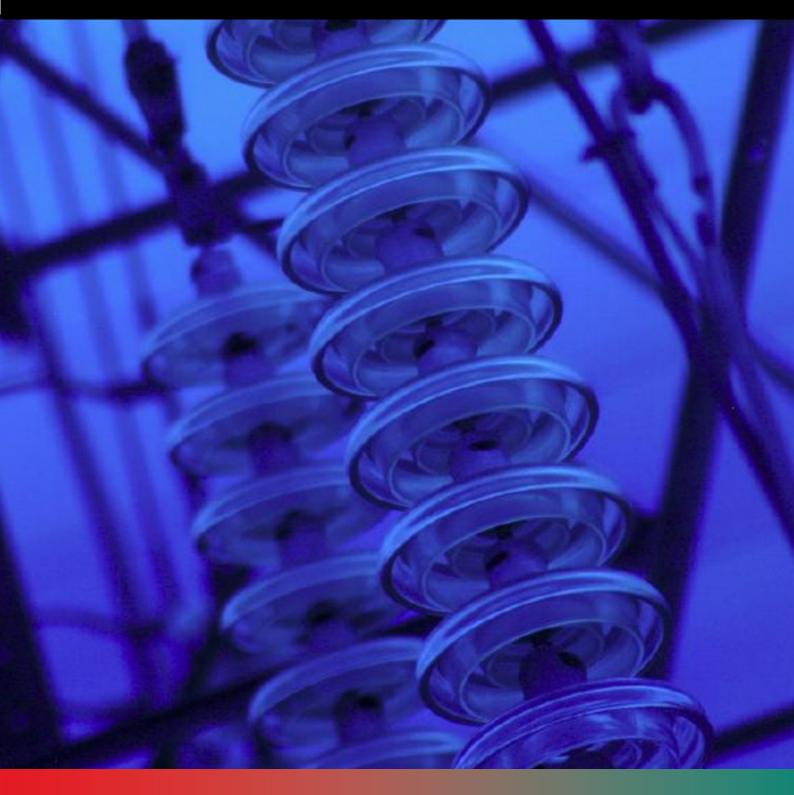
Assessment List ALP 2-1

Issue 1 March 2010

PROTECTION RELAYS





www.energynetworks.org

© 2010 Energy Networks Association

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written consent of Energy Networks Association. Specific enquiries concerning this document should be addressed to:

Operations Directorate Energy Networks Association 6th Floor, Dean Bradley House 52 Horseferry Rd London SW1P 2AF

This document has been prepared for use by members of the Energy Networks Association to take account of the conditions which apply to them. Advice should be taken from an appropriately qualified engineer on the suitability of this document for any other purpose.

APPROVAL NOTICES

Please note: these notices are no longer maintained and users should review any information contained within them to ensure it is still valid.

Manufactu	Manufacturer product		Tune of			Assessment			Limitatio	
Manufacturer	reference	Functional description	Type of Assessment	Number	Issue	date	Software Version	Hardware Version	ns Yes/No	Notes
AREVA T&D UK LTD	KCEG 110/210	Directional earth fault overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCEG 130/230	Directional three phase overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCEG 140/240	Directional three phase and earth fault overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCEG 150/250	Directional earth fault and non-directional overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCEG 160	Directional earth fault relay with dual polarisation	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCEU 110	Directional sensitive earth fault overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCEU 140/240	Directional three phase and sensitive earth fault overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCEU 150/250	Directional sensitive earth fault and non- directional overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCEU 160	Directional sensitive earth fault relay with dual polarisation	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCGG 110/210	Earth fault overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	KCGG 120	Two phase overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCGG 130/230	Three phase overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCGG 140/240	Three phase and earth fault overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCGU 110	Sensitive earth fault overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	KCGU 140/240	Three phase and sensitive earth fault overcurrent relay	AN	1	2	06/04/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MITZ 03	Optical to electrical [X21] interface	AN	3	1	30/01/1995				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	PRIMA PRH N	Compact, voltage operated attracted armature auxiliary relay with instantaneous auxiliary functions	AN	4	2	17/12/1996				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	PRIMA PRS D	Compact, voltage operated attracted armature auxiliary relay with instantaneous and time delayed (on drop-off) auxiliary functions	AN	4	2	17/12/1996				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	PRIMA PRS N	Compact, voltage operated attracted armature auxiliary relay with instantaneous auxiliary functions	AN	4	2	17/12/1996				Approval notices are no longer maitained and are for information only

