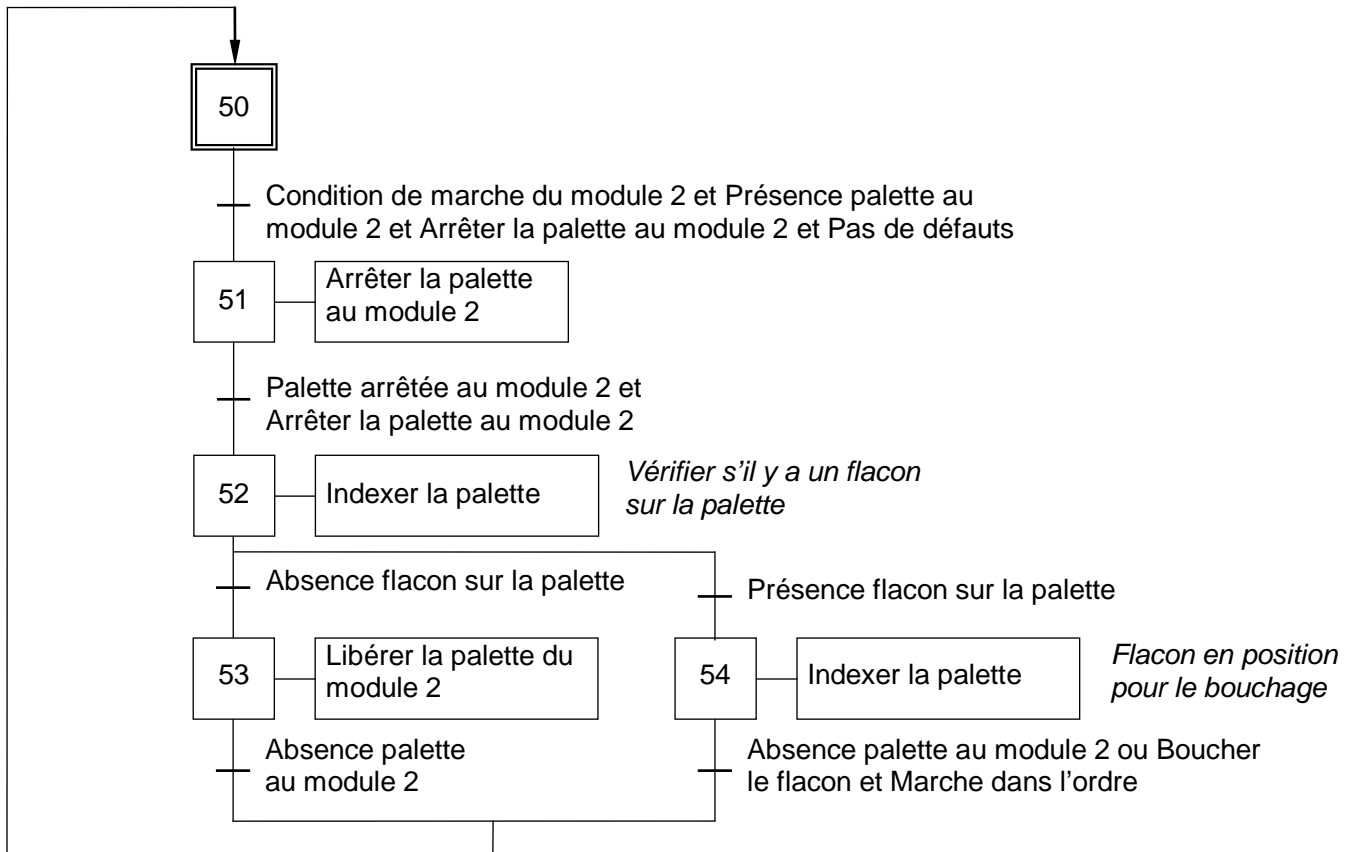
MARCHE DANS L'ORDRE DU MODULE 2 (T2-2)

POINT DE VUE AUTOMATE



ARRETER LA PALETTE AU MODULE 2 (T5-2)

