

Megatiker M3 250 thermal magnetic with earth leakage circuit breakers MS3 250 trip-free switches with earth leakage

Cat.Nos: see in the relative tables



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1. USE

Megatiker M3 platform has been developed to give a new solution of protection devices for a more precise approach in power installations in order to offer the correct answer for different project needs.

Megatiker M3 platform provide a complete project approach in premium market segment, offering a range completely suitable for high power application with high performance breakers in compact dimensions and at a competitive costs.

2. RANGE

■ 2.1 Megatiker M3 250 thermal magnetic circuit breaker with earth leakage

Icu	36 kA	50 kA
In (A)	4P	
16	T734F16D	T734N16D
20	T734F20D	T734N20D
25	T734F25D	T734N25D
32	T734F32D	T734N32D
40	T734F40D	T734N40D
50	T734F50D	T734N50D
63	T734F63D	T734N63D
80	T734F80D	T734N80D
100	T734F100D	T734N100D
125	T734F125D	T734N125D
160	T734F160D	T734N160D
200	T734F200D	T734N200D
250	T734F250D	T734N250D

■ 2.2 Megatiker MS3 250 thermal magnetic circuit breaker with earth leakage

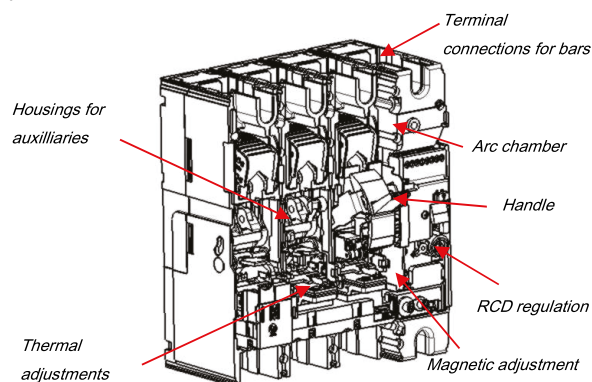
In (A)	4P
250	T734S250D

■ 2.3 Composition

Main parts constituting the circuit breaker

Megatiker M3 250 thermal magnetic with earth leakage circuit breakers is supplied with:

- 4 fixing screws
- 8 screws for connections
- 3 phase insulator



3. TECHNICAL CHARACTERISTICS

■ 3.1 Electrical characteristics

M3 250 thermal magnetic circuit breakers with earth leakage

Rated current (A)	16 A - 20 A - 25 A - 32 A - 40 A - 50 A - 63 A - 80 A - 100 A - 125 A - 160 A - 200 A - 250 A
Poles	4P
Pole pitch	35 mm
Rated insulation voltage (50/60Hz) Ui	500 V
Rated operating voltage (50/60Hz) Ue	500 V
Rated impulse withstand current Uimp	6 kV
Rated frequency	50 Hz to 60 Hz
Reference ambient temperature (°C)	40 °C to 50 °C
Operating temperature (°C)	-25 °C to 70 °C
Electrical endurance at In (cycles)	6000
Electrical endurance at 0.5 In (cycles)	6000
Utilization category	A
Suitable for isolation	Yes

Megatiker M3 250 thermal magnetic with earth leakage circuit breakers and MS3 250 trip-free switches with earth leakage

Cat.Nos: see in the relative tables

3. TECHNICAL CHARACTERISTICS (continued)

■ 3.1 Electrical characteristics (continued)

M3 250 thermal magnetic circuit breakers with earth leakage	
Type of protection	Thermal-magnetic
Thermal adjustment Ir	0,8 - 0,9 - 1 x In
Magnetic adjustment li (A)	400 A up to In=40A (not adjustable); 6,5-10-13 x In for In=50A; 5-7,5-10 x In up to =250A;
Neutral protection for 4P (%Ith of phase pole)	100
Earth leakage type	A - Integrated
Adjustable sensitivity (A)	0.03- 0.3 - 1 -3
Adjustable tripping (s)	0 - 0.3 - 1 - 3 (with 0.03 possible only 0s)
Reverse feed	Yes
M3 250 thermal magnetic trip-free switches with earth leakage	
Uninterrupted nominal current Ie (A)	250 A
Short-time resistive current Icw(kA) for 1s	3 kA
Rated short-circuit making capacity Icm (kA)	4.3 kA
Rated insulation voltage Ui (V AC)	500 V
Maximum rated operating voltage Ue (V AC)	500 (In=160 A - 200 A - 250 A) - 415 (In=225 A)
Rated impulse withstand voltage Uimp (kV)	8 kV
Utilisation category	AC22A (In=250A)
Suitable for isolation	Yes
Rated frequency	50 Hz to 60 Hz
Operating temperature (°C)	-25 °C to 70 °C
Electrical endurance at In (cycles)	6000
Electrical endurance at 0.5 In (cycles)	6000
Reverse feed	Yes

The maximum admissible (absolute) temperature is 125°C (for detail, see IEC 60947-1 and 60947-2).

Breaking capacity

IEC 60947-2	Ue	Icu	
		36 kA	50 kA
	220/240 V~	70	90
	380/415 V~	36	50
	440/460 V~	25	30
	480/500 V~	16	18
	Ics (% Icu)	100	
	Rated making capacity under short circuit Icm		
	Icm (kA) at 415 V	76.5	105

Rated current (In) at 40 °C / 50 °C

Phase limit trip current				
In (A)	Thermal (Ir)		Magnetic (Isd)	
	0.8 x In	1 x In	MIN	MAX
16	13	16	400	400
20	16	20		
25	20	25		
32	26	32		
40	32	40	325	650
50	40	50		
63	51	63		
80	64	80		
100	80	100	500	1 000
125	100	125	625	1 250
160	128	160	800	1 600
200	160	200	1 000	2 000
250	200	250	1 250	2 500

For neutral adjustment, please consider the values ratios 100% on set currents.

■ 3.2 Mechanical characteristics

Mechanical endurance (cycles): 12000
Mechanical endurance with motor control (cycles): 12000

Load operations

	Force on handle (N)
Opening operation	63.5
Closing operation	66
Restore operation	86.5

■ 3.3 Electrodynamic forces

The table below shows an indication of suggested distances to keep between the breaker and the first fixing point of the conductor and bars in order to reduce the effects of the electrodynamic stresses that may be created during a short circuit. In the realization of anchorage system it is recommend the use of isolators suitable for the type of conductor used and the operating voltage.

Icc (kA)	Maximum distance (mm)
36	350
50	300

According to conductor type and bar system (except Legrand bar kits), the choice of the distance to keep is to be calibrated by the installer. Also, the installer must take into account the weight of the conductors so that it does not affect the electrical junction between the conductor itself and the connection point.

3. TECHNICAL CHARACTERISTICS (continued)

■ 3.4 Power losses per pole under In (W)

Circuit breaker													
In (A)	16	20	25	32	40	50	63	80	100	125	160	200	250
Lugs	2.89	4.37	5.24	4.82	7.47	5.55	9.13	7.04	7.50	7.97	11.52	14.40	20.00
Cage terminals	2.90	4.38	5.26	4.85	7.52	5.62	9.24	7.21	7.77	8.39	12.22	15.49	21.70
Spreaders	2.90	4.38	5.26	4.86	7.52	5.63	9.26	7.24	7.82	8.47	12.34	15.68	22.00
Rear terminals	2.90	4.38	5.26	4.86	7.52	5.63	9.26	7.24	7.82	8.47	12.34	15.68	22.00

Note: power losses in the table above are referred and measured as described in the standard IEC 60947-2 (Annex G) for circuit-breakers.
Values in the table are referred to a single phase.

Trip-free switches	
In(A)	250
Cage terminals	14.58
Lugs	15.82
Spreaders	16.04
Rear terminals	16.04
Plug-in version	34.58

Note: power losses in the table above are referred and measured as described in the standard IEC 60947-3 for trip-free switches.
Values in the table are referred to a single phase.

