Circuit breaker testing
Accessories

Contents

Megger

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Art No. ZI-AB03E	Doc. AB0081CE	V03	2015

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Cables							
Analogue Input XLR/Banana		XLR female / 4 mm safety plugs, 1 m (3.3 ft). For customized analog transducer connection	X	X	X	X	GA-00040
Cable Analogue XLR/open ends		XLR female / open ends, 1 m (3.3 ft)	X	X	X	X	GA-00041
Transducer cable, XLR / IP / TS		NOVOTECHNIC IP/TS, 1 m (3.3 ft)	X	X	X	X	GA-00044
Transducer cable, XLR / TLH / LWH		NOVOTECHNIC TLH/LWH, 0.5 m (1.6 ft)	X	X	X	X	GA-00049
Transducer cable XLR / LWG		NOVOTECHNIC LWG/M12, 0.5 m (1.6 ft)	X	X	X	X	GA-00050
Cable Current clamp		For current clamp, BNC / XLR3, 0.3 m (1 ft)	X	X	X	X	GA-00140
Cable, extension EGIL Timing MAIN		Extension cable for time measurement of main contacts, XLR5 female / XLR5 male 10 m (32.8 ft)				X	GA-00150
		5 m (16.4 ft)				X	GA-00155

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Cable, EGIL Timing		Timing 5 m (16.4 ft) XLR5 / 4 mm banana incl. clamps				X	GA-00160
Cable, EGIL Timing AUX		AUX1&2, timing 5 m (16.4 ft) XLR5 / 4 mm banana excl. clamps				X	GA-00170
Cable, EGIL Voltage sense		SDRM Voltage sense cable incl. clamps, 2 m (6.5 ft)				X	GA-00175
Cable set, Timing TM1800 AUX TM1700 AUX TM1600 MAIN TM1600 AUX		The cable sets consist of 8 cables with clamps and 4 mm stackable safety plugs. For timing of CB contacts. 5 m (16.4 ft)	X	X	X		GA-00231
		10 m (32.8 ft)	X	X	X		GA-00241
		15 m (49.2 ft)	X	X	X		GA-00251
		20 m (65.6 ft)			X		GA-00261
		25 m (82 ft)			X		GA-00271
		40 m (131 ft)			X		GA-00281
SCA600/Coax. Cable			X	X	X		GA-00750
Extension cable Analogue input		XLR female/XLR male 1 m (3.3 ft)	X	X	X	X	GA-00760

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Cable reel		20 m (65.5 ft), 4 mm stackable safety plugs					
		Black	X	X	X	X	GA-00840
		Red	X	X	X	X	GA-00842
		Yellow	X	X	X	X	GA-00844
		Green	X	X	X	X	GA-00845
		Blue	X	X	X	X	GA-00846
Cable Timing MAIN (Adv.)		Timing M/R XLR3 male / banana, 5 m (16.4 ft), Length of the split portion (retractable sock), 2.4 m (8 ft) to 3.8 m (12 ft)	X	X			GA-00850
Extension cable Timing MAIN		For Timing M/R modules, XLR3 male / XLR3 female, 10 m (32.8 ft)	X	X			GA-00851
Adapter Digital		For Doble transd. (Use with GA-00895)	X	X			GA-00867
Adapter Digital		For Siemens digital transducer	X	X			GA-00868
Adapter Digital		For Vanguard transd. (Use with GA-00895)	X	X			GA-00869
Cable Timing AUX		5 m, (16.4 ft)	X	X			GA-00870
Digital transducercable		For customized digital transducer connection RS422, SUB-D15 / open ends, 10 m (33 ft)	X	X			GA-00885

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Digital transducer extension cable		RS422, SUB-D15 / SUB-D15, 10 m (33 ft)	X	X			GA-00888
Cable Digital TP1		NOVOTECH Digital TP1, linear transducer cable, D-SUB 15/M12, 10 m (33 ft)	X	X			GA-00889
L & L digital cable		For using Leine & Linde 530 digital transducer, 10 m (33 ft)	X	X			GA-00890
Baumer digital cable		For using Baumer digital transducer, 10 m (33 ft)	X	X			GA-00895
Heidenhein digital cable		Digital transducer cable, Heidenhein, 10 m (33 ft)	X	X			GA-00900
Ethernet cable, network		Cable for connection to network/LAN, RJ45	X	X			GA-00970
TM1700/1800 DCM extension cable kit		1 DCM extension cable, DIN 6, 10 m (33 ft) Old type	X	X			GA-00998
		1 DCM extension cable, DIN 7, 10 m (33 ft) Actual type. See "TM1700/1800 DCM Extension cable" on page 7	X	X			GA-00999
Open analog cable		For customized analog transducer connection,1 m (3.3 ft)	X	X	X	X	GA-01000
Extension cable Analogue Input		For analog input, XLR3 female / XLR3 male Analog cable Egil/TM, 10 m (33 ft)	X	X	X	X	GA-01005
Cable for AnaDig 10		Optional Cable for AnaDig 100, 1 m (3 ft)					GA-01008