Mani	Manufacturer product		Turo of			Assessment			Limitatio	
Manufacturer	reference	Functional description	Type of Assessment	Number	Issue	date	Software Version	Hardware Version	ns Yes/No	Notes
AREVA T&D UK LTD	PRIMA PRS P	Compact, voltage operated attracted armature auxiliary relay with instantaneous and time delayed (on pick-up) auxiliary functions	AN	4	2	17/12/1996				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DAD3	Three pole high impedance circulating current protection relay	AN	5	1	02/01/1997				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LGPG 111	Generator protection relay	AN	6	1	02/02/1997				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	SHPM 101 (QUADRAMHC	Static Distance Protection relay.	AN	7	1	20/08/1986				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFZP 111 (OPTIMHO)	Static Distance protection for overhead line feeders. Full scheme 18 element. Quadrilateral/Mho characteristic.	AN	8	1	03/03/1993				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFZP 112 (OPTIMHO)	Static Distance protection for overhead line feeders. Full scheme 18 element. Mho characteristic.	AN	8	1	03/03/1993				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFZP 113 (OPTIMHO)	Static Distance protection for cable feeders. Full scheme 18 element. Mho characteristic.	AN	8	1	03/03/1993				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFZP 114 (OPTIMHO)	Static Distance protection for transformer feeders. Z1 and Z2 elements only. Mho characteristic.	AN	8	1	03/03/1993				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFZP 121 (OPTIMHO)	Static Distance Protection	AN	8	1	03/03/1993				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	LFZP 122 (OPTIMHO)	Static Distance Protection.	AN	8	1	03/03/1993				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFZP 123 (OPTIMHO)	Static Distance Protection.	AN	8	1	03/03/1993				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFZP 151 (OPTIMHO)	Static Distance Protection.	AN	8	1	03/03/1993				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MRTP (TRANSLAY 'S')	High speed differential feeder protection using pilots comprising Translay 'S' relay, supervision, overcurrent start and unstabilising.	AN	9	1	22/07/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MCGG 22	Single phase/earth fault inverse and definite time o/c relay.	AN	10	1	21/02/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MCGG 42	Two phase inverse and definite time o/c relay.	AN	10	1	21/02/1989				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	MCGG 52	Two phase and earth fault inverse and definite time o/c relay.	AN	10	1	21/02/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MCGG 53	Two phase and earth fault inverse and definite time o/c relay.	AN	10	1	21/02/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MCGG 62	Three phase inverse and definite time o/c relay.	AN	10	1	21/02/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MCGG 63	Three phase inverse and definite time o/c relay.	AN	10	1	21/02/1989				Approval notices are no longer maitained and are for information only

