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WIRING DIAGRAMS

NOTES

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The standard wiring diagrams do not deal with the options fitted on the crane. Therefore the wiring diagrams specific to the connections of the options must be consulted in addition.

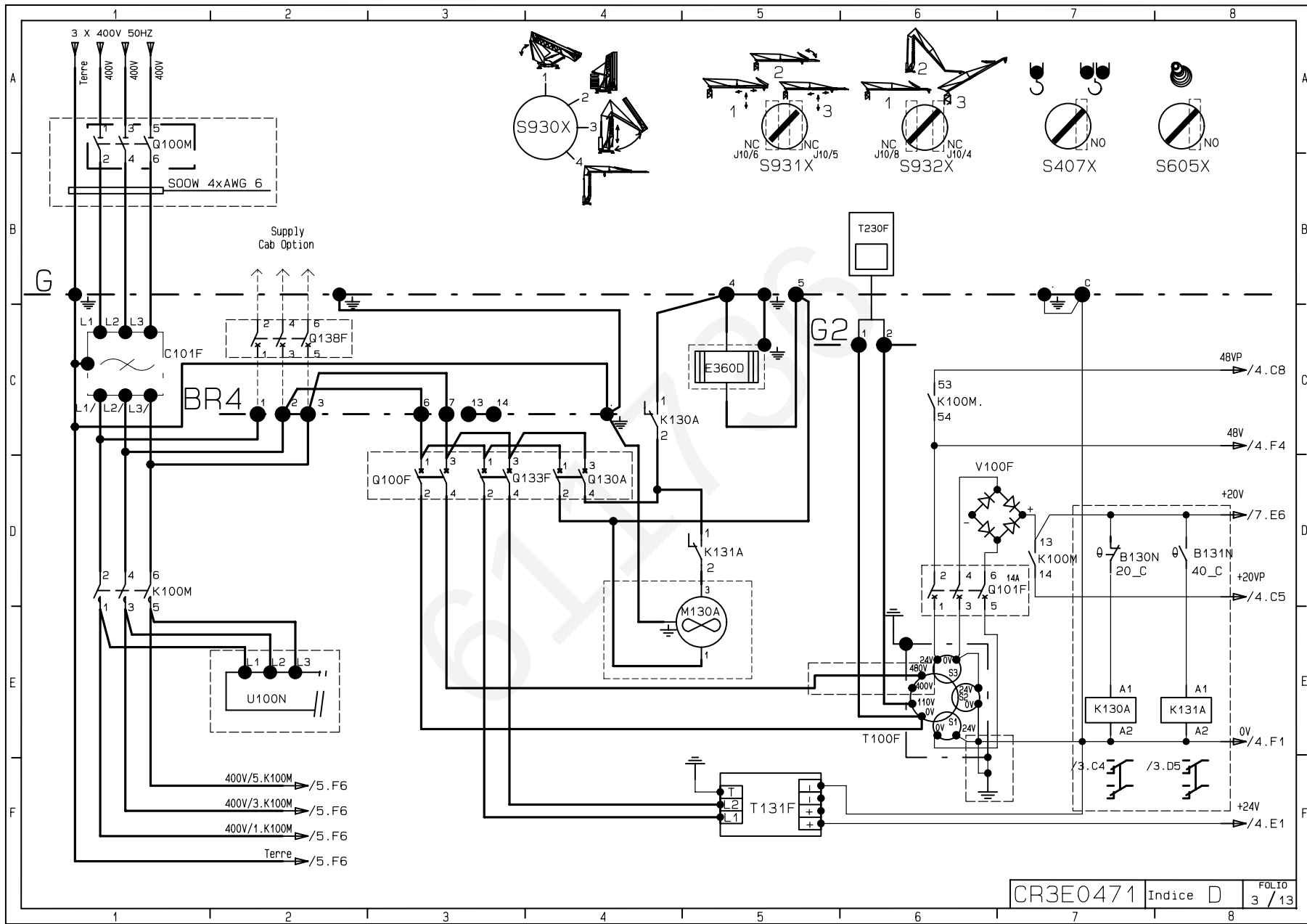


WIRING DIAGRAMS / OPTION)



CURRENT SUPPLY

B130N	:	Thermostat 20℃	Q133F	:	24 V current stabilized protective switch
B131N	:	Thermostat 40℃	Q138F	:	Cab mains supply circuit breaker
C101F	:	Supply network filter	S407X	:	Rope reeving control contact
E360D	:	Control panel heating	S605X	:	Switching contact driving type
K100M	:	Main contactor of current supply	S930X	:	Erection switch contact
K130A	:	Temperature relay	S931X	:	Jib folded/unfolded switch contact
K131A	:	Heating relay	S932X	:	Switch contact Horizontal or raised jib
M130A	:	Control panel fan	T100F	:	Main transformer of low voltage supply
Q100F	:	Primary protective switch of main transformer	T131F	:	Current supply 24V
Q101F	:	Secondary protective switch of main transformer	T230F	:	Battery charger
Q100M	:	Main power switch of crane supply	U100N	:	Electronic control block of current supply
Q130A	:	Circuit breaker of control panel heating/ventilation supply	V100F	:	Rectifier

