

Megatiker M3 250 thermal magnetic circuit breakers with earth leakage Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :

T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

T734S250D;



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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

Circuit breakers

I _n (A)	Megatiker M3 250 + earth leakage	
	36 kA	50 kA
	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

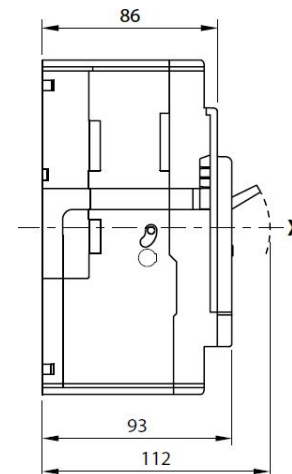
Switch disconnectors

Megatiker MS3 250 + earth leakage	
I _n (A)	4P
250	T734S250D

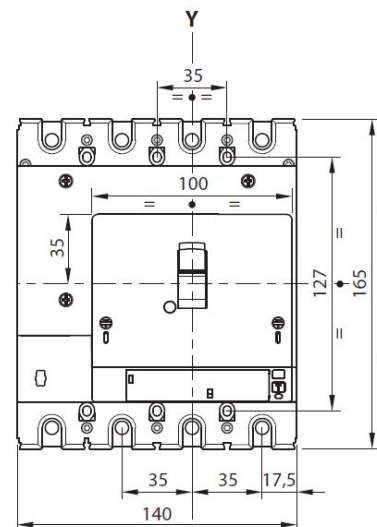
3. DIMENSIONS AND WEIGHTS

3.1 Dimensions

Lateral view



Frontal view



Megatiker M3 250 thermal magnetic circuit breakers with earth leakage
Megatiker MS3 250 switch disconnectors with earth leakage

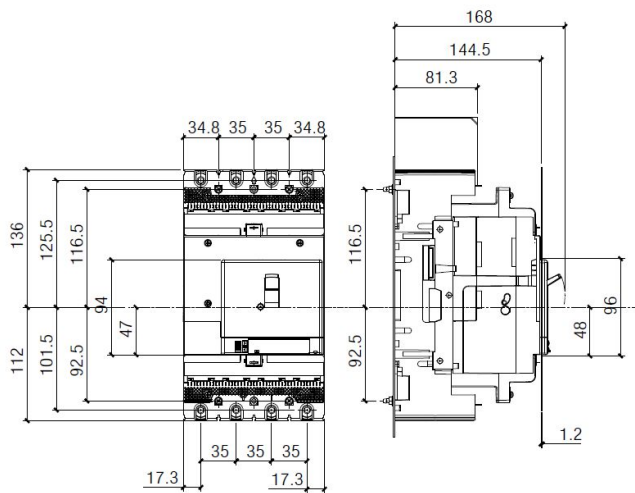
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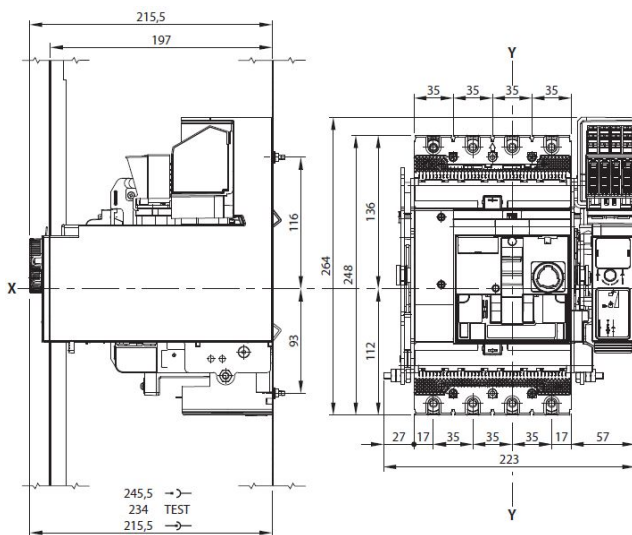
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T734S250D;

Plug-in version

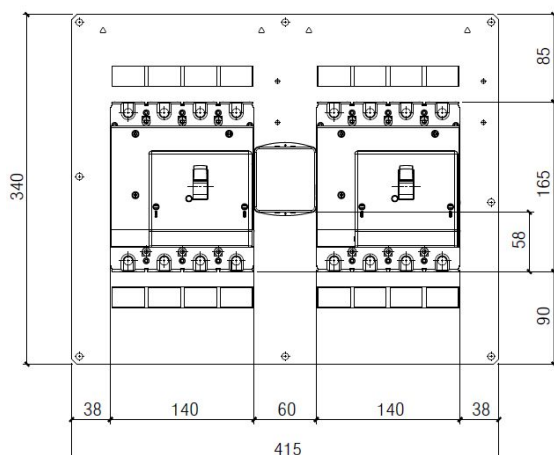


Draw-out version

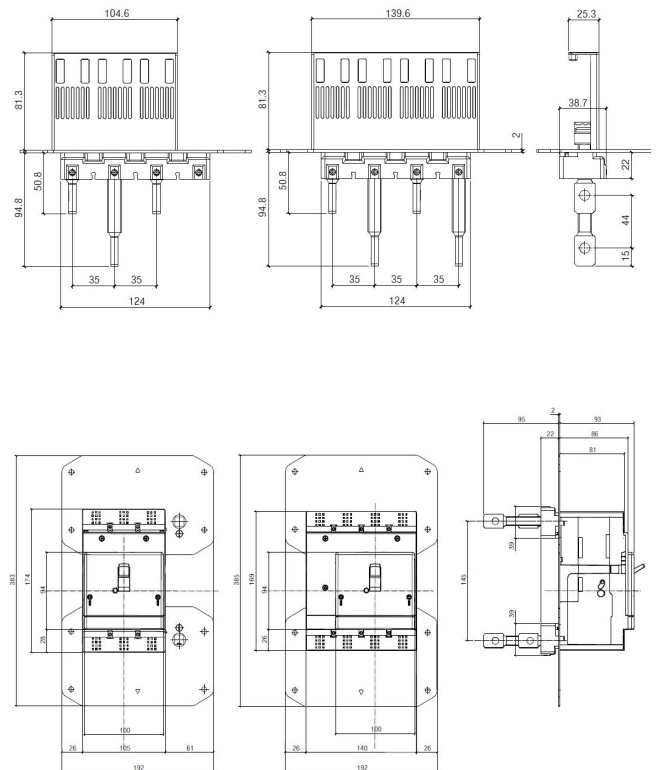


Interlock

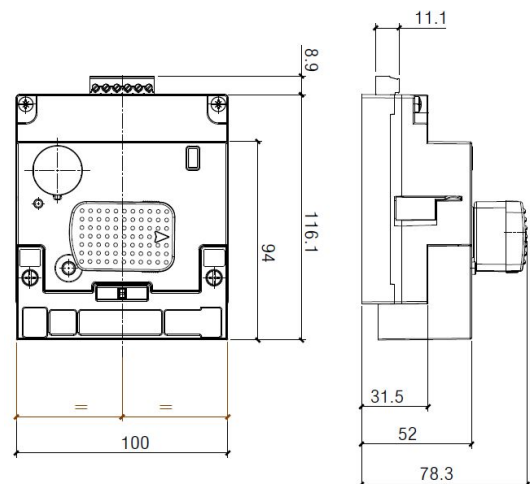
(for rear plate interlock dimension, see relative instruction sheet)