Mar	Manufacturer product		Type of			Assessment			Limitatio	
Manufacturer	reference	Functional description	Assessment	Number	Issue	date	Software Version	Hardware Version	ns Yes/No	Notes
AREVA T&D UK LTD	MCGG82	Three phase & earth fault inverse and definite time o/c relay.	AN	10	1	21/02/1989				Approval notices are no longer maitained and are for information
		line of relay.								only
ABB Power Oy, Vaasa, Finland	SPAE 010/011	Lisk impedance protection relay	AN	11	1	05/11/1997				Approval notices are no longer maitained and are for information
Finland	SPAE 010/011	High impedance protection relay				05/11/1997				only
ABB Power Oy, Vaasa,			AN	12	1					Approval notices are no longer
Finland	SPAD 346C	Stabilised transformer differential protection				05/11/1997				maitained and are for information
ABB Power Oy, Vaasa,			AN	13	1					Approval notices are no longer
Finland	SPAA 341C	Feeder protection relay		10		05/11/1997				maitained and are for information
Schneider Electric SA.			AN	14	1					Approval notices are no longer
Varces, France	Sepam 1000 NO1	Three-phase overcurrent and earth fault protection and measurement unit			-	31/07/1997				maitained and are for information
		protection and measurement unit								only
AREVA T&D UK LTD			AN	15	1					Approval notices are no longer
	SHNB 105 (MICROMHO)	Static Distance Protection.				02/10/1997				maitained and are for information
AREVA T&D UK LTD			AN	17	1					only Approval notices are no longer
AREVAILOUKLID	MBCH12	Biased differential transformer protection (two	AN	17	I	19/01/1988				maitained and are for information
		winding transformer).				10/01/1000				only
AREVA T&D UK LTD		Discord differential transformer protection (three	AN	17	1					Approval notices are no longer
	MBCH13	Biased differential transformer protection (three winding transformer).				19/01/1988				maitained and are for information
										only
AREVA T&D UK LTD	MEQUIA		AN	17	1	40/04/4000				Approval notices are no longer
	MBCH16	Biased differential transformer protection.				19/01/1988				maitained and are for information only
AREVA T&D UK LTD			AN	18	1					Approval notices are no longer
	MSTZ02	DC to DC converter with monitor relay.	,	10		14/11/1983				maitained and are for information
										only
AREVA T&D UK LTD			AN	19	1					Approval notices are no longer
	HSDI-3	Voice frequency digital intertripping equipment.				22/10/1990				maitained and are for information
Schneider Electric SA,			AN	21	1					only Approval notices are no longer
Varces, France	Sepam 2000 NO1	Digital Protection and Control Unit	AN	21	1	25/06/1998				maitained and are for information
valooo, i lanoo	00000000					20,00,1000				only
ABB Network Partner Ltd,		Numerical Busbar and Breaker Failure	AN	22	1					Approval notices are no longer
Baden, Switzerland	REB 500	Protection				29/06/1998				maitained and are for information
										only
AREVA T&D UK LTD	LFZR 111	Numerical distance protection	AN	23	3	09/07/2002				Approval notices are no longer maitained and are for information
		Numerical distance protection				09/07/2002				only
AREVA T&D UK LTD			AN	23	3					Approval notices are no longer
	LFZR 112	Numerical distance protection		20	Ũ	09/07/2002				maitained and are for information
										only
AREVA T&D UK LTD			AN	23	3					Approval notices are no longer
	LFZR 113	Numerical distance protection				09/07/2002				maitained and are for information
Siemens Protection		l	AN	24	1					only
Devices Ltd	SOLKOR M	Voice frequency current differential protection	AIN	24	1	01/07/1993				Approval notices are no longer maitained and are for information
201.000 Elu	001.000	size nequency current differential protection				00./1000				only
AREVA T&D UK LTD		High speed differential feeder protection using	AN	25	1					Approval notices are no longer
	ICRI MVTW (TRANSLAY 'S	pilots comprising Translay 'S' relay, supervision,				22/07/1985				maitained and are for information
		overcurrent start and unstabilising.								only
AREVA T&D UK LTD		Medules instantoneous a surveitar sultant	AN	26	1	02/40/4005				Approval notices are no longer
	MVTI11	Modular instantaneous a. c. undervoltage relay.	1			03/10/1985		1	1	maitained and are for information

	Manufacturer product		Type of			Assessment			Limitatio	
Manufacturer	reference	Functional description	Assessment	Number	Issue	date	Software Version	Hardware Version	ns Yes/No	Notes
AREVA T&D UK LTD	MVTI12	Modular instantaneous a. c. overvoltage relay.	AN	26	1	03/10/1985				Approval notices are no longer maitained and are for information only
ABB Power Automation AG, Turgi, Switzerland	NSD70C	Teleprotection	AN	27	1	30/11/1998				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	7SA513	Numerical Distance Protection	AN	28	1	26/03/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DCD 22xA Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DCD 61xB Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information
Siemens Protection Devices Ltd	DCD 61xC Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DCD 62xB Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DCD 62xC Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DCD 63xB Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DCD 63xC Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DCD 64xB Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	DCD 64xC Argus 2	Directional Overcurrent & Earth Fault Protection	AN	29	1	24/05/1999				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	XR309	Ferro-resonance Detection Relay	AN	31	1	24/05/1999				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFCB102	Digital Current Differential feeder protection relay suitable for double ended feeders.	AN	32	1	04/01/1991				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	LFCB103	Digital Current Differential feeder protection relay suitable for teed feeders.	AN	32	1	04/01/1991				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFCB112	Digital Current Differential feeder protection relay suitable for double ended feeders with stub bus protection	AN	32	1	04/01/1991				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	LFCB113	Digital Current Differential feeder protection relay suitable for teed feeders with stub bus protection	AN	32	2	04/01/1991				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	ICTH MFAC (TRANSLAY	Transformer feeder protection comprising Translay S Relays/ Transformer in-rush detectors/ High impedence relays.	AN	33	1	04/01/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTD11	Modular inverse time delayed a. c. undervoltage relay.	AN	34	1	03/10/1985				Approval notices are no longer maitained and are for information only