4. INSTALLATION RULES

According to IEC/EN 60947-1.

Temperature deratings

Rated current and his adjustment has to be considered relating to a rise or fall of ambient temperature and to a different version or installation conditions. The table below indicates the maximum long-time (LT) protection setting depending on the ambient temperature.

Temperature Ta (°C)								
In (A)	0	10	20	30	40	50	60	70
16	18	17	17	16	16	16	15	14
20	22	22	21	20	20	20	19	17
25	28	27	26	26	25	25	23	21
32	35	35	35	33	32	32	30	27
40	44	43	42	41	40	40	37	34
50	55	54	53	51	50	50	47	43
63	69	68	67	64	63	63	59	54
80	88	86	86	82	80	80	74	68
100	110	108	105	102	100	100	93	85
125	138	135	131	128	125	125	116	106
160	176	173	168	163	160	160	149	136
200	258	244	230	215	200	200	180	170
250	322	305	287	269	250	250	225	213

For derating temperature with other configurations, see table below.

Megatiker M3 250 thermal magnetic with earth leakage circuit breakers and MS3 250 trip-free switches with earth leakage

Cat.Nos: see in the relative tables

4. INSTALLATION RULES (continued)

Derating temperature and configurations

Ambient temperature										
	30 °C		40 °C		50 °C		60 °C		70 °C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
Fixed version										
Cage terminals, flexible cable	250	1	250	1	250	1	225	0.90	213	0.85
Lugs, flexible cable							238	0.95	255	0.90
Spreaders, flexible cable										
Draw-out version										
Cage terminals, flexible cable	250	1	255	0.90	255	0.90	213	0.85	188	0.7

For further technical information, please contact BTicino technical support.

Climatic conditions: according to IEC/EN 60947-1 Annex Q, Cat. F subject to temperature, humidity, vibration, shock and salt mist.

Pollution degree: for Megatiker M3 250 circuit breakers, degree 3, according to IEC/EN 60947-2

Electromagnetic disturbances (EMC): for Megatiker M3 250 circuit breakers, according to IEC/EN 60947-2 Annex B

Altitude

Altitude derating for Megatiker M3 and MS3.

Altitude (m)	2000	3000	4000	5000
U _e (V)	500	430	380	330
I _n (A) (T _a = 40°C/50°C)	1 x I _n	0.98 x I _n	0.93 x I _n	0.9 x I _n

Megatiker M3 250 thermal magnetic with earth leakage circuit breakers and MS3 250 trip-free switches with earth leakage

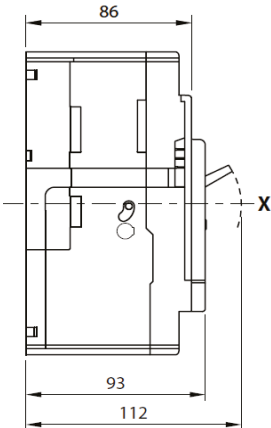
Cat.Nos: see in the relative tables

5. DIMENSIONS AND WEIGHT

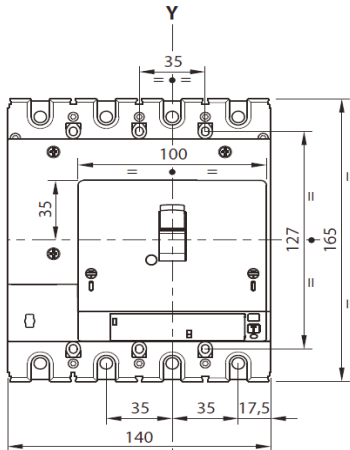
■ 5.1 Dimensions (mm)

4P (W x H x D): 140 x 165 x 86

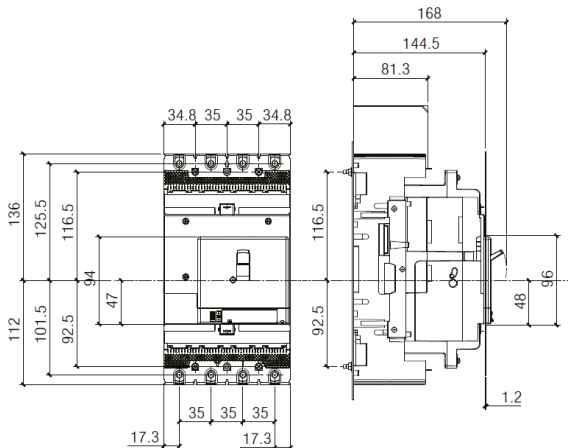
Lateral view



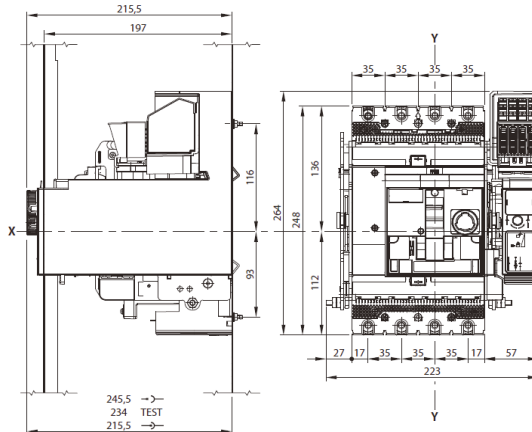
Frontal view



Plug-in version

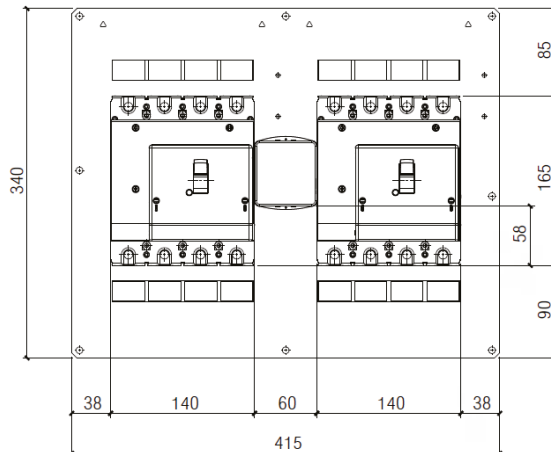


Draw-out version

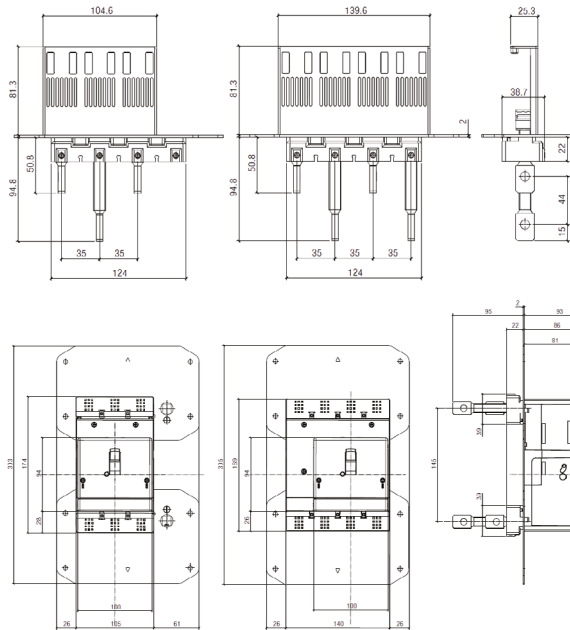


Interlock

For rear plate interlock dimension, see relative instruction sheet.