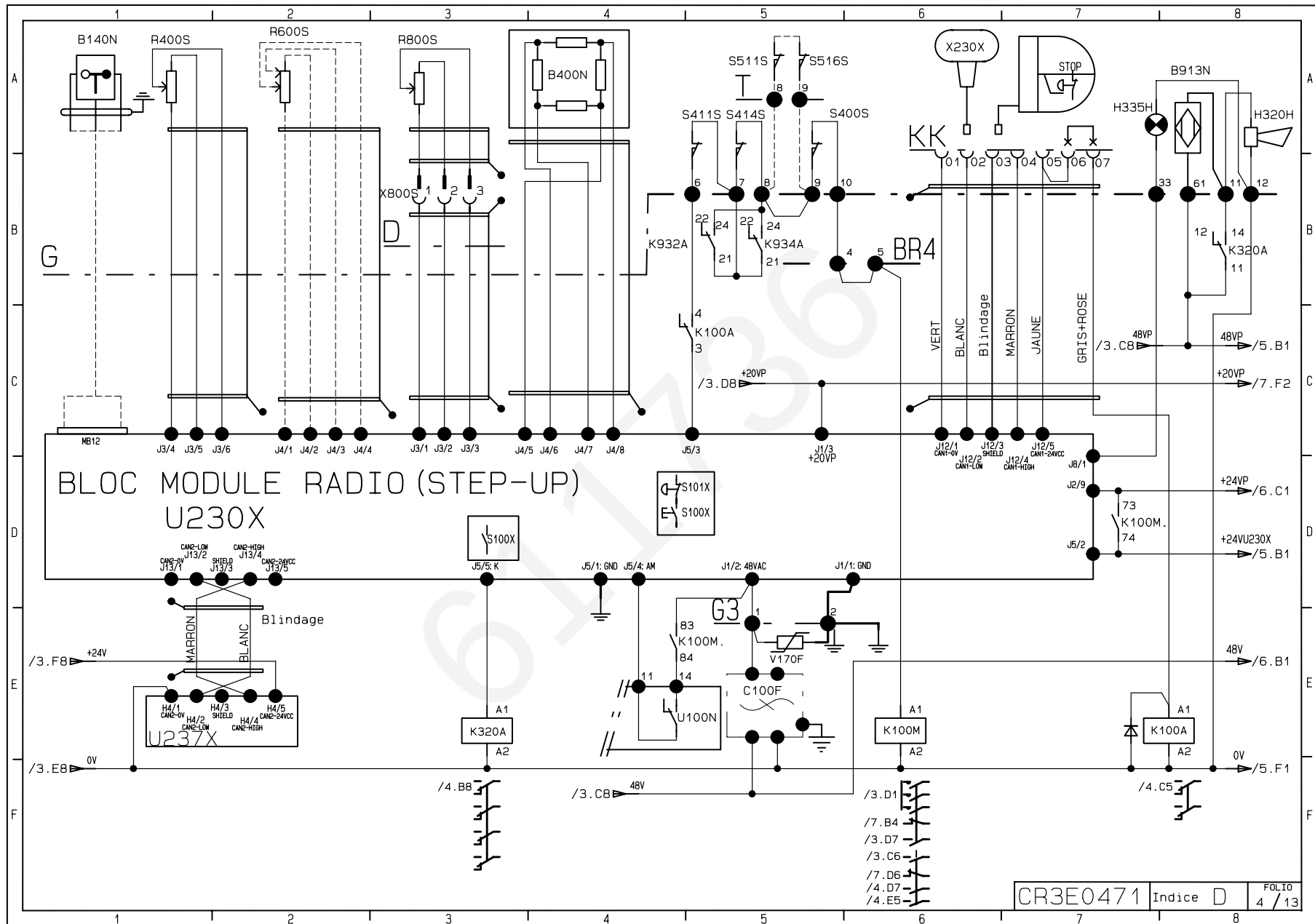




S100X : "ON" control contact
S101X : Emergency stop button contact
S400S : Hoisting moment control contact
S411S : Maximum load control contact
S414S : Maximum load control contact
S511S : Travelling forward overrun switch contact
S516S : Travelling backward overrun switch contact
U100N : Electronic control block of current supply
U230X : Electronic control block of radio control
U237X : Hub Can
V170F : Overvoltage limiter
X230X : Auxiliary control box
X800S : Trolley limit switch socket

B140N : Wind speed sensor
B400N : Strain gauge ring
B913N : Inductive detector Mast raising control
C100F : Current supply filter
H320H : Horn
H335H : Signal lamp – radio control connected
K100A : Relaying ON relay
K100M : Main contactor of current supply
K320A : "Horn" control relay
K932A : Erection switch relay position 2
K934A : Erection switch relay position 4
R400S : Potentiometer of hoisting stroke
R600S : Slewing movement potentiometer
R800S : Potentiometer of trolleying stroke

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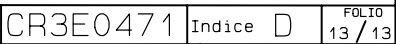




TRAVELLING-MECHANISM

B690N	:	Low level detector of centralised greasing	K609M	:	Control contactor of slewing brake
H641H	:	Signal lamp low level of centralized greasing	M690A	:	Grease pump motor
K336N	:	Grease level control relay	Q500M	:	Circuit breaker of travelling gear
K510A	:	Control relay "Travelling forward"	Q640F	:	Greasing unit circuit breaker
K515A	:	"Travelling backward" control relay	U230X	:	Electronic control block of radio control