Ма	Manufacturer product		Type of			Assessment			Limitatio	
Manufacturer	reference	Functional description	Assessment	Number	Issue	date	Software Version	Hardware Version	ns Yes/No	Notes
AREVA T&D UK LTD	MVTD12	Modular inverse time delayed a. c. overvoltage relay.	AN	34	1	03/10/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTD13	Modular inverse time delayed a. c. neutral displacement relay.	AN	34	1	03/10/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTT14 (DC)	Modular solid state time delay relay. Delay on pick-up.	AN	35	1	10/01/1983				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTT15 (DC)	Modular solid state time delay relay. Delay on drop-off.	AN	35	1	10/01/1983				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTU11	Modular definite time delayed a. c. undervoltage relay.	AN	36	2	03/10/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTU12	Modular definite time delayed a. c. overvoltage.	AN	36	2	03/10/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTU13	Modular definite time delayed a. c. and neutral displacement	AN	36	2	03/10/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	K10 (TKBB)	HF power line carrier signalling equipment.	AN	37	1	26/07/1976				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	P10 (CONTRAPHASE)	Power line carrier Phase comparison protection.	AN	38	1	30/05/1975				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	MBCI (TRANSLAY 'S')	High speed differential feeder protection using pilots comprising Translay 'S' relay, supervision, overcurrent start and unstabilising.	AN	39	1	22/07/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	IBCI MFAC (TRANSLAY '	Transformer feeder protection comprising Translay S Relays/ Transformer in-rush detectors/ High impedence relays.	AN	39	1	04/01/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MCSU01	Modular sensitive earth fault protection.	AN	40	1	28/11/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	METI11	Modular directional relays.	AN	41	1	14/11/1983				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	METI12	Modular directional relays.	AN	41	1	14/11/1983				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	METI31	Modular directional relays.	AN	41	1	14/11/1983				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTP11	Modular relay for continuous supervision of current transformer buswires in high impedance type busbar protection schemes.	AN	42	1	13/08/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVTP31	Modular relay for continuous supervision of current transformer buswires in high impedance type busbar protection schemes.	AN	42	1	13/08/1984				Approval notices are no longer maitained and are for information only
Siemens Protection Devices Ltd	MICROPHASE-FM	Voice Frequency current differential feeder protection.	AN	45	1	re-assessmen	t 1/2/2000			Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	KCGG 122	Overcurrent Relay	AN	47	2	28/02/2000				Approval notices are no longer maitained and are for information only