Rear terminals



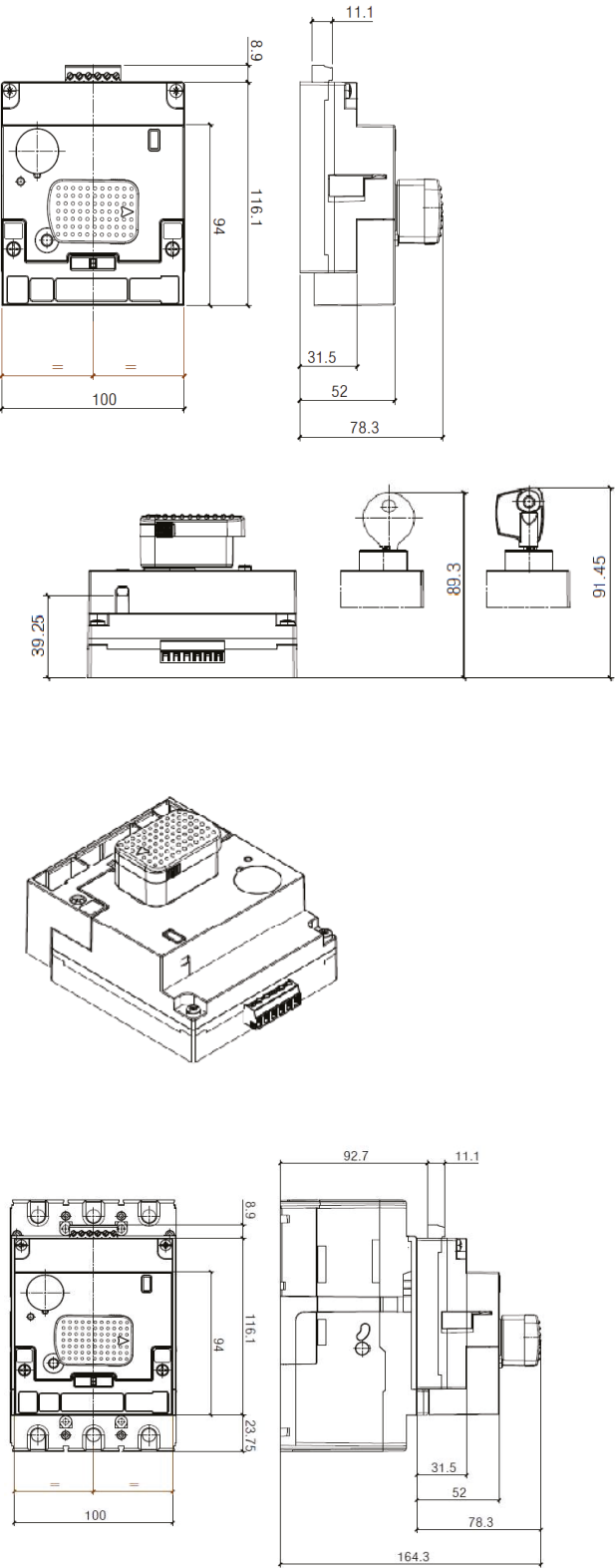
Megatiker M3 250 thermal magnetic with
earth leakage circuit breakers
and MS3 250 trip-free switches with
earth leakage

Cat.Nos: see in the relative tables

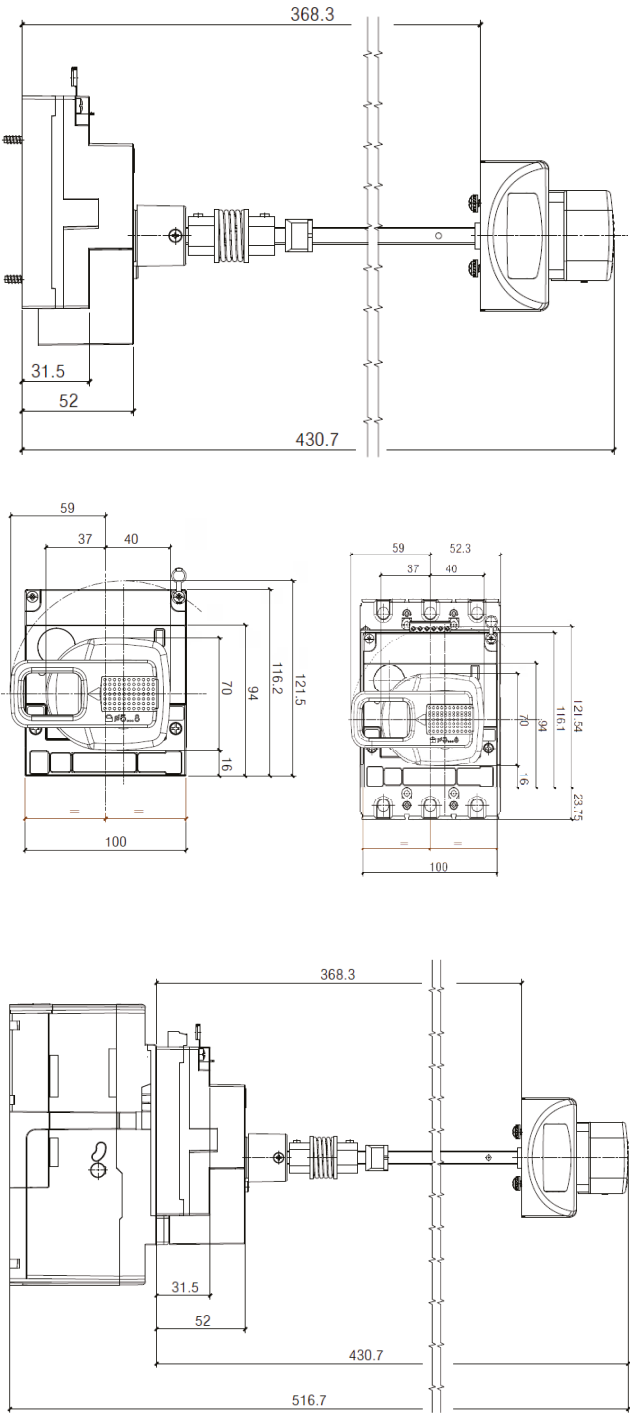
5. DIMENSIONS AND WEIGHT (continued)

■ 5.1 Dimensions (mm) (continued)

With direct rotary handle



With vary depth rotary handle



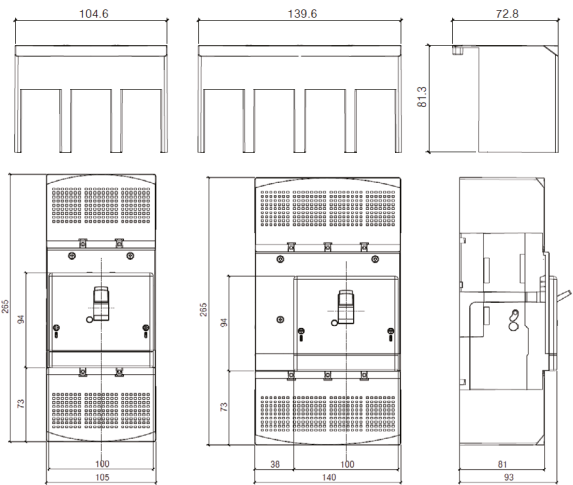
Megatiker M3 250 thermal magnetic with
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Cat.Nos: see in the relative tables

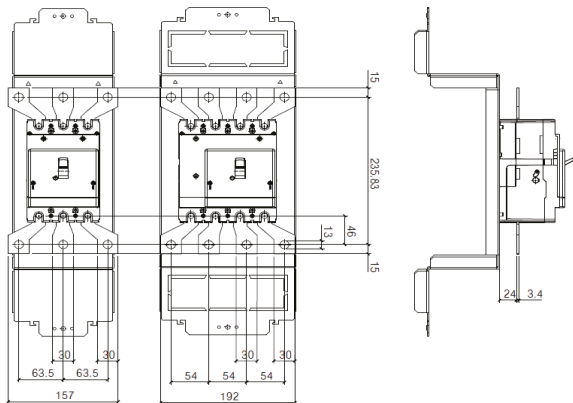
5. DIMENSIONS AND WEIGHT (continued)

■ 5.1 Dimensions (mm) (continued)