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Cable kit Control		Control kit for three phases, 5 x 5 m (16 ft), 2 x 0.25 m (10”), 2 x jumper	X	X			GA-90002
HV Timing cable kit		For Timing M/R modules, XLR3 male / XLR3 female, 10 m (32.8 ft) 5 pcs. GA-00851	X	X			GA-90005

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
DCM – DualGround							
DCM		DCM TM1700 DualGround Timing 3- channels Including: 1 DCM Upgrade cable kit CG-19180		X			BL-59190
		6-channels Including: 2 DCM Upgrade cable kit CG-19180		X			BL-59192
TM1700/1800 DCM Upgrade cable kit		Cables for 3 channels addition DualGround upgrade from 3 to 6 channels 3 DCM cables, 12 m (39 ft, 6 Clamps Length of the 2-cable portion, 1.5 m (5 ft)	X	X			CG-19180
TM1700/1800 DCM Extension cable		DualGround cable extension for 3 channels, 10 m (33 ft) (3 x GA-00999)	X	X			CG-19181
DCM - TM1800		Module for TM1800 Module with 3 channels Including: 1 DCM Upgrade cable kit CG-19180 1 DCM to Timing M/R GA-12900	X				CG-19190
		Module with 6 channels Including: 2 DCM Upgrade cable kit CG-19180 1 DCM to Timing M/R GA-12900	X				CG-19192
DCM Span extension cable		Cable to extend the span in the TM1700/1800 DCM Upgrade cable kit CG-19180 BNC / BNC, 2 m (6.6 ft)	X	X			GA-00720
DCM Cable link		DCM to Timing M/R	X	X			GA-12900

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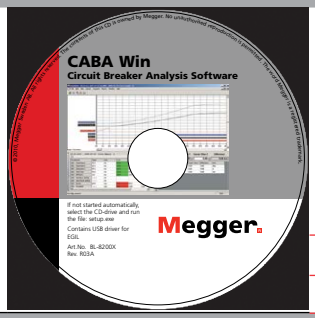
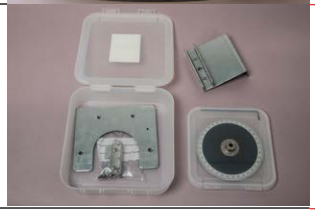
Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Software							
CABA Win		For TM1700/1800, incl. Ethernet cross-over cable	X	X			CG-8000X
		For TM1600, incl. fiberoptics and USB interface			X		BL-8203X
		For EGIL, incl. USB cable				X	BL-8204X
Application kits							
First trip kit		For single operating mechanism, 1 + 3 clamps	X	X			BL-90700
		For three operating mechanisms, 3 + 3 clamps	X	X			BL-90710
Synchro Switch Relay kit		Synchronized Switching Relay test kit incl. accessories, software and cables (delivered in transport case) SSR kit for TM 1700/1800	X	X			CG-91200
		SSR for TM1600 (incl. VD401)			X		BL-91200
Transducer calibration kit		Plate XB-39016 not included	X	X	X	X	XB-39095

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Vibration kit		The Vibration kit extends TM1800/TM1700/TM1600 and CABA Win with the equipment and software required for recording and analyzing vibration signals at a circuit breaker. The kit includes the signal conditioning unit SCA606, the software CABA Win Vibration and one vibration channel. The vibration solution can be extended up to 6 channels.	X	X	X		BL-13090
Vibration channel		Additional vibration channel to be used together with the Vibration kit. Each Vibration channel includes accelerometer, accelerometer adapter, cables to SCA606 and cables to TM1800/TM1700/TM1600*.	X	X	X		XB-32010
Static and dynamic resistance measurement							
SDRM201		Included acessories: SDRM Cable SDRM multi cable extension GA-12815 Voltage sense GA-00175 Voltage sense extension cable GA-00150 Current cable (red) GA-12820 Current cable (black) GA-12830 Clamps (2 pcs) KD-03040				X	CG-90250
SDRM201 Cable EGIL		For SDRM201				X	GB-03430

