

MEDIUM VOLTAGE SERVICE

UniSec

Spare parts improving switchgear availability



Our support journey is built on services protecting customer investments and the journey has four steps: maintain, modernize, assess and manage. Start-up and maintenance services ensure operational efficiency and rapid response. Specifically spare parts, and related workshop and on-site services support customers in keeping assets available and reliable.

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1. Introduction

1.1 UniSec spare parts

ABB offers a wide list of spare parts for your switchgear addressing important requirements of the future. ABB has a wide experience in medium voltage switchgears, which also allow us to provide you with a detailed list of recommended spare parts based on the lifecycle of your switchgear.

1.2 Facts

There are periodic and unforeseen events occurring due to different reasons like wrong handling or external impacts that may damage the switchgear. To ensure uptime of the customer's processes, the availability of proper spare parts for your product is an important element of every operational planning. Therefore ABB offers Recommended Spare Part lists which precisely fit your switchgear during the different lifecycle phases:

- Installation and Commissioning (I&C)
- 2 years of operation
- 5 years of operation
- 10 years of operation.

1.3 Recommended spare parts for the Installation and Commissioning of the switchgear

During the installation and commissioning process of a switchgear, there are unexpected situations that can cause delays in the start-up plan if you do not have the proper spare parts available in stock. ABB provides a recommended list of spare parts including the most frequently replaced components for:

- Fast availability during commissioning activities
- Fast substitution or repair possibilities
- Avoiding start up delays due to most common components possible unexpected failures
- Minimum stock holdings for your switchgear.



1.5 Benefits

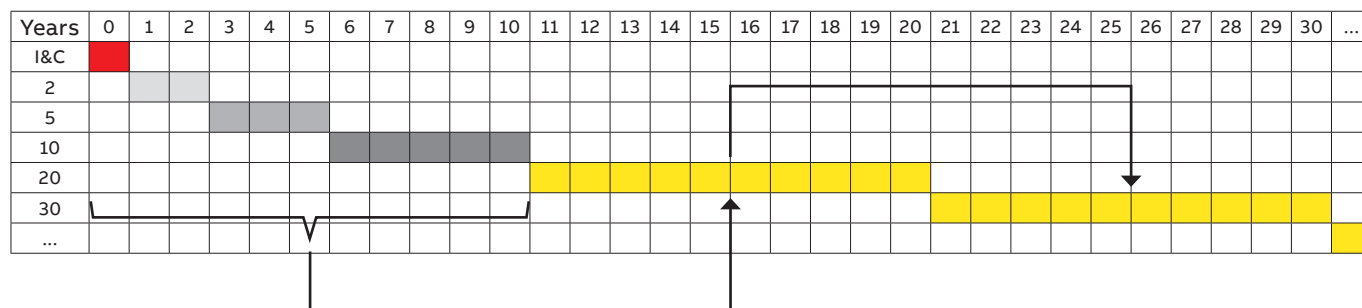
- Complete list of recommended spare parts for a proper stock at site
- Proper stock holdings for I&C and maintenance activities
- Fast recovery from failure
- Fast mobilization in case of urgency as dedicated spare parts are available in customer's stock
- Original ABB parts
- ABB warranty on the spares.

- Stock availability on site according to switchgear lifecycle status
- Faster response for maintenance activities and possible repairs if required
- Systematic approach for preventive care strategy on site
- Enhancing performance and uptime of the switchgear.

1.6 Operational progression

Their procurement shall start at I&C stage and progressively integrated step by step with the additional required ones for the next 2, 5 and 10 years. The stock shall then be used for the next decades and refilled as consumed.

Preventive maintenance activities shall also use the same spare parts and provide a consistent feedback with respect to the specific quantity needs due to the site operational and environmental conditions.



Operational progression

1.7 How to get them

Customers can get the UniSec spare parts through the following channels:

- On demand to ABB representatives
- Using the e-commerce tools in those countries where already live
- Managed by ABB by activating a Power Care customer support agreement

ABB Power Care	Entry level	Level 1	Level 2	Level 3
Skills Development Services	Product Training List	Product Training	Application Training	Coaching Services
Emergency Maintenance Services	Single Point of Contact	Technical Support with agreed response time	Call-out Support with agreed response time	Spare Parts Assessment and Management
Diagnosis and Condition Assessment Services	Documentation of Installed Base and Preliminary Survey	Asset Condition and Risk Assessment	Asset Monitoring	Remote Asset Monitoring
Self-Maintenance Services	Installed Base Life Cycle Status Report	Manuals and Instructions On-line	On-line Support for Self-maintenance	File Storage
Delivered Maintenance Services	Periodic Technical Assessment	Protection and Control Engineering Services	Switching Apparatus Engineering Services	Full Switchgear Engineering Services

How to get them

1.8 Panels classification

Units with switch-disconnector	
SDC	Incoming/outgoing
SDS	Coupler
SDM	Coupler with measure
SDD	Double switch-disconnector
Units with switch-disconnector and fuses	
SFC	Outgoing
SFS	Coupler
SFV	Measure
Other units	
DRC	Direct incoming/outgoing w/o ES
DRS	Busbar riser
RLC/RRC	Cable riser
UMP	Universal metering

Units with switch-disconnector and removable or withdrawable circuit-breaker	
SDC	Incoming/outgoing
SBC-W	Incoming/outgoing
SBS	Coupler
SBS-W	Coupler
SBR	Reversed feeder
SBM	Coupler with measure
Units with circuit-breaker and disconnector integrated	
HBC	Incoming/outgoing
Units with withdrawable circuit-breaker or contactor	
WBC	Withdrawable incoming/outgoing
WBS	Withdrawable coupler
BME	Busbars metering & earthing

1.9 Spare parts classification

L1: parts that can be replaced directly by customers by following equipment user manual instructions or better after having attended a L1 training (introduction training for equipment operators).

L2: parts that can be replaced directly by customers by following equipment user manual instructions or better after having attended a L2 training (advanced training for equipment maintainers and site operators).

L3: parts that can be delivered when associated to a qualified ABB maintenance or repairing activity only. These parts require dedicated tools and deep specific competence to be replaced.



2. Recommended spare parts

	Code	Description	I&C	2 years	5 years	10 years
LV COMPARTMENT	1VCF859800S0...	MCB miniature circuit breaker		•	•	•
	1VCF859800S0...	Pushbutton	•	•	•	•
	1VCF859800S.....	Signalling lamp	•	•	•	•
	1VCF859800S0210	Terminal board for test circuit of CT		•	•	•
	Made to order	Complete protection relay			•	•
MAIN COMPARTMENT	Gsec (valid for panel type SDC-SDS-SDM-SDD-SFC-SFS-SFV-SBC-SBC/W-SBS-SBS/W-SBR-SBM)	1VCF859800S0...	•	•	•	•
		1VCF859800S0...	•	•	•	•
		1VCF859800S0...	•	•	•	•
		1VCF859800S0...	•	•	•	•
		1VCF859800S0...			•	•
		1VCF859800S0...	•	•	•	•
		1VCF859800S0...	•		•	•
		1VCF859800S0...	•		•	•
		1VCF859800S0...	•		•	•
		1VCF859800S0...	•		•	•
		1VCF859800S0...	•		•	•
		1VCF319850S033...		•	•	•
		1VCF319850S0111	•			
		1VCF859800S0018				•
	HySec (valid for panel type HBC)	1VCF349850S29...	•	•	•	•
		1VCF349850S09...	•	•	•	•
		1VCF349850S39...	•	•	•	•
		1VCF339850S0651			•	•
		1VCF339850S063...		•	•	•
		1VCF31953S09...	•	•	•	•
		1VCF339751S89...	•	•	•	•
		1VCF319850S01...			•	•
		1VCF319850S00...			•	•
		1VCF339799S0104				•
		1VCF339799S0011				•
		1VCF319850S0301		•	•	•
		1VCF319850S0321				•
		1VCF319850S0322				•
		1VCF319850S0323				•
	Circuit breaker (valid for panel type WBC-WBS-SBC-SBC/W-SBS-SBS/W-SBR-SBM)	1VCF3X9XXSX9...	•	•	•	•
		1VCF3X9X5XSX9...	•	•	•	•
		1VCF3X9XXXS...	•	•	•	•
		1VCF339752S39...	•	•	•	•
		1VCF.....	•	•	•	•
		1VCF349799S0261	•	•	•	•
		1VCF3X9XXSX9...	•	•	•	•
		1VCF.....		•	•	•
		1VCF3X9X50S0...	•	•	•	•
		1VCF.....		•	•	•
		1VCF.....		•	•	•
		1VCF.....		•	•	•
		1VCF.....			•	•
		1VCF.....			•	•
		1VCF309599S....		•	•	•
		Made to order	Complete circuit breaker VD4/R-Sec, VD4/Sec, Vmax/Sec, HD4/R-Sec or HD4/Sec			•
			Complete contactor VSC/P			•

* Spare part only valid for circuit breaker in panel type SBC-SBC/W-SBS-SBS/W-SBR-SBM

** Spare part only valid for circuit breaker in panel type WBC and WBS

	Code	Description	I&C	2 years	5 years	10 years
CABLE COMPARTMENT	1VCF859800S0006	Upper MV fuses support with tripping system, without fuses		•	•	•
	1VCF594000S....	Lower fuses support without fuses		•	•	•
	1VCF.....	MV fuses, set of 3 (per size type)	•	•	•	•
	1VCF859800S021...	Insulators with/without capacitive dividers, set of 3, height 225mm for UniSec side version			•	•
	1VCF559416S0357	Field diffuser with cover, set of 1, for Unisec side version 24kV			•	•
	1VCF859800S0013	Anti-condensation heater				•
	1VCF859800S0...	Mechanical door interlock for cable compartment			•	
	1VCF859800S0017	Operating mechanism with door lock of earthing disconnector for UniSec DRC			•	•
	1VCF859800S0...	Damping resistance				•
	Made to order	CT's (not applicable for SDD, SFC, SFS, SBR)				•
		VT's (not applicable for SDD, SFC, SFS, SBR)				•
	1VCF859800S004...	Circuit breaker extraction truck for Unisec (per panel type)	•	•	•	•
	1VCF859800S0044	Test cable with plug & socket lenght 3mt for UniSec **	•			
	1VCF594000S....	Clamps or brackets for MV cable				•
	1VCF594000S....	Terminals for MV cable, set of 3				•

* Spare part only valid for circuit breaker in panel type SBC-SBC/W-SBS-SBS/W-SBR-SBM

** Spare part only valid for circuit breaker in panel type WBC and WBS

3. Low Voltage compartment spare parts

3.1 Auxiliary compartment



3.1.1 MCB Miniature circuit breaker (Classification L1)

Ordering code	Description
1VCF859800S0155	MCB miniature circuit breaker two pole 6kA C1,6A for coil circuit protection for UniSec
1VCF859800S0156	MCB miniature circuit breaker two pole 6kA C1,6A-UC for coil circuit protection for UniSec
1VCF859800S0157	MCB miniature circuit breaker two pole 6kA C6A for coil circuit protection for UniSec
1VCF859800S0158	MCB miniature circuit breaker two pole 6kA C2A for spring charging motor protection for HD4 in UniSec
1VCF859800S0159	MCB miniature circuit breaker two pole 6kA C2A-UC for spring charging motor protection for HD4 in UniSec
1VCF859800S0160	MCB miniature circuit breaker two pole 6kA C8A for spring charging motor protection for HD4 in UniSec
1VCF859800S0161	MCB miniature circuit breaker two pole 6kA C0,5A for heater or LV compartment light or spring charging motor protection for VD4 in UniSec
1VCF859800S0162	MCB miniature circuit breaker two pole 6kA C1A-UC for spring charging motor protection for VD4 in UniSec
1VCF859800S0163	MCB miniature circuit breaker two pole 6kA C4A for spring charging motor protection for VD4 in UniSec



3.1.2 Pushbutton (Classification L1)

Ordering code	Description
1VCF859800S0164	Pushbutton 1NO black colour for UniSec
1VCF859800S0165	Pushbutton 1NO white colour for UniSec
1VCF859800S0166	Pushbutton 1NO blue colour for UniSec
1VCF859800S0167	Pushbutton 1NO green colour for UniSec
1VCF859800S0168	Pushbutton 1NO red colour for UniSec
1VCF859800S0169	Pushbutton 1NO + 1NC green colour for UniSec
1VCF859800S0170	Pushbutton 1NC black colour for UniSec
1VCF859800S0171	Pushbutton 1NC white colour for UniSec
1VCF859800S0172	Pushbutton 1NC blue colour for UniSec
1VCF859800S0173	Pushbutton 1NC green colour for UniSec
1VCF859800S0174	Pushbutton 1NC red colour for UniSec



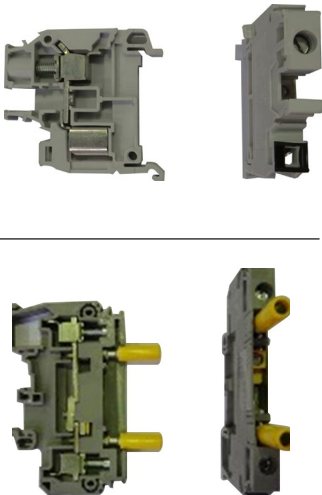
3.1.3 Signalling lamp (Classification L1)

Ordering code	Description
1VCF859800S0175	Signalling lamp with integrated LED 24Vdc/ac green colour for UniSec
1VCF859800S0176	Signalling lamp with integrated LED 48Vdc/ac green colour for UniSec
1VCF859800S0177	Signalling lamp with integrated LED 60Vdc/ac green colour for UniSec
1VCF859800S0178	Signalling lamp with integrated LED 110-130Vac green colour for UniSec
1VCF859800S0179	Signalling lamp with integrated LED 110-130Vdc green colour for UniSec
1VCF859800S0180	Signalling lamp with integrated LED 220Vdc green colour for UniSec
1VCF859800S0181	Signalling lamp with integrated LED 230Vac green colour for UniSec
1VCF859800S0182	Signalling lamp with integrated LED 24Vdc/ac white colour for UniSec
1VCF859800S0183	Signalling lamp with integrated LED 48Vdc/ac white colour for UniSec
1VCF859800S0184	Signalling lamp with integrated LED 60Vdc/ac white colour for UniSec
1VCF859800S0185	Signalling lamp with integrated LED 110-130Vac white colour for UniSec
1VCF859800S0186	Signalling lamp with integrated LED 110-130Vdc white colour for UniSec
1VCF859800S0187	Signalling lamp with integrated LED 220Vdc white colour for UniSec
1VCF859800S0188	Signalling lamp with integrated LED 230Vac white colour for UniSec
1VCF859800S0189	Signalling lamp with integrated LED 24Vdc/ac yellow colour for UniSec
1VCF859800S0190	Signalling lamp with integrated LED 48Vdc/ac yellow colour for UniSec
1VCF859800S0191	Signalling lamp with integrated LED 60Vdc/ac yellow colour for UniSec
1VCF859800S0192	Signalling lamp with integrated LED 110-130Vac yellow colour for UniSec
1VCF859800S0193	Signalling lamp with integrated LED 110-130Vdc yellow colour for UniSec
1VCF859800S0194	Signalling lamp with integrated LED 220Vdc yellow colour for UniSec
1VCF859800S0195	Signalling lamp with integrated LED 230Vac yellow colour for UniSec
1VCF859800S0196	Signalling lamp with integrated LED 24Vdc/ac red colour for UniSec
1VCF859800S0197	Signalling lamp with integrated LED 48Vdc/ac red colour for UniSec
1VCF859800S0198	Signalling lamp with integrated LED 60Vdc/ac red colour for UniSec
1VCF859800S0199	Signalling lamp with integrated LED 110-130Vac red colour for UniSec
1VCF859800S0200	Signalling lamp with integrated LED 110-130Vdc red colour for UniSec
1VCF859800S0201	Signalling lamp with integrated LED 220Vdc red colour for UniSec
1VCF859800S0202	Signalling lamp with integrated LED 230Vac red colour for UniSec
1VCF859800S0203	Signalling lamp with integrated LED 24Vdc/ac blue colour for UniSec
1VCF859800S0204	Signalling lamp with integrated LED 48Vdc/ac blue colour for UniSec
1VCF859800S0205	Signalling lamp with integrated LED 60Vdc/ac blue colour for UniSec
1VCF859800S0206	Signalling lamp with integrated LED 110-130Vac blue colour for UniSec
1VCF859800S0207	Signalling lamp with integrated LED 110-130Vdc blue colour for UniSec
1VCF859800S0208	Signalling lamp with integrated LED 220Vdc blue colour for UniSec
1VCF859800S0209	Signalling lamp with integrated LED 230Vac blue colour for UniSec



3.1.4 Terminal boards (Classification L1)

Ordering code	Description
1VCF859800S0227	Terminal boards 1mm ² cable, set of 10 pieces, for auxiliary circuits of UniSec
1VCF859800S0228	Terminal boards 2,5mm ² cable, set of 10 pieces, for auxiliary circuits of UniSec
1VCF859800S0210	Terminal board 30A 6mm ² cable, set of 10 for test circuit of CT for UniSec