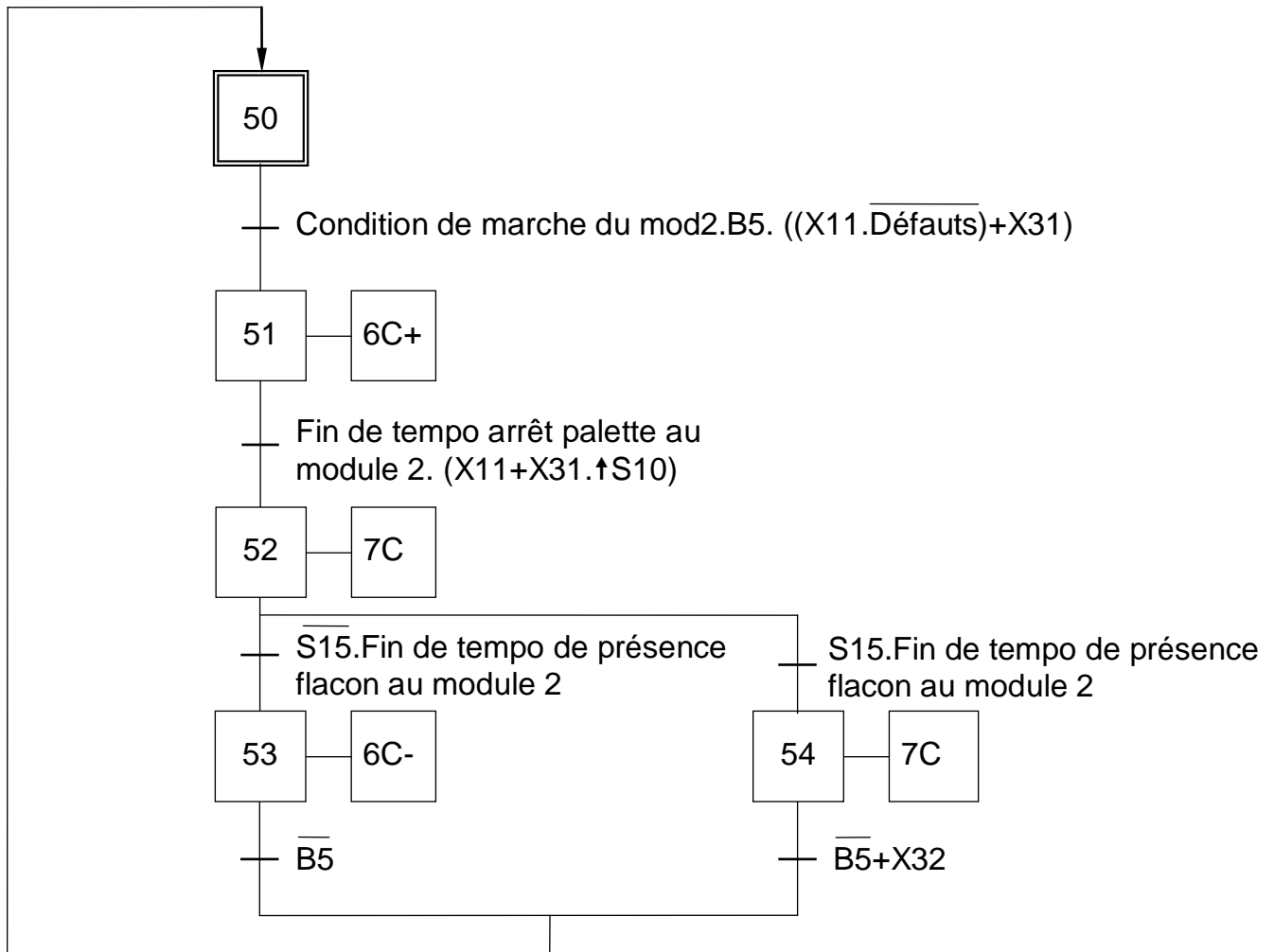
POINT DE VUE SYSTEME



Arrêter la palette au module 2 = arrêter la palette en production normale ou en marche dans l'ordre.

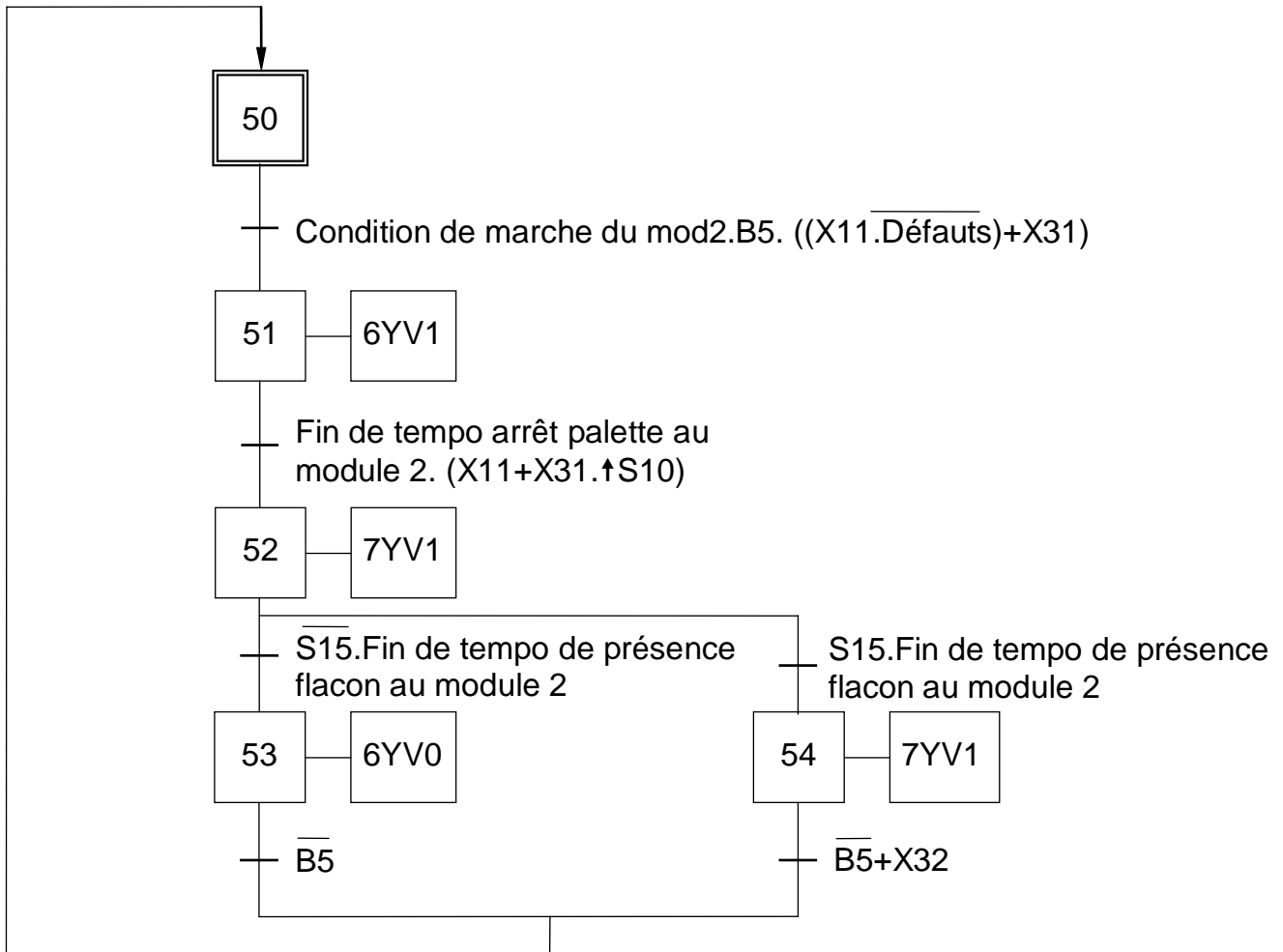
ARRETER LA PALETTE AU MODULE 2 (T5-2)