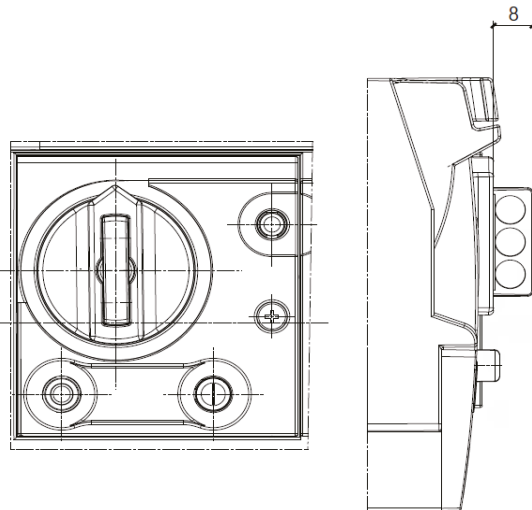
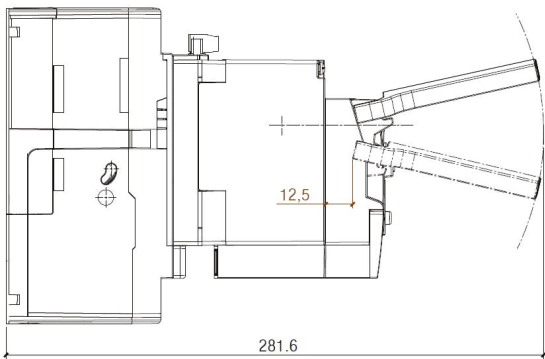
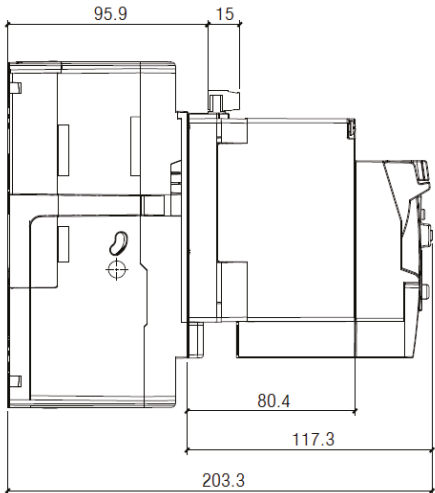
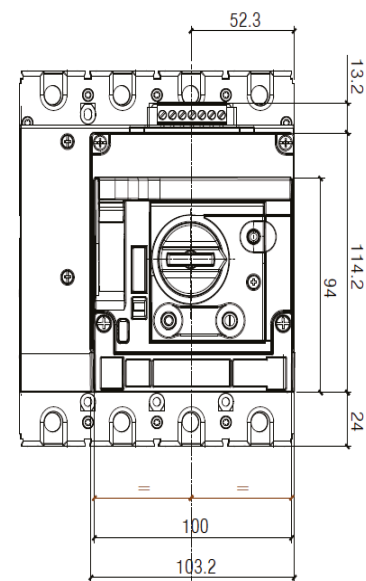
With sealable terminal shields



With spreaders



With motor operator



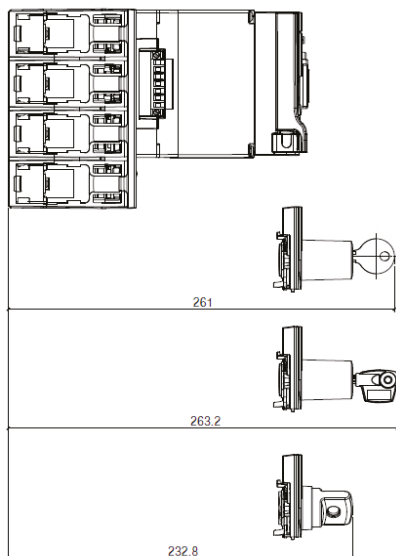
Megatiker M3 250 thermal magnetic with earth leakage circuit breakers and MS3 250 trip-free switches with earth leakage

Cat.Nos: see in the relative tables

5. DIMENSIONS AND WEIGHT (continued)

■ 5.1 Dimensions (mm) (continued)

With motor operator (continued)



■ 5.2 Weights

Weights (kg)	
Configuration	4P
Circuit breaker	2.6
Plug-in*	3.5
Draw-out**	2.5
Interlock*	0.35
Rear interlock (for plug-in/draw-out version)*	5
Motor operator*	1

*to add to device weight

**to add to device and plug-in weights

6. CONNECTIONS

Possible way of assembly on plate:

- vertical
- horizontal

To ensure the circuit breaker's connection, it is possible to use:

- busbars;
- cables lugs;
- spreaders;
- cage terminals.

For detailed mounting procedures, see instruction sheet.

7. EQUIPMENTS AND ACCESSORIES

■ 7.1 Releases

There are 3 types of releases (suitable for Megatiker M3 125/160/250 and DPX³ 160/250):

Shunt releases with voltage (ST)

12 V~/=	Cat.No M7S012
24 V~/=	Cat.No M7S024
48 V~/=	Cat.No M7S048
110 to 130 V~	Cat.No M7S110
220 to 277 V~	Cat.No M7S230
380 to 480 V~	Cat.No M7S415

Maximum power = 400 VA/W

Undervoltage releases with voltage (UVR)

12 V~/=	Cat.No M7U012
24 V~/=	Cat.No M7U024
48 V~/=	Cat.No M7U048
110 ÷ 130 V~/=	Cat.No M7U110
220 ÷ 240 V~	Cat.No M7U230
277 V~	Cat.No M7U277
380 ÷ 415 V~	Cat.No M7U415
440 ÷ 480 V~	Cat.No M7U480

Maximum power = 4 VA

Circuit breaker opening time < 50 ms

Undervoltage releases can be used on Megatiker M3 125/160/250 starting from batch 19W15.

Time-lag undervoltage releases (800 ms)

- Release	Cat.No M7000ME/024
to be equipped with a time-lag module :	
- 230 V~	Cat.No M7000MR/230
- 400 V~	Cat.No M7000MR/400

■ 7.2 Auxiliary contacts

Auxiliary contacts are used to show the state of the contacts or opening M1/ M2 and Megatiker M3 125/250 on a fault, using :

- Auxiliary contact (standard) OC
- Fault signal CTR

Auxiliary contacts assembly		
Voltage (Uc)	AC/DC	Current (A)
24	DC	5
48	DC	1.7
110	DC	0.5
110	AC	4
230	DC	0.25
230 ÷ 250	AC	3

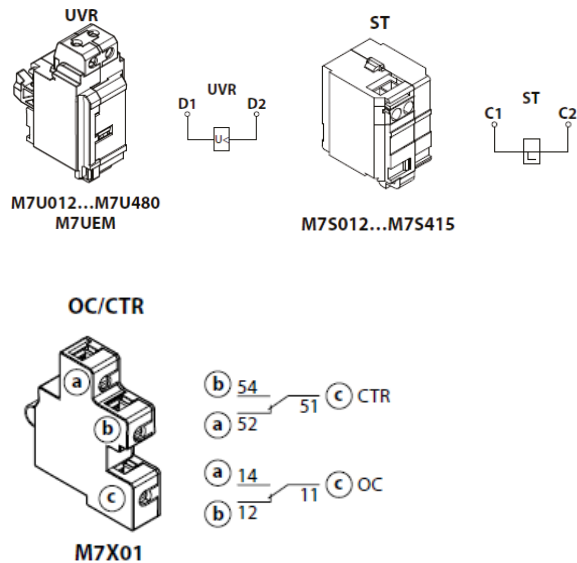
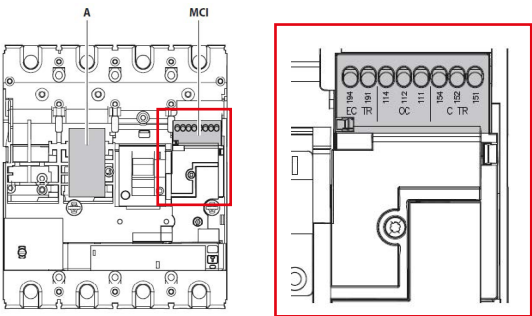
Megatiker M3 250 thermal magnetic with earth leakage circuit breakers and MS3 250 trip-free switches with earth leakage

Cat.Nos: see in the relative tables

7. EQUIPMENTS AND ACCESSORIES (continued)

7.2 Auxiliary contacts (continued)

Wiring diagrams to get to the auxiliary functionality:



To get more information on auxiliary mounting procedures, please refer to product instruction sheet.