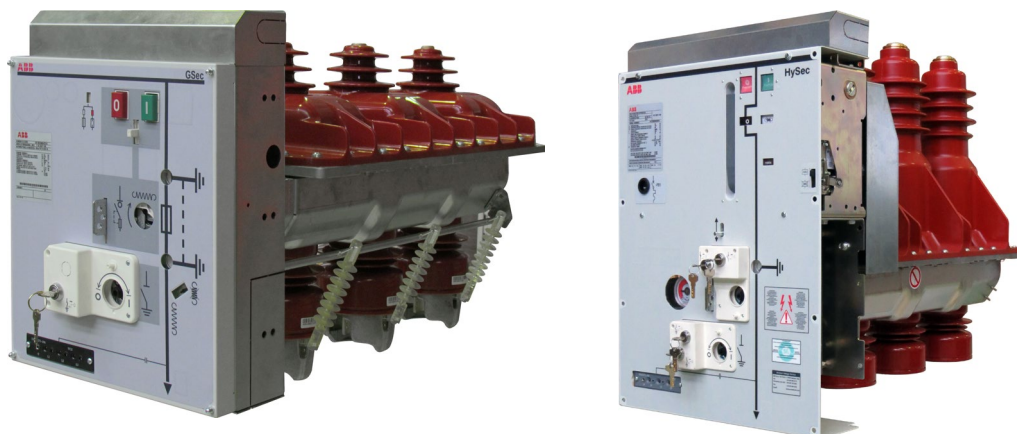
3.1.5 Protection relays (Classification L2)

Ordering code	Description
Made to order	Protection relay for the LV Compartment



4. Main compartment spare parts

4.1 GSec disconnecter and HySec multifunction



4.1.1 Opening release for GSec disconnecter (Classification L2)

Ordering code	Description
1VCF859800S0009	Opening release YO1-MO1-MBO1 aux. voltage 24Vdc for Gsec, Gsec-UniSec
1VCF859800S0132	Opening release YO1-MO1-MBO1 aux. voltage 48Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0131	Opening release YO1-MO1-MBO1 aux. voltage 60Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0130	Opening release YO1-MO1-MBO1 aux. voltage 110-132Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0128	Opening release YO1-MO1-MBO1 aux. voltage 220-250Vdc/ac for Gsec, Gsec-UniSec



4.1.2 Opening release, smart type for VD4, Vmax, HySec with single EL (Classification L2)

Ordering code	Description
1VCF349850S0902	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 24Vdc, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0903	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 30Vdc, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0904	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 48Vdc/ac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0905	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 60Vdc/ac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0913	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 110-132Vdc, 110-127Vac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0922	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 220-250Vdc/ac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL



4.1.3 Additional opening release for HySec (Classification L2)

Ordering code	Description
1VCF319553S0902	Additional Opening release MO4-MBO4 aux voltage 24Vdc for HySec
1VCF319553S0903	Additional Opening release MO4-MBO4 aux voltage 30Vdc for HySec
1VCF319553S0904	Additional Opening release MO4-MBO4 aux voltage 48Vac/dc for HySec
1VCF319553S0905	Additional Opening release MO4-MBO4 aux voltage 60Vac/dc for HySec
1VCF319553S0913	Additional Opening release MO4-MBO4 aux voltage 110+132Vac/dc for HySec
1VCF319553S0922	Additional Opening release MO4-MBO4 aux voltage 220+250Vac/dc for HySec



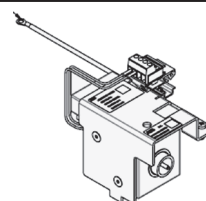
4.1.4 Additional opening release, smart coil, for HySec (Classification L2)

Ordering code	Description
1VCF339850S3902	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 24Vdc, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF339850S3903	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 30Vdc, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF339850S3904	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 48Vdc/ac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF339850S3905	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 60Vdc/ac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF339850S3913	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 110-132Vdc, 110-127Vac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF339850S3922	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 220-250Vdc/ac IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL



4.1.5 Closing release for G-Sec disconnecter (Classification L2)

Ordering code	Description
1VCF859800S0008	Closing release YC-MC-MBC, smart coil, aux. voltage 24Vdc for Gsec, Gsec-UniSec
1VCF859800S0137	Closing release YC-MC-MBC, smart coil, aux. voltage 48Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0136	Closing release YC-MC-MBC, smart coil, aux. voltage 60Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0135	Closing release YC-MC-MBC, smart coil, aux. voltage 110-132Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0133	Closing release YC-MC-MBC, smart coil, aux. voltage 220-250Vdc/ac for Gsec, Gsec-UniSec



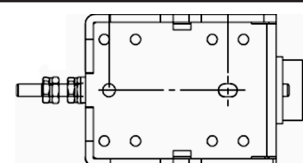
4.1.6 Closing release, smart type for VD4, Vmax, ADVAC, HySec with single EL (Classification L2)

Ordering code	Description
1VCF349850S2902	Closing release YC-MC-MBC, smart coil, aux. voltage 24Vdc for VD4/P 50kA, VD4/VD4 High Duty up to 40kA, ADVAC, HySec, Vmax, VD4 side version, with single EL except VD4/R ESH
1VCF349850S2903	Closing release YC-MC-MBC, smart coil, aux. voltage 30Vdc for VD4/P 50kA, VD4/VD4 High Duty up to 40kA, HySec, Vmax, VD4 side version, with single EL except VD4/R ESH
1VCF349850S2904	Closing release YC-MC-MBC, smart coil, aux. voltage 48Vdc/ac for VD4/P 50kA, VD4/VD4 High Duty up to 40kA, ADVAC, HySec, Vmax, VD4 side version, with single EL except VD4/R ESH
1VCF349850S2905	Closing release YC-MC-MBC, smart coil, aux. voltage 60Vdc/ac for VD4/P 50kA, VD4/VD4 High Duty up to 40kA, HySec, Vmax, VD4 side version, with single EL except VD4/R ESH
1VCF349850S2913	Closing release YC-MC-MBC, smart coil, aux. voltage 110-132Vdc, 110-127Vac for ADVAC-VD4-VD4R EL-Vmax, HySec except VD4/R ESH
1VCF349850S2922	Closing release YC-MC-MBC, smart coil, aux. voltage 220-250Vdc/ac for ADVAC-VD4-VD4R EL-Vmax, HySec except VD4/R ESH



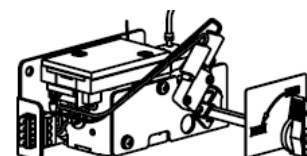
4.1.7 Opening or closing release for motorized electronic version operating mechanism double spring for Gsec, Gsec-UniSec (Classification L2)

Ordering code	Description
1VCF859800S0026	Opening or closing release for motorized electronic version, operating mechanism double spring aux. voltage LV for Gsec, Gsec-UniSec
1VCF859800S0066	Opening or closing release for motorized electronic version, operating mechanism double spring aux. voltage HV for Gsec, Gsec-UniSec



4.1.8 Undervoltage release for G-Sec disconnecter (Classification L3)

Ordering code	Description
1VCF859800S0010	Undervoltage release YU-MU-MBU aux. voltage 24Vdc for Gsec, Gsec-UniSec
1VCF859800S0127	Undervoltage release YU-MU-MBU aux. voltage 48Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0126	Undervoltage release YU-MU-MBU aux. voltage 60Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0125	Undervoltage release YU-MU-MBU aux. voltage 110Vdc/ac for Gsec, Gsec-UniSec
1VCF859800S0124	Undervoltage release YU-MU-MBU aux. voltage 220Vdc/ac for Gsec, Gsec-UniSec
1VCF319553S0922	Additional Opening release MO4-MBO4 aux voltage 220÷250Vac/dc for HySec



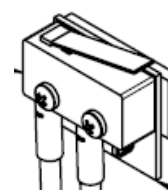
4.1.9 Undervoltage release for VD4, Vmax, ADVAC, HySec (Classification L2)

Ordering code	Description
1VCF349850S3902	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 24Vdc for VD4/VD4 High Duty/ADVAC up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3903	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 30Vdc for VD4/VD4 High Duty up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3904	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 48Vdc/ac for VD4/VD4 High Duty/ADVAC up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3905	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 60Vdc/ac for VD4/VD4 High Duty up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3913	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 110-132Vdc, 110-127Vac for VD4/VD4 High Duty/ADVAC up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3922	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 220-250Vdc/ac for VD4/VD4 High Duty/ADVAC up to 40kA, HySec, Vmax, VD4 side version, with single EL



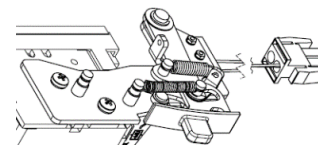
4.1.10 Position switches for undervoltage release (Classification L2)

Ordering code	Description
1VCF339850S0630	Position switch NO, BGB5 of undervoltage release energized for HySec
1VCF339850S0631	Position switch NC, BGB5 of undervoltage release deenergized for HySec



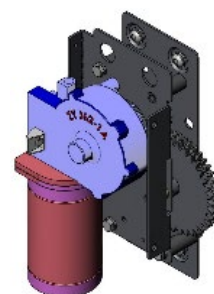
4.1.11 Mechanical override (Classification L3)

Ordering code	Description
1VCF339850S0651	Permanent mechanical override for undervoltage release for VD4, Vmax, ADVAC, VD4R-EL from s.n BA00045081, HySec



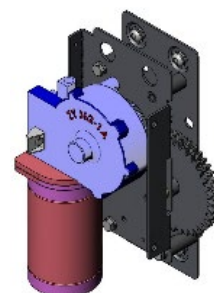
4.1.12 Motor with gear for operating mechanism single spring for G-Sec and HySec (Classification L2)

Ordering code	Description
1VCF859800S0105	Motor with gear for operating mechanism single spring MAD, aux. voltage 24V for Gsec, Gsec-UniSec, HySec
1VCF859800S0104	Motor with gear for operating mechanism single spring aux. MAD, voltage 48V for Gsec, Gsec-UniSec, HySec
1VCF859800S0103	Motor with gear for operating mechanism single spring aux. MAD, voltage 110V for Gsec, Gsec-UniSec, HySec
1VCF859800S0102	Motor with gear for operating mechanism single spring aux. MAD, voltage 220V for Gsec, Gsec-UniSec, HySec
1VCF859800S0099	Motor with gear for operating mechanism single spring aux. voltage LV, only for electronic motorized version, for GSec, GSec-UniSec
1VCF859800S0098	Motor with gear for operating mechanism single spring aux. voltage HV, only for electronic motorized version, for GSec, GSec-UniSec



4.1.13 Motor with gear for operating mechanism double spring for G-Sec and HySec (Classification L2)

Ordering code	Description
1VCF859800S0088	Motor with gear for operating mechanism double spring MAD, aux. voltage 24V for Gsec, Gsec-UniSec, HySec
1VCF859800S0087	Motor with gear for operating mechanism double spring aux. MAD, voltage 48V for Gsec, Gsec-UniSec, HySec
1VCF859800S0086	Motor with gear for operating mechanism double spring aux. MAD, voltage 110V for Gsec, Gsec-UniSec, HySec
1VCF859800S0085	Motor with gear for operating mechanism double spring aux. MAD, voltage 220V for Gsec, Gsec-UniSec, HySec
1VCF859800S0082	Motor with gear for operating mechanism double spring aux. voltage LV, only for electronic motorized version, for GSec, GSec-UniSec
1VCF859800S0081	Motor with gear for operating mechanism double spring aux. voltage HV, only for electronic motorized version, for GSec, GSec-UniSec



4.1.14 Kit of motor and contactor with gear for operating mechanism single spring for Gsec, Gsec-UniSec (Classification L3)

Ordering code	Description
1VCF859800S0097	Set of motor with gear and contactor for operating mechanism single spring aux. Voltage 24V for GSec, GSec-UniSec
1VCF859800S0096	Set of motor with gear and contactor for operating mechanism single spring aux. Voltage 48V for GSec, GSec-UniSec
1VCF859800S0095	Set of motor with gear and contactor for operating mechanism single spring aux. Voltage 110V for GSec, GSec-UniSec
1VCF859800S0094	Set of motor with gear and contactor for operating mechanism single spring aux. Voltage 220V for GSec, GSec-UniSec

**4.1.15 Kit of motor, 2 contactors and 1 pushbutton with gear for operating mechanism double spring for Gsec, Gsec-UniSec (Classification L3)**

Ordering code	Description
1VCF859800S0050	Set of motor with gear + 2 contactors + 1 pushbutton for operating mechanism double spring aux. voltage 24V for GSec, GSec-UniSec
1VCF859800S0051	Set of motor with gear + 2 contactors + 1 pushbutton for double spring aux. voltage 48V for GSec, GSec-UniSec
1VCF859800S0052	Set of motor with gear + 2 contactors + 1 pushbutton for double spring aux. voltage 110V for GSec, GSec-UniSec
1VCF859800S0053	Set of motor with gear + 2 contactors + 1 pushbutton for double spring aux. voltage 220V for GSec, GSec-UniSec

**4.1.16 Kit of motor, 1 contactor and 2 pushbuttons with gear for operating mechanism double spring CCO for Gsec, Gsec-UniSec (Classification L3)**

Ordering code	Description
1VCF859800S0054	Set of motor with gear + 1 contactor + 2 pushbutton for double spring CCO aux. voltage 24V for GSec, GSec-UniSec
1VCF859800S0055	Set of motor charging spring + 1 contactor + 2 pushbutton for double spring CCO aux. voltage 48V for GSec, GSec-UniSec
1VCF859800S0056	Set of motor with gear + 1 contactor + 2 pushbutton for double spring CCO aux. voltage 110V for GSec, GSec-UniSec
1VCF859800S0057	Set of motor with gear + 1 contactor + 2 pushbutton for double spring CCO aux. voltage 220V for GSec, GSec-UniSec

**4.1.17 Kit of motor, 1 contactor and 2 pushbuttons with gear for operating mechanism double spring SDD for Gsec, Gsec-UniSec (Classification L3)**

Ordering code	Description
1VCF859800S0058	Set of motor with gear + 1 contactor + 2 pushbutton for double spring SDD aux. voltage 24V for GSec, GSec-UniSec
1VCF859800S0049	Set of motor with gear + 1 contactor + 2 pushbutton for double spring SDD aux. voltage 48V for GSec, GSec-UniSec
1VCF859800S0048	Set of motor with gear + 1 contactor + 2 pushbutton for double spring SDD aux. voltage 110V for GSec, GSec-UniSec
1VCF859800S0047	Set of motor with gear + 1 contactor + 2 pushbutton for double spring SDD aux. voltage 220V for GSec, GSec-UniSec

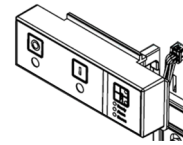
**4.1.18 Thermomagnetic motor protection for HySec (Classification L2)**

Ordering code	Description
1VCF319850S0121	Thermomagnetic motor protection FCM1 with electrical signalling NC, 24-60Vdc/ac for HySec
1VCF319850S0122	Thermomagnetic motor protection FCM1 with electrical signalling NC, 110-125Vdc/ac for HySec
1VCF319850S0123	Thermomagnetic motor protection FCM1 with electrical signalling NC, 220Vdc 220-240Vac for HySec
1VCF319850S0124	Thermomagnetic motor protection FCM1 with electrical signalling NO, 24-60Vdc/ac for HySec
1VCF319850S0125	Thermomagnetic motor protection FCM1 with electrical signalling NO, 110-125Vdc/ac for HySec
1VCF319850S0126	Thermomagnetic motor protection FCM1 with electrical signalling NO, 220Vdc 220-240Vac for HySec



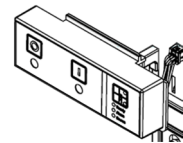
4.1.19 Electronic card HMI for motor of operating mechanism double spring for GSec, GSec-UniSec (Classification L2)

Ordering code	Description
1VCF859800S0068	Electronic card HMI for motor of operating mechanism double spring aux. voltage LV for GSec, GSec-UniSec
1VCF859800S0067	Electronic card HMI for motor of operating mechanism double spring aux. voltage HV for GSec, GSec-UniSec



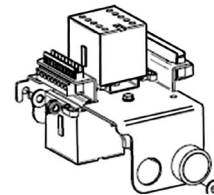
4.1.20 Electronic card HMI for motor of operating mechanism single spring for GSec, GSec-UniSec (Classification L2)

Ordering code	Description
1VCF859800S0023	Electronic card HMI for motor of operating mechanism single spring aux. voltage LV for GSec, GSec-UniSec
1VCF859800S0060	Electronic card HMI for motor of operating mechanism single spring aux. voltage HV for GSec, GSec-UniSec