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Item		Description		TM1800	TM1700	TM1600	EGIL	Art. No.
SDRM202		Included accessories SDRM Cable for TM1700/1800 SDRM multi cable extension, 7.5 m Current cable, red, 2pcs, 3 m (9.8 ft) Current cable, black 2 pcs, 0.5 m (1.6 ft) Clamps (2 pcs) Ground cable, 2.5 mm² 10 m (33 ft)	 GA-12815 GA-12820 GA-12830 KD-03040 GA-00208	X	X			CG-90200
		Pack of 3 units (CG-90200) for circuit breaker with 2 Breaks/Phase		X	X			CG-90230
		SDRM Cable for TM1600 SDRM multi cable extension, 7.5 m Current cable, red, 2 pcs, 3 m (9.8 ft) Current cable, black 2 pcs, 0.5 m (1.6 ft) Clamps (2 pcs) Ground cable, 2.5 mm² 10 m (33 ft)	 GA-12815 GA-12820 GA-12830 KD-03040 GA-00208			X		CG-90210
		SDRM Cable for EGIL Voltage sense cable, 2 m (6.5 ft) Voltage sense extension cable, 10 m (33 ft) Current cable, red, 2pcs, 3 m (9.8 ft) Current cable, black 2 pcs, 0.5 m (1.6 ft) Clamps (2 pcs) Ground cable, 2.5 mm² 10 m (33 ft)	 GA-00175 GA-00150 GA-12820 GA-12830 KD-03040 GA-00208				X	CG-90220
SDRM202 Cable	 SDRM Cable (CG-90205)	SDRM Cable for TM1700/1800		X	X			CG-90205
		SDRM Cable for TM1600				X		CG-90215
		SDRM Cable for EGIL					X	CG-90225
Extension cable, SDRM201/202		Extension cable for CG-90200 and CG-90210 10 m (33 ft)		X	X	X	X	GA-12810
		7.5 m (24.6 ft)		X	X	X	X	GA-12815
Current cables and clamps for SDRM202		Cable, red 2.5 m (8.2 ft)		X	X	X	X	GA-12820
		Cable, black, 0.5 m (1.6 ft)		X	X	X	X	GA-12830
		Clamps (2 pcs)		X	X	X	X	KD-03040

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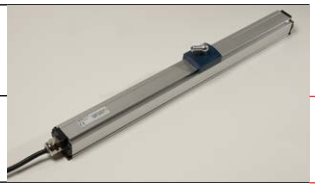
Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Transducers							
Linear							
Analog							
TLH-150		150 mm (5.9”) travel [1]	X	X	X	X	XB-30016
TLH-225		225 mm (8.8”) travel [1]	X	X	X	X	XB-30017
TLH-500		500 mm (19.7”) travel [1]	X	X	X	X	XB-30020
TLH-750		750 mm (29.5”) travel [1]	X	X	X	X	XB-30022
TLH-1000		1000 mm (39.4”) travel [1]	X	X	X	X	XB-30023
		[1] Including cable, 0.5 m (20”) GA-00049					
LWG 150		150 mm (5.9”) travel [2]	X	X	X	X	XB-30116
LWG 225		225 mm (8.8”) travel [2]	X	X	X	X	XB-30117
LWG 500		500 mm (19.7”) travel [2]	X	X	X	X	XB-30120
		[2] Including cable, 0.5 m (20”) GA-00050					
TS 150		150 mm (5.9”) travel [3]	X	X	X	X	XB-30030
TS 50		50 mm (1.9”) travel [3]	X	X	X	X	XB-30031
TS 25		25 mm (1”) travel [3]	X	X	X	X	XB-30033
		[3] Including cable, 1 m (39”) GA-00044					
Digital							
Linear transducer TP1		NOVOTECHNIC TP1 (Highspeed design for Megger) 300 mm (11.8”) travel	X	X			XB-39140
Linear transducer TP1		NOVOTECHNIC TP1 (Highspeed design for Megger) 500 mm (19.7”) travel	X	X			XB-39150
The above transducers are also available in other lengths, please contact Megger for more information.							
Rotary							
Analog							
Transducer kit		Novotechnic IP6501 Incl. cable 1 m (39”), 6 mm Flex coupling, Hexagon wrench	X	X	X	X	XB-31010
Digital							
Transducer kit		Baumer BDH16.05A3600-LO-B Incl. cable 10 m (33 ft), 10/6 mm Flex coupling, Hexagon wrench	X	X			XB-39130
Transducer accessories							
Slider		Slider for linear transducer TP1	X	X	X	X	XB-39199

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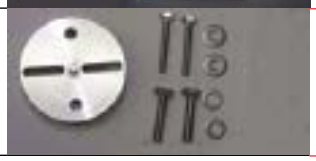
Transducer mounting kits