POINT DE VUE PARTIE OPERATIVE



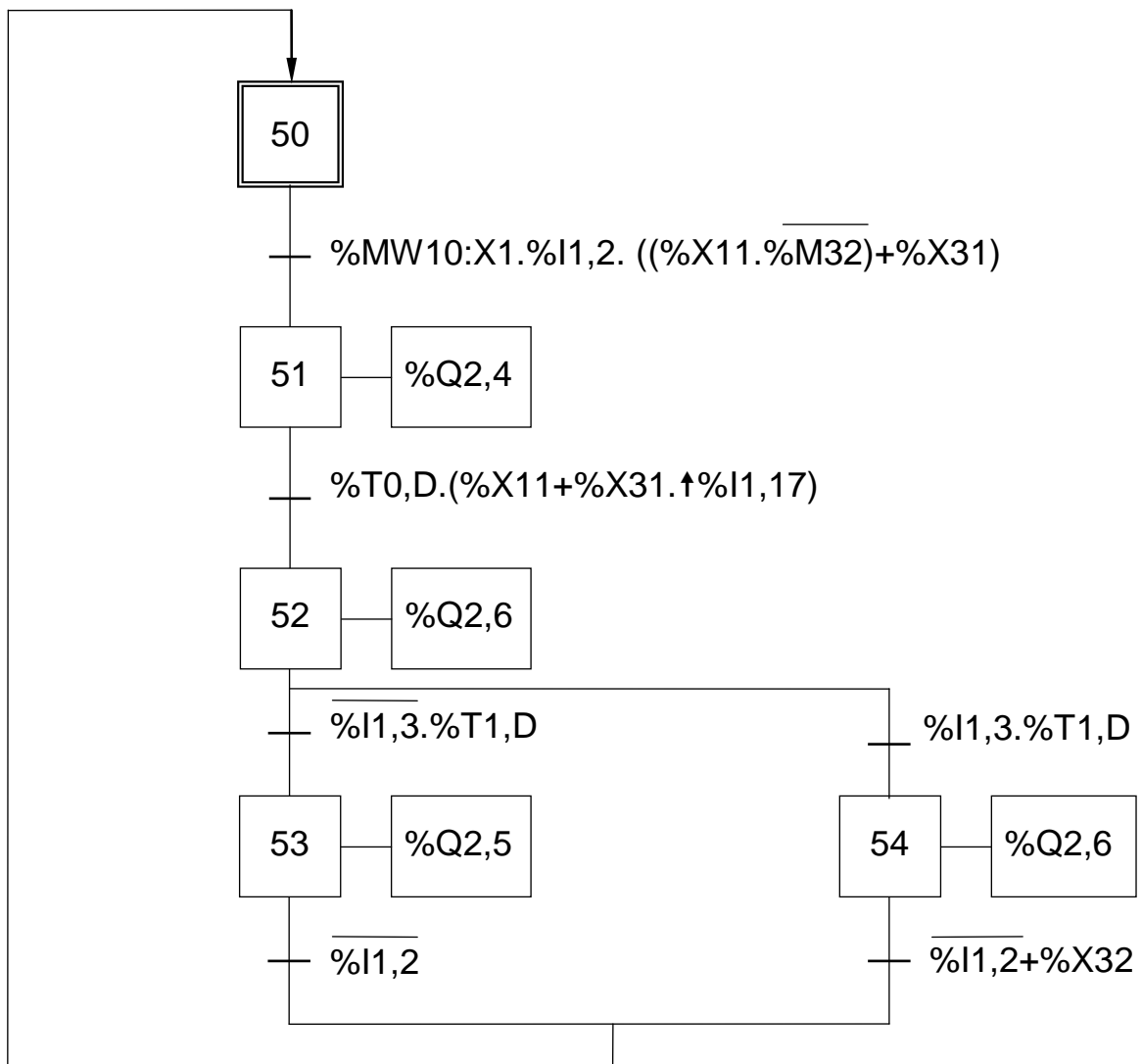
ARRETER LA PALETTE AU MODULE 2 (T5-2)

POINT DE VUE PARTIE COMMANDE



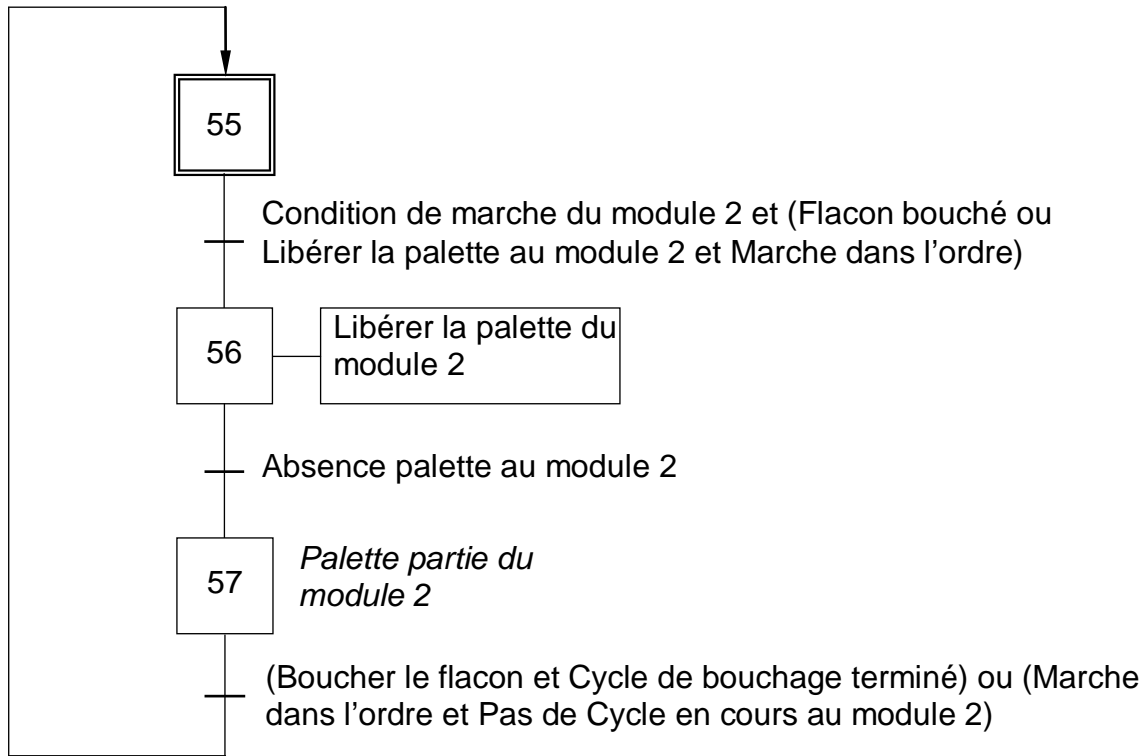
ARRETER LA PALETTE AU MODULE 2 (T5-2)