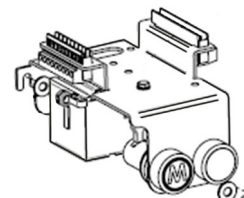
4.1.21 Kit of 2 contactors and 1 pushbutton for Gsec, Gsec-UniSec (Classification L2)

Ordering code	Description
1VCF859800S0027	Contactor support with 2 contactor + 1 pushbutton for operating mechanism double spring aux. voltage 24V for GSec, GSec-UniSec
1VCF859800S0080	Contactor support with 2 contactor + 1 pushbutton for operating mechanism double spring aux. voltage 48V for GSec, GSec-UniSec
1VCF859800S0079	Contactor support with 2 contactor + 1 pushbutton for operating mechanism double spring aux. voltage 110V for GSec, GSec-UniSec
1VCF859800S0078	Contactor support with 2 contactor + 1 pushbutton for operating mechanism double spring aux. voltage 220V for GSec, GSec-UniSec



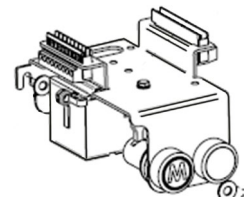
4.1.22 Kit of 1 contactor and 2 pushbuttons for Gsec, Gsec-UniSec (Classification L2)

Ordering code	Description
1VCF859800S0077	Contactor support with 1 contactor + 2 pushbutton for operating mechanism double spring CCO aux. voltage 24V for GSec, GSec-UniSec
1VCF859800S0076	Contactor support with 1 contactor + 2 pushbutton for operating mechanism double spring CCO aux. voltage 48V for GSec, GSec-UniSec
1VCF859800S0075	Contactor support with 1 contactor + 2 pushbutton for operating mechanism double spring CCO aux. voltage 110V for GSec, GSec-UniSec
1VCF859800S0074	Contactor support with 1 contactor + 2 pushbutton for operating mechanism double spring CCO aux. voltage 220V for GSec, GSec-UniSec



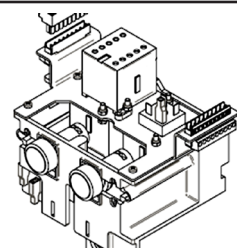
4.1.23 Kit of 1 contactor and 1 pushbutton for Gsec, Gsec-UniSec (Classification L2)

Ordering code	Description
1VCF859800S0073	Contactor support with 1 contactor + 1 push button for operating mechanism double spring SDD aux. voltage 24V for GSec, GSec-UniSec
1VCF859800S0072	Contactor support with 1 contactor + 1 pushbutton for operating mechanism double spring SDD aux. voltage 48V for GSec, GSec-UniSec
1VCF859800S0071	Contactor support with 1 contactor + 1 pushbutton for operating mechanism double spring SDD aux. voltage 110V for GSec, GSec-UniSec
1VCF859800S0070	Contactor support with 1 contactor + 1 pushbutton for operating mechanism double spring SDD aux. voltage 220V for GSec, GSec-UniSec



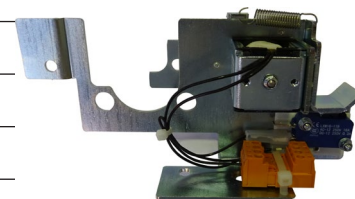
4.1.24 Kit of 3 contactors and 2 pushbuttons for Gsec, Gsec-UniSec (Classification L2)

Ordering code	Description
1VCF859800S0024	Contactor support with 3 contactor + 2 pushbutton for operating mechanism single spring aux. voltage 24V for GSec, GSec-UniSec
1VCF859800S0064	Contactor support with 3 contactor + 2 pushbutton for operating mechanism single spring aux. voltage 48V for GSec, GSec-UniSec
1VCF859800S0063	Contactor support with 3 contactor + 2 pushbutton for operating mechanism single spring aux. voltage 110V for GSec, GSec-UniSec
1VCF859800S0062	Contactor support with 3 contactor + 2 pushbutton for operating mechanism single spring aux. voltage 220V for GSec, GSec-UniSec



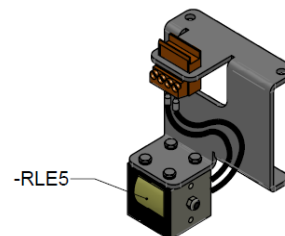
4.1.25 Coil to prevent manual lever insertion to earthing G-Sec disconnecter (Classification L2)

Ordering code	Description
1VCF559450S0300	Coil to prevent manual lever insertion to earthing disconnecter, RLE3 aux. voltage 24Vdc for Gsec, Gsec-UniSec
1VCF559450S0301	Coil to prevent manual lever insertion to earthing disconnecter, RLE3 aux. voltage 30Vdc for Gsec, Gsec-UniSec
1VCF559450S0302	Coil to prevent manual lever insertion to earthing disconnecter, RLE3 aux. voltage 48Vdc for Gsec, Gsec-UniSec
1VCF559450S0303	Coil to prevent manual lever insertion to earthing disconnecter, RLE3 aux. voltage 60Vdc for Gsec, Gsec-UniSec
1VCF559450S0304	Coil to prevent manual lever insertion to earthing disconnecter, RLE3 aux. voltage 110Vdc for Gsec, Gsec-UniSec
1VCF559450S0305	Coil to prevent manual lever insertion to earthing disconnecter, RLE3 aux. voltage 220Vdc for Gsec, Gsec-UniSec
1VCF559450S0306	Coil to prevent manual lever insertion to earthing disconnecter, RLE3 aux. voltage 240Vdc for Gsec, Gsec-UniSec



4.1.26 Coil to prevent manual lever insertion to line G-Sec disconnecter (Classification L2)

Ordering code	Description
1VCF859800S0032	Coil to prevent manual lever insertion to line disconnecter, RLE5 aux. voltage 24Vdc for Gsec, Gsec-UniSec
1VCF859800S0121	Coil to prevent manual lever insertion to line disconnecter, RLE5 aux. voltage 30Vdc for Gsec, Gsec-UniSec
1VCF859800S0120	Coil to prevent manual lever insertion to line disconnecter, RLE5 aux. voltage 48Vdc for Gsec, Gsec-UniSec
1VCF859800S0119	Coil to prevent manual lever insertion to line disconnecter, RLE5 aux. voltage 60Vdc for Gsec, Gsec-UniSec
1VCF859800S0118	Coil to prevent manual lever insertion to line disconnecter, RLE5 aux. voltage 110Vdc for Gsec, Gsec-UniSec
1VCF859800S0117	Coil to prevent manual lever insertion to line disconnecter, RLE5 aux. voltage 220Vdc for Gsec, Gsec-UniSec
1VCF859800S0116	Coil to prevent manual lever insertion to line disconnecter, RLE5 aux. voltage 240Vdc for Gsec, Gsec-UniSec



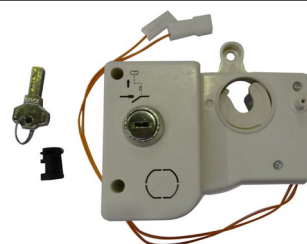
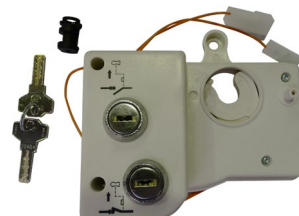
4.1.27 Position switch for HySec (Classification L2)

Ordering code	Description
1VCF319850S0301	Position switches BGlxix line-earth position for HySec



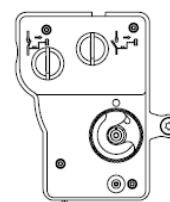
4.1.28 Standard key lock for line G-Sec disconnecter (Classification L1)

Ordering code	Description
1VCF559450S0220	Key lock standard type, 1 free with line disconnecter open, 1 free with line disconnecter close for Gsec, Gsec-UniSec
1VCF559450S0221	Key lock standard type, 1 free with line disconnecter open for Gsec, Gsec-UniSec
1VCF559450S0222	Key lock standard type, 1 free with line disconnecter close for Gsec, Gsec-UniSec

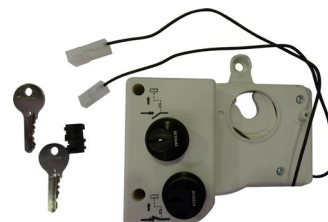


4.1.29 Profalux key lock for line G-Sec disconnecter (Classification L1)

Ordering code	Description
1VCF559450S0230	Key lock Profalux type, 1 free with line disconnecter open, 1 free with line disconnecter close for Gsec, Gsec-UniSec
1VCF559450S0231	Key lock Profalux type, 1 free with line disconnecter open for Gsec, Gsec-UniSec
1VCF559450S0232	Key lock Profalux type, 1 free with line disconnecter close for Gsec, Gsec-UniSec

**4.1.30 Ronis key lock for line G-Sec disconnecter (Classification L1)**

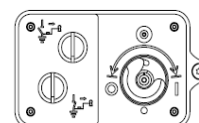
Ordering code	Description
1VCF559450S0240	Key lock Ronis type, 1 free with line disconnecter open, 1 free with line disconnecter close for Gsec, Gsec-UniSec
1VCF559450S0241	Key lock Ronis type, 1 free with line disconnecter open for Gsec, Gsec-UniSec
1VCF559450S0242	Key lock Ronis type, 1 free with line disconnecter close for Gsec, Gsec-UniSec

**4.1.31 Standard key lock for earthing G-Sec disconnecter (Classification L1)**

Ordering code	Description
1VCF559450S0250	Key lock standard type, 1 free with earthing disconnecter open, 1 free with earthing disconnecter close for Gsec, Gsec-UniSec
1VCF559450S0251	Key lock standard type, 1 free with earthing disconnecter open for Gsec, Gsec-UniSec
1VCF559450S0252	Key lock standard type, 1 free with earthing disconnecter close for Gsec, Gsec-UniSec

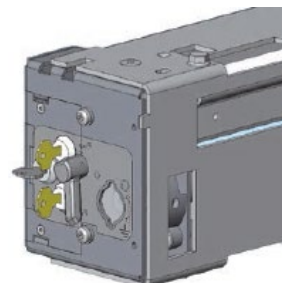
**4.1.32 Profalux key lock for earthing G-Sec disconnecter (Classification L1)**

Ordering code	Description
1VCF559450S0260	Key lock Profalux type, 1 free with earthing disconnecter open, 1 free with earthing disconnecter close for Gsec, Gsec-UniSec
1VCF559450S0261	Key lock Profalux type, 1 free with earthing disconnecter open for Gsec, Gsec-UniSec
1VCF559450S0262	Key lock Profalux type, 1 free with earthing disconnecter close for Gsec, Gsec-UniSec



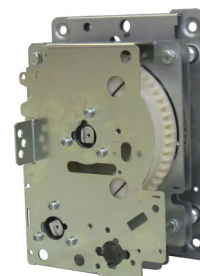
4.1.33 Key lock for ES and Circuit Breaker rack-in for WBC-WBS (Classification L3)

Ordering code	Description
1VCF859800S0140	Key lock, standard ABB type, set of n°1 piece free with ES earthing switch open for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0141	Key lock, Ronis type, set of n°1 piece free with ES earthing switch close for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0142	Key lock, Ronis type, set of n°1 free with ES earthing switch close and n°1 free with ES earthing switch open for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0143	Key lock, Ronis type, set of n°1 piece on circuit breaker racking-in of ES earthing switch for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0144	Key lock, standard ABB type, set of n°1 piece on circuit breaker racking-in for UniSec WBC-WBS 12-17,5-24kV without ES earthing switch
1VCF859800S0145	Key lock, Profalux type, set of n°1 piece on circuit breaker racking-in for UniSec WBC-WBS 12-17,5-24kV without ES earthing switch
1VCF859800S0146	Key lock, Ronis type, set of n°1 piece on circuit breaker racking-in for UniSec WBC-WBS 12-17,5-24kV without ES earthing switch
1VCF859800S0147	Key lock, standard ABB type, set of n°1 piece free with ES earthing switch close for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0148	Key lock, standard ABB type, set of n°1 free with ES earthing switch close and n°1 free with ES earthing switch open for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0149	Key lock, standard ABB type, set of n°1 piece on circuit breaker racking-in of ES earthing switch for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0150	Key lock, Profalux type, set of n°1 piece free with ES earthing switch open for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0151	Key lock, Profalux type, set of n°1 piece free with ES earthing switch close for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0152	Key lock, Profalux type, set of n°1 free with ES earthing switch close and n°1 free with ES earthing switch open for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0153	Key lock, Profalux type, set of n°1 piece on circuit breaker racking-in of ES earthing switch for UniSec WBC-WBS 12-17,5-24kV
1VCF859800S0154	Key lock, Ronis type, set of n°1 piece free with ES earthing switch open for UniSec WBC-WBS 12-17,5-24kV

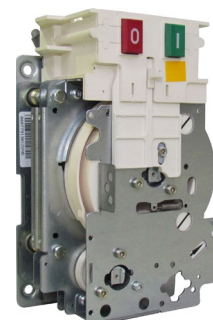


4.1.34 Operating mechanism for G-Sec disconnecter (Classification L3)

Ordering code	Description
1VCF859800S0019	Operating mechanism single spring for Gsec, GSec-UniSec

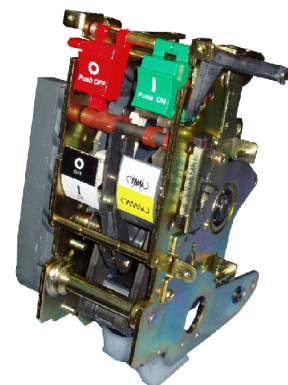


1VCF859800S0138	Operating mechanism double spring for GSec, GSec-UniSec
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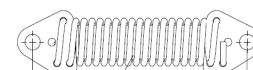


4.1.35 Operating mechanism for HySec (Classification L3)

Ordering code	Description
1VCF339799S0104	Operating mechanism EL2 without transmission for VD4/RU 630A-1250A, ADVAC, VD4, HySec, Vmax from s.n. AF00000851

**4.1.36 Opening spring of operating mechanism for HySec (Classification L3)**

Ordering code	Description
1VCF339799S0011	Opening spring of operating mechanism for HySec

**4.1.37 Pushbutton protection (Classification L1)**

Ordering code	Description
1VCF319850S0091	Pushbutton protection set of 1 piece, not prepared for padlock option for HySec

**4.1.38 G-Sec disconnecter (Classification L3)**

Ordering code	Description
1VCF859800S0018	GSec disconnecter without operating mechanism, for GSec, GSec-UniSec

**4.1.39 Manual operating lever for G-Sec and HySec disconnecter (Classification L1)**

Ordering code	Description
1VCF319850S0111	Manual operating lever for switch for GSec and HySec



4.1.40 Pressure gauge for GSec, Gsec-UniSec, HySec disconnecter (Classification L3)

Ordering code	Description	
1VCF319850S0321	Analog pressure gauge for Gsec, Gsec-UniSec, HySec	
1VCF319850S0322	Analog pressure gauge with remote signaling for Gsec, Gsec-UniSec, HySec	
1VCF319850S0323	Density sensor with remote signaling for Gsec, Gsec-UniSec, HySec	

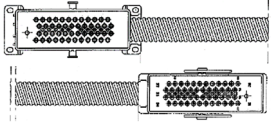
4.1.41 Limit switch for motorized operating mechanism for GSec, GSec-UniSec (Classification L2)

Ordering code	Description	
1VCF859800S0061	Limit switch for motorized operating mechanisms single spring for Gsec, Gsec-UniSec	
1VCF859800S0059	Limit switch for motorized, electronic version, operating mechanisms single spring for Gsec, Gsec-UniSec	
1VCF859800S0069	Limit switch for motorized operating mechanisms double spring for Gsec, Gsec-UniSec	
1VCF859800S0065	Limit switch for motorized, electronic version, operating mechanisms double spring for Gsec, Gsec-UniSec	

4.1.42 Voltage presence device for GSec, Gsec-UniSec, HySec disconnecter (Classification L2)

Ordering code	Description	
1VCF319850S0331	Voltage presence device 12kV for GSec, GSec-UniSec, HySec	
1VCF319850S0332	Voltage presence device 17-24kV for GSec, GSec-UniSec, HySec	

4.1.43 Test cable with plug and socket for UniSec WBC-WBS (Classification L1)

Ordering code	Description	
1VCF859800S0044	Test cable with plug & socket (58 pins) L 3mt for UniSec WBC-WBS	

5. Main compartment

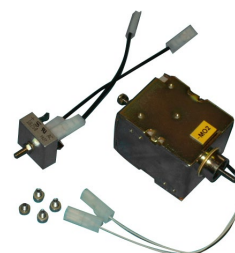
Circuit breakers and contactors (HD4, VD4, Vmax, VSC)

5.1 HD4 circuit breaker for Unisec



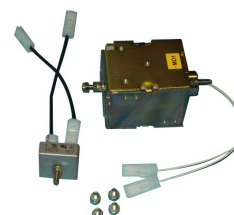
5.1.1 Opening release (Classification L2)