Universal kits

Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Rotary transducer mounting kit		For transducers XB-31010 and XB-39130 Including: Clamping base XB-39014 Flexible arm XB-39021 Holder for angular transducer XB-39022 Plastic transport case XB-39023 Adapter M6/6 2 Nuts M6 XB-39025 Adapter M8/6 2 Nuts M8 XB-39026 Adapter M10/6 2 Nuts M10 XB-39027 Adapter M12/6 2 Nuts M12 XB-39028	X	X	X	X	XB-51010
Universal transducer mounting kit		For linear and rotary transducers. Including: Magnetic base XB-39013 Clamping base XB-39014 Flexible arm XB-39021 Holder for angular transducer XB-39022 Plastic transport case XB-39023 Adapter M6/6 2 Nuts M6 XB-39025 Adapter M8/6 2 Nuts M8 XB-39026 Adapter M10/6 2 Nuts M10 XB-39027 Adapter M12/6 2 Nuts M12 XB-39028 Universal support XB-39029	X	X	X	X	XB-51020
AnaDig 100		Analog to Digital converter for transducers	X	X			XB-51050
Universal adapter for rotary transducer		Universal adapter to breaker and drive types HPL/BLG 3AP1FG	X	X	X	X	XB-51060

Circuit breaker specific kits

LTB Kit (ABB)		Incl. mounting kit XB-51010, Software conversion table BL-8730X	X	X	X		XB-61010
HPL/BLG Kit (ABB)		Incl. mounting kit XB-51010, Software conversion table BL-8720X	X	X	X		XB-61020
AHMA Kit (ABB)		3-Phase Diagnostic Set for ABB drive mechanism type AHMA 4/8	X	X	X		XB-61030
HMB Kit (ABB)		For drive mechanism type HMB 4/8 Three phase set complete in case 3 PES-HMB8 Transducers 3 GA-00055 Adapter cable 1 GD-00766 Alu transport case 3 Calibration Certificates	X	X	X		XB-61040

Ready-to-use kits – Rotary

Analog

1-phase kit		Incl. transducer XB-31010, mounting kit XB-51010	X	X	X	X	XB-71010
3-phase kit		Incl. 3 x 1-pase kits XB-71010	X	X	X		XB-71013

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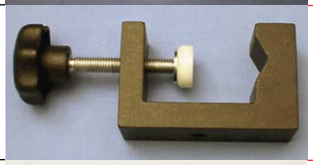
Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Digital							
1-phase kit		Incl. transducer XB-39130, mounting kit XB-51010	X	X			XB-71020
3-phase kit		Incl. 3 x 1-pase kits XB-71020	X	X			XB-71023
Transducer mounting accessories							
Thread adapter kit		Imperial / metrics adapter kit for TLH / TP1 1 nut metrics, M5 1 spacer nut, M5 / UNF 10-32 1 spacer nut, M5 / UNC 1/4-20 1 nut, UNF 10-32 1 nut, UNC 1/4-20	X	X	X	X	XB-39036
Distance screw		Metrics (M5) / metrics (M5) for TLH / TP1	X	X	X	X	XB-39160
Rod for digital transducer TP1		Rod for NOVOTECHNIC TP1, 300 mm (11.8”)	X	X	X	X	XB-39193
Switch magnetic base			X	X	X	X	XB-39013
Flexible arm			X	X	X	X	XB-39021
Holder for rotary/ angular transducer,			X	X	X	X	XB-39022
Clamping base			X	X	X	X	XB-39014
Flex coupling		For shaft diam. 6 mm (for Novotechnic IP6501)	X	X	X	X	XB-39030
Flex coupling		For shaft diam. 10 / 6 mm (for Baumer BDH)	X	X	X	X	XB-39032

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Other							
Timing clamp		Timing clamp for bolt head	X	X	X	X	53-31800
Cable organizer		Hook-and-loop straps, 10 pcs.	X	X	X	X	AA-00100
Long term monitoring		EPROM to be mounted in the TM1600					
LTM1		Starts measurement when there is a change at any of the time-measuring inputs			X		BL-80010
LTM2		Functions in the same way as a standard TM1600, but returns automatically to the READY state after measurement			X		BL-80011
VD401		Voltage divider, ratio 400/1 (for TM1600 and EGIL with analog channel)			X	X	BL-90070
Current		AC/DC clamp/clip-on/current probe, Fluke 80i-110s					
		Current sensor kit 1 channel (Fluke 80i-110s incl. cable GA-00140)	X		X		BL-90600
		Current sensor kit 3 channels 3 x (Fluke 80i-110s incl. cables GA-00140)	X		X		BL-90610
Temperature sensor		With the temperature sensor the ambient temperature is automatically recorded with each measurement and stored together with the test result. The temperature becomes a parameter in CABA Win. Suitable cable is the Analog cable, 10 m GA-01005. Range: -20°C to +50°C (-4°F to +122°F) Resolution: 0.5°C (0.9°F)	X				CG-90070
Thermopaper, for Fujitsu		114 mm, 30 m			X	X	GC-00030
		Box/24 pcs			X	X	GC-00032
Thermopaper		114 mm, Ø 40 mm	X				GC-00040
Soft case		Made from sturdy nylon fabric	X	X			GD-00340

