

Medium Voltage Equipment 2015 Life Cycle Management

Product status

Status	Name	Product	Type	Current status start date	Next shift	Note
Active ● Equipment: available ● Spare parts: available	PowerCube	Cassette	AIS	-	-	
	HD4	Circuit-breaker	SF ₆	-	-	1
	eVD4	Circuit-breaker	Vacuum	-	01/01/2016	
	VD4	Circuit-breaker	Vacuum	-	-	2
	VM1	Circuit-breaker	Vacuum	-	-	
	VMAX	Circuit-breaker	Vacuum	-	-	
	REF542plus release 3.0	Relay	Digital	-	-	3
	V-Contact VSC	Contact	Vacuum	-	-	
	GSec	Switch	SF ₆	-	-	
	PR521	Relay	Digital	-	01/07/2016	
	UniMix Enel DY803 version	Switchgear	AIS	-	01/01/2016	
	UniGear ZS1	Switchgear	AIS	-	-	
	UniSec	Switchgear	AIS	-	-	
Classic ● Equipment: available ● Spare parts: available	HD4/C	Circuit-breaker	SF ₆	01/09/2011	-	
	VD4/C	Circuit-breaker	Vacuum	01/09/2011	-	
	VMAX/RU	Circuit-breaker	Vacuum	01/01/2015	01/01/2016	
	V-Contact V	Contact	Vacuum	01/09/2011	-	
	SHS2	Switch	SF ₆	01/07/2014	-	
	REF542plus release 2.5	Relay	Digital	01/11/2012	-	4
	REF542plus release 2.0	Relay	Digital	01/11/2012	01/07/2015	4
	UniMix	Switchgear	AIS	01/09/2012	-	
UniSwitch 24	Switchgear	AIS	01/09/2012	-		
Limited ● Equipment: not ensured ● Spare parts: available	HA/BEU	Circuit-breaker	SF ₆	-	01/07/2015	
	UniMotor enclosure	Cassette	AIS	01/09/2011	-	5
	CBE	Cassette	AIS	01/02/2010	-	
	CBF	Cassette	AIS	-	-	
	UniAir	Switchgear	AIS	01/01/2014	-	
	UniArc	Switchgear	AIS	-	01/07/2015	
	UniMotor	Switchgear	AIS	-	-	5
	UniSafe	Switchgear	AIS	01/01/2006	-	
	Univer C	Switchgear	AIS	-	-	
	Univer G	Switchgear	AIS	-	01/07/2015	
	ZS1 *	Switchgear	AIS	-	01/07/2015	
	HX BEU21	Circuit-breaker	SF ₆	-	-	
BEU21	Switchgear	GIS	-	-		
BEU3	Switchgear	GIS	-	01/07/2015		
Obsolete ● Equipment: not available ● Spare parts: not ensured	DIARC	Circuit-breaker	Magnetic-air	-	-	6
	RG	Circuit-breaker	Minimum oil	-	-	
	RGE	Circuit-breaker	Minimum oil	-	-	
	RM	Circuit-breaker	Minimum oil	-	-	
	HM1	Circuit-breaker	SF ₆	01/01/2013	-	
	HA1-2-3	Circuit-breaker	SF ₆	31/03/1999	-	
	HAD	Circuit-breaker	SF ₆	-	-	
	HAR	Circuit-breaker	SF ₆	-	-	
	H-Breaking	Circuit-breaker	SF ₆	-	-	
	SFA	Circuit-breaker	SF ₆	-	-	
	SFE	Circuit-breaker	SF ₆	-	-	
	eVM1	Circuit-breaker	Vacuum	01/01/2013	-	
	VRB	Circuit-breaker	Vacuum	-	-	
	SRC	Contact	SF ₆	01/04/2012	-	
	VRC	Contact	Vacuum	31/03/1999	-	
	PR512	Relay	Digital	01/01/2013	-	
	PR511	Relay	Digital	-	-	
	REF542plus 1.x	Relay	Digital	-	-	
	REF542	Relay	Digital	01/01/2010	-	
	S5	Relay	Digital	-	-	
	SCU	Relay	Digital	01/01/2010	-	
	Normal AT	Switchgear	AIS	-	-	
	UniSwitch 36	Switchgear	AIS	-	-	
	BEU2	Switchgear	GIS	-	-	
CSF1	Switchgear	RMU	-	-		
CSF2	Switchgear	RMU	-	-		
CSFU	Switchgear	RMU	-	-		

Notes:

- 1 - All variants with exception of HD4/C which is Classic, HD4/UniMix that will shift in Classic from 01/01/2016
- 2 - All variants with exception of VD4/C which is Classic, VD4/UniMix that will shift in Classic from 01/01/2016
- 3 - DNV Type approval in force
- 4 - DNV Type approval expired in 2009
- 5 - Replacement of enclosure manufactured after 1985 is available
- 6 - Circuit-breakers manufactured before 1984 include asbestos components inside the arc-chutes
- * This switchgear is different from UniGear ZS1 which is active

Obsolete products

Spare parts and retrofit solutions availability

Spare parts have been categorized into groups as per the following:

- Poles: assembly parts in which main interruptive components are installed in
- Mechanism: operating mechanism which drives the interruptive parts
- Auxiliary equipment: LV equipment onboard the operating mechanism (spring charging motor, coils, magnets, contacts, etc.)
- Tulip contacts: moving contacts onboard the apparatus arms
- Complete device: for those products which cannot be split into sub-assemblies

- Monoblocs: spouts, shutters and branches
- Earthing switch: earthing switch and relevant accessories
- Line disconnector: line disconnector and relevant accessories
- LV compartment devices: protection relay, auxiliary relays, MCB and terminal board

This chart gives an overview of the currently available spare parts in our stock and retrofit solutions for replacing phased-out equipment with active products. Spare parts in "Limited stock" could become "Not available" during the year depending on requests.

See relevant 2015 Life Cycle Management for marine application.

Obsolete products			Active products	Spare parts					Note
Name	Product	Type	Retrofit solution	Poles	Mechanism	Auxiliary equipment	Tulip contacts	Complete device	
DIARC	Circuit-breaker	Magnetic-air	HD4, VD4						1-5
RG	Circuit-breaker	Minimum oil	HD4, VD4						5
RGE	Circuit-breaker	Minimum oil	OHB				n.a.		3
RM	Circuit-breaker	Minimum oil	HD4, VD4						
HM1	Circuit-breaker	SF ₆	n.a.						
HA1-2-3	Circuit-breaker	SF ₆	HD4, VD4						
HAD	Circuit-breaker	SF ₆	HD4, VD4						
HAR	Circuit-breaker	SF ₆	HD4, VD4						
H-Breaking	Circuit-breaker	SF ₆	HD4, VD4						
SFA	Circuit-breaker	SF ₆	HD4, VD4						
SFE	Circuit-breaker	SF ₆	OHB (*)				n.a.		3
eVM1	Circuit-breaker	Vacuum	VM1+met. & prot.						
VRB	Circuit-breaker	Vacuum	HD4, VD4						2
SRC	Contactor	SF ₆	V-Contact VSC						3
VRC	Contactor	Vacuum	V-Contact family						2-3
PR512	Relay	Digital	REF601, REJ603						3
PR511	Relay	Digital	PR521, REF601						3
REF542	Relay	Digital	REF542plus release 3.0, Relion® family						3
S5	Relay	Digital	PR521, REF601						3
SCU	Relay	Digital	REF542plus release 3.0, Relion® family						3
Obsolete products			Active products	Spare parts					Note
Name	Product	Type	Retrofit solution	Monoblocs	Earthing switch	Line disconnector	LV compartment devices	Circuit-breaker	
Normal AT	Switchgear	AIS	UniSec						3
UniSwitch 36	Switchgear	AIS	UniGear ZS2						3
BEU2	Switchgear	GIS	ZX family						3
CSF1	Switchgear	RMU	SafeRing, SafePlus						3-4
CSF2	Switchgear	RMU	SafeRing, SafePlus						3-4
CSFU	Switchgear	RMU	SafeRing, SafePlus						3

Notes:

1. Arc chambers are not available
2. Vacuum interrupters are not available
3. Replacement with site adaptations
4. Available only with HA circuit-breaker or electrical operating mechanism
5. AE mechanism and its components are not available

	Not available
	Limited stock
	Available

This Service center is responsible for:

- All designed and manufactured medium voltage products with SACE logo
- Retrofit apparatus for replacing ABB HPA gas insulated circuit breakers designed and manufactured by ABB Sweden for fitting SafeSix switchgear

Data and illustration are not binding. We reserve the right to make changes in the course of technical development.

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For more information please visit our website www.abb.com/mediumvoltage selecting Service or contact Service Center at:

ABB S.p.A.

Power Products Division

Unità Operativa Sace-MV

Via Friuli, 4

I-24044 Dalmine

Phone:

+39 035 695 2713

Emergency Line h24:

+39 335 750 5383

E-mail:

service.mv@it.abb.com

www.abb.it

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