POINT DE VUE AUTOMATE



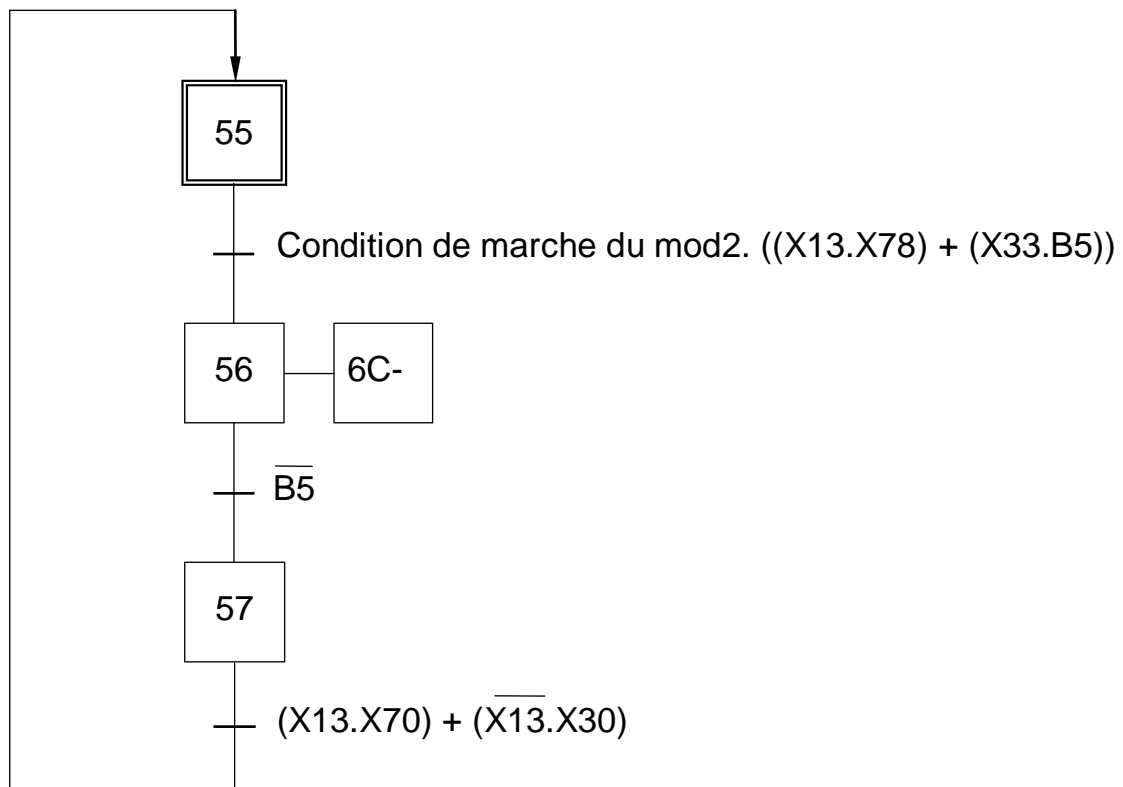
LIBERER LA PALETTE AU MODULE 2 (T6-2)

POINT DE VUE SYSTEME



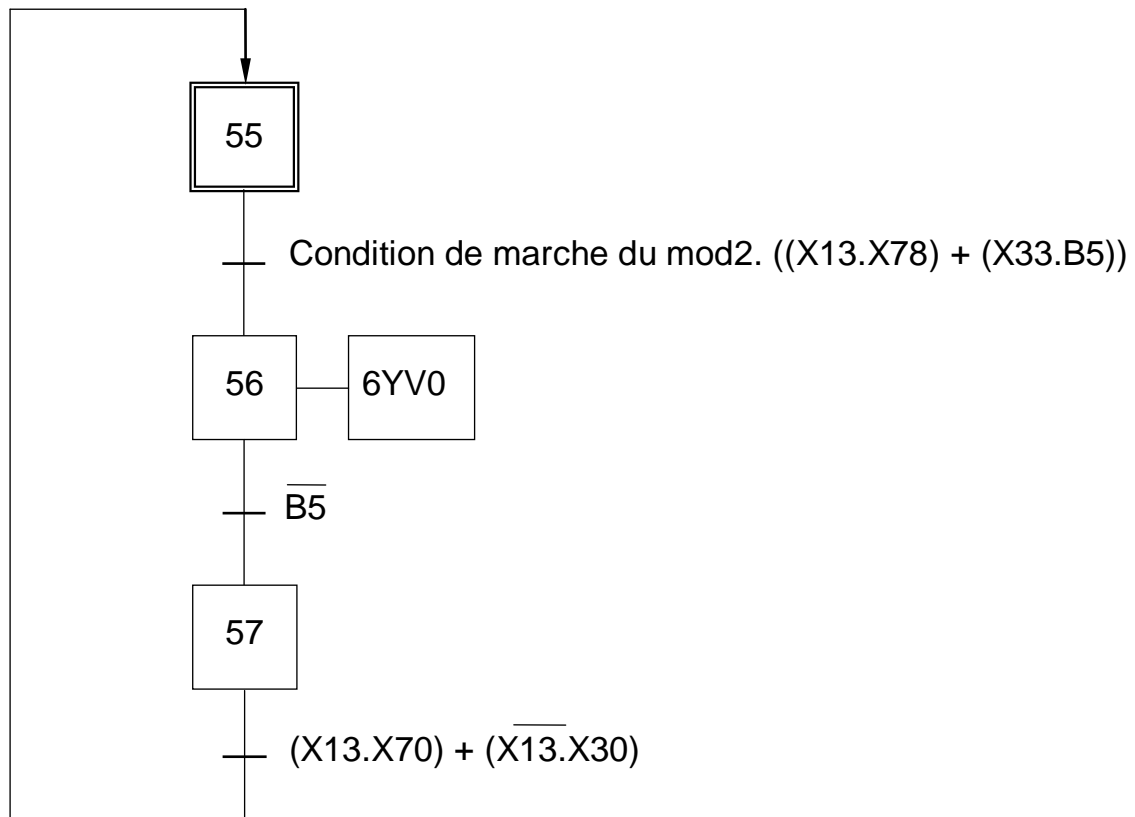
LIBERER LA PALETTE AU MODULE 2 (T6-2)