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Item		Description	TM1800	TM1700	TM1600	EGIL	Art. No.
Ferrite kit		Accessory for timing of GIS circuit breakers using TM1800 with DualGround™ Including:	X	X			XB-40090

For more information about optional accessories please contact Megger

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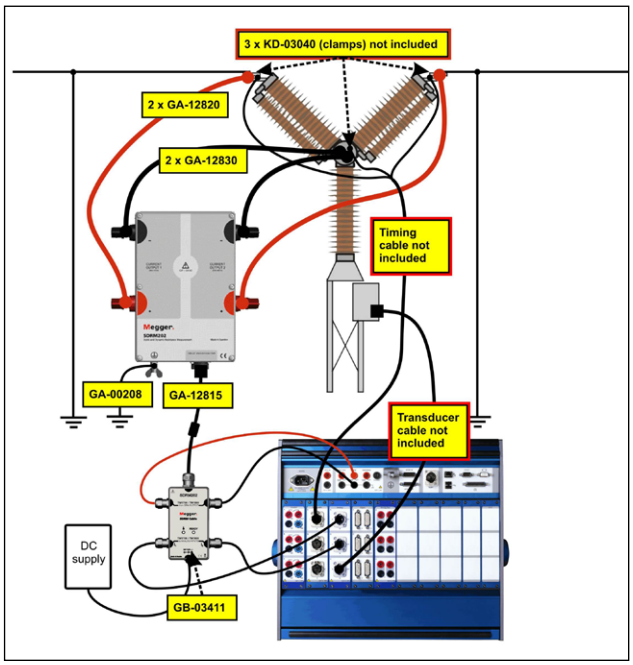
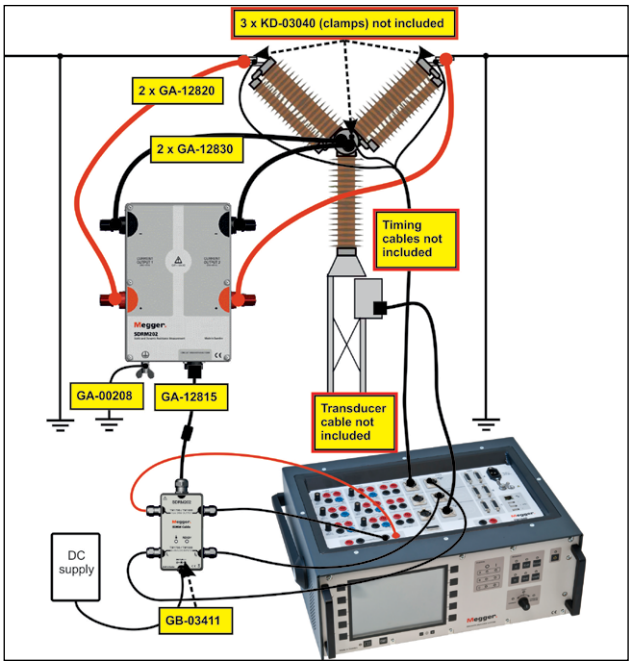
Connecting and mounting guidance

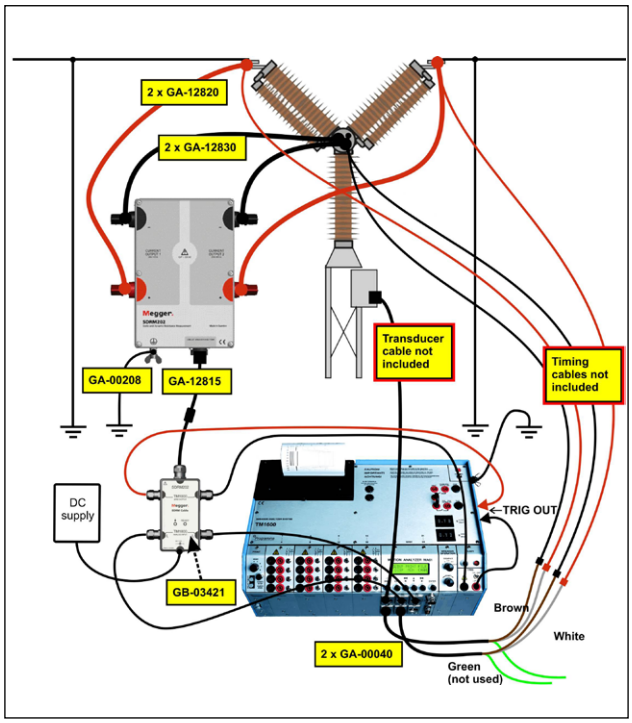
SDRM Hook-up examples and cable designations