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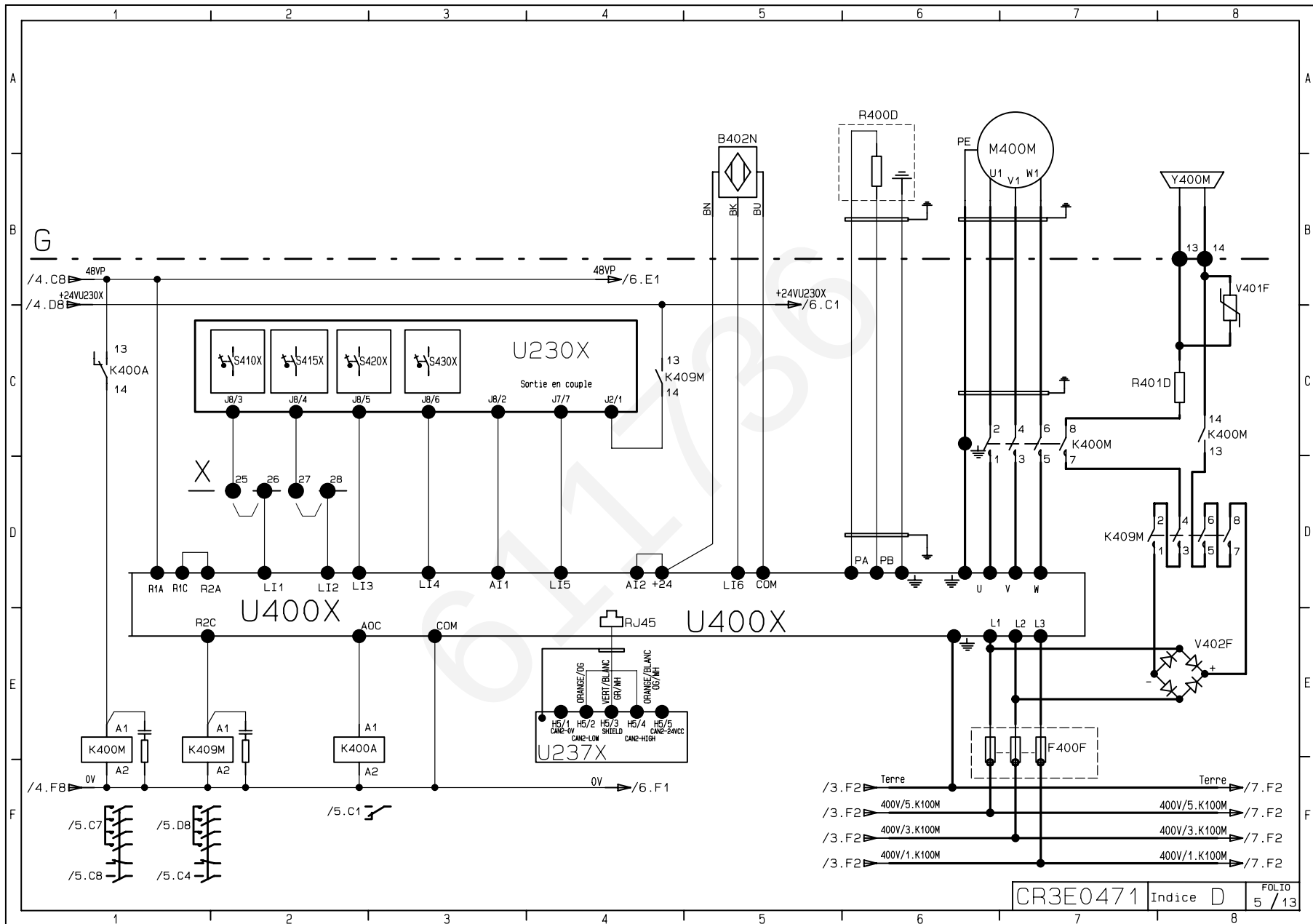




HOIST WINCH

B402N	:	Inductive detector of the hoisting speed control	S415X	:	"Lowering" control contact
F400F	:	Protective fuse of hoist winch motor	S420X	:	Hoist winch control contact notch 2 or PV with PC
K400A	:	Relay of hoist winch fault	S430X	:	Hoist winch control contact notch 3 or GV with PC
K400M	:	Hoist winch main contactor	U230X	:	Electronic control block of radio control
K409M	:	Hoist winch brake contactor	U237X	:	Hub Can
M400M	:	Hoist motor	U400X	:	Electronic control block of hoist winch
R400D	:	Resistant element of the hoist winch	V401F	:	Overvoltage limiter of the hoist brake
R401D	:	Resistor	V402F	:	Hoist winch brake rectifier
S410X	:	"Hoisting" control contact	Y400M	:	Hoist winch brake