POINT DE VUE PARTIE OPERATIVE



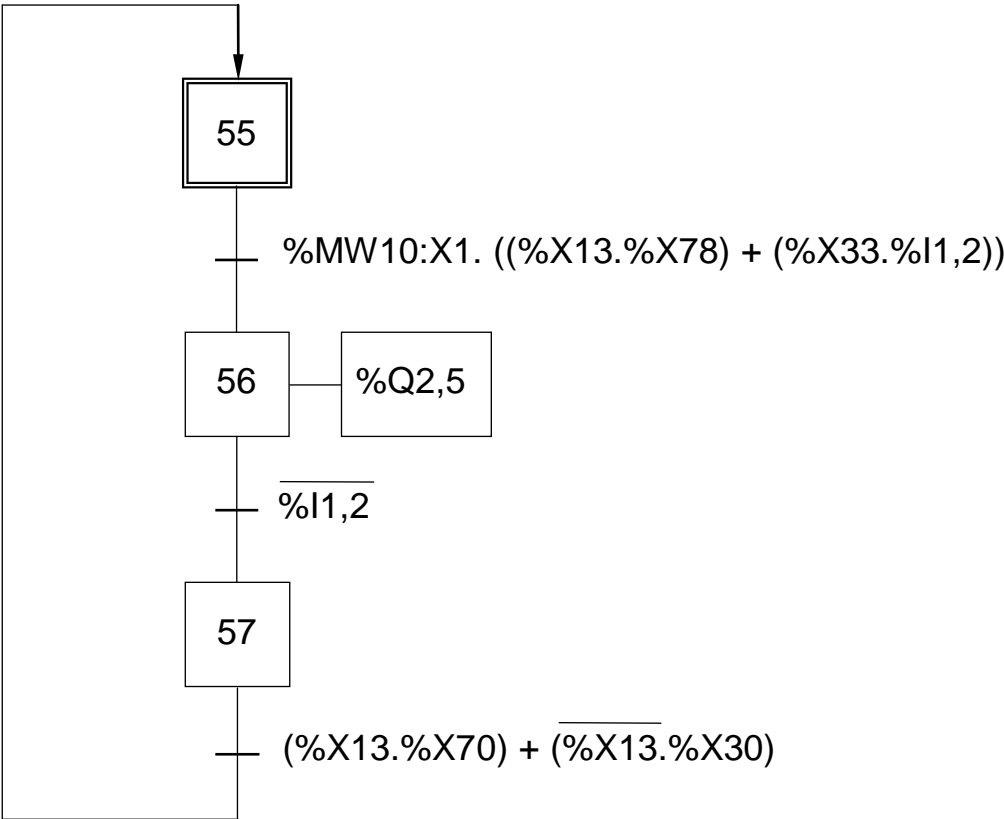
LIBERER LA PALETTE AU MODULE 2 (T6-2)

POINT DE VUE PARTIE COMMANDE



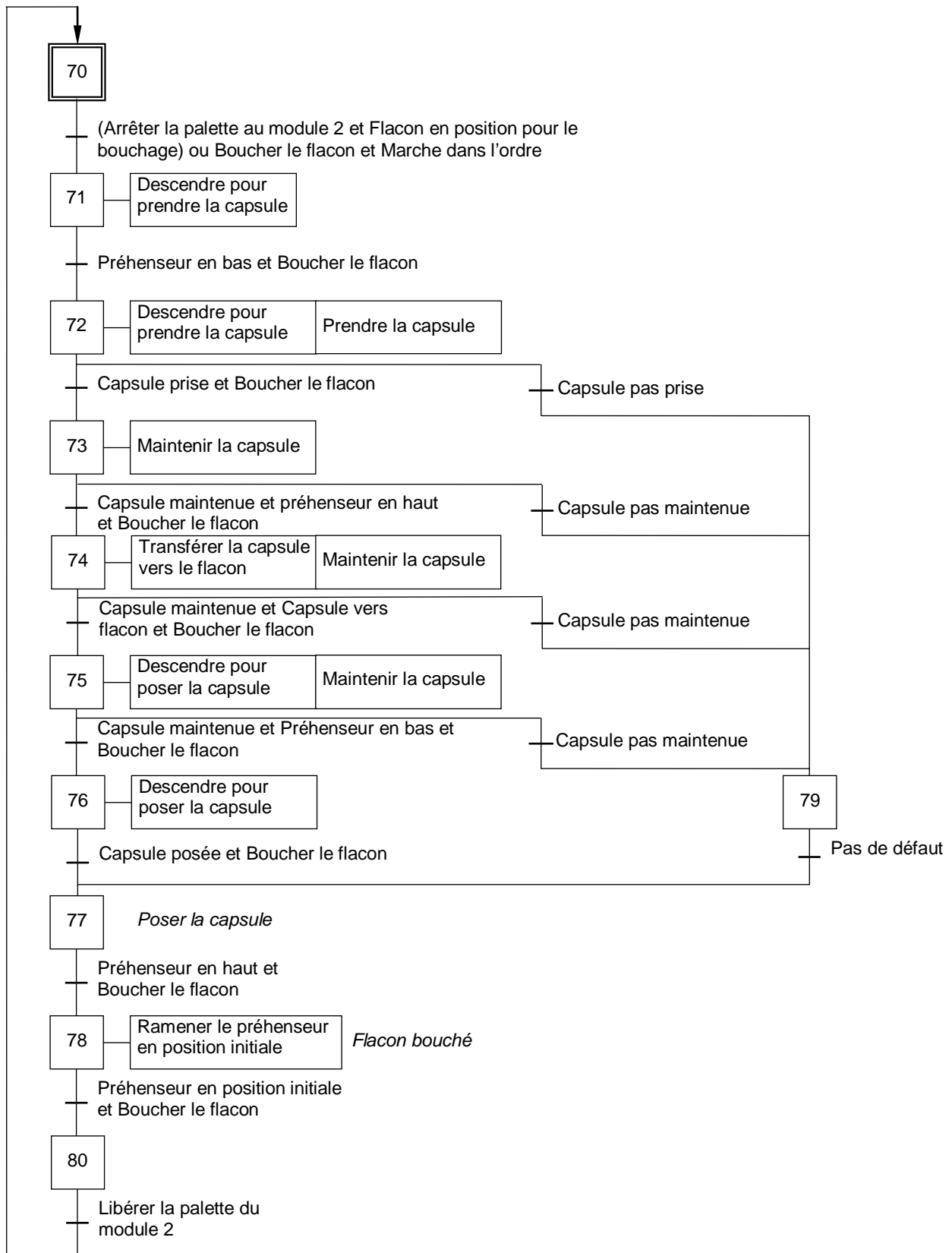
LIBERER LA PALETTE AU MODULE 2 (T6-2)