Manufacturer product reference	Functional description	Type of	Number	Issue		ment Software Version	Hardware Version		
		Assessment	Number	issue	date	Software Version	Hardware Version	ns Yes/No	Notes
	Self-powered three-phase overcurrent and	AN	50	1					Approval notices are no longer
VIP 300	earth fault protection unit.				15/03/2000				maitained and are for information
	Distributed Bushar/Circuit Breaker Failure	AN	51	1					Approval notices are no longer
7SS52	Protection				18/12/2000				maitained and are for information
		AN	52	1					only Approval notices are no longer
MICOM SERIES CASE		,	02		17/04/2001				maitained and are for information
									only
	Digital Teleprotection	AN	53	1	03/04/2001				Approval notices are no longer maitained and are for information
NGDTOD					03/04/2001				only
		AN	54	1					Approval notices are no longer
GCM05	DC Intertrip Relay				17/04/2001				maitained and are for information
		AN	55	2					only Approval notices are no longer
DFF Series 1000	Digital Frequency Relay		55	2	24/10/2001				maitained and are for information
	5 ··· · · · · · · · · · · · · · · · · ·								only
		AN	57	1	0.4/0.0/0.000				Approval notices are no longer
SEL 321-2	Phase and Ground Distance Protection Relay				01/06/2002				maitained and are for information
		AN	n/a	n/a					Approval notices are no longer
N/(:AA11	o 1 1				24/10/1984				maitained and are for information
	auxiliary relay.								only
MCA 412	Modular general purpose current operated	AN	n/a	n/a	24/10/1084				Approval notices are no longer maitained and are for information
MCAATS	auxiliary relay.				24/10/1904				only
		AN	n/a	n/a					Approval notices are no longer
MCAG11	Modular instantaneous overcurrent relay.				20/03/1985				maitained and are for information
		A.N.	2/2	<i>n/a</i>					only
MCAG12	Modular instantaneous overcurrent relav	AIN	n/a	n/a	20/03/1985				Approval notices are no longer maitained and are for information
									only
		AN	n/a	n/a					Approval notices are no longer
MCAG14	Modular high impedance differential protection.				26/06/1984				maitained and are for information only
		AN	n/a	n/a					Approval notices are no longer
MCAG19		,			11/07/1984				maitained and are for information
	negligible transient overreach.								only
MCACOA		AN	n/a	n/a	20/02/4085				Approval notices are no longer
MCAG31	Modular instantaneous overcurrent relay.				20/03/1985				maitained and are for information
		AN	n/a	n/a					Approval notices are no longer
MCAG32	Modular instantaneous overcurrent relay.				20/03/1985				maitained and are for information
			1	,	-				only
MCAG34	Modular high impedance differential protection	AN	n/a	n/a	26/06/1984				Approval notices are no longer maitained and are for information
morteoq	modular high impedence differential protection.				20/00/1004				only
	Modular instantaneous relay with negligible	AN	n/a	n/a					Approval notices are no longer
MCAG39	transient overreach.				11/07/1984				maitained and are for information
					+ +				only Approval notices are no longer
1D and 4&1/2D size cases	Drawout case.	AN	n/a	n/a	04/08/1955				maitained and are for information
									only
									Approval notices are no longer
CDG11	Induction disc overcurrent relay (1 pole).	AN	n/a	n/a	04/08/1955				maitained and are for information only
	NSD70D GCM05 DFF Series 1000 SEL 321-2 MCAA11 MCAA13 MCAG11 MCAG12 MCAG14 MCAG14 MCAG31 MCAG31 MCAG32 MCAG34 MCAG39 ID and 4&1/2D size cases	ProtectionMiCOM SERIES CASEHousing system for the MiCOM range of protection and control equipmentNSD70DDigital TeleprotectionGCM05DC Intertrip RelayDFF Series 1000Digital Frequency RelaySEL 321-2Phase and Ground Distance Protection RelayMCAA11Modular general purpose current operated auxiliary relay.MCAA13Modular general purpose current operated auxiliary relay.MCAG11Modular instantaneous overcurrent relay.MCAG12Modular instantaneous overcurrent relay.MCAG14Modular instantaneous overcurrent relay.MCAG19Modular instantaneous overcurrent relay.MCAG31Modular instantaneous overcurrent relay.MCAG32Modular instantaneous overcurrent relay.MCAG34Modular instantaneous overcurrent relay.MCAG39Modular instantaneous relay with negligible transient overreach.ID and 4&1/2D size casesDrawout case.	7SS52 Distributed Busbar/Circuit Breaker Failure MiCOM SERIES CASE Housing system for the MiCOM range of protection and control equipment AN NSD70D Digital Teleprotection AN GCM05 DC Intertrip Relay AN DFF Series 1000 Digital Frequency Relay AN SEL 321-2 Phase and Ground Distance Protection Relay AN MCAA11 Modular general purpose current operated auxiliary relay. AN MCAG11 Modular instantaneous overcurrent relay. AN MCAG12 Modular instantaneous overcurrent relay. AN MCAG14 Modular instantaneous overcurrent relay. AN MCAG19 Modular instantaneous overcurrent relay. AN MCAG31 Modular instantaneous overcurrent relay. AN MCAG31 Modular instantaneous overcurrent relay. AN MCAG34 Modular instantaneous overcurrent relay. AN MCAG34 Modular instantaneous overcurrent relay. AN MCAG34 Modular instantaneous overcurrent relay. AN MCAG39 Modular instantaneous overcurrent relay. AN MCAG39 Modular instantaneous overcurrent relay.<	7SS52 Distributed Busbar/Circuit Breaker Failure An 52 MiCOM SERIES CASE Housing system for the MiCOM range of protection and control equipment AN 53 NSD70D Digital Teleprotection AN 53 GCM05 DC Intertrip Relay AN 54 DFF Series 1000 Digital Frequency Relay AN 55 SEL 321-2 Phase and Ground Distance Protection Relay AN 57 MCAA11 Modular general purpose current operated auxiliary relay. AN n/a MCAA13 Modular general purpose current operated auxiliary relay. AN n/a MCAG11 Modular instantaneous overcurrent relay. AN n/a MCAG12 Modular instantaneous overcurrent relay. AN n/a MCAG14 Modular instantaneous overcurrent relay. AN n/a MCAG13 Modular instantaneous overcurrent relay. AN n/a MCAG31 Modular instantaneous overcurrent relay. AN n/a MCAG31 Modular instantaneous overcurrent relay. AN n/a MCAG31 Modular instantaneous overcurrent relay. AN n/a <td>7SS52Distributed Busbar/Circuit Breaker Failure ProtectionAN521MICOM SERIES CASE protection and control equipmentAN531NSD70DDigital TeleprotectionAN531GCM05DC Intertrip RelayAN541DFF Series 1000Digital Trequency RelayAN552SEL 321-2Phase and Ground Distance Protection RelayAN571MCAA11Modular general purpose current operated auxiliary relay.ANn/an/aMCAG11Modular instantaneous overcurrent relay.ANn/an/aMCAG12Modular instantaneous overcurrent relay.ANn/an/aMCAG14Modular instantaneous overcurrent relay.ANn/an/aMCAG14Modular instantaneous overcurrent relay.ANn/an/aMCAG14Modular instantaneous overcurrent relay.ANn/an/aMCAG14Modular instantaneous overcurrent relay.ANn/an/aMCAG31Modular instantaneous overcurrent relay.ANn/an/aMCAG34Modular instantaneous overcurrent relay.ANn/an/aMCAG39Modular instantaneous overcurrent relay.ANn/an/aMCAG39Modular instantaneous overcurrent relay.ANn/an/aMCAG39Modular instantaneous overcurrent relay.ANn/an/aMCAG39Modular instantaneous relay with negligibleANn/an/aM</td> <td>7SS2Distributed Busbar/Circuit Breaker Failure18/12/2000MiCOM SERIES CASEHousing system for the MiCOM range of protection and control equipmentAN52117/04/2001NSD70DDigital TeleprotectionAN53103/04/2001GCM05DC Intertrip RelayAN54117/04/2001DFF Series 1000Digital Frequency RelayAN55224/10/2001SEL 321-2Phase and Ground Distance Protection RelayAN57101/06/2002MCAA11Modular general purpose current operated auxiliary relay.ANn/a24/10/1984MCAA13Modular general purpose current operated auxiliary relay.ANn/a24/10/1984MCAG11Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG12Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/a11/07/1984MCAG31Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34<td>7SS2Distributed BusparCircuit Breaker Pailure1118/12/2000MICOM SERIES CASEHousing system for the MICOM range of protection and control equipmentAN52117/04/2001NSD70DDigital TeleprotectionAN53103/04/2001GCM05DC Intertrip RelayAN55224/10/2001DFF Series 1000Digital Frequency RelayAN55224/10/2001SEL 321-2Phase and Ground Distance Protection RelayAN57101/06/2002MCAA11Modular general purpose current operated auxiliary relay.AN1/a2/10/1984MCAG11Modular instantaneous overcurrent relay.ANn/a2/003/1985MCAG14Modular instantaneous overcurrent relay.ANn/a120/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG31Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneo</td><td>TSS2Distributed Busbar/Criter Hersker Fahure ProtectionImage of ANImage of S2Image of ANImage of ANImage of ANImage of<</br></br></br></br></br></br></br></br></br></br></br></br></br></br></td><td>7 SS22Minimute Businal/Group Breaker Failure1118/12/200018/12/2000111</td></td>	7SS52Distributed Busbar/Circuit Breaker Failure ProtectionAN521MICOM SERIES CASE protection and control equipmentAN531NSD70DDigital TeleprotectionAN531GCM05DC Intertrip RelayAN541DFF Series 1000Digital Trequency RelayAN552SEL 321-2Phase and Ground Distance Protection RelayAN571MCAA11Modular general purpose current operated auxiliary relay.ANn/an/aMCAG11Modular instantaneous overcurrent relay.ANn/an/aMCAG12Modular instantaneous overcurrent relay.ANn/an/aMCAG14Modular instantaneous overcurrent relay.ANn/an/aMCAG14Modular instantaneous overcurrent relay.ANn/an/aMCAG14Modular instantaneous overcurrent relay.ANn/an/aMCAG14Modular instantaneous overcurrent relay.ANn/an/aMCAG31Modular instantaneous overcurrent relay.ANn/an/aMCAG34Modular instantaneous overcurrent relay.ANn/an/aMCAG39Modular instantaneous overcurrent relay.ANn/an/aMCAG39Modular instantaneous overcurrent relay.ANn/an/aMCAG39Modular instantaneous overcurrent relay.ANn/an/aMCAG39Modular instantaneous relay with negligibleANn/an/aM	7SS2Distributed Busbar/Circuit Breaker Failure18/12/2000MiCOM SERIES CASEHousing system for the MiCOM range of protection and control equipmentAN52117/04/2001NSD70DDigital TeleprotectionAN53103/04/2001GCM05DC Intertrip RelayAN54117/04/2001DFF Series 1000Digital Frequency RelayAN55224/10/2001SEL 321-2Phase and Ground Distance Protection RelayAN57101/06/2002MCAA11Modular general purpose current operated auxiliary relay.ANn/a24/10/1984MCAA13Modular general purpose current operated auxiliary relay.ANn/a24/10/1984MCAG11Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG12Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/a11/07/1984MCAG31Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/a20/03/1985MCAG34 <td>7SS2Distributed BusparCircuit Breaker Pailure1118/12/2000MICOM SERIES CASEHousing system for the MICOM range of protection and control equipmentAN52117/04/2001NSD70DDigital TeleprotectionAN53103/04/2001GCM05DC Intertrip RelayAN55224/10/2001DFF Series 1000Digital Frequency RelayAN55224/10/2001SEL 321-2Phase and Ground Distance Protection RelayAN57101/06/2002MCAA11Modular general purpose current operated auxiliary relay.AN1/a2/10/1984MCAG11Modular instantaneous overcurrent relay.ANn/a2/003/1985MCAG14Modular instantaneous overcurrent relay.ANn/a120/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG31Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneo</td> <td>TSS2Distributed Busbar/Criter Hersker Fahure ProtectionImage of ANImage of S2Image of ANImage of ANImage of ANImage of<</br></br></br></br></br></br></br></br></br></br></br></br></br></br></td> <td>7 SS22Minimute Businal/Group Breaker Failure1118/12/200018/12/2000111</td>	7SS2Distributed BusparCircuit Breaker Pailure1118/12/2000MICOM SERIES CASEHousing system for the MICOM range of protection and control equipmentAN52117/04/2001NSD70DDigital TeleprotectionAN53103/04/2001GCM05DC Intertrip RelayAN55224/10/2001DFF Series 1000Digital Frequency RelayAN55224/10/2001SEL 321-2Phase and Ground Distance Protection RelayAN57101/06/2002MCAA11Modular general purpose current operated auxiliary relay.AN1/a2/10/1984MCAG11Modular instantaneous overcurrent relay.ANn/a2/003/1985MCAG14Modular instantaneous overcurrent relay.ANn/a120/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG14Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG31Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneous overcurrent relay.ANn/an/a20/03/1985MCAG34Modular instantaneo	TSS2Distributed Busbar/Criter Hersker Fahure ProtectionImage of ANImage of S2Image of ANImage of 	7 SS22Minimute Businal/Group Breaker Failure1118/12/200018/12/2000111