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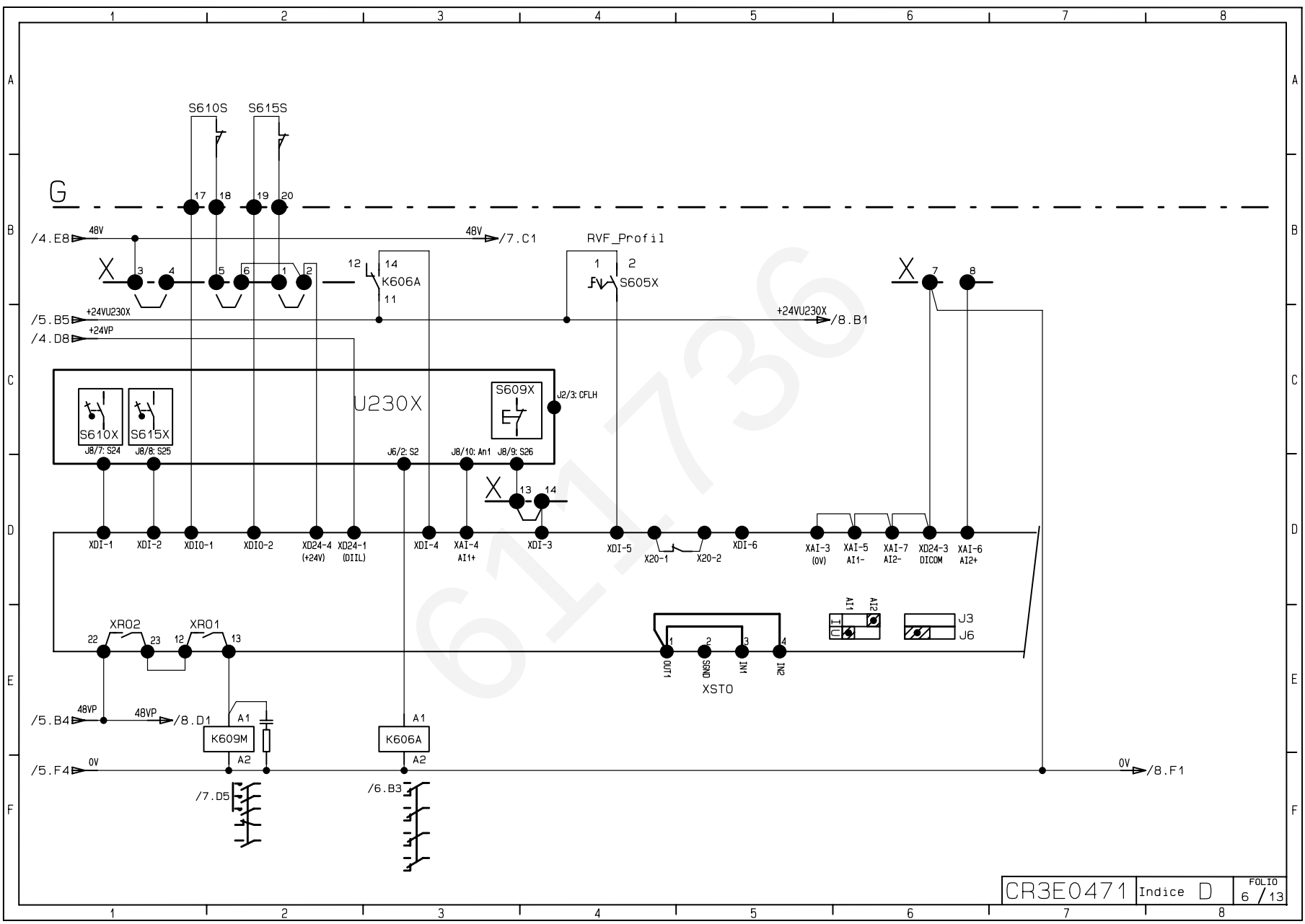




SLEWING MECHANISM

K606A	:	Slewing boost contact	S610X	:	"Slewing to right" control contact
K609M	:	Control contactor of slewing brake	S615S	:	"Slewing to left" limit switch contact
S605X	:	Switching contact driving type	S615X	:	"Slewing to left" control contact
S609X	:	Slewing brake control contact	U230X	:	Electronic control block of radio control
S610S	:	"Slewing to right" limit switch contact			

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Q600M	:	Main circuit breaker of the slewing mechanism
R601D	:	Resistor
R602D	:	Resistor
S640X	:	Weathervaning control contact
U237X	:	Hub Can
U600X	:	Electronic block of slewing control
V303F	:	Overvoltage limiter of weathervaning signal lamp
V601F	:	Overvoltage limiter of the slewing brake
Y600M	:	Slewing mechanism brake

B603N	:	Slewing mechanism encoder
H302H	:	Weathervaning signal lamp
H601H	:	Flashing light weathervaning
K100M	:	Main contactor of current supply
K600D	:	Magnet coil of weathervaning
K609M	:	Control contactor of slewing brake
K640M	:	Weathervaning contactor
K642A	:	Control relay of the weathervaning rela
M600M	:	Slewing motor

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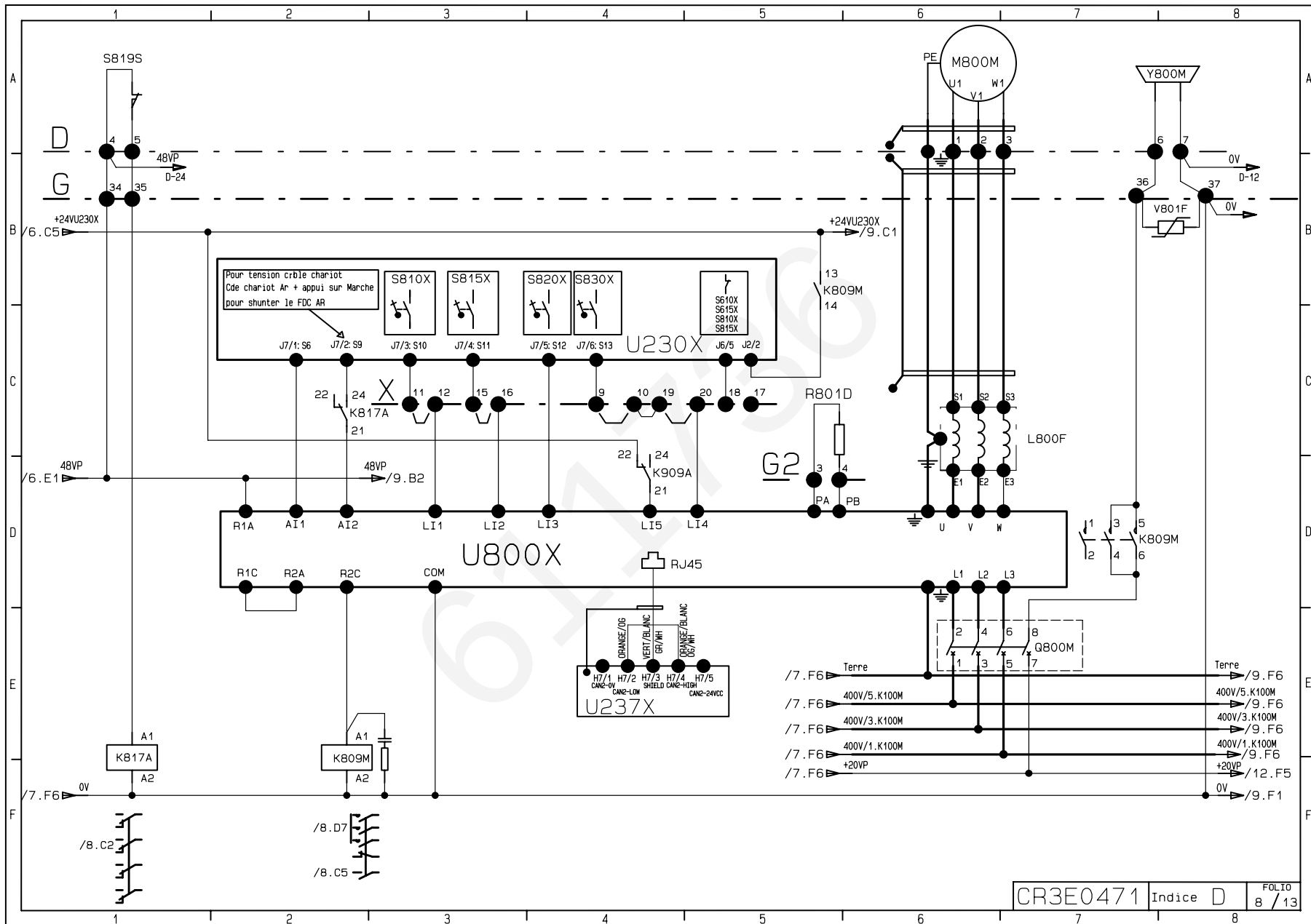