Ordering code	Description
1VCF349752S0902	Opening release YO1-MO1-MBO1 aux. voltage 24Vdc for HD4-VD4/R ESH
1VCF349752S0903	Opening release YO1-MO1-MBO1 aux. voltage 30Vdc for HD4-VD4/R ESH
1VCF349752S0904	Opening release YO1-MO1-MBO1 aux. voltage 48Vdc 50Hz for HD4-VD4/R ESH
1VCF349752S0905	Opening release YO1-MO1-MBO1 aux. voltage 60Vdc for HD4-VD4/R ESH
1VCF349752S0909	Opening release YO1-MO1-MBO1 aux. voltage 110-132Vdc 110-127Vac for HD4-VD4/R ESH
1VCF349752S0918	Opening release YO1-MO1-MBO1 aux. voltage 220-250Vdc/ac for HD4-VD4/R ESH



5.1.2 Additional opening release (Classification L2)

Ordering code	Description
1VCF349753S0902	Additional opening release YO2-MO2-MBO2 aux. voltage 24Vdc for HD4-VD4/R ESH
1VCF349753S0903	Additional opening release YO2-MO2-MBO2 aux. voltage 30Vdc for HD4-VD4/R ESH
1VCF349753S0904	Additional opening release YO2-MO2-MBO2 aux. voltage 48Vdc/ac for HD4-VD4/R ESH
1VCF349753S0905	Additional opening release YO2-MO2-MBO2 aux. voltage 60Vdc/ac for HD4-VD4/R ESH
1VCF349753S0909	Additional opening release YO2-MO2-MBO2 aux. voltage 110-132Vdc, 110-127Vac for HD4-VD4/R ESH
1VCF349753S0918	Additional opening release YO2-MO2-MBO2 aux. voltage 220-250Vdc/ac for HD4-VD4/R ESH



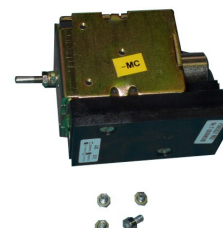
5.1.3 Opening release for protection release (Classification L2)

Ordering code	Description
1VCF349750S0312	Opening release for protection relay YO3-MO3-MBO3 for HD4-VD4/R ESH



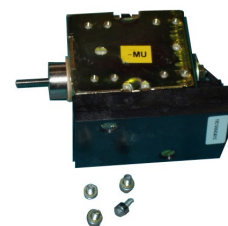
5.1.4 Closing release (Classification L2)

Ordering code	Description
1VCF349758S0902	Closing release YC-MC-MBC aux. voltage 24Vdc for HD4-VD4/R ESH
1VCF349758S0903	Closing release YC-MC-MBC aux. voltage 30Vdc for HD4-VD4/R ESH
1VCF349758S0904	Closing release YC-MC-MBC aux. voltage 48Vdc/ac for HD4-VD4/R ESH
1VCF349758S0905	Closing release YC-MC-MBC aux. voltage 60Vdc/ac for HD4-VD4/R ESH
1VCF349758S0909	Closing release YC-MC-MBC aux. voltage 110-132Vdc, 110-127Vac for HD4-VD4/R ESH
1VCF349758S0918	Closing release YC-MC-MBC aux. voltage 220-250Vdc/ac for HD4-VD4/R ESH



5.1.5 Undervoltage release (Classification L2)

Ordering code	Description
1VCF349772S0902	Undervoltage release YU-MU-MBU aux. voltage 24Vdc for HD4-VD4/R ESH
1VCF349772S0903	Undervoltage release YU-MU-MBU aux. voltage 30Vdc for HD4-VD4/R ESH
1VCF349772S0904	Undervoltage release YU-MU-MBU aux. voltage 48Vdc/ac for HD4-VD4/R ESH
1VCF349772S0905	Undervoltage release YU-MU-MBU aux. voltage 60Vdc/ac for HD4-VD4/R ESH
1VCF349772S0909	Undervoltage release YU-MU-MBU aux. voltage 110-132Vdc, 110-127Vac for HD4-VD4/R ESH
1VCF349772S0918	Undervoltage release YU-MU-MBU aux. voltage 220-250Vdc/ac for HD4-VD4/R ESH
1VCF349772S0923	Undervoltage release YU-MU-MBU aux. voltage 310Vdc for HD4-VD4/R ESH
1VCF349772S0975	Undervoltage release YU-MU-MBU aux. voltage 145Vdc/ac for HD4-VD4/R ESH



5.1.6 Auxiliary relay of undervoltage release for time delay (Classification L2)

Ordering code	Description
1VCF339750S7902	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 24-30Vdc for time delay 0,5-3s for HD4-VD4-Vmax
1VCF339750S7904	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 48Vdc/ac for time delay 0,5-3s for HD4-VD4-Vmax
1VCF339750S7905	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 60Vdc/ac for time delay 0,5-3s for HD4-VD4-Vmax
1VCF339750S7909	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 110-132Vdc/ac for time delay 0,5-3s for HD4-VD4-Vmax
1VCF339750S7918	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 220-240Vdc/ac for time delay 0,5-3s for HD4-VD4-Vmax



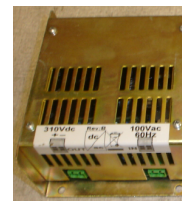
5.1.7 Position switches for undervoltage release (Classification L2)

Ordering code	Description
1VCF349750S0367	Position switch YU-BB5-BGB5 (NO) for undervoltage release energized for HD4 from s.n. AC00002779
1VCF349750S0368	Position switch YU-BB5-BGB5 (NC) for undervoltage release deenergized for HD4 from s.n. AC00002779
1VCF349750S0365	Position switch YU-BB5-BGB5 (NO) for undervoltage release energized for HD4 up to s.n. AC00002778
1VCF349750S0366	Position switch YU-BB5-BGB5 (NC) for undervoltage release deenergized for HD4 up to s.n. AC00002778
1VCF349800S0251	Position switch YU-BB5-BGB5 (NO) for undervoltage release for HD4/R (from SN: AC00002779)-VD4/R ESH
1VCF349800S0252	Position switch YU-BB5-BGB5 (NC) for undervoltage release for HD4/R (from SN: AC00002779)-VD4/R ESH



5.1.8 Power supply for undervoltage release (Classification L1)

Ordering code	Description
1VCF349773S0923	Power supply for undervoltage release YU-MU-MBU aux. voltage input 100Vac 60Hz output 310Vdc for time delay 0,5-3s for HD4-HA-H



5.1.9 Electromechanical lock for operating mechanism (Classification L2)

Ordering code	Description
1VCF349757S0902	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 24Vdc for HD4 except HD4/R
1VCF349757S0903	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 30Vdc for HD4 except HD4/R
1VCF349757S0904	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 48Vdc/ac for HD4 except HD4/R
1VCF349757S0905	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 60Vdc/ac for HD4 except HD4/R
1VCF349757S0909	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 110-132Vdc, 110-127Vac for HD4 except HD4/R
1VCF349757S0918	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 220-250Vdc/ac for HD4 except HD4/R



5.1.10 STU Shunt test unit (Classification L1)

Ordering code	Description
1VCF339700S0361	Shunt test unit (STU) for YO1-MO1-MBO1/YO2-MO2-MBO2/YC-MC-MBC 24-250Vdc/ac for Vmax-VD4-VD4R EL and only YC-MC-MBC for HD4-VD4R ESH



5.1.11 Motor for circuit breaker springs charging (Classification L2)

Ordering code	Description
1VCF349750S0902	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 24-30Vdc, 24V 50Hz for HD4-VD4/R ESH
1VCF349750S0904	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 48-60Vdc/ac 50Hz for HD4-VD4/R ESH
1VCF349750S0909	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 110-132Vdc, 110-127Vac for HD4-VD4/R ESH
1VCF349750S0918	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 220Vdc for HD4-VD4/R ESH
1VCF349750S0948	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 220-250Vac for HD4-VD4/R ESH



5.1.12 Thermomagnetic circuit breaker for motor protection (Classification L2)

Ordering code	Description
1VCF349800S0241	Thermomagnetic circuit breaker for the protection of the motor, with contact ON or OFF, 24-60Vdc/ac 50Hz for HD4/R-VD4/R ESH
1VCF349800S0242	Thermomagnetic circuit breaker for the protection of the motor, with contact ON or OFF, 110-125Vdc, 110-127Vac for HD4/R-VD4/R ESH
1VCF349800S0243	Thermomagnetic circuit breaker for the protection of the motor, with contact ON or OFF, 220Vdc, 220-240Vac for HD4/R-VD4/R ESH
1VCF349750S0261	Thermomagnetic circuit breaker for the protection of the motor 24-60Vdc/ac 50Hz for HD4 front version
1VCF349750S0263	Thermomagnetic circuit breaker for the protection of the motor 110-125Vdc, 110-127Vac for HD4 front version
1VCF349750S0264	Thermomagnetic circuit breaker for the protection of the motor 220Vdc, 220-240Vac for HD4 front version



5.1.13 Position switch for circuit breaker's motor protection (Classification L2)

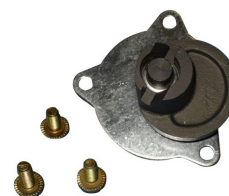
Ordering code	Description
1VCF349750S0483	Position switch Q60-FB1-FCM1 (NO) for circuit breaker's motor protection for HD4, HD4/R (from SN: AC00002779)

**5.1.14 Motor limit switch (Classification L2)**

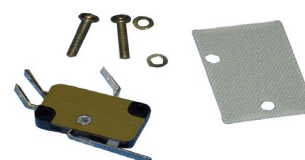
Ordering code	Description
1VCF349799S0171	Motor limit switch S33M/1-BS1-BGS1 for HD4-VD4/R ESH

**5.1.15 Manual device for closing springs charging (Classification L2)**

Ordering code	Description
1VCF349750S0121	Manual device for closing spring charging for HD4-VD4/R ESH

**5.1.16 Limit switch of closing springs charge or discharge (Classification L2)**

Ordering code	Description
1VCF349750S0341	Position switch of closing springs charge or discharge S33M/2-BS2-BGS2 for HD4-VD4/R ESH

**5.1.17 Position switch in the truck (Classification L3)**

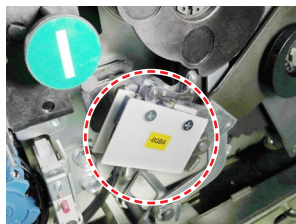
Ordering code	Description
1VCF349750S1460	Position switch S75I-S75S-BT1-BT2-BGT1-BGT2 for circuit breaker with manual truck for HD4/W/E-W/P 12-17kV, HD4/W/EW/US/SEC/GT-P, HM1/UT/W-P 24kV

**5.1.18 Position switches (Classification L2)**

Ordering code	Description
1VCF349750S0395	Position switch S75C-BT3-BGT3 for HD4/W/P/SEC/GT_P/US, HM1/UT_W/UT_P from s.n. AC00002779, VD4/P-G/GT-P 12kV, VSC7-12/P/PG, Vmax/W/SEC, VD4/P/C/W/PW/US/SEC/Z



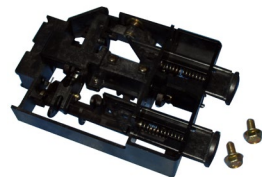
5.1.19 Transient contact (Classification L2)

Ordering code	Description	
1VCF349750S0371	Transient contact Q0-BB4-BGB4 for HD4 up to s.n. AC00002778	
1VCF349750S0372	Transient contact Q0-BB4-BGB4 for HD4 from s.n. AC00002779	

5.1.20 Counter (Classification L2)

Ordering code	Description	
1VCF349799S0501	Mechanical operation counter for HD4-VD4R ESH	

5.1.21 Antipumping device (Classification L2)

Ordering code	Description	
1VCF349799S0261	ESH antipumping device for HD4-VD4/R ESH	

5.1.22 Pushbutton protection (Classification L1)

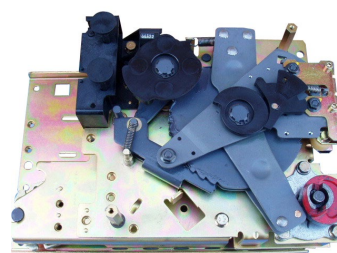
Ordering code	Description	
1VCF349750S0501	Pushbutton protection set of 2 pieces, prepared for padlock option (without padlock) for HD4-VD4/R ESH	
1VCF349799S0552	Protection of shaft for manual charging of closing springs for HD4-VD4/R ESH	

5.1.23 Lever for manual closing springs charging (Classification L1)

Ordering code	Description	
1VCF349750S0201	Lever for manual closing spring charging for HD4 fixed version	
1VCF349750S0211	Lever for manual closing spring charging and lever for racking in/out the circuit breaker for HD4/NFSG	
1VCF349750S0212	Lever for manual closing spring charging and lever for racking in/out the circuit breaker for HD4/C/W/P/Z/GT_P/US	
1VCF349750S0213	Lever for manual closing spring charging for HD4 side version	
1VCF349750S0214	Lever for manual closing spring charging and lever for racking in/out the circuit breaker for HD4/Z 40.5kV	

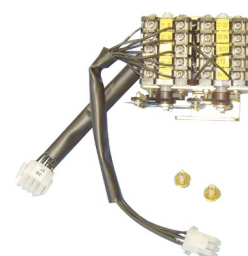
5.1.25 Operating mechanism for HD4 (Classification L3)

Ordering code	Description
1VCF349799S0181	Operating mechanism ESH8 without transmission for HD4/W/Z/P/C/US/SEC/SG/GT/GT-P/P-SA/ESB/E/SEV/W-SA except HD4/HPA/R/S/Uniair/Unimix/R-SEC, VD4/R ESH
1VCF349899S0191	Operating mechanism ESH8 without transmission for HD4/R/S/Uniair/Unimix/R-SEC 630A except HD4/W/Z/P/C/US/SEC/SG/GT/GT-P/P-SA/ESB/E/SEV//W-SA, HD4/HPA-VD4/R ESH
1VCF349899S0192	Operating mechanism ESH9 without transmission for HD4/R/S/Uniair/Unimix/R-SEC 1250A except HD4/W/Z/P/C/US/SEC/SG/GT/GT-P/P-SA/ESB/E/SEV//W-SA, HD4/HPA-VD4/R ESH



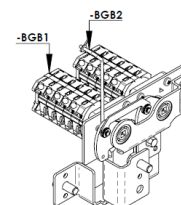
5.1.26 Position switches of circuit breaker's operating mechanism (Classification L2)

Ordering code	Description
1VCF349750S0334	Position switches of circuit-breaker operating mechanism (set of 10) for HD4 frontal version
1VCF349750S0335	Position switches of circuit-breaker operating mechanism (set of 15) with fig.9 for HD4 frontal version except Calor Emag version
1VCF349850S0159	Position switches of circuit-breaker operating mechanism (set of 15) without fig.9 for HD4 frontal versions from s.n.AC00002779, VD4/R/S/Uniair/Unimix with ESH.
1VCF349850S0161	Position switches of circuit-breaker operating mechanism (set of 5) for HD4/R-SEC only.
1VCF349850S0162	Position switches of circuit-breaker operating mechanism (set of 10) for HD4/R-SEC only.



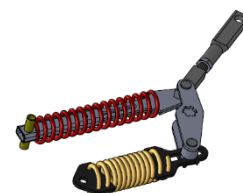
5.1.27 Position switches of circuit breaker's operating mechanism (Classification L2)

Ordering code	Description
1VCF309750S0201	Position switches BGB1-BGB2 of circuit-breaker operating mechanism (set of 14) for HD4 12-17kV 630-1250A 25kA series 5 from 2016 except Marine and Gost versions.
1VCF309750S0221	Position switches BGB1-BGB2 of circuit-breaker operating mechanism (set of 20) for HD4 12-17kV 630-1250A 25-31,5kA series 5 from 2016 except Marine and Gost versions.

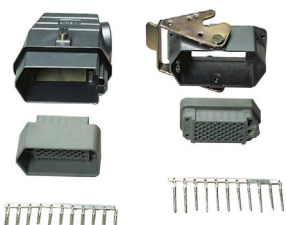


5.1.28 Kit of opening spring with transmission (Classification L3)

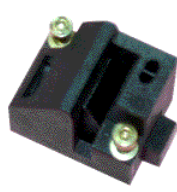
Ordering code	Description
1VCF309799S0001	Kit of opening spring with transmission, set of 1 piece for HD4/P 12-17kV 630-1250A 25kA series 5 from 2016 except Marine and Gost versions.
1VCF309799S0002	Kit of opening spring with transmission, set of 1 piece for HD4/P 12-17kV 630-1250A 31,5kA series 5 from 2016 except Marine and Gost versions.