7.3 Universal keylocks

These keylocks must be used for all the accessories that can be locked:

- rotary handle
- motor operator
- plug-in mechanism
- draw-out mechanism

For each of these, a specific accessory (indicated in the specific section of this data sheet) must be added in order to get the complete locking kits for the specific application.

- | | |
|--|--------------|
| - 1 lock + 1 flat key with random mapping | Cat.No M7K01 |
| - 1 lock + 1 flat key with fixed mapping (EL43525) | Cat.No M7K02 |
| - 1 lock + 1 flat key with fixed mapping (EL43363) | Cat.No M7K03 |
| - 1 lock + 1 star key with random mapping | Cat.No M7K04 |

7.4 Rotary handles

There are four types of suited rotary handles:

Direct on Megatiker (with auxiliary option and compatible MAS)

- | | |
|------------------------------------|--------------|
| - Standard (black) | Cat.No M7R24 |
| - For emergency use (red / yellow) | Cat.No M7R25 |

Vary depth handle IP55 (with auxiliary option and compatible MAS)

- | | |
|------------------------------------|--------------|
| - Standard (black) | Cat.No M7R26 |
| - For emergency use (red / yellow) | Cat.No M7R27 |

Locking accessories (for rotary handle with auxiliary option)

- | | |
|--|--------------|
| - Key lock accessory for direct rotary handle | Cat.No M7R30 |
| - Key lock accessory for vary depth rotary handle, also compatible with Megatiker M3 125/160 | Cat.No M7R31 |

Cat.Nos M7R30 and M7R31 must be used with universal keylocks to get the complete locking kit for rotary handle.

7.5 Motor operators

For synchronized operations (energy storage type):

- | | |
|-----------|---------------|
| - 24 V~/- | Cat.No M7M024 |
| - 48 V~/- | Cat.No M7M048 |
| - 110 V~ | Cat.No M7M110 |
| - 230 V~ | Cat.No M7M230 |

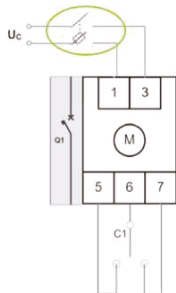
Technical parameters:

Voltage	Property	Alternative current		Direct current	
		Ope- ning	Clo- sing	Ope- ning	Clo- sing
24 V~/-	Maximum inrush power (VA)	75	430	55	320
	Rated power (VA)	45	-	20	-
	Absorption time (s)	2.8	0.01	3.3	0.01
	Operating current time (s)	1.1	0.03	1.2	0.03
48 V~/-	Maximum inrush power (VA)	85	1000	70	690
	Rated power (VA)	65	-	15	-
	Absorption time (s)	3.3	0.006	3.8	0.006
	Operating current time (s)	1.1	0.02	1.3	0.02
110 V~	Maximum inrush power (VA)	95	600	-	-
	Rated power (VA)	60	-	-	-
	Absorption time (s)	3	0.02	-	-
	Operating current time (s)	0.1	0.03	-	-
230 V~	Maximum inrush power (VA)	125	460	-	-
	Rated power (VA)	70	-	-	-
	Absorption time (s)	2.5	0.08	-	-
	Operating current time (s)	0.9	0.03	-	-

It is necessary to foresee a protection device (for example fuse) on the motor operator power line. Fuse characteristics depend on the motor version and on the number of users.

7.5 Motor operator (continued)

Schematic example:



Megatiker M3 250 thermal magnetic with earth leakage circuit breakers and MS3 250 trip-free switches with earth leakage

Cat.Nos: see in the relative tables

7. EQUIPMENTS AND ACCESSORIES (continued)

Locking accessory (for motor operator)

- Padlock (for motor operator locking) Cat.No M7M61
- Key lock accessory for motor operator Cat.No M7M60

Cat.No M7M60 must be used with universal keylocks to get the complete locking kit for motor operator.

■ 7.6 Mechanical accessories

- Padlock (for locking in "OPEN" position) Cat.No M7X02
- Cat.No M7X02 is compatible with Megatiker M1, M2 and M3125/160.

Sealable terminal shields

- Set of 3 (for 4P) Cat.No M7C23

Insulated shields

- Set of 3 (for 4P) Cat.No M7F02
- Cat.No M7F01/02 are also compatible with Megatiker M3 125/160.

■ 7.7 Connection accessories

Cage terminals

- Set of 4 terminals for 150 mm² max (rigid) or 120 mm² max (flexible) Cu/Al cables Cat.No M7X55

Cage terminal use specifications

Cable standard suggested cross section (mm ²)*			
Cage terminals Cat.No M7X55	In (A)	Cu	Al
	16	2.5	4
	20	2.5	4
	25	4	6
	32	6	10
	40	10	16
	50	10	16
	63	16	25
	80	25	35
	100	35	50
	125	50	70
	160	70	/
	200	95	/
	250	120	/

*The suggested cross section are in compliance with standard IEC60947-1 (ed.6 2020/04) and IEC60947-2 (ed.5.1 2019/07)

Dimensions limits of cable for cage terminals

Cage terminals Cat.No M7X55	Min cross section (mm ²)		Max cross section (mm ²)	
	Flexible	Rigid	Flexible	Rigid
	2.5	4	120	150

Note : when the cross-section exceeds the maximum value specified for the material in the table, the allowable current is limited to the indicated value.

Spreaders (incoming or outgoing)

- Set of 4 (for 4P) Cat.No M7A53

Rear terminals (incoming or outgoing)

- Set of 4 (for 4P) Cat.No M7A57

■ 7.8 Plug-in version

A plug-in is a Megatiker M3 250 fitted with special terminals and mounted on a plug-in base.

Bases

For plug-in and draw-out versions for Megatiker M3 250 and MS 250.

- Plug-in/draw-out base for 4P Cat.No M7B51
- Plug-in/draw-out mobile part kit for 4P Cat.No M7B53

Plug-in accessories

Locking accessory (for plug-in)

- Key lock accessory for plug-in Cat.No M7B64
- Cat.No M7B64 must be used with universal keylocks to get the complete locking kit for plug-in version.

■ 7.9 Draw-out version

A Megatiker M3 250 draw-out version is a plug-in Megatiker M3 250 fitted with a "Debro-lift" mechanism which can be used to withdraw the breaker while keeping it on its base.

"Debro-lift" mechanism

Supplied with a rigid slide and handle for drawing-out.

- Transformation kit for 4P Cat.No M7B55

Frontal masks for draw-out version

When using a "Debro-lift" mechanism, add the correct frontal mask according to the accessories associated with the "Debro-lift".

- Frontal module, with frontal mask (3P and 4P) Cat.No M7B60 (if motor operator or rotary handle is not fitted)
- Frontal mask for motor operator (3P and 4P) Cat.No M7B61

Locking accessory (for draw-out)

- Padlock for draw-out position Cat.No M7B66
- Key lock accessory for draw-out Cat.No M7B63

Cat.No M7B63 must be used with universal keylocks to get the complete locking kit for draw-out version.

Auxiliary contacts

- Automatic auxiliary contacts for draw-out version Cat.No M7B21
- 6 contact connectors (under sliding contacts) Cat.No F15/7500P6
- Cat.No F15/7500P6 can be used with both plug-in and draw-out version.