Rear terminals



Direct rotary handle



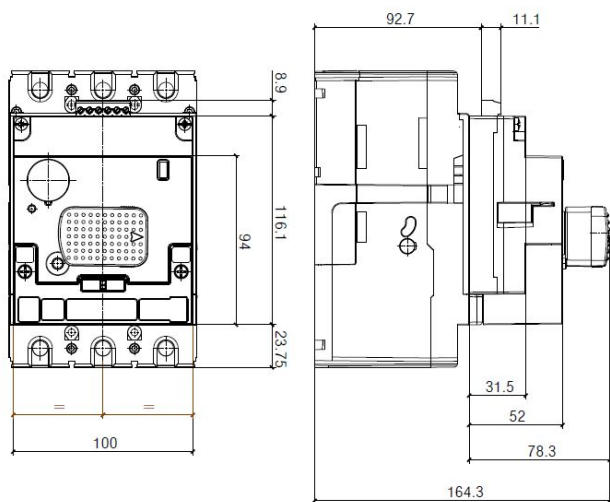
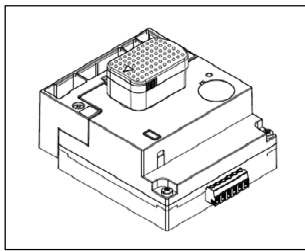
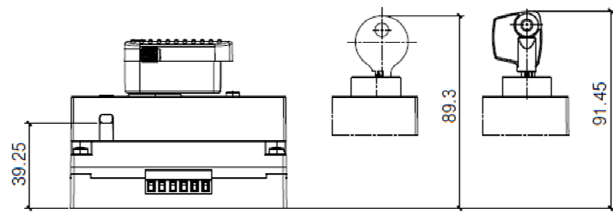
Megatiker M3 250 thermal magnetic circuit breakers with earth leakage **Megatiker MS3 250 switch disconnectors with earth leakage**

Reference(s) :

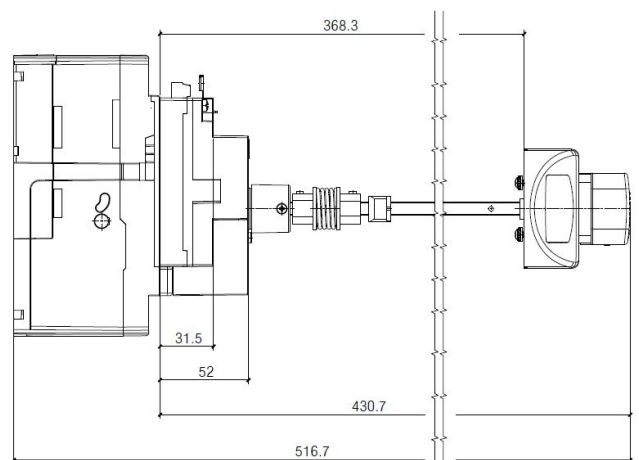
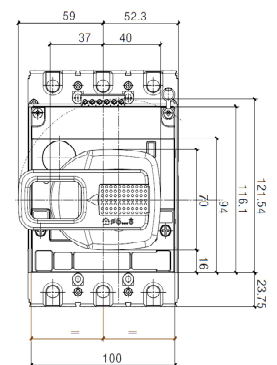
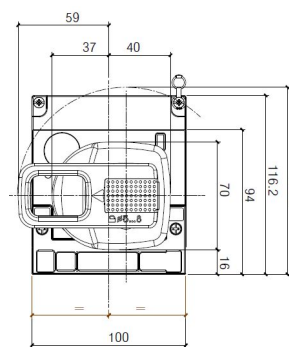
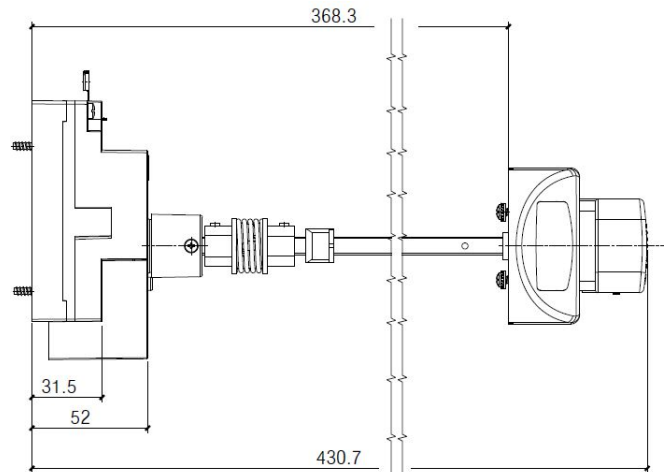
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T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

T734S250D;



Vari-depth rotary handle



Megatiker M3 250 thermal magnetic circuit breakers with earth leakage

Megatiker MS3 250 switch disconnectors with earth leakage

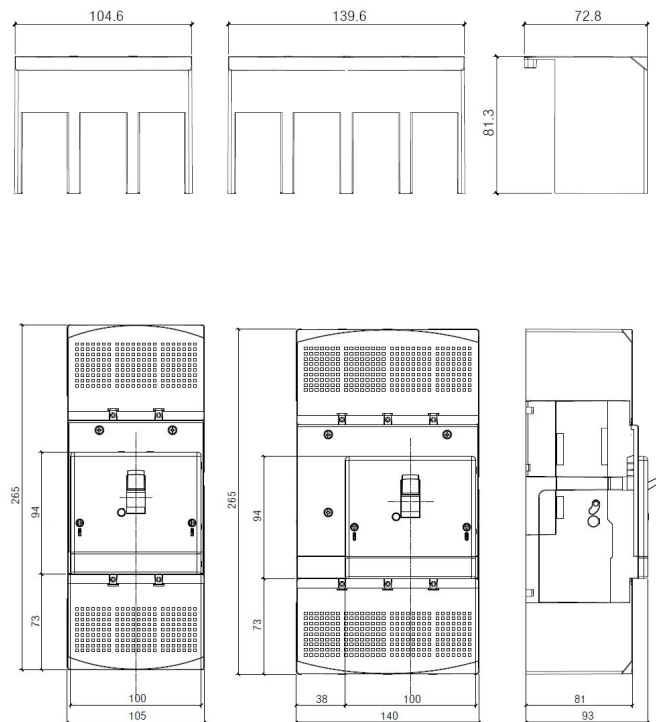
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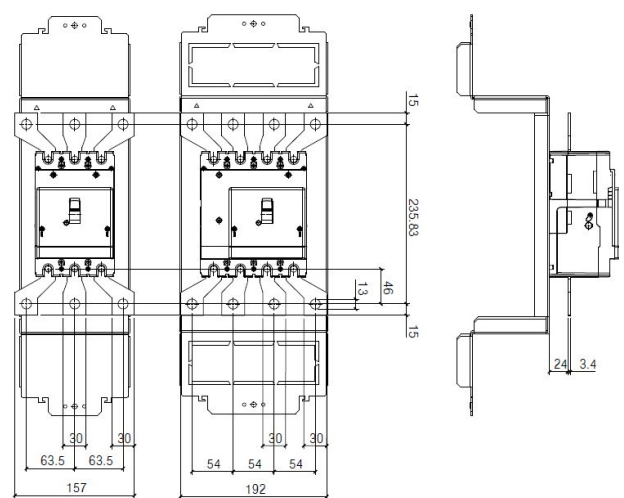
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T734S250D;

