

Differences between **standards** and different **instruments**

MI 3309 BT DeltaGT and MI 3360 OmegaGT XA

EN 50678 / EN 50699 / VDE 0701-0702	This procedure is applicable to current-using equipment or appliances with a rated voltage above 25 V AC and 60 V DC up to 1 000 V AC and 1 500 V DC, and currents up to 63 A, connected to final circuits. They may be either pluggable equipment type A connected or permanently connected.			MI 3309 (FW latest)	MI 3360 Series (FW Latest)
MEASUREMENTS INSPECTIONS	EN 50699 (Periodic)	EN 50678 (After repair)	VDE 0701-0702 (Periodic & After repair)	*	*
	Visual inspection (EN 50699)	Visual inspection (EN 50678)	Visual inspection (VDE 0701-0702)	Simple	** *
	Protective bonding resistance	Protective bonding resistance	Protective bonding resistance	*	*
	- new formula for cross sections above 1,5m2 + 0,1 Ohm	- new formula for cross sections above 1,5m2 + 0,1 Ohm		manually	(limit calculator)
	Insulation resistance	Insulation resistance	Insulation resistance	*	*
	Protective conductor current	Protective conductor current	Protective conductor current	*	*
	- direct method	- direct method	- direct method		*
	- residual current method	- residual current method	- residual current method	*	*
	- alternative method	- alternative method	- alternative method	*	*
	Touch-current	Touch-current	Touch-current	*	*
	- direct method	- direct method	- direct method	*	*
	- alternative method	- alternative method	- alternative method	*	*
	SELV/PELV	SELV/PELV	SELV/PELV		
	Leakage current produced by a floating input with a rated input voltage above 50 V AC or 120 V DC	Leakage current produced by a floating input with a rated input voltage above 50 V AC or 120 V DC			*(Metrel unique solution)
	Confirmation of the operation of further protective measures (RCD / P-RCD / under-voltage protection devices)	Confirmation of the operation of further protective measures (RCD / P-RCD / under-voltage protection devices)	Confirmation of the operation of further protective measures (RCD / P-RCD / under-voltage protection devices)	*(basic)	*(advanced)
		Confirmation of the polarity of mains plug wiring	Confirmation of the polarity of mains plug wiring	Normal	(Normal / Active)
	Functional test (EN 50699)	Functional test (EN 50678)	Functional test (VDE 0701-0702)	Simple	** *
TEST EQUIPMENT REQUIREMENTS	EN 61557 series shall be used	EN 61557 series shall be used	EN 61557 series shall be used	*	*
EXCEPTIONS	This standard does not apply to: test after repair defined in EN 50678	This standard does not apply to: recurrent tests defined in EN 50699	This standard does not apply to:	*	*
	audio/video, information and communication technology equipment (EN 62368-1)				Optional
	medical equipment covered by EN 60601-1. For these devices, EN 62353 applies	medical equipment covered by EN 60601-1. For these devices, EN 62353 applies	medical equipment covered by EN 60601-1. For these devices, EN 62353 applies		*(MI 3360 M only)
	arc welding equipment covered by EN 60974-1. For these devices, EN 60974-4 applies	arc welding equipment covered by EN 60974-1. For these devices, EN 60974-4 applies	arc welding equipment covered by EN 60974-1. For these devices, EN 60974-4 applies		*(MI 3360 + A 1422 only)
PERMISSIONS	Recurrent tests shall be performed by an electrically skilled person or by an electrically instructed person, supervised by an electrically skilled person.	Tests after repair shall only be performed by an electrically skilled person.	Recurrent tests shall be performed by an electrically skilled person or by an electrically instructed person, supervised by an electrically skilled person. Tests after repair shall only be performed by an electrically skilled person.		User permissions
	- Skilled person (Standard) / Full access	- Skilled person (Standard) / Full access			*
	- Instructed person (Instructed) / Limited access				*
EXPLANATION	User permissions enable to switch between two different user profiles. - The standard user has full control of the instrument. - Instructed user doesn't access the Single test menu, doesn't have access to change specific limits of Auto Sequences, and can only access AutoSequences which are designed for the Instructed person plus some other limitations as explained in the user manual.				
SPECIAL FUNCTIONS NOT PART OF EN 50699 / EN 50678 / VDE 0701-0702 Introduced with new instruments					
IEC 62368-1	SAFETY OF ELECTRONIC EQUIPMENT WITHIN THE FIELD OF AUDIO/VIDEO, INFORMATION TECHNOLOGY AND				
	- Single fault conditions				A 1789
	- AC/DC component on leakage current				*
IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance				
	- Single fault conditions				A 1789
	- AC/DC component on leakage current				*(MI 3360 M only)
	- Touch current				*(MI 3360 M only)
	- Patient current				*(MI 3360 M only)