5.1.29 Plugs, sockets and tube for HD4 (Classification L2)

Ordering code	Description	
1VCF349899S0031	Socket with 58 female pins (AMPH socket) without wiring, for HD4, VD4 side version	
1VCF379652S0101	Plug and socket with 58 female and male pins (AMPH plug and socket) without wiring, for HD4, VD4 side version	
1VCF349799S0560	Plug with 58 male pins, C.E. type without wiring, for HD4, VD4, Vmax, VM1, VSC, Vcontact front version. NOTE: Special crimping, extractor tools are needed and are not included.	
1VCF599750S0163	Socket with 58 female pins, C.E. type without wiring, for Unigear, UniSec WBS-WBC, Univer C, Unisafe, PowerCube, CBE. NOTE: Special crimping, extractor tools are needed and are not included.	
1VCF339799S0426	Insulating tube, length 3mt., for plug connector of MV circuit breaker	

5.1.30 Mechanical interlock with the door (Classification L2)

Ordering code	Description	
1VCF349750S0407	Mechanical interlock with the door for HD4/W/P/US/Sec, VContact/W/P, VD4/P/W/PW/US/Sec, VM1/P/Z/W/AP/PW, Vmax/L/W/Sec/P/PG/PN/PNG, VSC/P/PG/PN/PNG/S-PG/S-PNG	

5.1.31 Key interlock (Classification L2)

Ordering code	Description	
1VCF349750S0381	Key interlock with different key for HD4, VD4R ESH	
1VCF349750S0382	Key interlock with same key for HD4, VD4R ESH	
1VCF349750S0383	Stopper for interlock key for HD4S, VD4S ESH	

5.1.32 SF6 control device for HD4 (Classification L2)

Ordering code	Description
1VCF349799S0631	SF6 integrated circuit control with 3 leds aux. voltage 24-30Vdc for HD4 from s.n. AC00002779
1VCF349799S0632	SF6 integrated circuit control with 3 leds aux. voltage 48-60Vdc for HD4 from s.n. AC00002779
1VCF349799S0633	SF6 integrated circuit control with 3 leds aux. voltage 110-125Vdc/110-127Vac for HD4 from s.n. AC00002779
1VCF349799S0634	SF6 integrated circuit control with 3 leds aux. voltage 220Vdc for HD4 from s.n. AC00002779
1VCF349799S0635	SF6 integrated circuit control with 3 leds aux. voltage 220-240Vac for HD4 from s.n. AC00002779



5.1.33 SF6 refilling kit (Classification L2)

Ordering code	Description
1VCF359699S0001	SF6 refilling kit without cylindre of SF6 for HD4-HD4/R with pressure switch installed



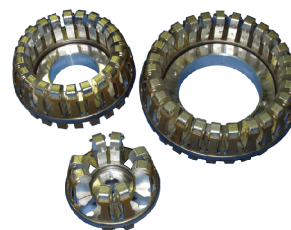
5.1.34 SF6 cylindre of 5lt (Classification L2)

Ordering code	Description
1VCF359699S0010	SF6 cylindre of 5lt



5.1.35 Tulip-type contacts for HD4 (Classification L2)

Ordering code	Description
1VCF349799S0154	Tulip-type contacts D.35, 12 fingers, set of 6 pieces for HD4/C/P/US/SEC 24kV 1250A, HD4/SG 36kV 1250-1600A, HD4/NFSG 12kV 1600A, HD4/Z 40.5kV 1250-1600A, HD4/C/Z/W/P 12-17kV 630-1250A, HD4/SG 12kV 1250A, HD4/GT 12kV 630-1250A, Vmax/SEC 12-17kV 1250A
1VCF339799S0078	Tulip-type contacts D.35, 8 fingers, set of 6 pieces for HD4/C/W 12-17-24kV 630-1250A ≤25kA, HD4/Z 12-17kV 630A ≤25kA, HD4/US 24kV 630A 25kA, HD4/P 12-17kV 630A ≤25kA, HD4/P/SEC 24kV 630-1250A 25kA, HM1_UT/W/P 24kV 630A, VD4/P/P-SA/W/Z 12-17kV 630A, VD4/P_G/W_G/GT 12kV 630A, Vmax/SEC 12-17kV 630A



5.1.36 Jaw-type contact (Classification L2)

Ordering code	Description
1VCF349899S0051	Jaw-Type contact set of n°3 for HD4/R-VD4/R EL-VD4/R ESH 630A
1VCF349899S0052	Jaw-Type contact set of n°3 for HD4/R-VD4/R EL-VD4/R ESH 800/1250A 20-25kA



5.1.37 Connection terminals (Classification L2)

Ordering code	Description
1VCF349850S0301	Connection terminals for fixed circuit breakers, set of 6 pieces for HD4/R 630A except 24kV p.230
1VCF349850S0302	Connection terminals for fixed circuit breakers, set of 6 pieces for HD4/R 1250A except 24kV p.230



5.1.38 Bushing protection for HD4 (Classification L2)

Ordering code	Description
1VCF349799S0259	Upper/lower bushing protection set of 6 pieces for HD4/US 24kV 630-1250A 25kA, HD4/SEC 24kV 630-1250A



5.1.39 Bushing with protection (Classification L2)

Ordering code	Description
1VCF349799S0309	Bushing with protection, set of 6 pieces for HD4/US 24kV 630A 25kA p.210, HD4/SEC 24kV 630A
1VCF349799S0310	Bushing with protection, set of 6 pieces for HD4/US 24kV 1250A 25kA p.210, HD4/SEC 24kV 1250A



5.1.40 Electromechanical lock for truck (Classification L3)

Ordering code	Description
1VCF349767S0902	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 24Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0903	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 30Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0904	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 48Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0905	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 60Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0909	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 110Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0912	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 125-132Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0918	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 220Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF339750S1921	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 240Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349769S0932	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 24Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0934	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 48Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0935	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 60Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0939	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 110Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0943	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 127-132Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0948	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 220Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0950	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 230-240Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV



5.1.41 Manual truck for HD4 (Classification L3)

Ordering code	Description
1VCF349700S0670	Circuit breaker manual truck for HD4/US/SEC 24kV 630-1250A 25kA p.210 without position switches and Electromechanical truck lock coil



5.1.42 TT2 test unit (Classification L1)

Ordering code	Description
1VCF379602S0231	TT2 test unit for protection relay PR511-521-512



5.1.43 Protection relay REF601 (Classification L2)

Ordering code	Description
1VCF339899S0301	REF601 (IEC version) without communication port, aux. voltage 24-240 Vac/dc for HD4/R, VD4/R EL
1VCF339899S0302	REF601(IEC) with communication port RS485 and Modbus protocol, aux. voltage 24-240 Vac/dc for HD4/R, VD4/R EL
1VCF339899S0303	REF601 (CEI 0-16 version) with terminal connection for MU and without communication port, aux. voltage 24-240 Vac/dc for HD4/R, VD4/R EL
1VCF339899S0304	REF601 (CEI 0-16 version) with terminal connection for MU and with communication port RS485 and Modbus protocol, aux. voltage 24-240 Vac/dc for HD4/R, VD4/R EL



5.1.44 Protection relay PR521 (Classification L2)

Ordering code	Description
1VCF349899S0121	Protection relay PR521/LSI for HD4 and VD4 side version
1VCF349899S0122	Protection relay PR521/LSIG for HD4 and VD4 side version



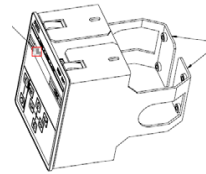
5.1.45 Protection relay PR512 (Classification L2)

Ordering code	Description
1VCF349899S0111	Protection relay PR512/P for HD4 and VD4 side version
1VCF349899S0112	Protection relay PR512/PG for HD4 and VD4 side version
1VCF349899S0113	Protection relay PR512/PD for HD4 and VD4 side version

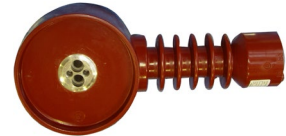


5.1.49 Support to install REF601 for HD4 (Classification L1)

Ordering code	Description
1VCF339899S0332	Support for install REF601 for HD4/R_Sec/R/S/Uniair A_2F/Uniair_R/Uniair_F, VD4/R/S/Uniair A_2F/Uniair_R/Uniair_F

**5.1.50 Current sensor for REF601 in HD4 (Classification L2)**

Ordering code	Description
1VCF349850S0599	Current sensor set of 1 piece MV type K7 630A 12-24kV for protection relay REF601 for HD4/R/R-SEC/UNIAIR
1VCF349850S0600	Current sensor set of 1 piece MV type K7 1250A 12-24kV for protection relay REF601 for HD4/R/R-SEC/UNIAIR

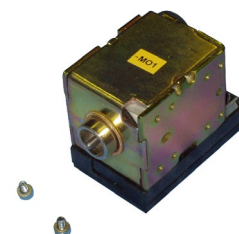


5.2 VD4 and Vmax circuit breakers for Unisec



5.2.1 Opening release (Classification L2)

Ordering code	Description
1VCF339752S2902	Opening release YO1-MO1-MBO1 aux. voltage 24 Vdc for VD4-Vmax except VD4/R ESH
1VCF339752S2903	Opening release YO1-MO1-MBO1 aux. voltage 30 Vdc for VD4-Vmax except VD4/R ESH
1VCF339752S2904	Opening release YO1-MO1-MBO1 aux. voltage 48 Vdc 50Hz for VD4-Vmax except VD4/R ESH
1VCF339752S2905	Opening release YO1-MO1-MBO1 aux. voltage 60 Vdc 50-60Hz for VD4-Vmax except VD4/R ESH
1VCF339752S2909	Opening release YO1-MO1-MBO1 aux. voltage 110-132 Vdc 110-127 V 50-60Hz for VD4-Vmax except VD4/R ESH
1VCF339752S2918	Opening release YO1-MO1-MBO1 aux. voltage 220-250 Vdc 220-250 V 50-60Hz for VD4-Vmax except VD4/R ESH



5.2.2 Opening release, smart type for VD4, Vmax, HySec with single EL (Classification L2)

Ordering code	Description
1VCF349850S0902	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 24Vdc, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0903	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 30Vdc, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0904	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 48Vdc/ac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0905	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 60Vdc/ac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0913	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 110-132Vdc, 110-127Vac, IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL
1VCF349850S0922	Opening release YO1-MO1-MBO1, smart coil, aux. voltage 220-250Vdc/ac IEC/GB for Vmax, VD4, VD4 side version, HySec, with single EL



5.2.3 Additional opening release, smart type, 3 cycles for Vmax, ADVAC, VD4 high duty with single EL (Classification L2)

Ordering code	Description
1VCF339753S4902	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 24Vdc, IEEE/3Cycles ANSI for ADVAC, Vmax, VD4 High Duty with single EL
1VCF339753S4904	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 48Vdc, IEEE/3Cycles ANSI for ADVAC, Vmax, VD4 High Duty with single EL
1VCF339753S4912	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 125Vdc, 120Vac 60Hz IEEE/3Cycles ANSI for ADVAC, Vmax, VD4 High Duty with single EL
1VCF339753S4922	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 250Vdc, 240Vac 60Hz IEEE/3Cycles ANSI for ADVAC, Vmax, VD4 High Duty with single EL



5.2.4 Additional opening release, smart type, 5 cycles for Vmax, ADVAC, VD4 high duty with single EL (Classification L2)

Ordering code	Description
1VCF339753S5902	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 24Vdc, IEEE/5Cycles ANSI for ADVAC, VD4 High Duty with single EL
1VCF339753S5904	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 48Vdc, IEEE/5Cycles ANSI for ADVAC, VD4 High Duty with single EL
1VCF339753S5912	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 125Vdc, 120Vac 60Hz IEEE/5Cycles ANSI for ADVAC, VD4 High Duty with single EL
1VCF339753S5922	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 250Vdc, 240Vac 60Hz IEEE/5Cycles ANSI for ADVAC, VD4 High Duty with single EL



5.2.5 Additional opening release, smart type for VD4, Vmax, HySec with single EL (Classification L2)

Ordering code	Description
1VCF339850S3902	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 24Vdc, IEC/GB for Vmax, VD4 except VD4/R ESH, HySec, with single EL
1VCF339850S3903	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 30Vdc, IEC/GB for Vmax, VD4 except VD4/R ESH, HySec, with single EL
1VCF339850S3904	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 48Vdc/ac, IEC/GB for Vmax, VD4 except VD4/R ESH, HySec, with single EL
1VCF339850S3905	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 60Vdc/ac, IEC/GB for Vmax, VD4, VD4 except VD4/R ESH, HySec, with single EL
1VCF339850S3913	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 110-132Vdc, 110-127Vac, IEC/GB for Vmax, VD4 except VD4/R ESH, HySec, with single EL
1VCF339850S3922	Additional opening release YO2-MO2-MBO2, smart coil, aux. voltage 220-250Vdc/ac IEC/GB for Vmax, VD4 except VD4/R ESH, HySec, with single EL



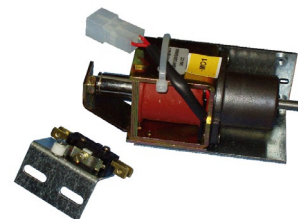
5.2.6 Additional opening release (Classification L2)

Ordering code	Description
1VCF339752S3902	Additional opening release YO2-MO2-MBO2 aux. voltage 24Vdc for VD4-Vmax except VD4/R ESH
1VCF339752S3903	Additional opening release YO2-MO2-MBO2 aux. voltage 30Vdc for VD4-Vmax except VD4/R ESH
1VCF339752S3904	Additional opening release YO2-MO2-MBO2 aux. voltage 48Vdc/ac for VD4-Vmax except VD4/R ESH
1VCF339752S3905	Additional opening release YO2-MO2-MBO2 aux. voltage 60Vdc/ac for VD4-Vmax except VD4/R ESH
1VCF339752S3909	Additional opening release YO2-MO2-MBO2 aux. voltage 110-132Vdc, 110-127Vac for VD4-Vmax except VD4/R ESH
1VCF339752S3918	Additional opening release YO2-MO2-MBO2 aux. voltage 220-250Vdc/ac for VD4-Vmax except VD4/R ESH



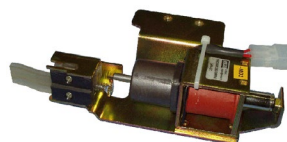
5.2.7 Instantaneous opening release (Classification L2)

Ordering code	Description
1VCF339751S2902	Instantaneous opening release YO1-MO1-MBO1 aux. voltage 24Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S2904	Instantaneous opening release YO1-MO1-MBO1 aux. voltage 48Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S2909	Instantaneous opening release YO1-MO1-MBO1 aux. voltage 110Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S2912	Instantaneous opening release YO1-MO1-MBO1 aux. voltage 125-127Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S2918	Instantaneous opening release YO1-MO1-MBO1 aux. voltage 220Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S2939	Instantaneous opening release YO1-MO1-MBO1 aux. voltage 110Vac for VD4-Vmax except VD4/R ESH
1VCF339751S2948	Instantaneous opening release YO1-MO1-MBO1 aux. voltage 220-240Vdc, 220Vac for VD4-Vmax except VD4/R ESH



5.2.8 Instantaneous additional opening release (Classification L2)

Ordering code	Description
1VCF339751S3981	Additional instantaneous opening release YO2-MO2-MBO2 aux. voltage 24Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S3904	Additional instantaneous opening release YO2-MO2-MBO2 aux. voltage 48Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S3909	Additional instantaneous opening release YO2-MO2-MBO2 aux. voltage 110Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S3912	Additional instantaneous opening release YO2-MO2-MBO2 aux. voltage 125Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S3918	Additional instantaneous opening release YO2-MO2-MBO2 aux. voltage 220Vdc for VD4-Vmax except VD4/R ESH
1VCF339751S3939	Additional instantaneous opening release YO2-MO2-MBO2 aux. voltage 110Vac for VD4-Vmax except VD4/R ESH
1VCF339751S3948	Additional instantaneous opening release YO2-MO2-MBO2 aux. voltage 220-240ac for VD4-Vmax except VD4/R ESH



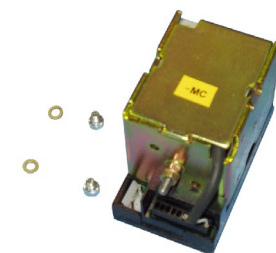
5.2.9 Opening release for protection release (Classification L2)

Ordering code	Description
1VCF339750S0211	Opening release for protection relay YO3-MO3-MBO3 for VD4 except VD4/R
1VCF339850S0620	Opening release for protection relay YO3-MO3-MBO3 for VD4/R EL
1VCF329750S0211	Opening release for protection relay YO3-MO3-MBO3 for Vmax