POINT DE VUE AUTOMATE



BOUCHER LE FLACON (T8-2)

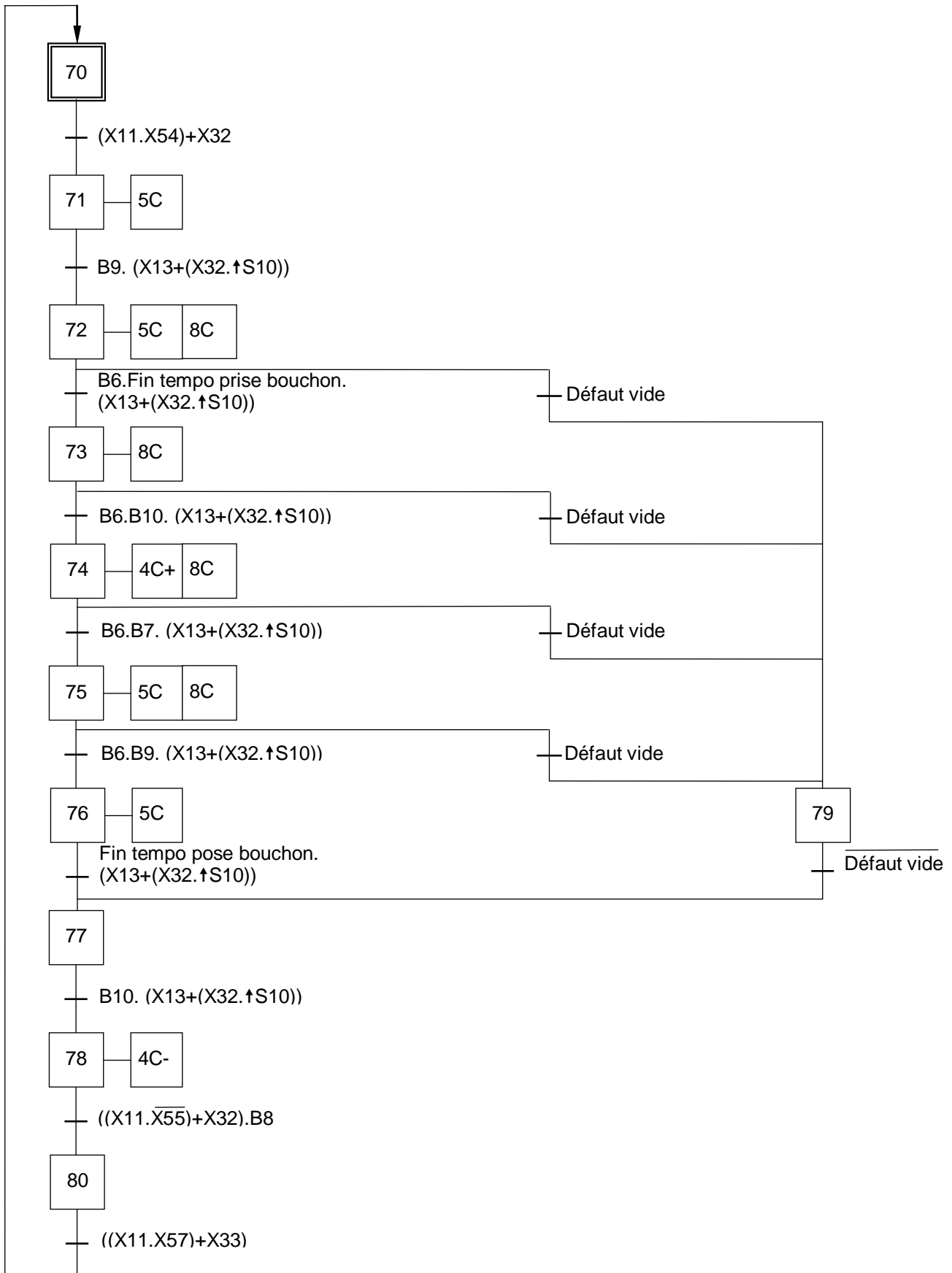
POINT DE VUE SYSTEME



Boucher le flacon = boucher le flacon en production automatique ou en marche dans l'ordre