TROLLEY WINCH

K809M	:	Trolley winch brake contactor	S815X	:	Trolley in control contact
K817A	:	Safety relay Trolley rope tension	S819S	:	Trolley rope tension safety contact
K909A	:	Relay for working with raised jib	S820X	:	Trolley winch control contact notch 2 or PV
L800F	:	Trolley winch choke	S830X	:	Trolley winch control contact notch 3
M800M	:	Trolley winch motor	U230X	:	Electronic control block of radio control
Q800M	:	Main circuit breaker of trolley winch	U237X	:	Hub Can
R801D	:	Resistor	U800X	:	Electronic trolley winch control block
S610X	:	“Slewing to right” control contact	V801F	:	Overvoltage limiteur of trolley winch brake
S615X	:	“Slewing to left” control contact	Y800M	:	Trolley winch brake
S810X	:	Trolley out control contact			

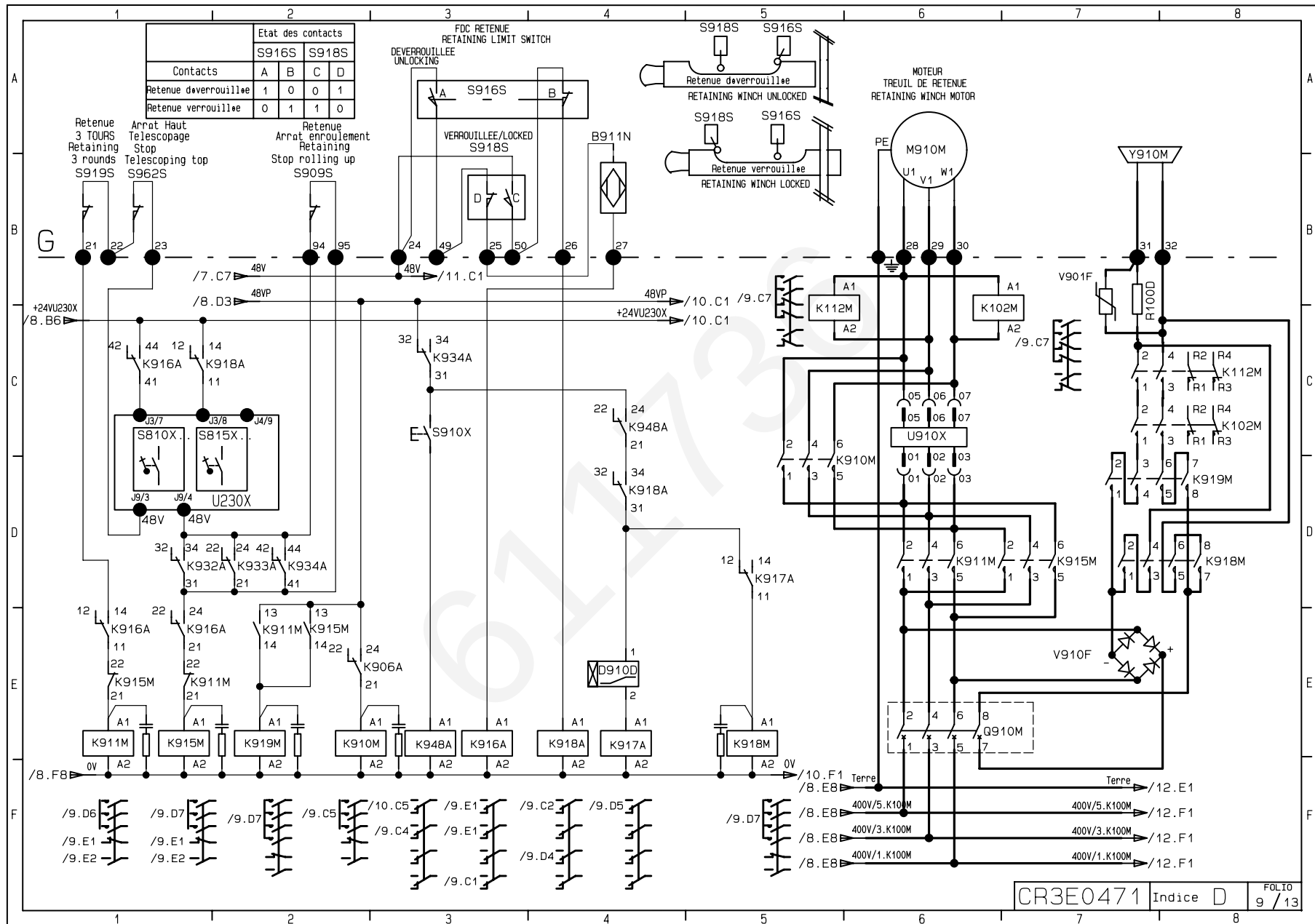
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JIB RETAINING WINCH