5.2.10 Closing release (Classification L2)

Ordering code	Description
1VCF339752S6902	Closing release YC-MC-MBC aux. voltage 24Vdc for VD4R EL-Vmax-ADVAC-VD4 except VD4/R ESH
1VCF339752S6903	Closing release YC-MC-MBC aux. voltage 30Vdc for VD4R EL-Vmax-ADVAC-VD4 except VD4/R ESH
1VCF339752S6904	Closing release YC-MC-MBC aux. voltage 48Vdc/ac for VD4R EL-Vmax-ADVAC-VD4 except VD4/R ESH
1VCF339752S6905	Closing release YC-MC-MBC aux. voltage 60Vdc/ac for VD4R EL-Vmax-ADVAC-VD4 except VD4/R ESH
1VCF339752S6909	Closing release YC-MC-MBC aux. voltage 110-132 Vdc 110-127 Vac for VD4R EL-Vmax-ADVAC-VD4 except VD4/R ESH
1VCF339752S6918	Closing release YC-MC-MBC aux. voltage 220-250Vdc/ac for VD4R EL-Vmax-ADVAC-VD4 except VD4/R ESH



5.2.11 Closing release, smart type for VD4, Vmax, ADVAC, HySec (Classification L2)

Ordering code	Description
1VCF349850S2902	Closing release YC-MC-MBC, smart coil, aux. voltage 24Vdc for VD4/P 50kA, VD4/VD4 High Duty up to 40kA, ADVAC, HySec, Vmax, VD4 side version, with single EL except VD4/R ESH
1VCF349850S2903	Closing release YC-MC-MBC, smart coil, aux. voltage 30Vdc for VD4/P 50kA, VD4/VD4 High Duty up to 40kA, HySec, Vmax, VD4 side version, with single EL except VD4/R ESH
1VCF349850S2904	Closing release YC-MC-MBC, smart coil, aux. voltage 48Vdc/ac for VD4/P 50kA, VD4/VD4 High Duty up to 40kA, ADVAC, HySec, Vmax, VD4 side version, with single EL except VD4/R ESH
1VCF349850S2905	Closing release YC-MC-MBC, smart coil, aux. voltage 60Vdc/ac for VD4/P 50kA, VD4/VD4 High Duty up to 40kA, HySec, Vmax, VD4 side version, with single EL except VD4/R ESH
1VCF349850S2913	Closing release YC-MC-MBC, smart coil, aux. voltage 110-132Vdc, 110-127Vac for ADVAC-VD4-VD4R EL-Vmax, HySec except VD4/R ESH
1VCF349850S2922	Closing release YC-MC-MBC, smart coil, aux. voltage 220-250Vdc/ac for ADVAC-VD4-VD4R EL-Vmax, HySec except VD4/R ESH



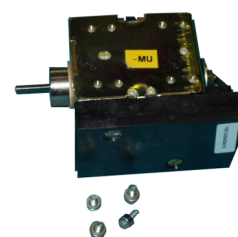
5.2.12 Undervoltage release, smart coil, for VD4-Vmax-ADVAC-HySec (Classification L2)

Ordering code	Description
1VCF349850S3902	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 24Vdc for VD4/VD4 High Duty/ADVAC up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3903	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 30Vdc for VD4/VD4 High Duty up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3904	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 48Vdc/ac for VD4/VD4 High Duty/ADVAC up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3905	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 60Vdc/ac for VD4/VD4 High Duty up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3913	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 110-132Vdc, 110-127Vac for VD4/VD4 High Duty/ADVAC up to 40kA, HySec, Vmax, VD4 side version, with single EL
1VCF349850S3922	Undervoltage release YU-MU-MBU, smart coil, aux. voltage 220-250Vdc/ac for VD4/VD4 High Duty/ADVAC up to 40kA, HySec, Vmax, VD4 side version, with single EL



5.2.13 Undervoltage release for VD4-Vmax (Classification L2)

Ordering code	Description
1VCF339752S4902	Undervoltage release YU-MU-MBU aux. voltage 24Vdc for VD4-Vmax except VD4/R ESH and VD4 Twin 50kA
1VCF339752S4903	Undervoltage release YU-MU-MBU aux. voltage 30Vdc for VD4-Vmax except VD4/R ESH and VD4 Twin 50kA
1VCF339752S4904	Undervoltage release YU-MU-MBU aux. voltage 48Vdc/ac for VD4-Vmax except VD4/R ESH and VD4 Twin 50kA
1VCF339752S4905	Undervoltage release YU-MU-MBU aux. voltage 60Vdc/ac for VD4-Vmax except VD4/R ESH and VD4 Twin 50kA
1VCF339752S4909	Undervoltage release YU-MU-MBU aux. voltage 110-132Vdc, 110-127Vac for VD4-Vmax except VD4/R ESH and VD4 Twin 50kA
1VCF339752S4918	Undervoltage release YU-MU-MBU aux. voltage 220-250Vdc/ac for VD4-Vmax except VD4/R ESH and VD4 Twin 50kA



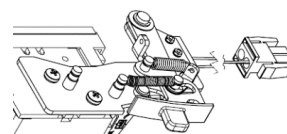
5.2.14 Auxiliary relay of undervoltage release for time delay (Classification L2)

Ordering code	Description
1VCF339750S7902	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 24-30Vdc for time delay 0,5-3s for HD4-VD4-Vmax
1VCF339750S7904	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 48Vdc/ac for time delay 0,5-3s for HD4-VD4-Vmax
1VCF339750S7905	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 60Vdc/ac for time delay 0,5-3s for HD4-VD4-Vmax
1VCF339750S7909	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 110-132Vdc/ac for time delay 0,5-3s for HD4-VD4-Vmax
1VCF339750S7918	Auxiliary relay D-KT-KFT of undervoltage release YU-MU-MBU aux. voltage 220-240Vdc/ac for time delay 0,5-3s for HD4-VD4-Vmax



5.2.15 Mechanical override for undervoltage release (Classification L3)

Ordering code	Description
1VCF339800S0653	Temporary mechanical override for undervoltage release for VD4R EL
1VCF339850S0651	Permanent mechanical override for undervoltage release for VD4, Vmax, ADVAC, VD4R-EL from s.n BA00045081, HySec



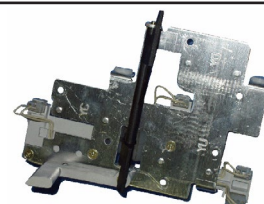
5.2.16 Electromechanical lock for operating mechanism (Classification L2)

Ordering code	Description
1VCF339752S5902	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 24Vdc for VD4-Vmax except VD4/R
1VCF339752S5903	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 30Vdc for VD4-Vmax except VD4/R
1VCF339752S5904	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 48Vdc/ac for VD4-Vmax except VD4/R
1VCF339752S5905	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 60Vdc/ac for VD4-Vmax except VD4/R
1VCF339752S5909	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 110-132Vdc, 110-127Vac for VD4-Vmax except VD4/R
1VCF339752S5918	Electromechanical lock for operating mechanism YL1-RL1-RLE1 aux. voltage 220-250Vdc/ac for VD4-Vmax except VD4/R



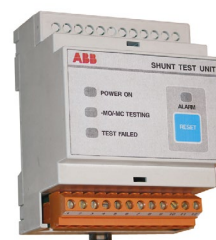
5.2.17 Support release (Classification L2)

Ordering code	Description
1VCF339799S0271	Support plate for operational release for ADVAC-VD4-Vmax



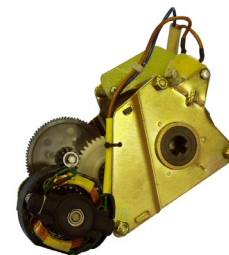
5.2.18 STU Shunt test unit (Classification L1)

Ordering code	Description
1VCF339700S0361	Shunt test unit (STU) for YO1-MO1-MBO1/YO2-MO2-MBO2/YC-MC-MBC 24-250Vdc/ac for Vmax-VD4-VD4R EL and only YC-MC-MBC for HD4-VD4R ESH



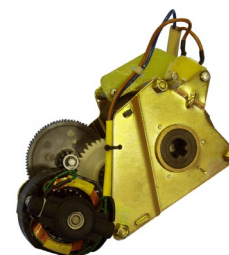
5.2.19 Motor for circuit breaker spring charging only for VD4, Vmax, ADVAC (Classification L2)

Ordering code	Description
1VCF339751S8902	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 24-30Vdc for Vmax, ADVAC-VD4 up to 40kA except VD4 40kA with EL3S and VD4/R
1VCF339751S8904	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 48-60Vdc for Vmax, ADVAC-VD4 up to 40kA except VD4 40kA with EL3S and VD4/R
1VCF339751S8909	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 110-130Vdc/ac for Vmax, ADVAC-VD4 up to 40kA except VD4 40kA with EL3S and VD4/R
1VCF339751S8918	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 220-250Vdc for Vmax, ADVAC-VD4 up to 40kA except VD4 40kA with EL3S and VD4/R
1VCF339751S8948	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 220-250Vdc for Vmax, ADVAC-VD4 up to 40kA except VD4 40kA with EL3S and VD4/R
1VCF339757S4902	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 24-30Vdc for VD4 40kA with EL3S
1VCF339757S4904	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 48-60Vdc for VD4 40kA with EL3S
1VCF339757S4909	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 110-130Vdc/ac for VD4 40kA with EL3S
1VCF339757S4948	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 220-250Vdc for VD4 40kA with EL3S
1VCF339757S4918	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 220-250Vdc for VD4 40kA with EL3S



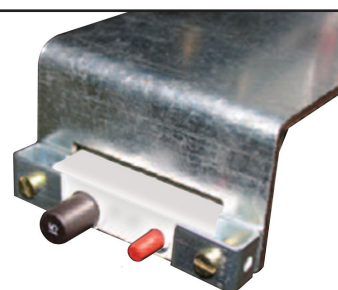
5.2.20 Motor for circuit breaker spring charging for VD4 EL (Classification L2)

Ordering code	Description
1VCF339850S0902	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 24-30Vdc for VD4/R EL
1VCF339850S0904	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 48-60Vdc for VD4/R EL
1VCF339850S0909	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 110-130Vdc/ac for VD4/R EL
1VCF339850S0918	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 220-250Vdc for VD4/R EL
1VCF339850S0948	Motor for circuit-breaker springs charging M-MS-MAS aux. voltage 220-250Vdc for VD4/R EL



5.2.21 Thermomagnetic circuit breaker for motor protection (Classification L2)

Ordering code	Description
1VCF339850S0601	Thermomagnetic motor protection Q60-FB1-FCM1 with electr. signalling ON or OFF 24-60Vdc-ac 50Hz for VD4/R EL
1VCF339850S0602	Thermomagnetic motor protection with el. Signalling ON or OFF 110-125Vdc, 110-127Vac for VD4/R EL
1VCF339850S0603	Thermomagnetic motor protection with el. Signalling ON or OFF 220Vdc 220-240Vac for VD4/R EL
1VCF339850S0611	Thermomagnetic motor protection Q60-FB1-FCM1 with electr. signalling ON or OFF 24-60Vdc-ac 50Hz for VD4/R-Sec EL
1VCF339850S0612	Thermomagnetic motor protection with el. Signalling ON or OFF 110-125Vdc, 110-127Vac for VD4/R-Sec EL
1VCF339850S0613	Thermomagnetic motor protection with el. Signalling ON or OFF 220Vdc 220-240Vac for VD4/R-Sec EL



5.2.22 Position switches of closing springs charge/discharge (Classification L2)

Ordering code	Description
1VCF339750S0395	Position switch S33M2-BS2-BGS2 for signalling charged/discharged closing springs for Vmax-VD4 with EL1-2 from s.n. BD0005217, VD4 with EL2S-3, ADVAC
1VCF339799S0421	Position switch S33M2-BS2-BGS2 for signalling charged/discharged closing springs for Vmax-VD4 with EL1-2 up to s.n. BD0005216



5.2.23 Position switches (Classification L2)

Ordering code	Description
1VCF349750S0395	Position switch S75C-BT3-BGT3 for HD4/W/P/SEC/GT_P/US, HM1/UT_W/UT_P from s.n. AC00002779, VD4/P-G/GT-P 12kV, VSC7-12/P/PG, Vmax/W/SEC, VD4/P/C/W/PW/US/SEC/Z



5.2.24 Transient contact (Classification L3)

Ordering code	Description
1VCF339750S0282	Transient contact Q0-BB4-BGB4 for ADVAC, VD4 except VD4 side version
1VCF329700S0220	Transient contact Q0-BB4-BGB4 for Vmax



5.2.25 Counter (Classification L2)

Ordering code	Description
1VCF339799S0300	Mechanical operation counter for VD4, Vmax, ADVAC except VD4/R ESH"

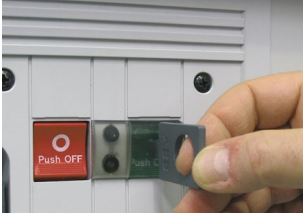


5.2.26 Pushbutton (Classification L2)

Ordering code	Description
1VCF339799S0631	Green close pushbutton "Push ON" and red open pushbutton "Push OFF" for VD4 except VD4/R ESH, Vmax, ANSI versions



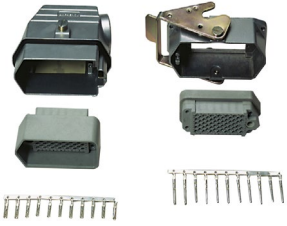
5.2.27 Pushbutton protection (Classification L1)

Ordering code	Description	
1VCF339750S0251	Pushbutton protection set of 1 piece, not prepared for padlock option for Vmax, VD4 except VD4/R ESH, VD4/ZS8-ZT8-Z8	
1VCF339750S0261	Pushbutton protection set of 1 piece, prepared for padlock option (without padlock) for Vmax, VD4 except VD4/R ESH	
1VCF339750S0265	Pushbutton protection set of 1 piece, prepared for two independent padlock included for VD4 front version except ZS8-ZT8-Z8	
1VCF339800S0665	Pushbutton protection set of 1 piece, prepared for two independent padlock (without padlock) for VD4/R EL	
1VCF339850S0661	Open pushbutton protection set of 1 piece, not prepared for padlock for VD4	
1VCF339850S0662	Close pushbutton protection set of 1 piece, not prepared for padlock option for Vmax, VD4 except VD4/R ESH	

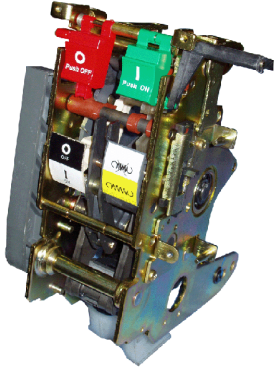
5.2.28 Manual device for closing springs charging (Classification L3)

Ordering code	Description	
1VCF681402S1242	Manual charging lever of EL operating mechanism for VD4 from s.n. AF00000851	

5.2.29 Plugs, sockets and tube for VD4 and Vmax (Classification L2)

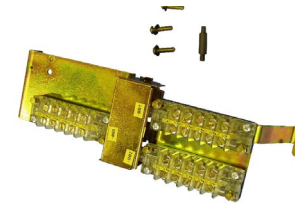
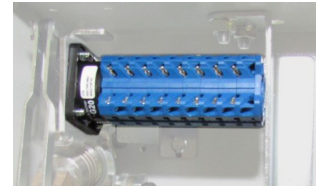
Ordering code	Description	
1VCF349899S0031	Socket with 58 female pins (AMPH socket) without wiring, for HD4, VD4 side version	
1VCF379652S0101	Plug and socket with 58 female and male pins (AMPH plug and socket) without wiring, for HD4, VD4 side version	
1VCF349799S0560	Plug with 58 male pins, C.E. type without wiring, for HD4, VD4, Vmax, VM1, VSC, Vcontact front version. NOTE: Special crimping, extractor tools are needed and are not included.	
1VCF599750S0163	Socket with 58 female pins, C.E. type without wiring, for Unigear, UniSec WBS-WBC, Univer C, Unisafe, PowerCube, CBE. NOTE: Special crimping, extractor tools are needed and are not included.	
1VCF339799S0426	Insulating tube, length 3mt., for plug connector of MV circuit breaker	

5.2.30 Operating mechanism for VD4 and Vmax (Classification L3)

Ordering code	Description	
1VCF339799S0103	Operating mechanism EL1 without transmission for ADVAC, VD4, VD4U, Vmax from s.n. AF00000851	
1VCF339799S0104	Operating mechanism EL2 without transmission for VD4/RU 630A-1250A, ADVAC, VD4, HySec, Vmax from s.n. AF00000851	
1VCF329799S0105	Operating mechanism EL2S without transmission for Vmax	

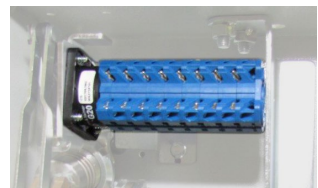
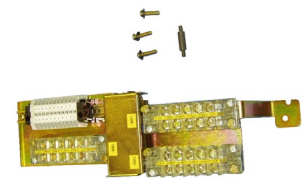
5.2.31 Position switches of circuit breaker operating mechanism for VD4 (Classification L2)