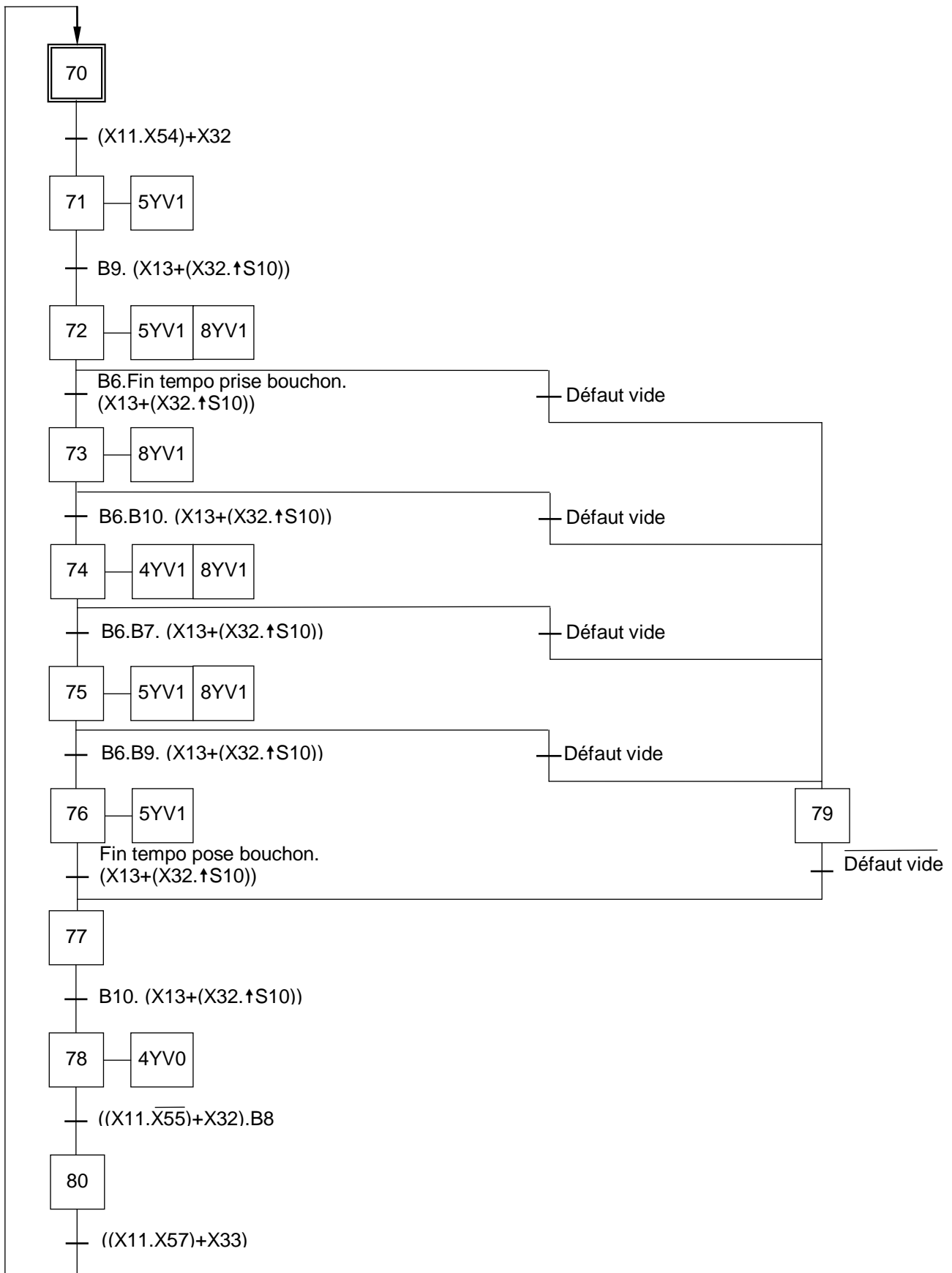
BOUCHER LE FLACON (T8-2)

POINT DE VUE PARTIE OPERATIVE



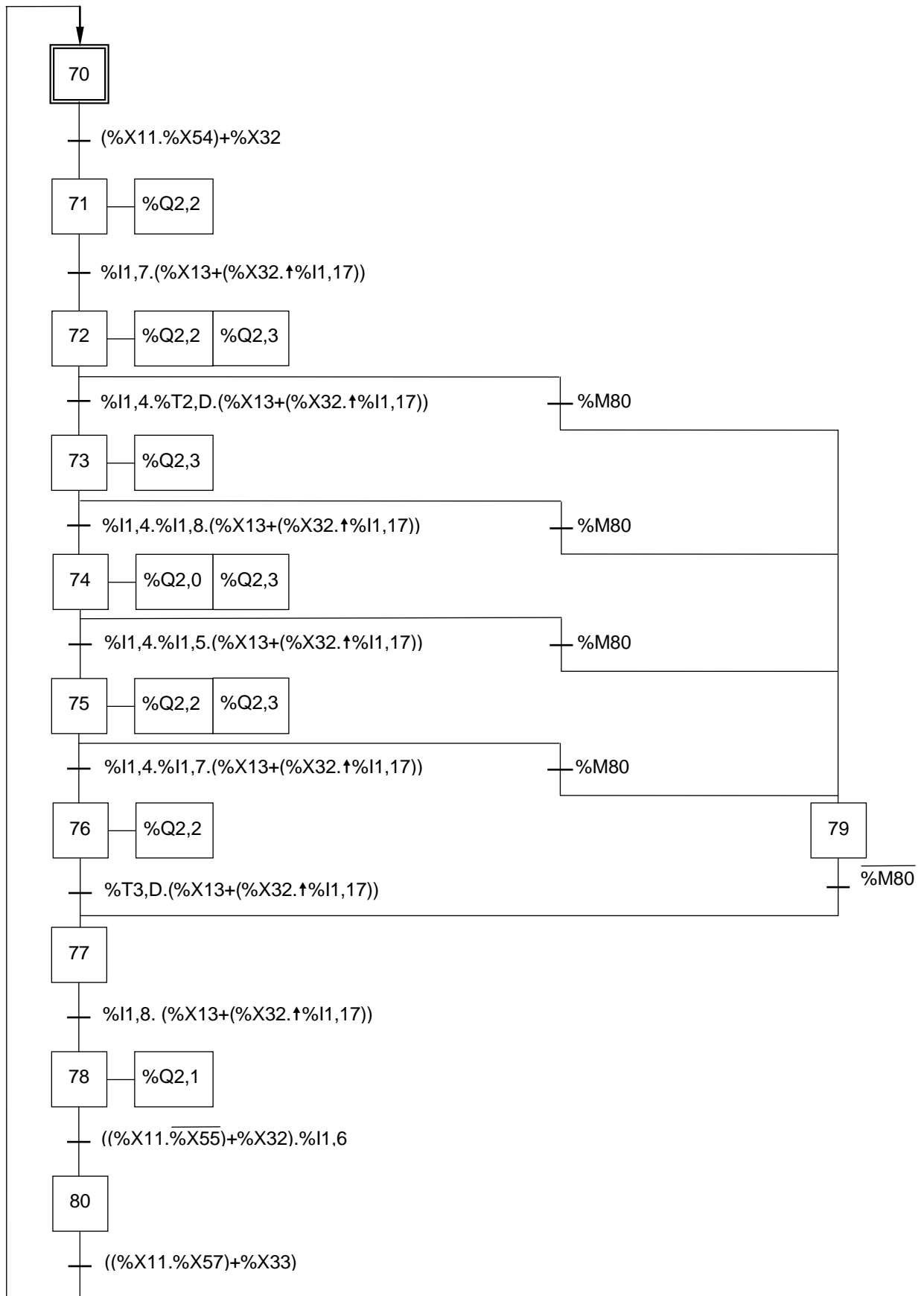
BOUCHER LE FLACON (T8-2)