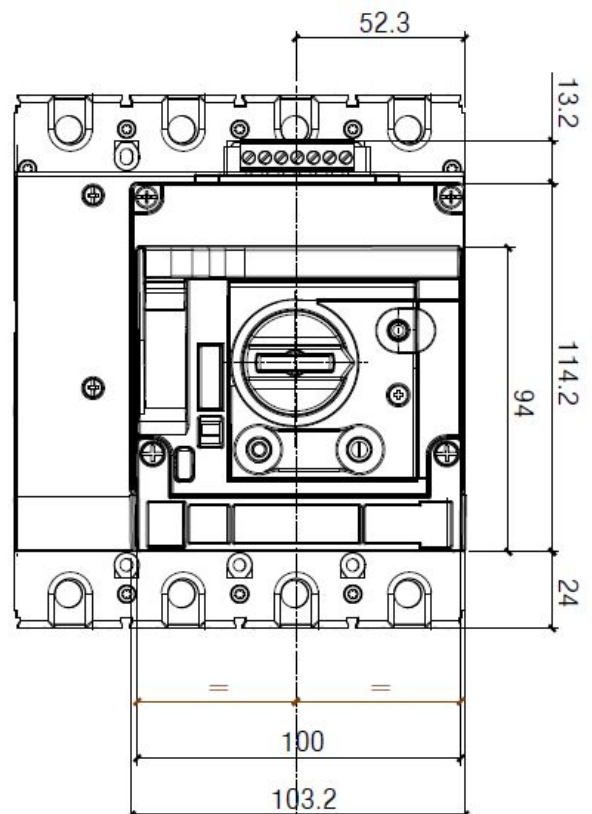
Sealable terminal shields



Spreaders



Motor operator



Megatiker M3 250 thermal magnetic circuit breakers with earth leakage

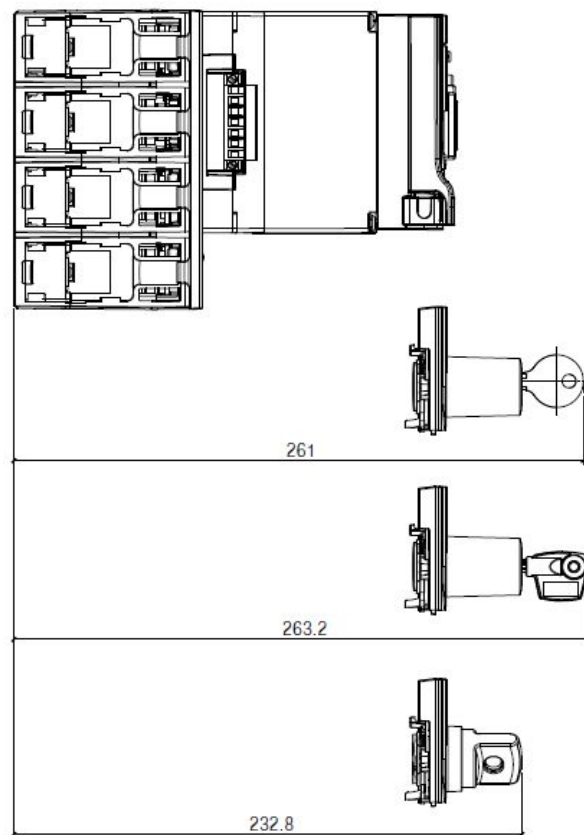
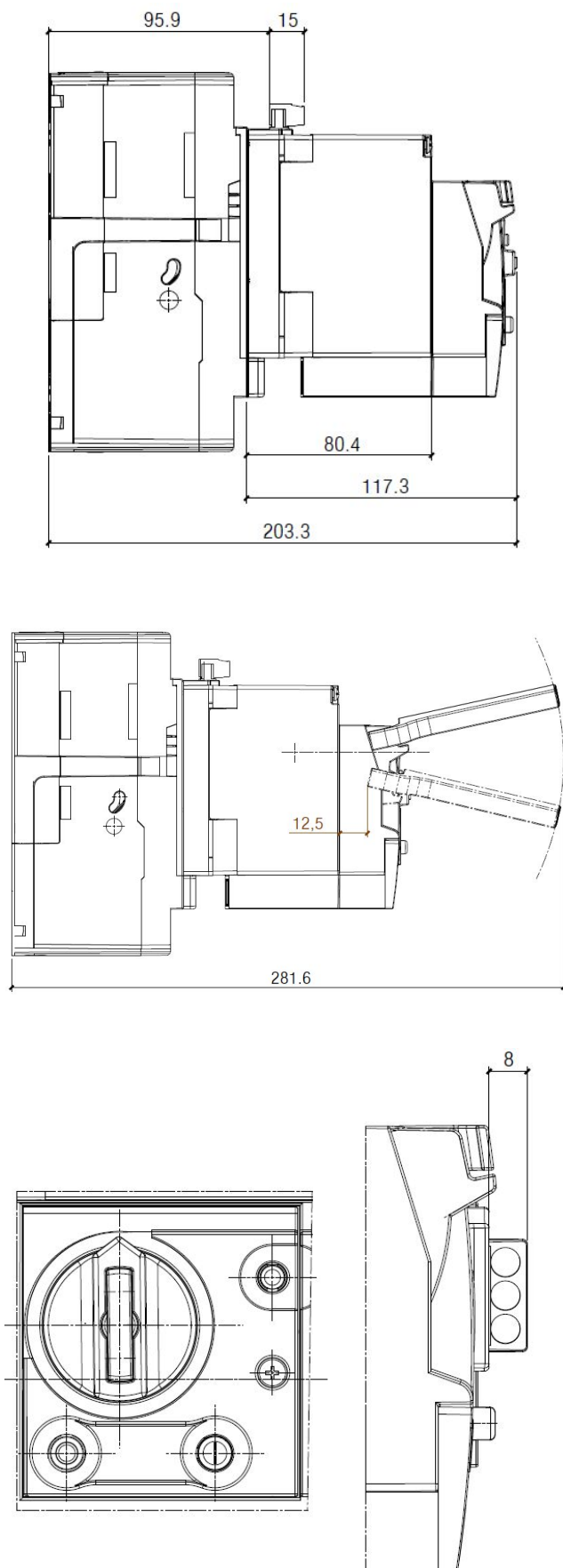
Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :

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T734S250D;



3.2 Weights

Configuration	Weights (Kg)
Circuit breaker/switch disconnector	4P
Plug-in*	2.6
Draw-out**	3.5
Interlock*	2.5
Rear interlock (for plug-in/draw-out version)*	0.35
Motor operator*	5
* to add to device weight	1
* to add to device and plug-in weights	

4. OVERVIEW

4.1 Supplied with:

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

5. ELECTRICAL CONNECTIONS

5.1 Mounting possibilities

On plate:

- Vertical
- Horizontal
- Supply inverter type

Megatiker M3 250 thermal magnetic circuit breakers with earth leakage

Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :

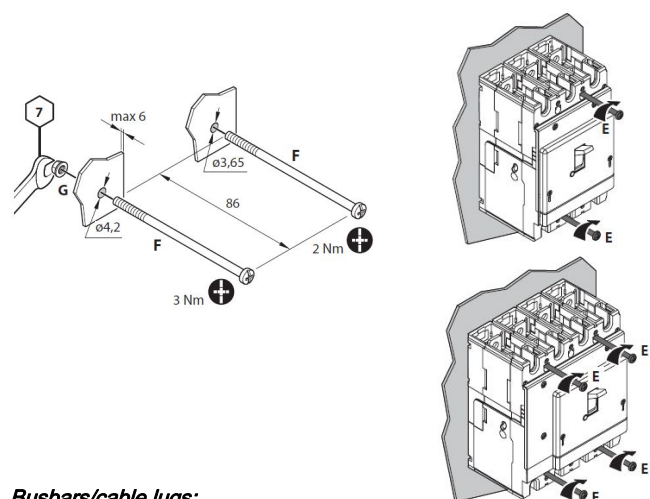
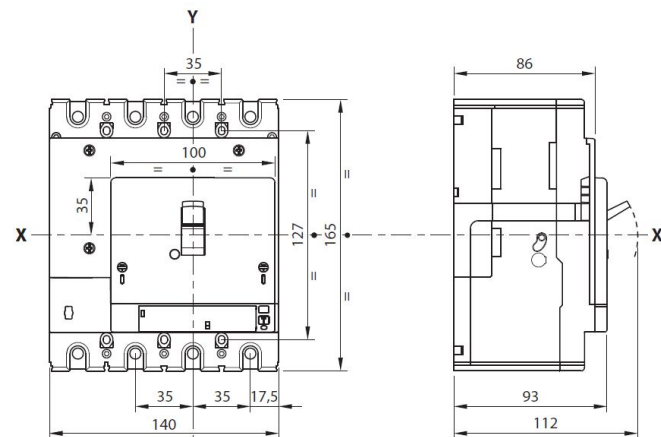
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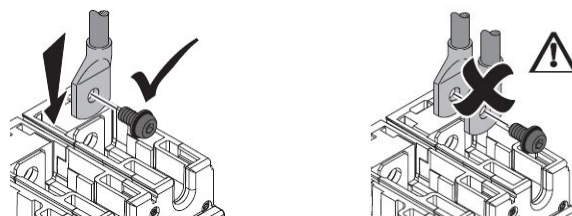
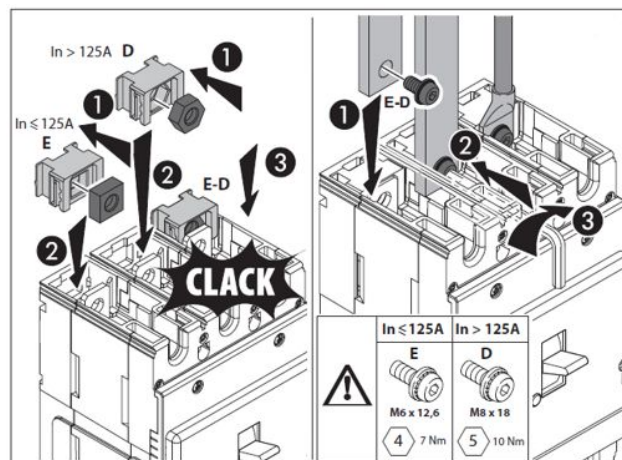
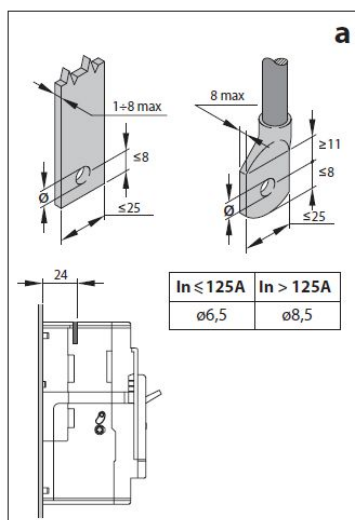
T734S250D;

5.2 Mounting

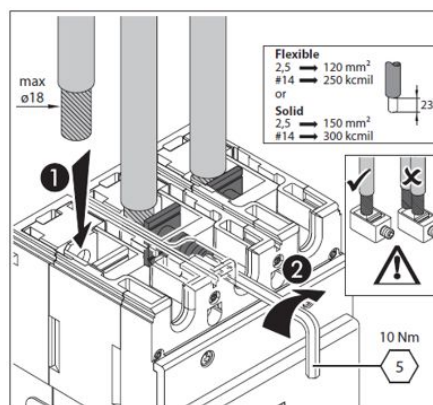
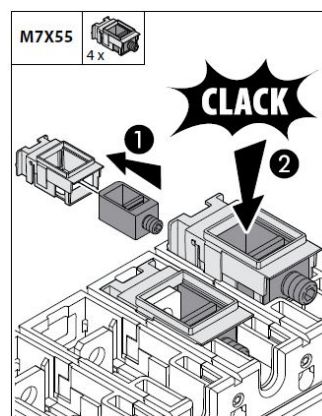
(see instruction sheet for detailed mounting procedures)



Busbars/cable lugs:



Cables:



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T734S250D;

6. ELECTRICAL AND MECHANICAL CHARACTERISTICS

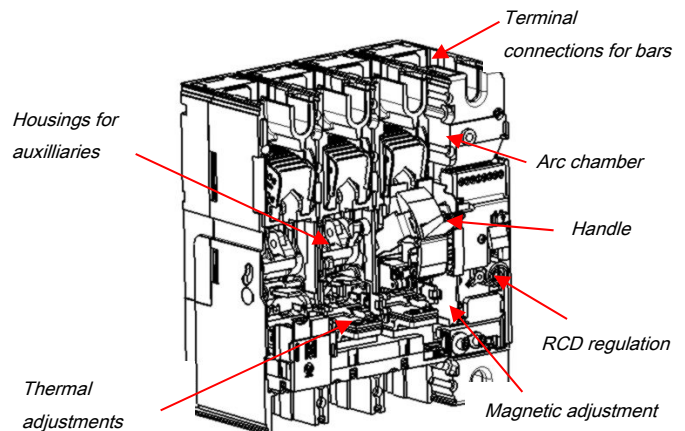
Circuit breaker

Circuit Breaker	Megatiker M3 250 + RCD F/N (38kA, 50kA)
Rated current (A)	16-20-25-32-40-50-63-80-100-125-160-200-250
Poles	4
Pole pitch (mm)	35
Rated insulation voltage (50/60Hz) U_i (V)	500
Rated operating voltage (50/60Hz) U_n (V)	500
Rated impulse withstand current U_{imp} (kV)	6
Rated frequency (Hz)	50 - 60
Reference ambient temperature (°C)	40 - 50
Operating temperature (°C)	-25 + 70
Mechanical endurance (cycles)	12000
Mechanical endurance with motor control (cycles)	12000
Electrical endurance at I_n (cycles)	6000
Electrical endurance at 0.5 I_n (cycles)	6000
Utilization category	A
Suitable for isolation	Yes
Type of protection	Thermal-magnetic
Thermal adjustment I_t	0.8 - 0.9 - 1 x I_n
Magnetic adjustment I_m (A)	400 A up to $I_n=40A$ (not adjustable); 6.5-10-13 x I_n for $I_n=50A$; 5-7.5-10 x I_n up to $\approx 250A$;
Neutral protection for 4P (% I_{sc} 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)
Dimensions (W x H x D) (mm)	140 x 165 x 86 (4P)

Switch disconnectors

Switch	Megatiker MS3 250
Uninterrupted nominal current I_n (A)	250
Short-time resistive current I_{sc} (kA) for 1s	3
Rated short-circuit making capacity I_{sm} (kA)	4.3
Rated insulation voltage U_i (V AC)	500
Maximum rated operating voltage U_n (V AC)	500 (@ AC22A) - 415 (@ AC23A)
Rated impulse withstand voltage U_{imp} (kV)	8
Utilisation category	AC22A ($I_n=250A$)
Suitable for isolation	Yes
Nominal frequency (Hz)	50-60
Operating temperature (°C)	-25 + 70
Mechanical endurance (cycles)	12000
Mechanical endurance with motor control (cycles)	12000
Electrical endurance at I_n (cycles)	6000
Electrical endurance at 0.5 I_n (cycles)	6000
Dimensions (W x H x D) (mm)	140 x 165 x 86 (4P)

6.1 Main parts constituting the circuit breaker



6.2 Breaking capacity (kA)

		Breaking capacity (kA) & I_{cs}	
		4P	
IEC 60947-2	U_e/I_{cu} (I_{cu} letter)	36kA (F)	50kA (N)
	220/240 V AC	70	90
	380/415 V AC	36	50
	440/460 V AC	25	30
	480/500 V AC	16	18
	$I_{cs}(\% I_{cu})$	100	100
NEMA AB-1	Rated making capacity under short circuit I_{cm}		
	I_{cm} (kA) at 415V	76.5	105
	220/240 V AC	70	90
	480/500 V AC	16	18

6.3 Rated current (I_n) at 40°C / 50°C

I_n (A)	Phases limit trip current			
	thermal (I_t)		magnetic (I_m)	
	0.8 x I_n	1 x I_n	min	max
16	13	16	400	400
20	16	20	400	400
25	20	25	400	400
32	26	32	400	400
40	32	40	400	400
50	40	50	325	650
63	51	63	315	630
80	64	80	400	800
100	80	100	500	1000
125	100	125	625	1250
160	128	160	800	1600
200	160	200	1000	2000
250	200	250	1250	2500

6.3 Load operations

Force on handle	N
Opening operation	63,5
Closing operation	66
Restore operation	86,5

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Megatiker MS3 250 switch disconnectors with earth leakage

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T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734S250D;

6.4 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.