	Manufacturer product		Type of			Assessment			Limitatio	
Manufacturer	reference	Functional description	Type of Assessment	Number	Issue	date	Software Version	Hardware Version	ns Yes/No	Notes
AREVA T&D UK LTD	CDG12	Induction disc standby earth fault relay.	AN	n/a	n/a	13/04/1956				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	CDG13	Very inverse induction disc overcurrent or earth fault relay (1 pole).	AN	n/a	n/a	30/07/1965				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	CDG14	Extremely inverse induction disc overcurrent or earth fault relay (1 pole).	AN	n/a	n/a	30/07/1965				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	CDG16	Induction disc overcurrent or earth fault relay (1 pole).	AN	n/a	n/a	14/03/1968				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	CDG31	3 pole version of CDG11.	AN	n/a	n/a	13/05/1953				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	CDG33	3 pole version of CDG13.	AN	n/a	n/a	30/07/1965				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	CDG34	3 pole version of CDG14.	AN	n/a	n/a	30/07/1965				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	CDG36	3 pole version of CDG16.	AN	n/a	n/a	14/03/1968				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	CG4	Blocking circuits(s) unit.	AN	n/a	n/a	23/09/1968				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	DBA4	Permanent magnet moving coil relay.	AN	n/a	n/a	25/03/1971				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	DBAE4	Rotor earth fault relay.	AN	n/a	n/a	25/07/1983				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	DBB4	Permanent magnet moving coil relay.	AN	n/a	n/a	18/08/1971				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	HO4	Biased differential feeder protection using private pilots.	AN	n/a	n/a	26/06/1970				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	L SERIES CASE	Electronic equipment case for 'L' series relays.	AN	n/a	n/a	04/01/1991				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	M3	Modular case for electronic assemblies.	AN	n/a	n/a	21/01/1971				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MFAC14	Modular high impedance differential protection.	AN	n/a	n/a	24/05/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MIDOS SERIES CASE	Discrete modular housing for protection equipment.	AN	n/a	n/a	15/06/1982				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MITZ 01	Communication interface unit. Fibre optic to G703.	AN	n/a	n/a	04/01/1991				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MMLB01, MMLB02	Multi finger test Plug and single finger test plug respectively.	AN	n/a	n/a	13/08/1984				Approval notices are no longer maitained and are for information only