POINT DE VUE PARTIE COMMANDE



BOUCHER LE FLACON (T8-2)

POINT DE VUE AUTOMATE

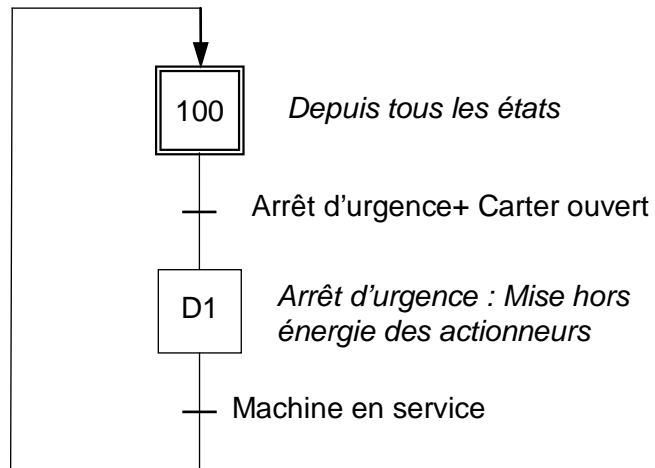


ENTREES	LIBELLES	APPELLATIONS
%I1.0	Sous tension	
%I1.1	En service	
%I1.2	Présence palette module 2	B5
%I1.3	Présence flacon module 2	S14
%I1.4	Présence vide	B6
%I1.5	Vérin de transfert sorti	B7
%I1.6	Vérin de transfert rentré	B8
%I1.7	Ventouse en bas	B9
%I1.8	Ventouse en haut	B10
%I1.9	Pupitre / XBT	S16
%I1.10	Réserve	
%I1.11	Arrêt	S5
%I1.12	Acquittement défaut	S6
%I1.13	Marche dans le désordre	S7
%I1.14	Production normale	S7
%I1.15	Module 1 / Module 2	S8
%I1.16	Initialisation	S9
%I1.17	Pas à pas	S10
%I1.18	Marche - Sortie	S11
%I1.19	Arrêt - Rentrée	S12
%I1.20	Roue codeuse: a	S13
%I1.21	Roue codeuse: b	S13
%I1.22	Roue codeuse: c	S13
%I1.23	Roue codeuse: d	S13

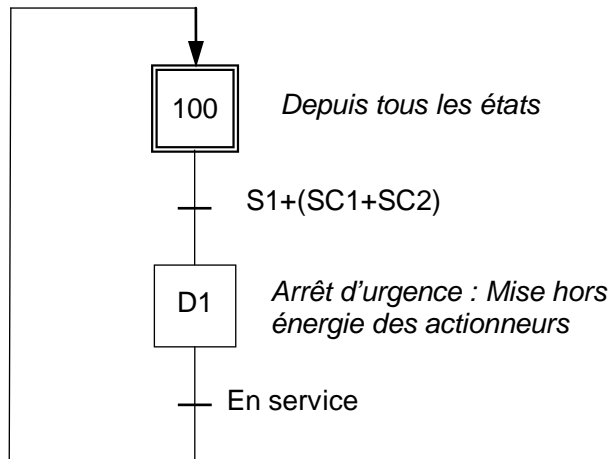
SORTIES	LIBELLES	REMARQUES	APPELLATIONS
%Q2.0	Sorti vérin de transfert	4YV1	4C+
%Q2.1	Rentrée vérin de transfert	4YV0	4C-
%Q2.2	Descendre ventouse	5YV1	5C
%Q2.3	Vide	8YV1	
%Q2.4	Sortie vérin d'arrêt module 2	6YV1	6C+
%Q2.5	Rentrée vérin d'arrêt module 2	6YV0	6C-
%Q2.6	Indexage	7YV1	7C
%Q2.7	Compteur produits finis		P1
%Q2.8	Réserve		
%Q2.9	Réserve		
%Q2.10	Réserve		
%Q2.11	Réserve		

GRAFNET DE SECURITE

POINT DE VUE SYSTEME



POINT DE VUE PARTIE OPERATIVE



POINT DE VUE PARTIE COMMANDE