I _{cc} (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 installer must take into account the weight of the conductors so that this does not affect the electrical junction between the conductor itself and the connection point.

6.5 Power losses per pole under I_n

Circuit breaker

In (A)	Power losses per pole (W)												
	16	20	25	32	40	50	63	80	100	125	160	200	250
Cage terminals	3.29	4.91	5.87	5.49	8.44	6.33	10.39	7.94	8.55	14.00	12.98	16.38	23.33
Lugs	3.01	4.49	7.01	5.02	7.71	5.78	9.49	7.25	7.81	12.79	11.86	14.96	21.31
Spreaders	2.53	3.78	4.52	4.22	6.49	4.87	7.99	6.11	6.58	10.77	9.98	12.6	17.95
Rear terminals	3.1	4.63	5.54	5.17	7.95	5.97	9.79	7.48	8.06	13.19	12.23	15.43	21.99

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.

Switch disconnectors

	Power losses per pole (W)
	I _n (A)
	250
Cage terminals	14.84
Lugs	13.55
Spreaders	11.41
Rear terminals	13.98

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

6.6 DERATINGS

according to IEC/EN 60947-1

6.6.1 Temperature

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.

I _n (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 A.

6.6.2 Specific condition use

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

6.6.3 Altitude

Altitude derating for Megatiker M3 250 with RCD

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

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7. CONFORMITY

Megatiker M3 range of product concerning circuit-breakers and switch-disconnectors exceed compliance with the IEC/EN standard 60947-2 and 60947-3 respectively. Certification available by IECEE CB-scheme or LQVAG Compliance scheme.

Megatiker M3 respect the European Directives REACH, RoHS, RAEE.

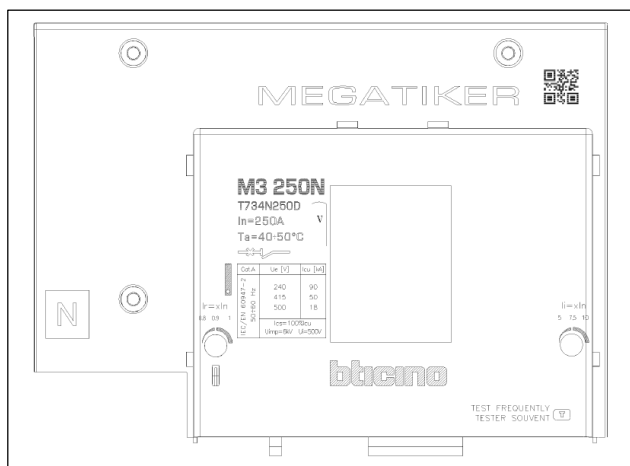
For specific information, please contact Legrand support.

7.1 Marking

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

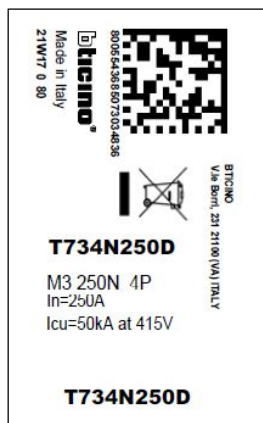
Product laser label on front

- Manufacturer responsible
- Denomination, type product, code
- Standard conformity
- Standard characteristics declared
- Coloured identification of I_{cu} at 415V



Product sticker label on side

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



Reference(s) :

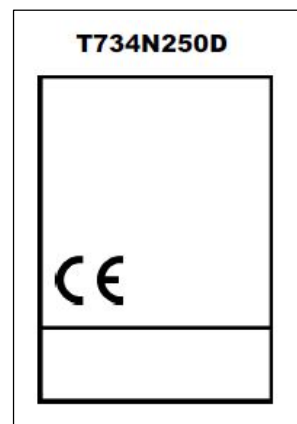
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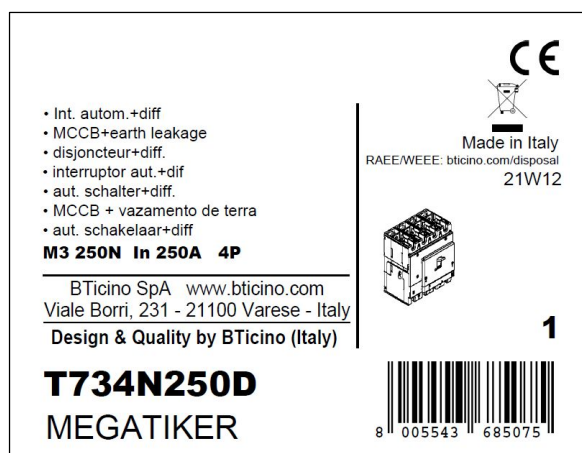
Mark sticker label on side

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



Packaging sticker label

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



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T734S250D;

8. EQUIPMENTS AND ACCESSORIES

8.1 Releases (for DPX³ 125/250 HP and DPX³ 160/250)

- shunt releases with voltage:

12 Vac and dc
24 Vac and dc
48 Vac and dc
110÷130 Vac
220÷277 Vac
380÷480 Vac

ref. M7S012

ref. M7S024

ref. M7S048

ref. M7S110

ref. M7S230

ref. M7S415

Maximum power = 400 VA / W

- undervoltage releases with voltage:

12 Vac and dc
24 Vac and dc
48 Vac and dc
110÷130 Vac and dc
220÷240 Vac
277 Vac
380÷415 Vac
440÷480 Vac

ref. M7U012

ref. M7U024

ref. M7U048

ref. M7U110

ref. M7U230

ref. M7U277

ref. M7U415

ref. M7U480

Maximum power = 4 VA

Circuit breaker opening time < 50 ms

UVR releases can be used on Megatiker M3 125/250 starting from batch 19W15

- time-lag undervoltage releases (800 ms)

Time-lag modules with voltage:

230 V ac
400 V ac

ref. M7000MR/230

ref. M7000MR/400

Release

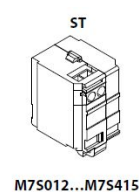
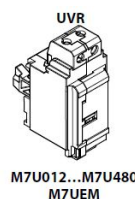
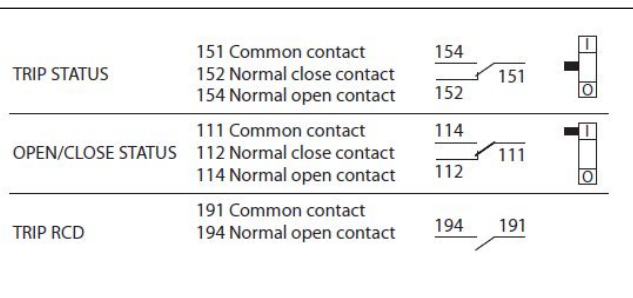
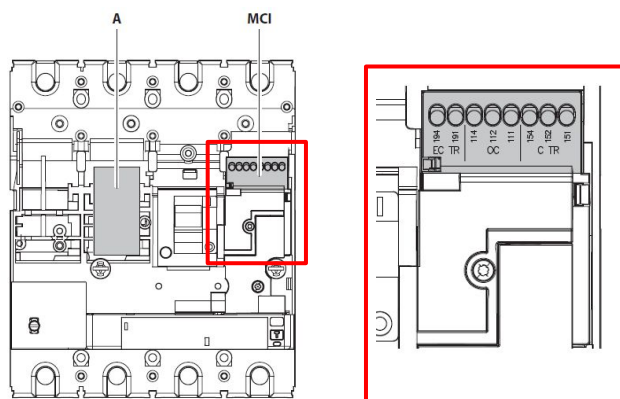
ref. M7UEM

(to be equipped with a time-lag module M7000MR/230 and M7000MR/400)

8.2 Auxiliary contacts

For version of Megatiker M3 250 thermal magnetic, with earth leakage module, auxiliary contacts are integrated inside module M.C.I (see instruction sheet for details).