Мари	Manufacturer product		Turs of			Accomment			Limitatio	
Manufacturer	reference	Functional description	Type of Assessment	Number	Issue	Assessment date	Software Version	Hardware Version	ns Yes/No	Notes
AREVA T&D UK LTD	MMLG	Test Socket.	AN	n/a	n/a	13/08/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAA11	Modular general purpose voltage operated auxiliary relay.	AN	n/a	n/a	24/10/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAA12	Modular general purpose voltage operated auxiliary relay.	AN	n/a	n/a	24/10/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAA13	Modular general purpose voltage operated auxiliary relay.	AN	n/a	n/a	24/10/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAA14	Modular general purpose voltage operated auxiliary relay.	AN	n/a	n/a	24/10/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAA15	Modular general purpose voltage operated auxiliary relay.	AN	n/a	n/a	24/10/1984				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAA16	Modular auxiliary relay suitable for carrier send and carrier receive interface applications for distance protection.	AN	n/a	n/a	04/09/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAG11	Instantaneous undervoltage relay.	AN	n/a	n/a	26/02/1988				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAG12	Instantaneous undervoltage relay.	AN	n/a	n/a	26/02/1988				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAG13	Instantaneous undervoltage relay.	AN	n/a	n/a	26/02/1988				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAG14	Instantaneous undervoltage relay.	AN	n/a	n/a	26/02/1988				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAG15	Instantaneous overvoltage relay.	AN	n/a	n/a	26/02/1988				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAG16	Instantaneous overvoltage relay.	AN	n/a	n/a	26/02/1988				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAG17	Instantaneous overvoltage relay.	AN	n/a	n/a	26/02/1988				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	MVAG18	Instantaneous overvoltage relay.	AN	n/a	n/a	26/02/1988				only Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	MVAG31	Instantaneous under voltage relay.	AN	n/a	n/a	26/02/1988				only Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAG35	Instantaneous overvoltage relay.	AN	n/a	n/a	26/02/1988				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	MVAJ11	Modular tripping relay. Self reset, low burden, economy cut-off.	AN	n/a	n/a	12/08/1985				only Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	MVAJ13	Modular tripping relay. Hand reset, low burden, instantaneous cut-off.	AN	n/a	n/a	12/08/1985				only Approval notices are no longer maitained and are for information only