■ 7.10 Interlock mechanism

It is used for interlocking 2 Megatiker M3 250 circuit breakers.

It is not possible to use other accessories than those recommended below for interlocking 2 Megatiker M3 250.

- Interlock mechanism – standard version Cat.No M7I01 (for fixed version Megatiker M3 250)

- Interlock mechanism – for electronic module Cat.No M7I02 (for fixed version Megatiker M3 250)

- Interlock plate for Megatiker M3 250 Cat.No M7I05

- Rear interlock mechanism Cat.No M7I03 for Megatiker M3 250 plug-in and/or draw-out version
- When using a rear interlocking mechanism, use a maximum of 1 set of contact connectors Cat.No F15/7500P6.

Megatiker M3 250 thermal magnetic with
earth leakage circuit breakers
and MS3 250 trip-free switches with
earth leakage

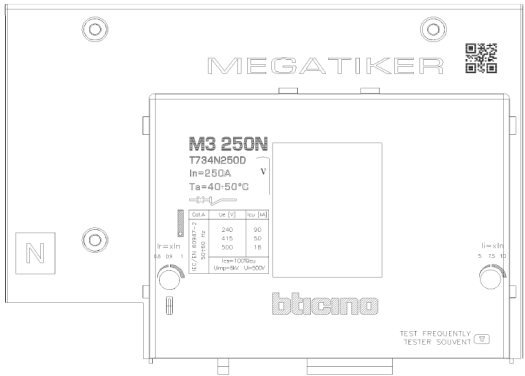
Cat.Nos: see in the relative tables

8. MARKING

Product (both circuit breakers and trip-free switches) are provided with labelling in full conformity to the referred standard and directives requirements by laser or sticker labels (for illustrative purposes only):

Product laser label on front

- Manufacturer responsible
- Denomination, type product, code
- Standard conformity
- Standard characteristics declared
- Coloured identification of Icu at 415 V



Product sticker label on side

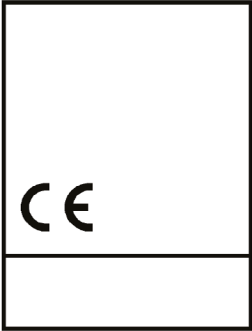
- Manufacturer responsible
- Denomination and type product
- Mark/Licence (if any)
- Directive requirements
- Bar code identification product
- Manufacturing Country



Mark sticker label on side

- Product code
- Mark/Licence (if any)
- Country deviation, if any

T734F250D



- Manufacturer responsible
- Denomination and type product
- Standard conformity
- Mark/Licence (if any)
- Directive requirements
- Bar code identification product

- Int. autom.+diff
 - MCCB+earth leakage
 - disjoncteur+diff.
 - interruptor aut.+dif
 - aut. schalter+diff.
 - MCCB + vazamento de terra
 - aut. schakelaar+diff
- M3 250F In 250A 4P**

BTicino SpA www.bticino.com
Viale Borri, 231 - 21100 Varese - Italy
Design & Quality by BTicino (Italy)