Here a connection scheme to get auxiliary functionality:



	A
UVR	✓
ST	✓

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

8.3 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 datasheet) must be added in order to get the complete locking kits for the specific application.

- 1 lock + 1 flat key with random mapping ref. M7R24
- 1 lock + 1 flat key with fixed mapping (EL43525) ref. M7R25
- 1 lock + 1 flat key with fixed mapping (EL43363) ref. M7R26
- 1 lock + 1 star key with random mapping ref. M7R27

Megatiker M3 250 thermal magnetic circuit breakers with earth leakage

Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :

T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734S250D;

8.3 Rotary handles

Direct on DPX³ (with auxiliary option)

- Standard (black) ref. M7R24
- For emergency use (red / yellow) ref. M7R25

Vari-depth handle IP55 (with auxiliary option)

- Standard (black) ref. M7R26
- For emergency use (red / yellow) ref. M7R27

Locking accessories (for rotary handle with auxiliary option)

- Key lock accessory for direct rotary handle ref. M7R30
- Key lock accessory for vari-depth rotary handle ref. M7R31
(ref. M7R31 is compatible with Megatiker M3 125 also)

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

8.4 Motor operators

For synchronized operations (energy storage type):

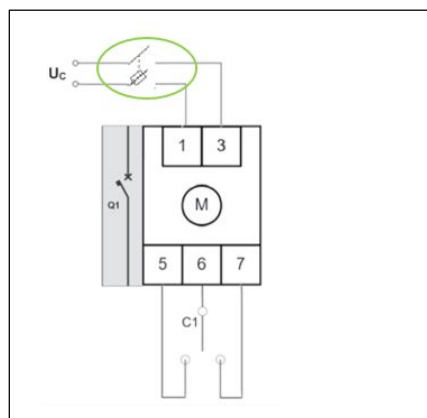
- 24 Vac and dc ref. M7M024
- 48 Vac and dc ref. M7M048
- 110 Vac ref. M7M110
- 230 Vac ref. M7M230

Technical parameters:

Voltage	Property	AC		DC	
		Opening	Closing	Opening	Closing
24V ac/dc	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
48V ac/dc	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
110V ac	Maximum inrush power (VA)	95	600	-	-
	Rated power (VA)	60	-	-	-
	Absorption time (s)	3	0.02	-	-
	Operating current time (s)	1.0	0.03	-	-
230V ac	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 (e.g. fuse) along the motor operator power line. The correct size of the fuse depends on the motor version and on the number of users.

Here a schematic example:



Locking accessory (for motor operator)

- Padlock (for motor operator locking) ref. M7M61
- Key lock accessory for motor operator ref. M7M60

Ref. M7M60 must be used with universal keylocks to get the complete locking kit for motor operator

8.6 Mechanical accessories

- Padlock (for locking in "OPEN" position) ref. 4 210 49
(ref. 4 210 49 is compatible with DPX³ 125 HP and DPX³ 160/250)
- Sealable terminal shields:
 - Set of 3 (for 4P) ref. M7C23
- Insulated shields:
 - Set of 3 (for 4P) ref. M7F02

(ref. M7F02 are compatible with Megatiker M3 125 also)

8.7 Connection accessories

Cage terminals

- Set of 4 terminals for cables 150 mm² max (rigid) ref. M7X55
- or 120 mm² max (flexible) Cu/Al

Spreaders (incoming or outgoing):

- Set of 4 (for 4P) ref. M7A53

Rear terminals (incoming or outgoing):

- Set of 4 (for 4P) ref. M7A57

Megatiker M3 250 thermal magnetic circuit breakers with earth leakage

Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :

T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734S250D;

8.8 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 MS3 250)

- Plug-in/draw-out base for 4P *ref. M7B51*
- Plug-in/draw-out mobile part kit for 4P *ref. M7B53*

Plug-in accessories

Locking accessory (for plug-in)

- Key lock accessory for plug-in *ref. M7B64*

Ref. M7B64 must be used with universal keylocks to get the complete locking kit for plug-in version

8.9 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 *ref. M7B55*

Frontal masks for draw-out version

(to provide in addition to debro-lift mechanism according to accessory mounted)

- Frontal module, with frontal mask (3P and 4P) *ref. M7B60*
(if neither motor operator nor rotary handle are mounted)
- Frontal mask for motor operator (3P and 4P) *ref. M7B61*

Locking accessory (for draw-out)

- Padlock for draw-out position *ref. M7B65*
- Key lock accessory for draw-out *ref. M7B63*

Ref. 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 *ref. M7B05*
- 6 contact connector (under sliding contacts) *ref. F15/7500P6*

(Ref. F15/7500P6 can be used with both plug-in and draw-out version)

8.10 Interlock mechanism

(for interlocking 2 Megatiker M3 125 HP or 2 Megatiker M3 250)

No frame mixing in interlock mechanism

- Interlock mechanism – standard version *ref. M7I01*
(for fixed version Megatiker M3 125 and 250)
- Interlock mechanism – for electronic module *ref. M7I02*
(for fixed version Megatiker M3 125 and 250)
- Interlock plate for Megatiker M3 250 *ref. M7I05*
- Rear interlock mechanism *ref. M7I03*
(for Megatiker M3 250 plug-in and/or draw-out version)

If used ref. F15/7500P6, maximum 1 set

Megatiker M3 250 thermal magnetic circuit breakers with earth leakage

Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :

T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

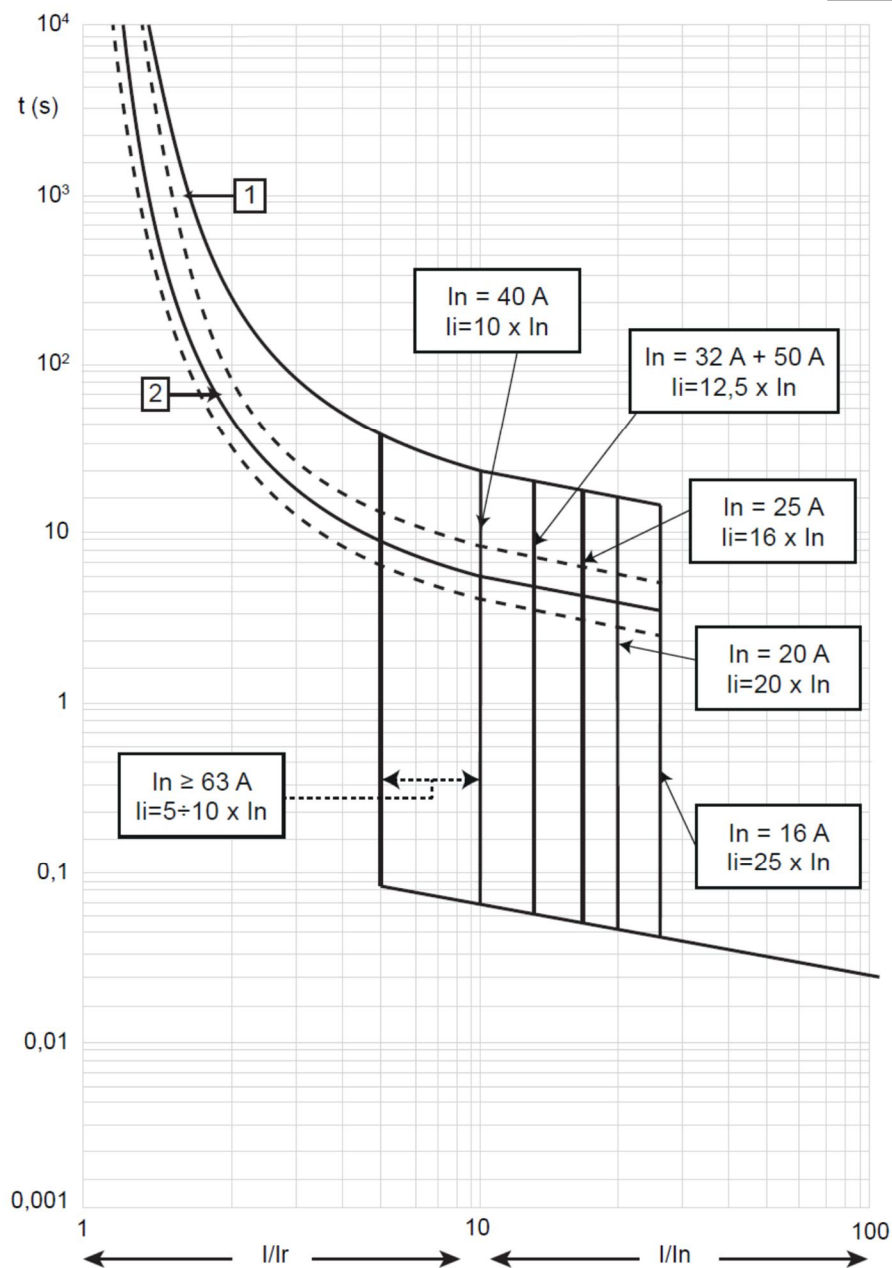
T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

T734S250D;

9. CURVES

9.1 Thermal magnetic tripping curve

Update: 11/06/2019



$I_{cu} = 36-50 \text{ kA}$ $I_{max} = 250 \text{ A}$ 4 P $U_e = 415 \text{ Vac}$ (IEC/EN 60947-2)

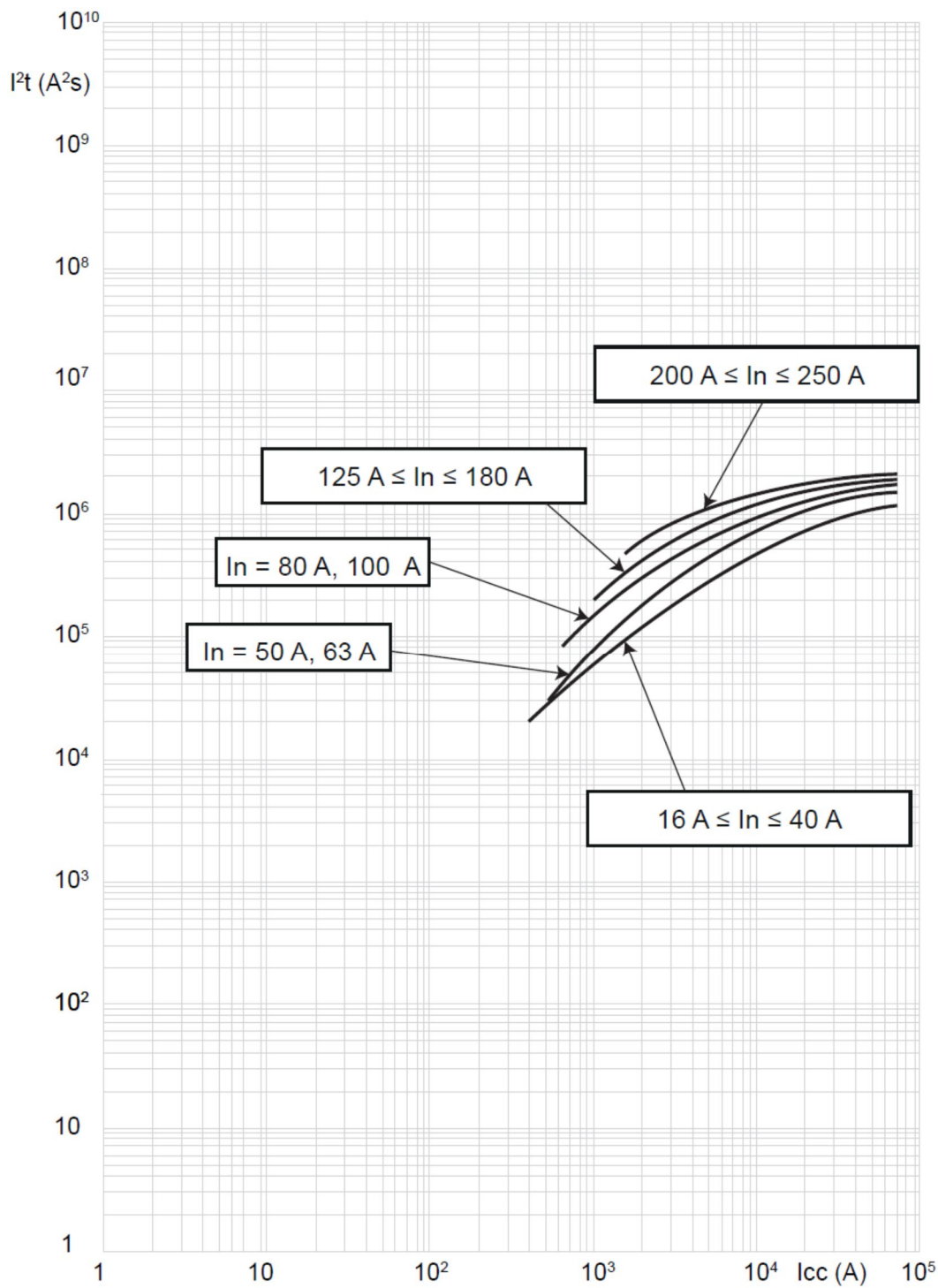
Value	Description
t	time
I	current
I_n	rated current
I_r	long time setting current
curve 1	characteristic with cold start
curve 2	characteristic with hot start

Megatiker M3 250 thermal magnetic circuit breakers with earth leakage
Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :
T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734S250D;

9.2 Pass-through specific energy characteristic curve

Update: 11/06/2019



$I_{cu} = 36-50 \text{ kA}$ $I_{max} = 250A$ 4 P $U_o = 415Vac$ (IEC/EN 60947-2)