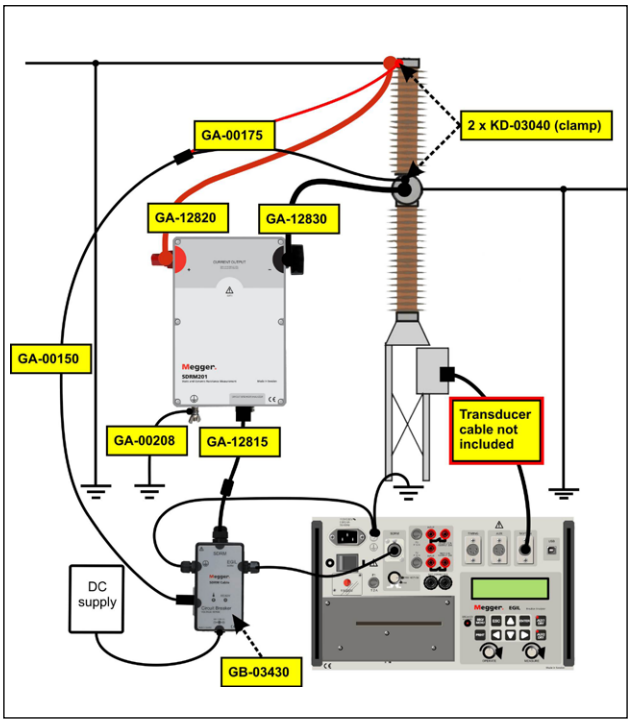
Timing cable is included with the TM1800 timing module. Transducer cable is selected together with the the type of transducer used.



Timing cable is included with the TM1700. Transducer cable is selected together with the the type of transducer used.



Timing cable is an optional accessory to TM1600. Transducer cable is selected together with the the type of transducer used.

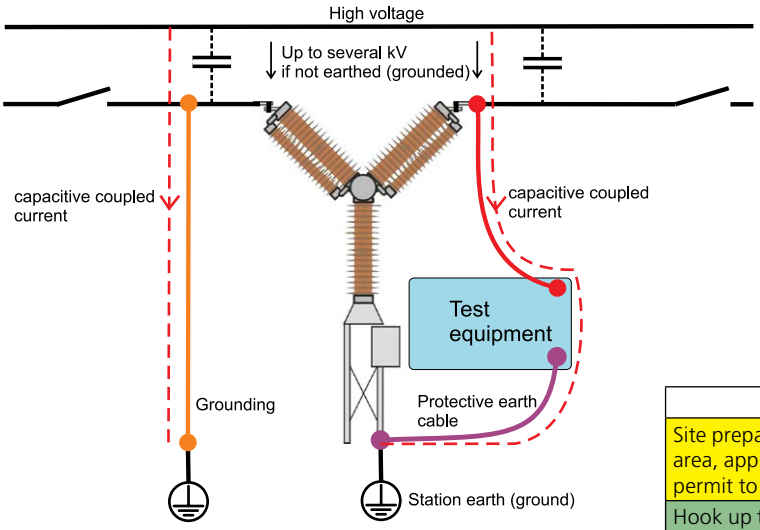


Transducer cable is selected together with the the type of transducer used.

DualGround - safe testing

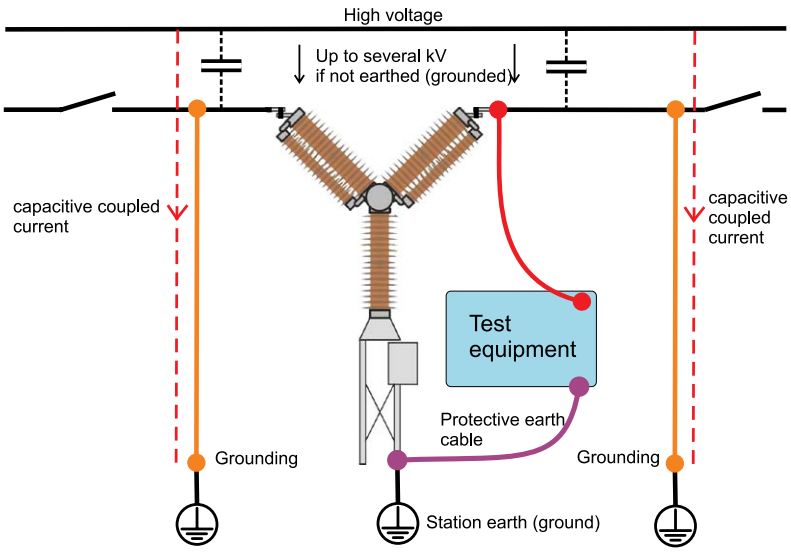
The best way to provide safety in circuit breaker testing is to keep both sides of the circuit breaker grounded throughout the test. This will also make the test faster and easier. Minimum time shall be spent in the substation and focus shall be on the test rather than the equipment.