B911N	:	Inductive control detector of retaining winch	M910M	:	Jib retaining winch motor
D910D	:	Electronic delay time of the jib retaining winch control	Q910M	:	Circuit breaker Retaining winch supply
K102M	:	Detection contactor 380 V	R100D	:	Protective resistor
K112M	:	400 V detection contactor	S810X	:	Trolley out control contact
K906A	:	Unlocking control relay	S815X	:	Trolley in control contact
K910M	:	Jib retaining winch contactor	S909S	:	Safety contact end of winding retaining winch
K911M	:	Jib retaining winch "Hoisting" contactor	S910X	:	Jib retaining winch control contact
K915M	:	Jib retaining winch "Lowering" contactor	S916S	:	Safety contact Retaining winch unlocking limit switch
K916A	:	Jib retaining winch control relay	S918S	:	Limit switch contact of jib retaining winch locking
K917A	:	Time-delay relay for jib retaining winch locking	S919S	:	Safety contact of end of unwinding of jib retaining winch
K918A	:	Safety relay for jib retaining winch locking	S962S	:	Safety contact Upper telescoping limit switch
K918M	:	Retaining brake contactor	U230X	:	Electronic control block of radio control
K919M	:	Retaining brake contactor	U910X	:	Electronic supply block of retaining winch
K932A	:	Erection switch relay position 2	V901F	:	Overvoltage limiter Retaining winch motor brake
K933A	:	Erection switch relay position 3	V910F	:	Rectifier of jib retaining winch motor brake
K934A	:	Erection switch relay position 4	Y910M	:	Jib retaining winch brake
K948A	:	Brake release control relay			