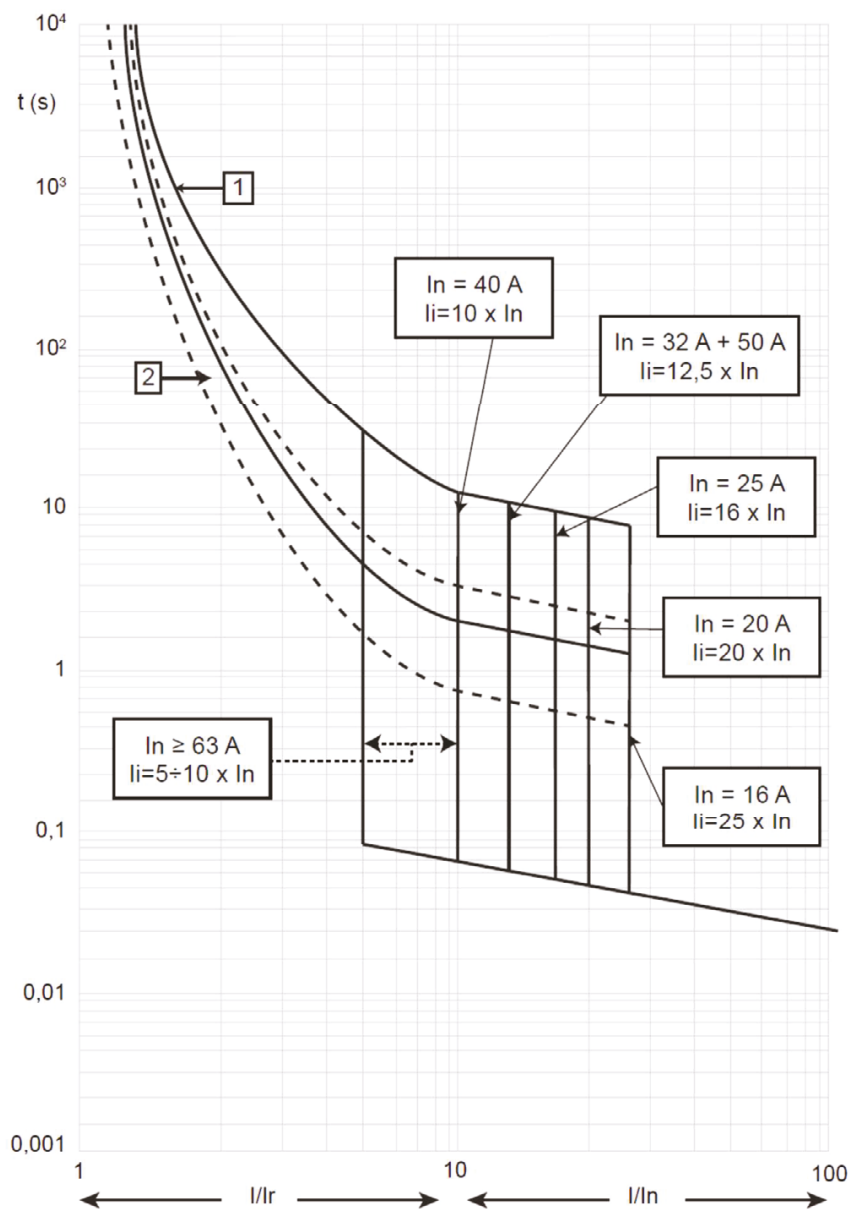
T734F250D
MEGATIKER



9. CURVES

■ 9.1 Thermal magnetic tripping curve

Update: 11/06/2019



Icu = 36-50-70-100 kA

I_{max} = 250 A

4P

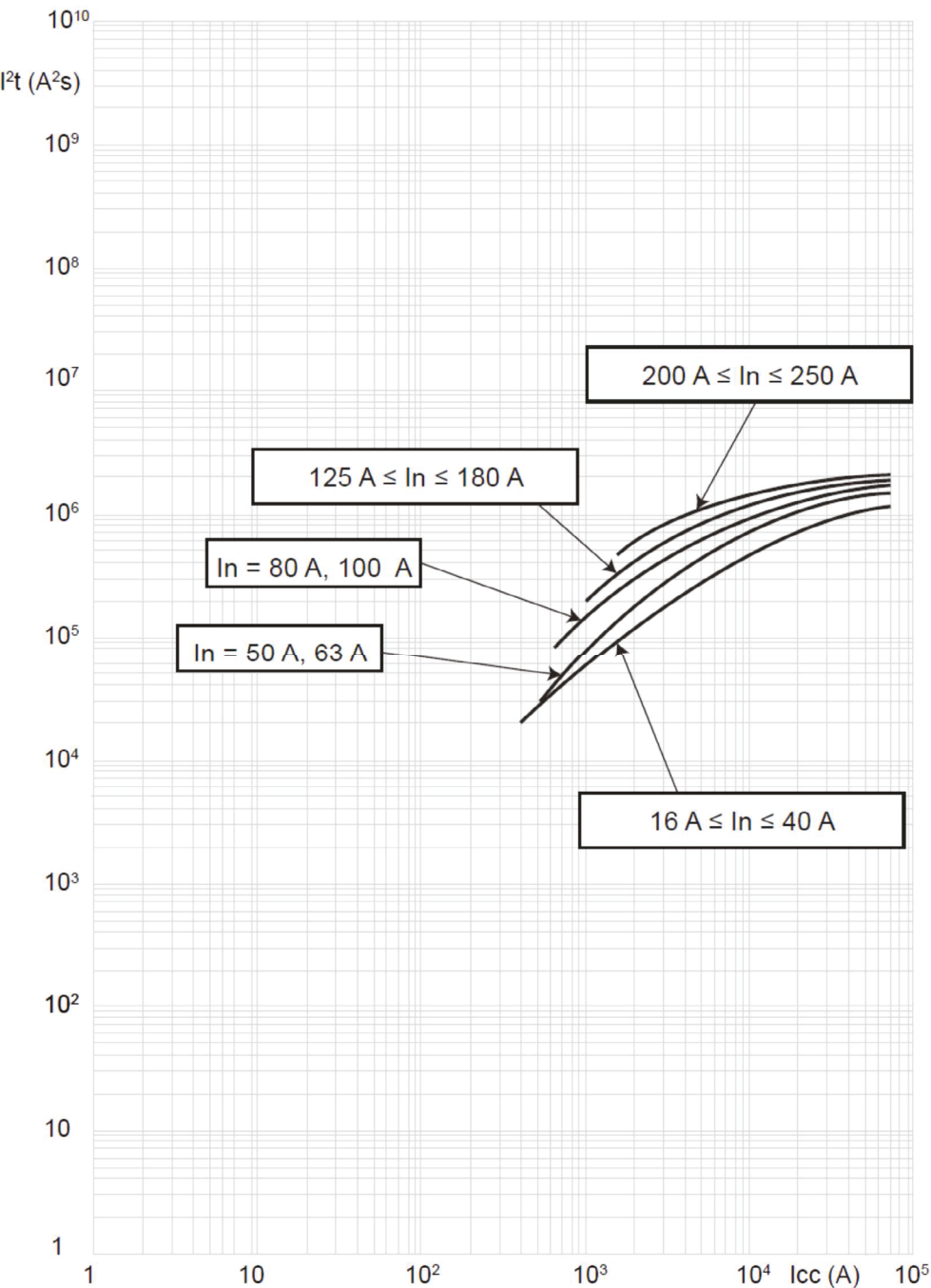
U_e = 415 V~ (IEC/EN 60947-2)

Value	Description
t	time
I	current
I _n	rated current
I _r	long time setting current
curve 1	characteristic with cold start
curve 2	characteristic with hot start

9. CURVES (continued)

■ 9.2 Pass-through specific energy characteristic curve

Update: 11/06/2019



Icu = 36-50 kA

I_{max} = 250 A

4P

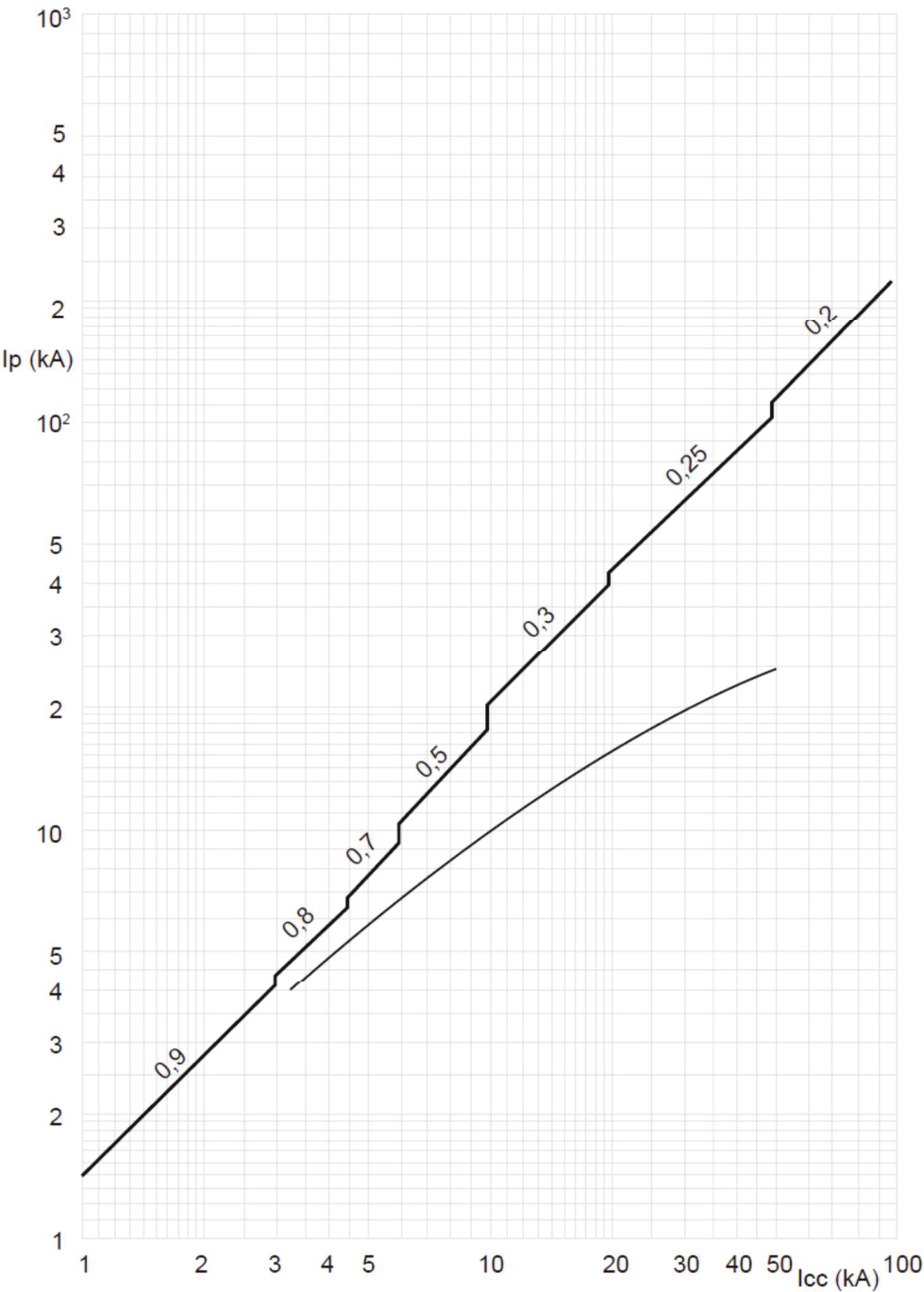
U_e = 415 V~ (IEC/EN 60947-2)

Value	Description
I _{cc}	short circuit current
I ² t (A ² s)	pass-through specific energy