One side grounded



Conventional vs. DualGround	
Site preparation (isolate work area, apply safety ground, issue permit to work)	Site preparation (isolate work area, apply safety ground, issue permit to work)
Hook up test equipment. Issue sanction for test	Hook up test equipment. Issue sanction for test
Authorised person removes the ground	Risky step left out
Perform testing	Safe testing with both sides grounded
Authorised person applies ground	Risky step left out
Cancel sanction for test. Disconnect test equipment	Cancel sanction for test. Disconnect test equipment
Site closing (cancel permit to work, disconnect ground)	Site closing (cancel permit to work, disconnect ground)

Both sides grounded



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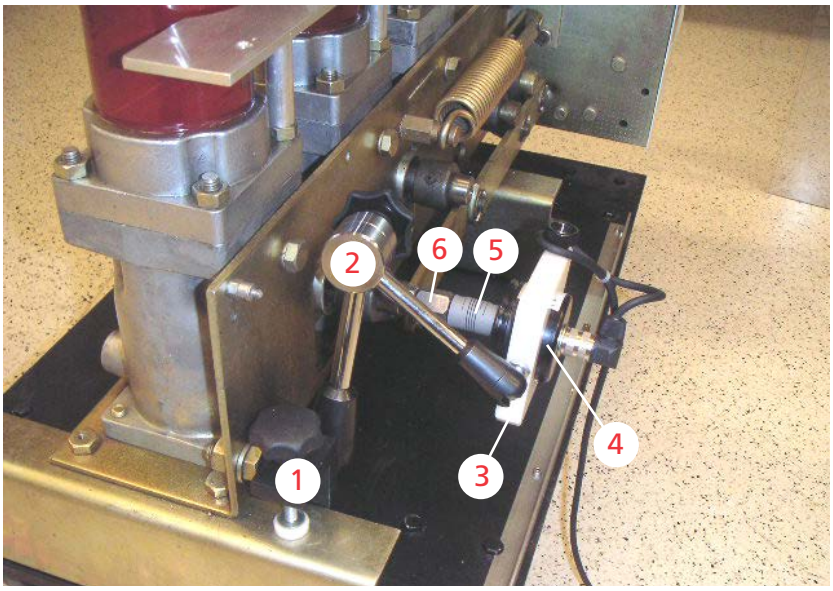
Transducer mounting examples

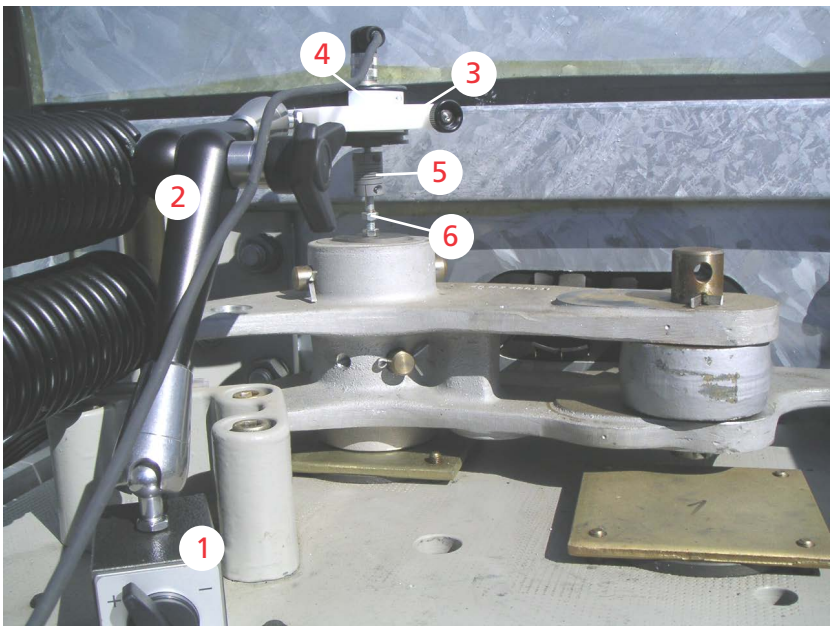
Analogue transducer mounted on a distribution circuit breaker