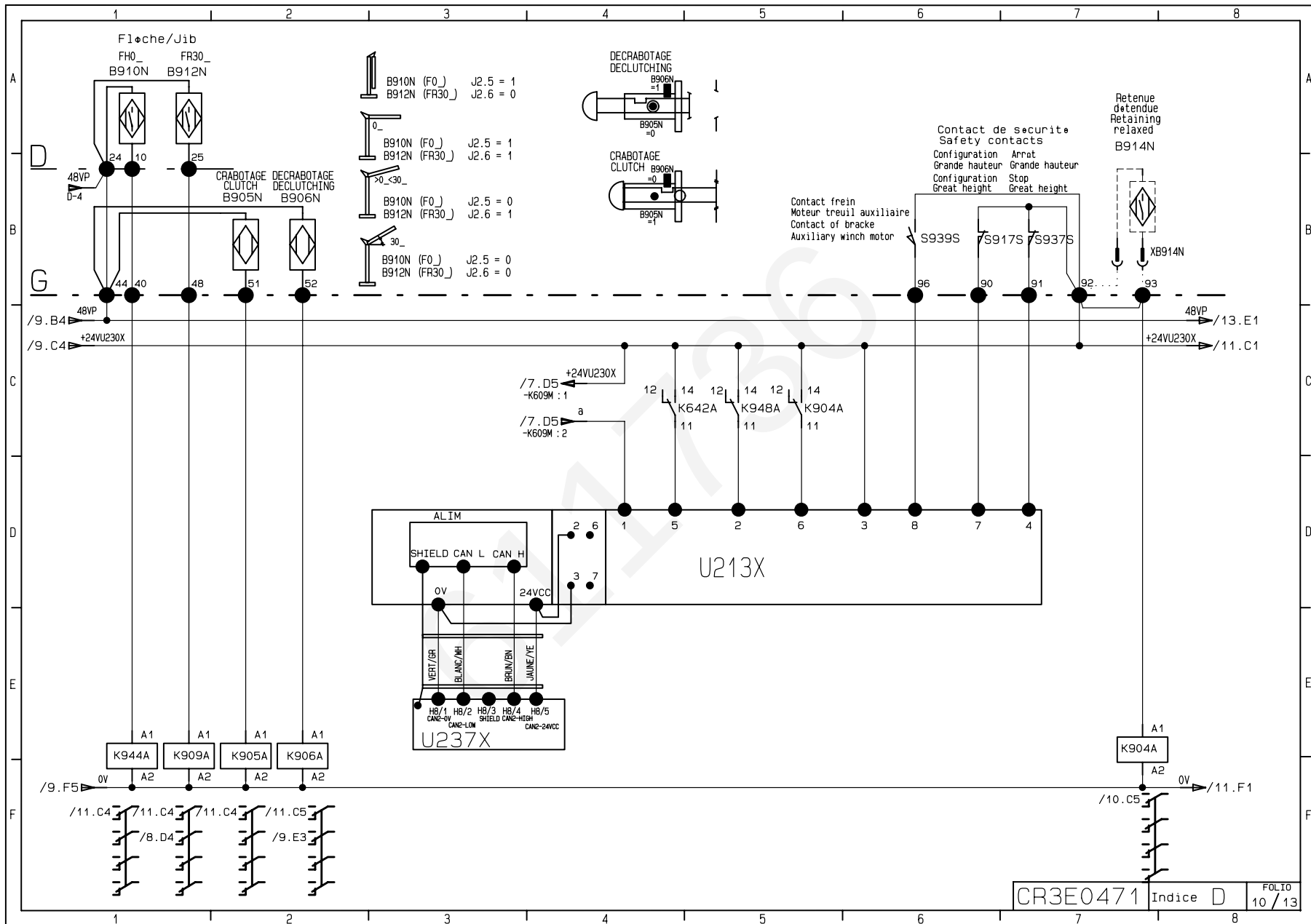




MOUNTING

B905N	:	Inductive detector Locking control	K909A	:	Relay for working with raised jib
B906N	:	Inductive detector Unlocking control	K944A	:	Safety relay of horizontal jib
B910N	:	Inductive detector Horizontal jib control	K948A	:	Brake release control relay
B912N	:	Inductive detector Raised jib control	S917S	:	Safety contact – high height
B914N	:	Inductive control sensor Retaining rope slackened	S937S	:	Safety contact – high height stop
K642A	:	Control relay of the weathervaning rela	S939S	:	Safety contact auxiliairy winch brake
K904A	:	Control relay Retaining rope slackened	U213X	:	Electronic control block of 8 logic inputs
K905A	:	Locking control relay	U237X	:	Hub Can
K906A	:	Unlocking control relay			

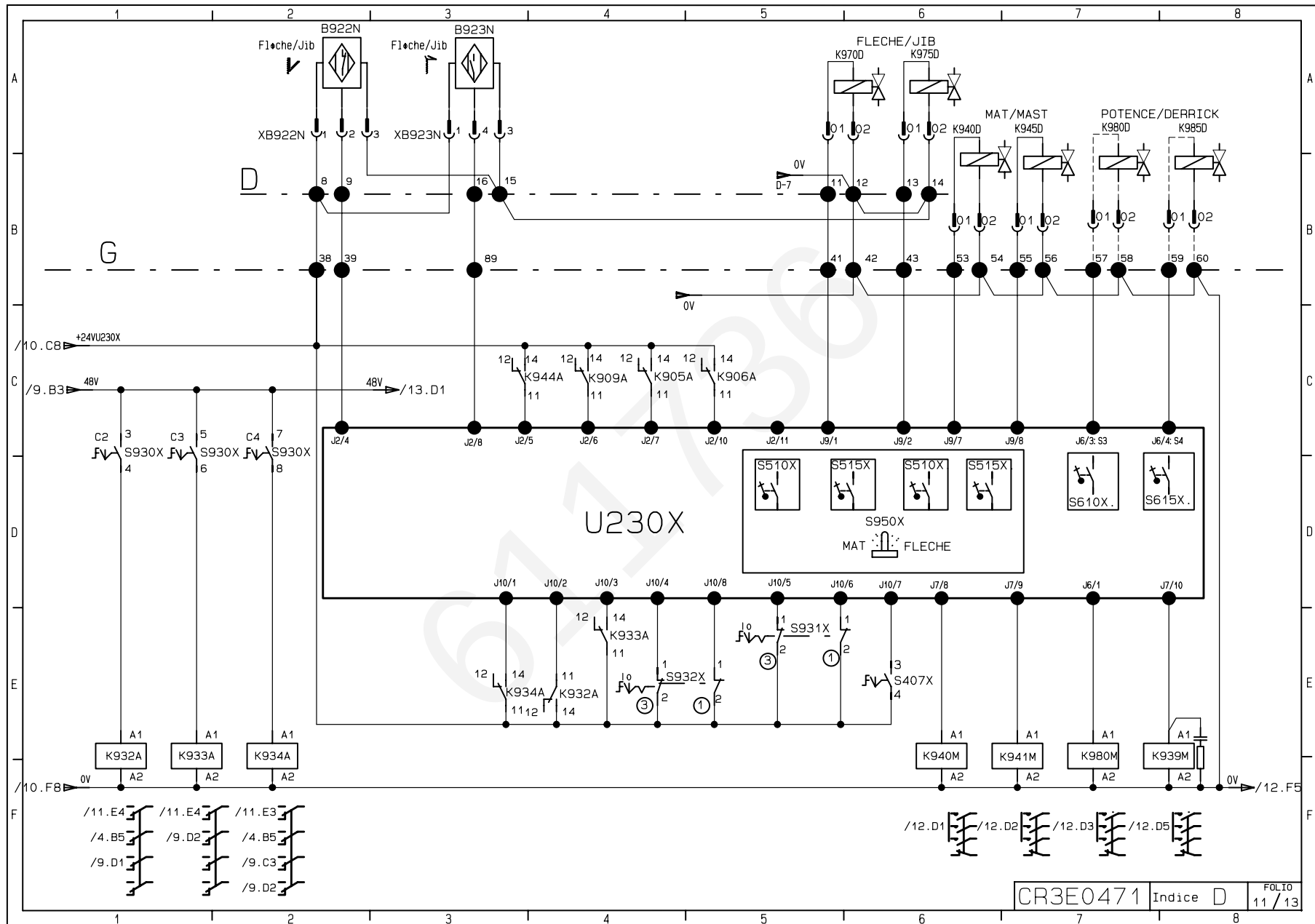
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B922N : Inductive control sensor Jib opening
 B923N : Inductive control sensor Jib folded
 K905A : Locking control relay
 K906A : Unlocking control relay
 K909A : Relay for working with raised jib
 K932A : Erection switch relay position 2
 K933A : Erection switch relay position 3
 K934A : Erection switch relay position 4
 K939M : Telescoping brake contactor
 K940D : Control electrovalve for mast upward
 K940M : Hydraulic unit motor contactor
 K941M : Contactor of hydraulic unit motor 2
 K944A : Safety relay of horizontal jib
 K945D : Control electrovalve for mast downward
 K970D : Control electrovalve for unfolding the jib or jib nose