м	Manufacturer product		Type of			. Assessment			Limitatio	
Manufacturer	reference	Functional description	Type of Assessment	Number	Issue	date	Software Version	Hardware Version	ns Yes/No	Notes
AREVA T&D UK LTD	MVAJ14	Modular tripping relay. Electrically reset, low burden, instantaneous cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ15	Modular tripping relay. Electrically/hand reset, low burden instantaneous cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ17	Modular tripping relay. Self reset, very low burden, ecomony cut-off.	AN	n/a	n/a	15/12/1987				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ21	Modular tripping relay. Self reset, high burden, ecomony cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	MVAJ23	Modular tripping relay. Hand reset, high burden, instantaneous cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information
AREVA T&D UK LTD	MVAJ24	Modular tripping relay. Electrically reset, high burden instantaneous cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ25	Modular tripping relay. Electrically/hand reset, high burden instantaneous cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ26	Modular tripping relay. Self reset after 2 seconds, high burden, economy cut-off.	AN	n/a	n/a	15/12/1987				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ27	Modular tripping relay. Hand reset, high burden, time delay cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ28	Modular tripping relay. Electrically reset, high burden, time delay cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ29	Modular tripping relay. Electrically/hand reset, high burden, time delay cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ34	Modular control relay. Electrically reset, instantaneous cut-off.	AN	n/a	n/a	12/08/1985				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ41	Modular tripping relay. Self reset, low burden, economy cut-off.	AN	n/a	n/a	04/05/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ43	Modular tripping relay. Hand reset, low burden, instantaneous cut-off.	AN	n/a	n/a	04/05/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ44	Modular tripping relay. Electrically reset, low burden instantaneous cut-off.	AN	n/a	n/a	04/05/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ45	Modular tripping relay. Electrically/hand reset, low burden, instantaneous cut-off.	AN	n/a	n/a	04/05/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ51	Modular tripping relay. Self reset, high burden, economy cut-off.	AN	n/a	n/a	04/05/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ53	Modular tripping relay. Hand reset, high burden, instantaneous cut-off.	AN	n/a	n/a	04/05/1989				Approval notices are no longer maitained and are for information only
AREVA T&D UK LTD	MVAJ54	Modular tripping relay. Electrically reset, high burden, instantaneous cut-off.	AN	n/a	n/a	04/05/1989				Approval notices are no longer maitained and are for information only