Ordering code	Description
1VCF339751S0168	Position switches of circuit-breaker operating mechanism (set of 10) except electrical drawings 1VCD400046-47-48-64-80-85 for VD4 except side versions
1VCF339751S0199	Position switches of circuit-breaker operating mechanism (set of 14) except electrical drawings 1VCD400046-47-48-64-80-85 for VD4 except side versions
1VCF339751S0170	Position switches of circuit-breaker operating mechanism (set of 16) except electrical drawings 1VCD400046-47-48-64-80-85 for VD4 except side versions
1VCF339751S0172	Position switches of circuit-breaker operating mechanism (set of 20) except electrical drawings 1VCD400046-47-48-64-80-85 for VD4 except side versions
1VCF339751S0151	Position switches of circuit-breaker operating mechanism (set of 10) for electrical drawings 1VCD400046-47-48-64 for VD4 except side versions
1VCF339751S0152	Position switches of circuit-breaker operating mechanism (set of 10+3NO+2NC) for electrical drawings 1VCD400046-47-48-64-80-85 for VD4 except side versions
1VCF339751S0153	Position switches of circuit-breaker operating mechanism (set of 10+5NO) for electrical drawings 1VCD400046 for VD4
1VCF339751S0154	Position switches of circuit-breaker operating mechanism (set of 10+2NO+3NC) for electrical drawings 1VCD400046 for VD4
1VCF339751S0155	Position switches of circuit-breaker operating mechanism (set of 10+5NC) for electrical drawings 1VCD400046 for VD4



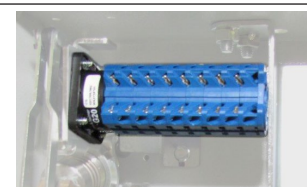
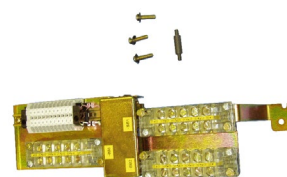
5.2.32 Position switches of circuit breaker operating mechanism only for VD4/R/UniAir/S/Unimix/L EL (Classification L2)

Ordering code	Description
1VCF339850S0551	Position switches of circuit-breaker operating mechanism set of 5 except electrical drawings 1VCD400173-174-175-176-177-178 for VD4/R/UniAir/S/Unimix/L EL
1VCF339850S0552	Position switches of circuit-breaker operating mechanism set of 10 except electrical drawings 1VCD400173-174-175-176-177-178 for VD4/R/UniAir/S/Unimix/L EL
1VCF339850S0553	Position switches of circuit-breaker operating mechanism set of 15 except electrical drawings 1VCD400173-174-175-176-177-178 for VD4/R/UniAir/S/Unimix/L EL
1VCF339850S0554	Position switches of circuit-breaker operating mechanism set of 14 for electrical drawings 1VCD400173-174-175-176-177-178 for VD4/R/UniAir/S/Unimix/L EL
1VCF339850S0555	Position switches of circuit-breaker operating mechanism set of 16 for electrical drawings 1VCD400173-174-175-176-177-178 for VD4/R/UniAir/S/Unimix/L EL
1VCF349850S0170	Position switches of circuit-breaker operating mechanism set of 6 for electrical drawings 1VCD400173-174-175-176-177-178 for VD4/R/UniAir/S/Unimix/L EL
1VCF349850S0171	Position switches of circuit-breaker operating mechanism set of 10 for electrical drawings 1VCD400173-174-175-176-177-178 for VD4/R/UniAir/S/Unimix/L EL



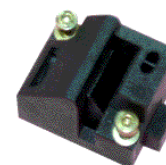
5.2.33 Position switches of circuit breaker operating mechanism for Vmax (Classification L2)

Ordering code	Description
1VCF329750S0151	Position switches of circuit-breaker operating mechanism set of 10 fig. 31 or 33 for electrical drawings 1VCD400054-103-065 for Vmax
1VCF329750S0152	Position switches of circuit-breaker operating mechanism set of 10+3NO+2NC figs. 31-32 for electrical drawings 1VCD400054-103-065 for Vmax fixed version
1VCF329750S0153	Position switches of circuit-breaker operating mechanism set of 10+5NO figs. 31-33 for electrical drawings 1VCD400054-103-065 for Vmax fixed version
1VCF329750S0154	Position switches of circuit-breaker operating mechanism set of 10+2NO+3NC figs. 31-34 and/or 32 for electrical drawings 1VCD400054-103-065 for Vmax
1VCF329750S0155	Position switches of circuit-breaker operating mechanism set of 10+5NC figs. 31-35 for electrical drawings 1VCD400054-103-065 for Vmax fixed version
1VCF329750S0420	Position switches of circuit-breaker operating mechanism set of 10 figs. 31 or 33 or 91 except electrical drawings 1VCD400054-103-065 for Vmax
1VCF329750S0421	Position switches of circuit-breaker operating mechanism set of 16 figs. 31-32 or 91-92 or 34 except electrical drawings 1VCD400054-103-065 for Vmax
1VCF329750S0422	Position switches of circuit-breaker operating mechanism set of 8 fig. 31 except electrical drawings 1VCD400054-103-065 for Vmax



5.2.34 Mechanical interlock with the door (Classification L2)

Ordering code	Description
1VCF349750S0407	Mechanical interlock with the door for HD4/W/P/US/Sec, VContact/W/P, VD4/P/W/PW/US/Sec, VM1/P/Z/W/AP/PW, Vmax/L/W/Sec/P/PG/PN/PNG, VSC/P/PG/PN/PNG/S-PG/S-PNG



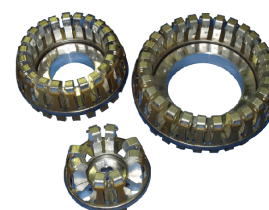
5.2.35 Key interlock (Classification L2)

Ordering code	Description
1VCF339750S0271	Key interlock with different key in open position for VD4-Vmax except VD4 side version
1VCF339750S0272	Key interlock with identical key in open position for VD4-Vmax except VD4 side version
1VCF339850S0531	Key interlock with different key for VD4R-EL
1VCF339850S0532	Key interlock with identical key for VD4R-EL
1VCF339800S0533	Stopper for interlock key for VD4/S



5.2.36 Tulip-type contacts for VD4, Vmax (Classification L2)

Ordering code	Description
1VCF339799S0072	Tulip-type contacts D.35, 10 fingers, set of 6 pieces for VD4/ZH/PW/PW_SA 12-17kV 630-1250A, VD4/W-G 12kV 630-1250A, VD4/SEC/P/P_SA/Z 24kV 1250A, VM1/ZH 12-17kV 630-1250A, VM1/P/Z 12-17-24kV 1250A, VM1/W/Z 12-17kV 1250A, eVM1/P 12-17kV 630-1250A, VM1/A/P/PW 15kV 630-1250A
1VCF339799S0075	Tulip-type contacts D.35, 8 fingers, set of 6 pieces for VD4/ZH 12-17kV 630-1250A, VD4/Z8/ZS8/ZT8/P/P_G/P_SA 12kV 630A, VD4/P/P_SA 17-24kV 630A, VD4/Z/US/SEC, VM1/P/Z 24kV 630A
1VCF349799S0154	Tulip-type contacts D.35, 12 fingers, set of 6 pieces for HD4/C/P/US/SEC 24kV 1250A, HD4/SG 36kV 1250-1600A, HD4/NFSG 12kV 1600A, HD4/Z 40.5kV 1250-1600A, HD4/C/Z/W/P 12-17kV 630-1250A, HD4/SG 12kV 1250A, HD4/GT 12kV 630-1250A, Vmax/SEC 12-17kV 1250A
1VCF339799S0078	Tulip-type contacts D.35, 8 fingers, set of 6 pieces for HD4/C/W 12-17-24kV 630-1250A ≤25kA, HD4/Z 12-17kV 630A ≤25kA, HD4/US 24kV 630A 25kA, HD4/P 12-17kV 630A ≤25kA, HD4/P/SEC 24kV 630-1250A 25kA, HM1_UT/W/P 24kV 630A, VD4/P/P_SA/W/Z 12-17kV 630A, VD4/P_G/W_G/GT 12kV 630A, Vmax/SEC 12-17kV 630A



5.2.37 Jaw-type contact (Classification L2)

Ordering code	Description
1VCF349899S0051	Jaw-Type contact set of 3 pieces for HD4/R-VD4/R EL-VD4/R ESH 630A
1VCF349899S0052	Jaw-Type contact set of 3 pieces for HD4/R-VD4/R EL-VD4/R ESH 800/1250A 20-25kA

**5.2.38 Bushing protections for VD4 and Vmax (Classification L2)**

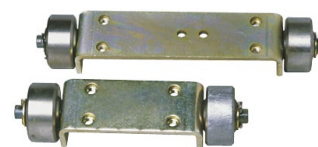
Ordering code	Description
1VCF339799S0208	Upper/lower bushing protection set of 6 pieces for VD4/US/SEC 24kV 630A
1VCF329799S0300	Upper/lower bushing protection set of 6 pieces for Vmax/SEC/W 12kV
1VCF329799S0301	Upper/lower bushing protection set of 6 pieces for Vmax/SEC/W 17kV

**5.2.39 Bushing with protection for VD4 and Vmax (Classification L2)**

Ordering code	Description
1VCF339799S0062	Bushing with protection, set of 6 pieces for VD4/US/SEC 24kV 630A
1VCF339799S0063	Bushing with protection, set of 6 pieces for VD4/US/SEC 24kV 1250A
1VCF329799S0050	Bushing with protection, set of 6 pieces for Vmax/L 12-17kV 630A
1VCF329799S0051	Bushing with protection, set of 6 pieces for Vmax/L 12-17kV 1250A
1VCF329799S0052	Bushing with protection, set of 6 pieces for Vmax/W/SEC 12kV 630A
1VCF329799S0054	Bushing with protection, set of 6 pieces for Vmax/W/SEC 12kV 1250A
1VCF329799S0056	Bushing with protection, set of 6 pieces for Vmax/W/SEC 17kV 630A
1VCF329799S0053	Bushing with protection, set of 6 pieces for Vmax/W/SEC 17kV 1250A

**5.2.40 Set of wheels for VD4 (Classification L1)**

Ordering code	Description
1VCF339850S0730	Set of wheels for VD4/S/UNIAIR/UNIAIR_2R/UNIAIR_A/UNIMIX_R/R_SEC/L_SEC

**5.2.41 Lifting tools for VD4-VM1 (Classification L1)**

Ordering code	Description
1VCF339650S0144	Lifting tools for VM1-VD4 p.150, 210
1VCF339650S0145	Lifting tools for VM1-VD4 p.275



5.2.42 Manual truck for VD4 and Vmax (Classification L3)

Ordering code	Description
1VCF339700S0423	Manual truck of circuit breaker for VD4/SR 12kV 1600A, VD4/Z/ZH 12-17kV, VD4/US/SEC 24kV 630-1250A, p.210 without position switches and Electromechanical truck lock coil
1VCF329799S0325	Manual truck of circuit breaker for Vmax/W/SEC 12-17kV 630-1250A p.150 without position switches and electromechanical truck lock coil



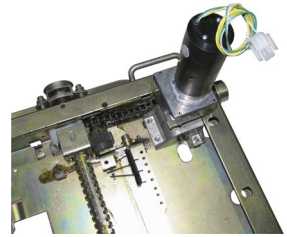
5.2.43 Electromechanical lock for truck (Classification L3)

Ordering code	Description
1VCF349767S0902	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 24Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0903	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 30Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0904	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 48Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0905	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 60Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0909	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 110Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0912	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 125-132Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0918	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 220Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF339750S1921	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 240Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0932	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 24Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0934	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 48Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0935	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 60Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0939	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 110Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0943	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 127-132Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0948	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 220Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0950	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 230-240Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV



5.2.44 Motor for truck of circuit breaker (Classification L2)

Ordering code	Description
1VCF339751S0902	Motor for electrical operation of truck MT-MAT aux. voltage 24Vdc for VD4-VM1-VSC
1VCF339751S0903	Motor for electrical operation of truck MT-MAT aux. voltage 30Vdc for VD4-VM1-VSC
1VCF339751S0904	Motor for electrical operation of truck MT-MAT aux. voltage 48Vdc for VD4-VM1-VSC
1VCF339751S0905	Motor for electrical operation of truck MT-MAT aux. voltage 60Vdc for VD4-VM1-VSC
1VCF339751S0909	Motor for electrical operation of truck MT-MAT aux. voltage 110Vdc for VD4-VM1-VSC
1VCF339751S0912	Motor for electrical operation of truck MT-MAT aux. voltage 125Vdc for VD4-VM1-VSC
1VCF339751S0918	Motor for electrical operation of truck MT-MAT aux. voltage 220Vdc for VD4-VM1-VSC



5.2.45 Position switch in the truck (Classification L3)

Ordering code	Description
1VCF339750S0303	Position switch S75I-S75S-BT1-BT2-BGT1-BGT2 for circuit breaker with manual truck for VD4/P/C/W/PW/US/Z/SEC/ZH/EM-UL/ZS8/ZT8/Z8, eVM1/P, VM1/P/W/Z, Vmax/W/L/SEC all rates and VD4/GT-P/P-G/GT-W 12kV from s.n. AH00008911



5.2.46 TT2 test unit (Classification L1)

Ordering code	Description
1VCF379602S0231	TT2 test unit for protection relay PR511-521-512



5.2.47 Protection relay REF601 (Classification L2)

Ordering code	Description
1VCF339899S0301	REF601 (IEC version) without communication port, aux. voltage 24-240 Vac/dc for HD4/R, VD4/R EL
1VCF339899S0302	REF601 (IEC) with communication port RS485 and Modbus protocol, aux. voltage 24-240 Vac/dc for HD4/R, VD4/R EL
1VCF339899S0303	REF601 (CEI 0-16 version) with terminal connection for MU and without communication port, aux. voltage 24-240 Vac/dc for HD4/R, VD4/R EL
1VCF339899S0304	REF601 (CEI 0-16 version) with terminal connection for MU and with communication port RS485 and Modbus protocol, aux. voltage 24-240 Vac/dc for HD4/R, VD4/R EL



5.2.48 Protection relay PR521 (Classification L2)

Ordering code	Description
1VCF349899S0121	Protection relay PR521/LSI for HD4 and VD4 side version

1VCF349899S0122	Protection relay PR521/LSIG for HD4 and VD4 side version
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5.2.49 Protection relay PR512 (Classification L2)

Ordering code	Description
1VCF349899S0111	Protection relay PR512/P for HD4 and VD4 side version

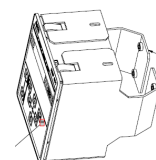
1VCF349899S0112	Protection relay PR512/PG for HD4 and VD4 side version
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1VCF349899S0113	Protection relay PR512/PD for HD4 and VD4 side version
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5.2.50 Support to install REF601 for VD4 (Classification L1)

Ordering code	Description
1VCF339899S0331	Support for install REF601 for VD4/R_Sec/L_Sec



5.2.51 Current sensor for REF601 in VD4 (Classification L2)

Ordering code	Description
1VCF339851S0041	Current sensor set of 1 piece MV type K7 630A 12-24kV for protection relay REF601 for VD4/R/L/L-SEC/R-SEC/S/UNIMIX/UNIAIR with EL mechanism

1VCF339851S0042	Current sensor set of 1 piece MV type K7 1250A 12-24kV for protection relay REF601 for VD4/R/L/L-SEC/R-SEC/S/UNIMIX/UNIAIR with EL mechanism
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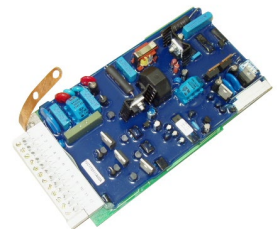


5.3 VSC contactor



5.3.1 Power card MAC ED1.0 (Classification L2)

Ordering code	Description
1VCF309599S0011	Control module/feeder MAC ED1.0 SCO aux. voltage 220-250 V for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0012	Control module/feeder MAC ED1.0 SCO aux. voltage 110-130V for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0013	Control module/feeder MAC ED1.0 SCO aux. voltage 24-60Vdc for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0014	Control module/feeder MAC ED1.0 DCO aux. voltage 220-250V for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0015	Control module feeder MAC ED1.0 DCO aux. voltage 110-130V for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0016	Control module/feeder MAC ED1.0 DCO aux. voltage 24-60Vdc for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0017	Control module/feeder MAC ED1.0 DCO+UV (undervoltage function) aux. voltage 220-250V for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0018	Control module/feeder MAC ED1.0 DCO+UV (undervoltage function) aux. voltage 110-130V for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0020	Control module/feeder MAC ED1.0 DCO+UV aux. voltage 24-30Vdc for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0021	Control module/feeder MAC ED1.0 DCO+UV aux. voltage 48-60Vdc for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0022	Control module/feeder MAC ED1.0 SCO aux. voltage 88-124V for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version
1VCF309599S0023	Control module/feeder MAC ED1.0 DCO aux. voltage 88-124V for VSC up to s.n. BD00027548, VSC-SRC, VSC/Marine version