K975D : Control electrovalve for folding the jib or jib nose
 K980D : Control electrovalve of derrick "slewing to right"
 K980M : Hydraulic unit motor contactor
 K985D : Control electrovalve of derrick "slewing to left"
 S407X : Rope reeving control contact
 S510X : Travelling forward control contact
 S515X : Travelling backward control contact
 S610X : "Slewing to right" control contact
 S615X : "Slewing to left" control contact
 S930X : Erection switch contact
 S931X : Jib folded/unfolded switch contact
 S932X : Switch contact Horizontal or raised jib
 U230X : Electronic control block of radio control
 XB922N : Connection jib opening detector
 XB923N : Connection folded jib detector



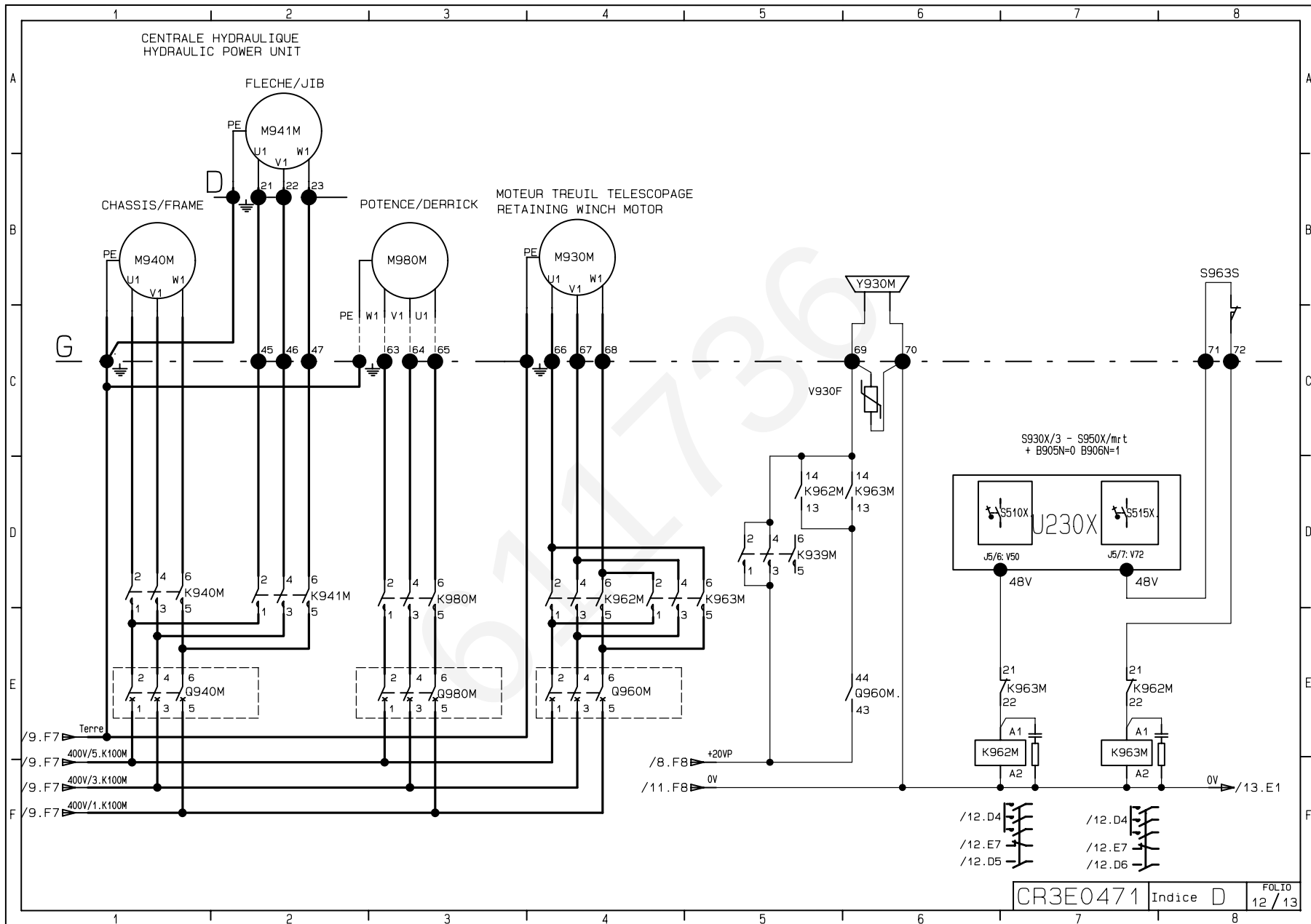




M980M : Derrick hydraulic unit motor
Q940M : Circuit breaker of the hydraulic unit supply
Q960M : Circuit breaker auxiliary winch supply
Q980M : Circuit breaker Derrick hydraulic unit supply
S510X : Travelling forward control contact
S515X : Travelling backward control contact
S963S : Safety contact Unwinding auxiliary telescoping winch
U230X : Electronic control block of radio control
V930F : Overvoltage limiter Telescoping motor brake
Y930M : Telescoping winch brake

K939M : Telescoping brake contactor
K940M : Hydraulic unit motor contactor
K941M : Contactor of hydraulic unit motor 2
K962M : Contactor Telescoping Up
K963M : Contactor Telescoping down
K980M : Hydraulic unit motor contactor
M930M : Telescoping hydraulic unit motor
M940M : Hydraulic unit motor
M941M : Hydraulic unit motor 2

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