9. CURVES (continued)

■ 9.3 Cut-off peak current characteristic curve

Update: 30/08/2019



I_{cu} = 36-50 kA

I_{max} = 250 A

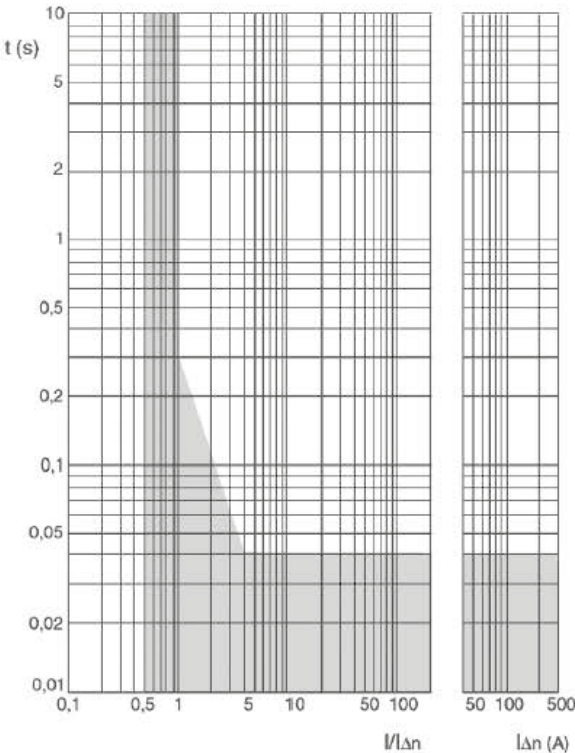
3P-4P

U_e = 415 V~ (IEC/EN 60947-2)

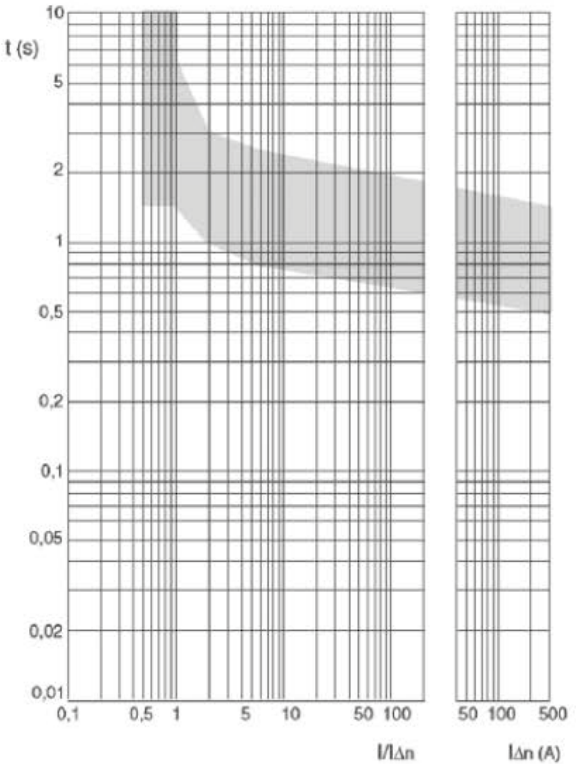
Value	Description
I_{cc}	estimated short circuit symmetrical current (RMS value)
I_p	maximum short circuit peak current

9. CURVES (continued)

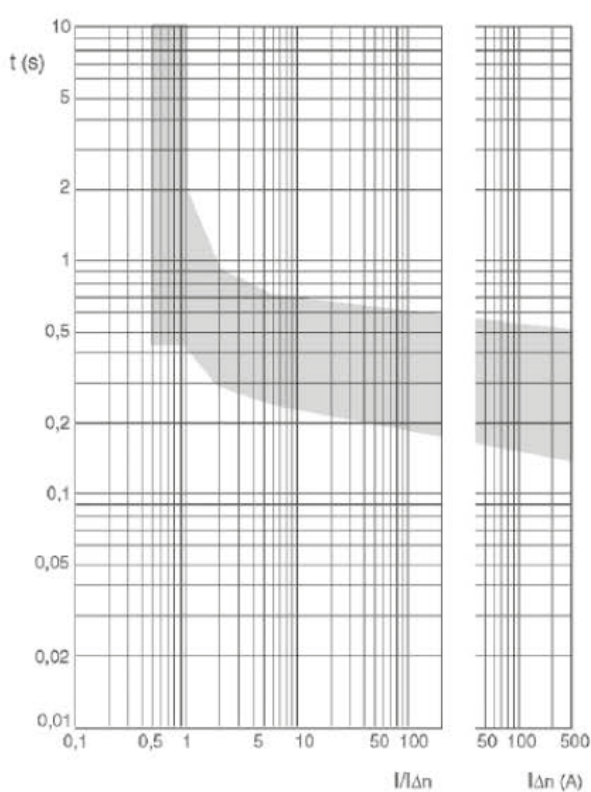
■ 9.4 Earth leakage curves, Instantaneous



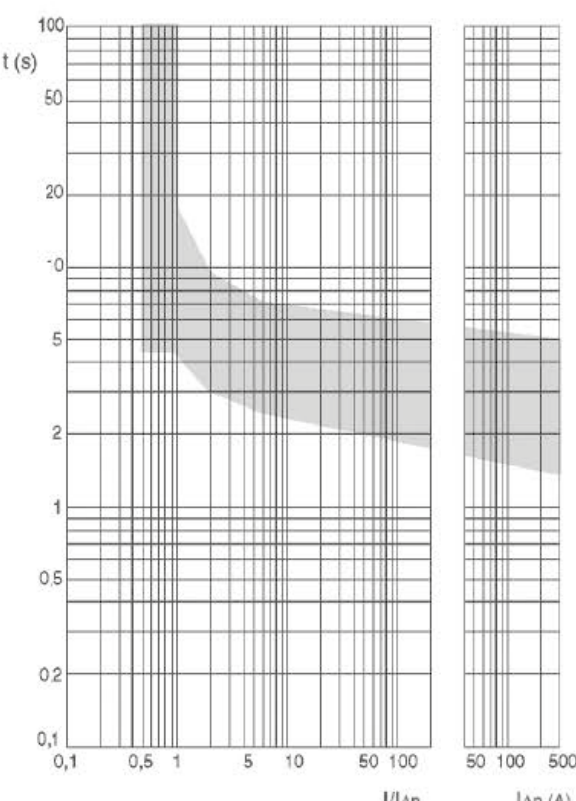
■ 9.6 Earth leakage curves, time delay = 1 S



■ 9.5 Earth leakage curves, time delay = 0.3 S



■ 9.7 Earth leakage curves, time delay = 3 S



10. STANDARDS AND REGULATIONS

Megatiker M3 250 thermal magnetic range of product concerning circuit-breakers exceed compliance with:

- IEC/EN standard 60947-2.
- Certification available by IECEE CB-scheme or LOVAG Compliance scheme.

They respect the European Directives :

RoHS: Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH: The substances identified as SVHC (Substances of Very High Concern) according to the REACH Regulation (1907/2006), if present in the products at a concentration above 0.1% weight by weight, are declared inside the European SCIP database. At the date of publication of this document none of the substance listed in the annex XIV is found in this product.

WEEE: WEEE Directive (2012/19/EU): the sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste

Packaging: Design and manufacture of packaging compliant with European Directive 94/62/CE.

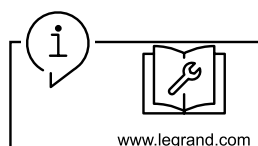
For specific information, please contact BTicino support.

11. OTHER INFORMATION

XLPro Calcul: Calculation notes creation software, addressed to installers, design office and maintenance operators. Definition of the electrical characteristics of a low voltage installation in compliance with the applicable standards

XLPro3 Tool Selectivity Backup / Legrand Selectivity and backup: Software dedicated to installers, panelbuilders and design offices. Definition of the selectivity and backup values of an association of electrical devices and obtention of the tripping curves of the selected products.

XLPro Panels: Distribution panel design software, addressed to panelbuilders and electrical panel designers. Design of the electrical distribution of the panel, production of electrical diagrams, establishment of products and overall costing of the project.



Workshop book: mounting informations, equipments, accessories and spare parts available on e-catalog.

Instruction sheet: detailed mounting procedures, available on e-catalog.

PEP: available on e-catalog.

For further technical information, please contact BTicino technical support.

Unless otherwise indicated, data reported in this document refers exclusively to test conditions according to product standards.

For different conditions of use of the product, inside electrical equipment or in any different installation context, refer to the regulatory requirements of the equipment, local regulations and design specifications of the system.