5.3.2 Power card MAC R2 (Classification L2)

Ordering code	Description
1VCF309599S0131	Control module/feeder MAC R2 24-60Vdc (LV) SCO, basic IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0132	Control module/feeder MAC R2 24-60Vdc (LV) DCO, basic IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0133	Control module/feeder MAC R2 24-60Vdc (LV) DCO + Undervoltage, basic IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0134	Control module/feeder MAC R2 24-60Vdc (LV) SCO, full option IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0135	Control module/feeder MAC R2 24-60Vdc (LV) DCO, full option IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0136	Control module/feeder MAC R2 24-60Vdc (LV) DCO + Undervoltage,full option IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0141	Control module/feeder MAC R2 110-250Vdc/ac (HV) SCO, basic IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0142	Control module/feeder MAC R2 110-250Vdc/ac (HV) DCO, basic IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0143	Control module/feeder MAC R2 110-250Vdc/ac (HV) DCO + Undervoltage, basic IEC for VSC from s.n.BD00027549 except Marine version and VSC-SRC
1VCF309599S0144	Control module/feeder MAC R2 110-250Vdc/ac (HV) SCO, full option IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0145	Control module/feeder MAC R2 110-250Vdc/ac (HV) DCO, full option IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S0146	Control module/feeder MAC R2 110-250Vdc/ac (HV) DCO + Undervoltage, full option IEC for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1131	Control module/feeder MAC R2 24-60Vdc (LV) SCO, basic GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1132	Control module/feeder MAC R2 24-60Vdc (LV) DCO, basic GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1133	Control module/feeder MAC R2 24-60Vdc (LV) DCO + Undervoltage, basic GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1134	Control module/feeder MAC R2 24-60Vdc (LV) SCO, full option GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1135	Control module/feeder MAC R2 24-60Vdc (LV) DCO, full option GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1136	Control module/feeder MAC R2 24-60Vdc (LV) DCO + Undervoltage,full option GB-T for VSC from s.n.BD00027549 except Marine version and VSC-SRC
1VCF309599S1141	Control module/feeder MAC R2 110-250Vdc/ac (HV) SCO, basic GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1142	Control module/feeder MAC R2 110-250Vdc/ac (HV) DCO, basic GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1143	Control module/feeder MAC R2 110-250Vdc/ac (HV) DCO + Undervoltage,basic GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1144	Control module/feeder MAC R2 110-250Vdc/ac (HV) SCO, full option GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1145	Control module/feeder MAC R2 110-250Vdc/ac (HV) DCO, full option GB-T for VSC from s.n.BD00027549 except Marine versions and VSC-SRC
1VCF309599S1146	Control module/feeder MAC R2 110-250Vdc/ac (HV) DCO + Undervoltage,full option GB-T for VSC from s.n.BD00027549 except Marine version and VSC-SRC



5.3.3 Capacitor (Classification L2)

Ordering code	Description
1VCF309599S0051	Capacitor for VSC



5.3.4 Position switches for vacuum contactor VSC (Classification L2)

Ordering code	Description
1VCF309599S0031	Position switches of contactor set of 10 for VSC



5.3.5 Electromechanical lock for truck (Classification L3)

Ordering code	Description
1VCF349767S0902	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 24Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0903	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 30Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0904	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 48Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0905	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 60Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0909	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 110Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0912	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 125-132Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0918	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 220Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF339750S1921	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 240Vdc for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0932	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 24Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0934	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 48Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0935	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 60Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0939	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 110Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0943	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 127-132Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0948	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 220Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV
1VCF349767S0950	Electromechanical locking release for truck YL2-RL2-RLE2 aux. voltage 230-240Vac for VD4/P/W/PW/C/Z/SR/SEC, Vmax/W/SEC, VSC/P/PG/S_PG, VSC-SRC, VM1, HD4/W/SEC/P_HXA/P_US up to 36kV



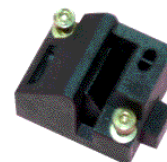
5.3.6 Position switch in the truck (Classification L3)

Ordering code	Description
1VCF309550S0302	Position switch S75I-S75S-BT1-BT2-BGT1-BGT2 standard version, in the truck for VSC-SRC, VSC/P/PG/S-PG



5.3.7 Mechanical interlock with the door (Classification L2)

Ordering code	Description
1VCF349750S0407	Mechanical interlock with the door for HD4/W/P/US/Sec, VContact/W/P, VD4/P/W/PW/US/Sec, VM1/P/Z/W/AP/PW, Vmax/L/W/Sec/P/PG/PN/PNG, VSC/P/PG/PN/PNG/S-PG/S-PNG



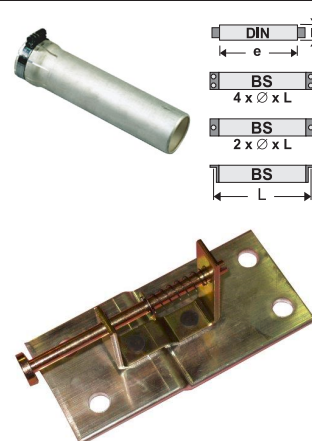
5.3.8 Fuseholders for VSC (Classification L2)

Ordering code	Description
1VCF309599S0071	Three pole fuseholder for fuses DIN type for contactor VSC/P/PG 7-12kV, VSC/S-PG 12kV
1VCF309599S0072	Three pole fuseholder for fuses BS type for contactor VSC/P/PG 7-12kV, VSC/S-PG 12kV



5.3.9 Adapter for application of fuses (Classification L2)

Ordering code	Description
1VCF309402S0001	Adapter for application of fuses, set of n°3, according to DIN Standards with distance e=192mm for VSC, VSC-SRC, Vcontact
1VCF309402S0002	Adapter for application of fuses, set of n°3, according to DIN Standards with distance e=292mm for VSC, VSC-SRC, Vcontact
1VCF309402S0003	Adapter for application of fuses according BS Standards single bodys <250 A (2 x 8 x L= 235 mm) for VSC, Vcontact
1VCF309402S0004	Adapter for application of fuses according BS Standards single bodys <250 A (4 x 10 x L= 305 mm) for VSC, Vcontact
1VCF309402S0005	Adapter for application of fuses according BS Standards single bodys <250 A (4 x 10 x L= 454 mm) for VSC, Vcontact
1VCF309402S0006	Adapter for application of fuses according BS Standards single bodys <250 A (4 x 10 x L= 410 mm) for VSC, Vcontact



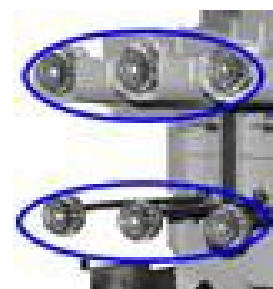
5.3.10 Plugs, sockets and tube for VSC (Classification L2)

Ordering code	Description
1VCF349799S0560	Plug with 58 male pins, C.E. type without wiring, for HD4, VD4, Vmax, VM1, VSC, Vcontact front version. NOTE: Special crimping, extractor tools are needed and are not included.
1VCF599750S0163	Socket with 58 female pins, C.E. type without wiring, for Unigear, UniSec WBS-WBC, Univer C, Unisafe, PowerCube, CBE. NOTE: Special crimping, extractor tools are needed and are not included.
1VCF339799S0426	Insulating tube, length 3mt., for plug connector of MV circuit breaker



5.3.11 Tulip type contacts (Classification L2)

Ordering code	Description
1VCF309599S0081	Tulip-type contacts, D.35-16 fingers, set of 6 pieces for fuses DIN type, for VSC/P 7-12kV
1VCF309599S0082	Tulip-type contacts, D.35-16 fingers, set of 6 pieces for fuses BS type, for VSC/P 7-12kV



5.3.12 Manual truck for VSC (Classification L3)

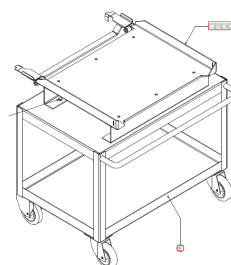
Ordering code	Description
1VCF309503S0070	Manual truck of circuit breaker for VSC 7-12/P 400A without position switches and Electromechanical truck lock coil



5.4 Trolleys

5.4.1 Circuit breaker and contactor trolleys (Classification L1)

Ordering code	Description
1VCF859800S0040	Circuit breaker and contactor extraction truck for Unisec WBC-WBS 24kV L750mm
1VCF859800S0041	Circuit breaker and contactor truck for Unisec WBC-WBS 12-17,5kV L600mm
1VCF859800S0042	Circuit breaker and contactor extraction truck for Unisec WBC-WBS 12-17,5kV L600mm
1VCF859800S0043	Circuit breaker extraction truck for Unisec SBR



6. Cable compartment



6.1.1 Current transformers (Classification L2)

Ordering code	Description
Made to order	Current transformer



6.1.2 Voltage transformers (Classification L2)

Ordering code	Description
Made to order	Voltage transformer



6.1.3 Fuses (Classification L1)

Ordering code	Description
Made to order	Fuses



6.1.4 Dumping resistance (Classification L1)

Ordering code	Description
1VCF859800S0115	Dumping resistance RAA 17 ohm for UniSec
1VCF859800S0114	Dumping resistance RAA 18 ohm for UniSec
1VCF859800S0014	Dumping resistance RAA 22 ohm for UniSec
1VCF859800S0113	Dumping resistance RAA 27 ohm for UniSec
1VCF859800S0112	Dumping resistance RAA 60 ohm for UniSec
1VCF859800S0111	Dumping resistance RAA 70 ohm for UniSec
1VCF859800S0110	Dumping resistance RAA 100 ohm for UniSec



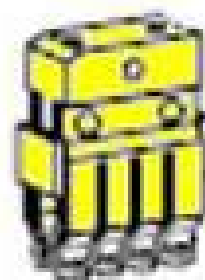
6.1.5 Anti-condensation heater for UniSec (Classification L1)

Ordering code	Description
1VCF859800S0013	Anti-condensation heater for UniSec



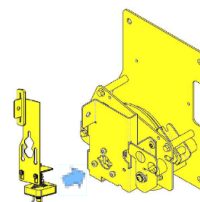
6.1.6 Earthing switch contacts for Unisec (Classification L2)

Ordering code	Description
1VCF559499S0005	Jaw-Type contact set of 3 for earthing disconnecter ES/230/230-N, ESR 230-L for UniSec

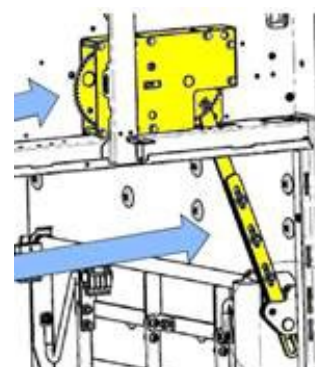


6.1.7 Operating mechanism of earthing disconnecter for Unisec DRC-SBS-SBC (Classification L3)

Ordering code	Description
1VCF859800S0017	Operating mechanism with door lock of earthing disconnecter for UniSec DRC



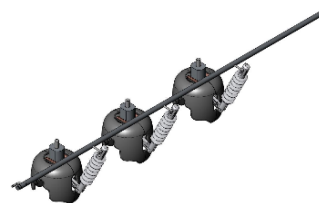
1VCF559416S0252	Operating mechanism of earthing disconnecter for UniSec SBS
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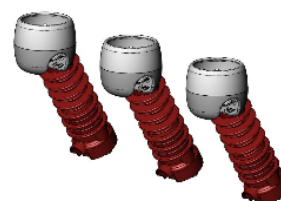
1VCF559416S0253	Operating mechanism of earthing disconnecter for UniSec SBC
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6.1.8 Upper MV fuses support with tripping system for UniSec SFC (Classification L3)

Ordering code	Description
1VCF859800S0006	Upper MV fuses support with tripping system, without fuses, for UniSec SFC for 17,5-24kV

**6.1.9 Lower MV fuses support for UniSec SFC-SFS-SFV (Classification L3)**

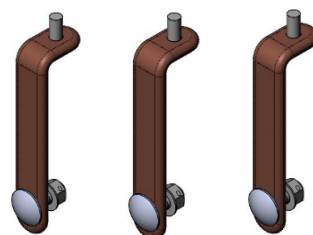
Ordering code	Description
1VCF559416S0257	Lower MV fuses support with 3 insulator without fuses, for UniSec SFC-SFS



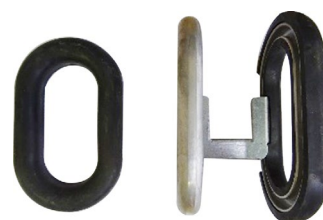
1VCF559416S0269	Lower MV fuses support with 3 insulator without fuses, for UniSec SFV
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6.1.10 Terminal connectors for MV cable for UniSec (Classification L2)

Ordering code	Description
1VCF594000S1019	Terminal connections for MV cable in set of 3 pieces for DY803/2, DY803/9

**6.1.11 Field diffuser (Classification L2)**

Ordering code	Description
1VCF559416S0357	Field diffuser with cover, set of 1, for UniSec side version 24kV

**6.1.12 Insulator (Classification L2)**

Ordering code	Description
1VCF859800S0212	Insulators without capacitive dividers, set of n°3, height 225mm for UniSec side versión

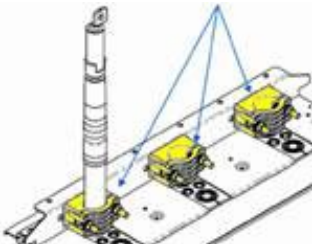


1VCF859800S0213	Insulators with capacitive dividers, set of n°3, height 225mm for UniSec side versión
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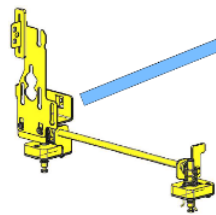
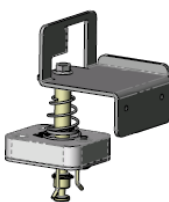
6.1.13 Brackets for MV cable for UniSec (Classification L1)

Ordering code	Description
1VCF859800S0224	Brackets for single MV cable in set of 3 pieces for UniSec except UniSec/DY803



6.1.14 Mechanical door interlock (Classification L2)

Ordering code	Description
1VCF859800S0123	Mechanical door interlock for UniSec except SBC-SBS-HBC-DRC

| 1VCF859800S0016 | Mechanical door interlock for UniSec-SBC-SBS |
| 1VCF859800S0122 | Mechanical door interlock for UniSec-HBC |
| 1VCF859800S0015 | Mechanical door interlock for UniSec-DRC |


6.1.15 Current transformer (CT) homopolar type (Classification L2)

Ordering code	Description
1VCF379602S0301	CT homopolar ring type 50/1 with closed magnet core for HD4, VD4 side version
1VCF379602S0302	CT homopolar ring type 50/1 with openable magnet core for HD4, VD4 side version
1VCF339800S0431	CT homopolar ring-type 20/1A set of 1 piece for PR521/DK for HD4, VD4 side version
1VCF339800S0432	CT homopolar 40/1A set of 1 piece with closed magnet core for REF601/CEI 0-16 for HD4, VD4 side version



6.1.16 Current sensor KECA (Classification L2)

Ordering code	Description
1VCF339899S0321	Current sensor KECA 250-B1 LV type with wiring twin RJ45 lenght 5mt for HD4/R, VD4/R EL



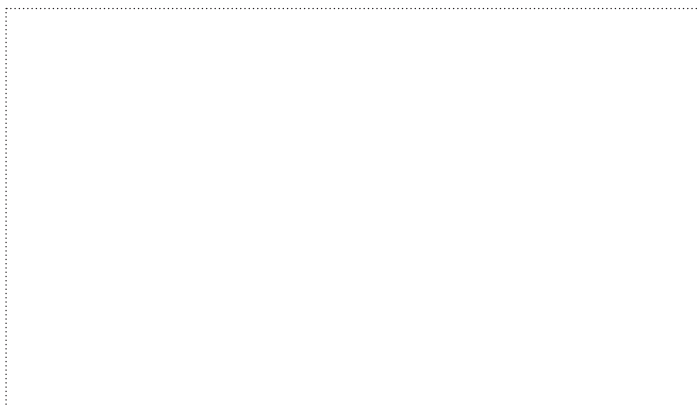
6.1.17 Current transformer LV type (Classification L2)

Ordering code	Description
1VCF349899S0091	Current transformer set of 1 piece LV type 40/1A for PR512 for HD4, VD4 side version
1VCF349899S0092	Current transformer set of 1 piece LV type 40/1A for PR521 for HD4, VD4 side version
1VCF349899S0093	Current transformer set of 1 piece LV type 80/1A for PR512 for HD4, VD4 side version
1VCF349899S0094	Current transformer set of 1 piece LV type 80/1A for PR521 for HD4, VD4 side version
1VCF349899S0095	Current transformer set of 1 piece LV type 250/1A for PR512-521 for HD4, VD4 side version
1VCF349899S0096	Current transformer set of 1 piece LV type 1250/1A for PR512-521 for HD4, VD4 side version
1VCF349899S0097	Current transformer set of 1 piece LV type for PR521/DK for HD4, VD4 side version





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