1. Clamping base
2. Flexible arm
3. Holder angular transducer
4. Novotechnik IP6501
5. Flex coupling
6. Bolt adapter



Digital transducer mounted on a distribution circuit breaker

1. Magnetic base
2. Flexible arm
3. Holder angular transducer
4. BAUMER BDH 16.05A10-L0-4
5. Flex coupling
6. Bolt adapter



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First trip measurement

When a fault occurs on a transmission or distribution line, it is the circuit breaker that fast and efficiently should clear the fault by opening the circuit, or to trip, and by that isolate the fault from the power source. A quick trip avoid or limit the damage to expensive equipment caused by the high fault currents. It might, in worst case, kill someone.

Why capture first trip

Testing circuit breakers can be done in many ways, but one of the most common is timing of the main contacts, which gives a direct indication of the trip time. A typical procedure for performing a timing test on a circuit breaker that is in service is:

1. Open the CB
2. Disconnect the CB by opening the disconnector switches
3. Ground the CB
4. Perform the timing test

Will the timing tests show the correct trip time? Well, not necessarily. Consider a circuit breaker that has been in service without operating for many months, even years, before it was taken out of service for testing. It might then be suffering from a lack of or dried grease and maybe corrosion in its bearings. These problems can, and most probably will, slow down the first operation.

The problem with this procedure is that the CB has been operated at least once before the testing procedure begins. This operation might be all it takes to "shake off" any corrosion problems or sticky bearings and bring the breaker's trip time up to standard. So when the actual timing test is performed, no problem exists and the service engineer thinks the breaker is in good shape and no further service is needed. Some moths later the corrosion is back and when a fault occurs the CB does not trip fast enough, or maybe not at all. This is why it is important to capture the first operation to reveal any problems with the CB.

Perform a first trip test

A good and time effective way to check the condition of a circuit breaker is to document its behavior at the first open operation after it has been idle for long time. The measurement and connections to the CB are carried out while it is still in service. The only way to measure the currents in a safe way is to use current clamps. For the coil current, either one or three clamps are needed depending on the number of operating mechanisms. These might need to be able to measure both AC and DC to cover all types of coils, however DC coils are the most common.

Using current clamps (AC) makes it possible to check the transition of the line currents to zero during the opening of the CB contacts as well as the synchronization of the opening times on the three phases.

The equipment needed for a first trip measurement depends on the configuration of the circuit breaker. All the connections are made inside the control cabinet.

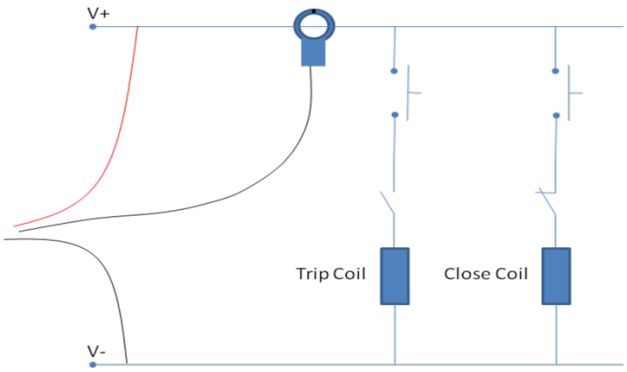

Figure 1. Point for measuring coil current and control voltage.

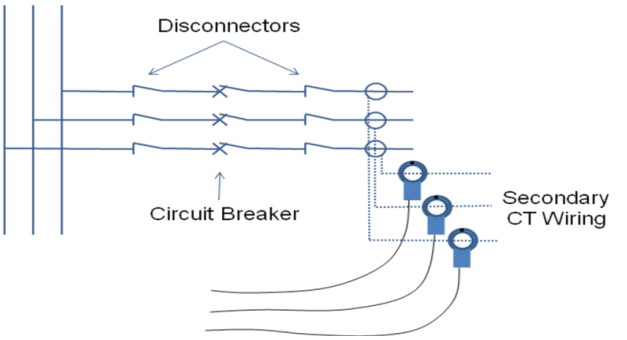

Figure 2. Points for measuring the line currents. Since the CB is in service, the conventional way with leads across the CB cannot be used. Instead, three current clamps are used on the secondary side of the current transformer for each phase.

For ordering information, see "First trip kit" on page 8.

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CB-Testing-Accessories_BR_EN_V03 | Subject to change without notice. Printed matter No ZI-AB03E | Doc. AB0081CE | 2015