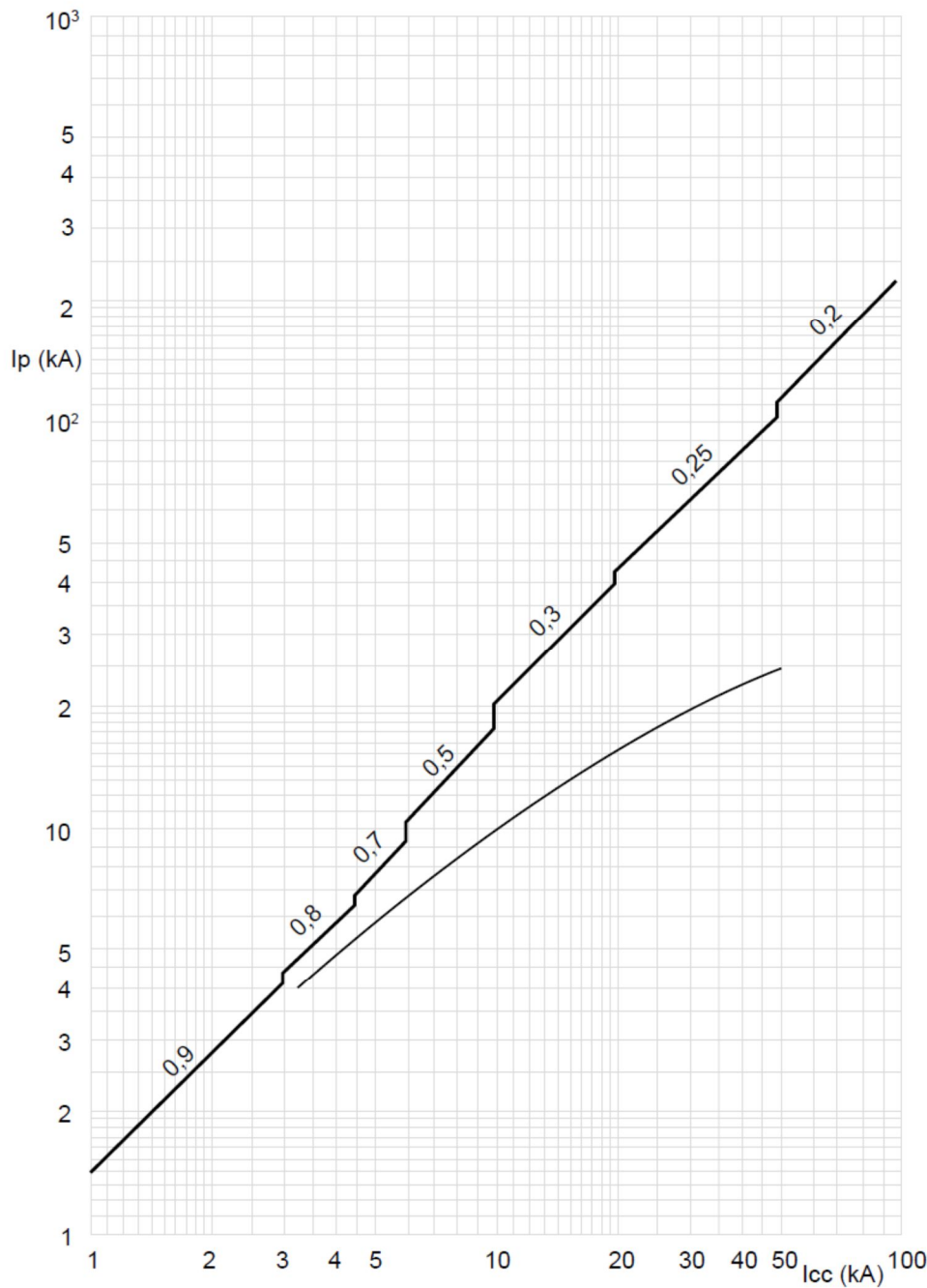
Value	Description
I_{cc}	short circuit current
$I^2t (A^2s)$	pass-through specific energy

Megatiker M3 250 thermal magnetic circuit breakers with earth leakage
Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :
T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734S250D;

9.3 Cut-off peak current characteristic curve (kA)

Update: 30/08/2019



$I_{cu} = 36-50 \text{ kA}$ $I_{max} = 250 \text{ A}$ 4 P $U_e = 415 \text{ Vac}$ (IEC/EN 60947-2)

Value	Description
I_{cc}	estimated short circuit symmetrical current (RMS value)
I_p	maximum short circuit peak current
	maximum prospective short circuit peak current corresponding at the power factor
	maximum real peak short circuit current

Megatiker M3 250 thermal magnetic circuit breakers with earth leakage **Megatiker MS3 250 switch disconnectors with earth leakage**

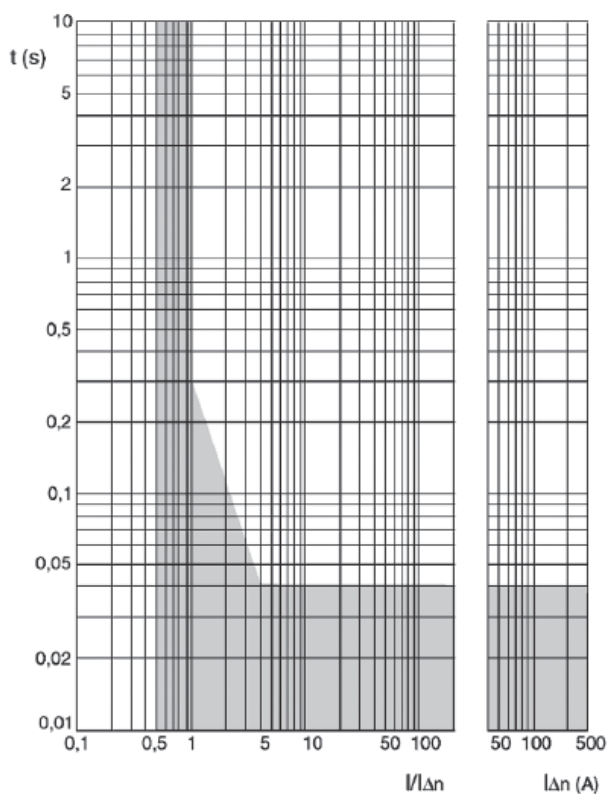
Reference(s) :

T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

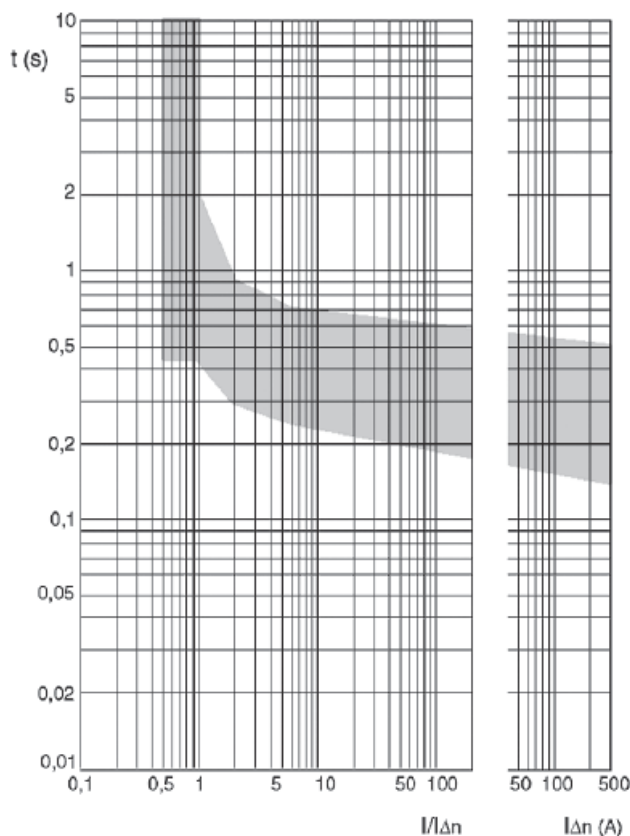
T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

T734S250D;

9.4.1 Earth leakage curves, instantaneous



9.4.2 Earth leakage curves, time delay = 0.3 s

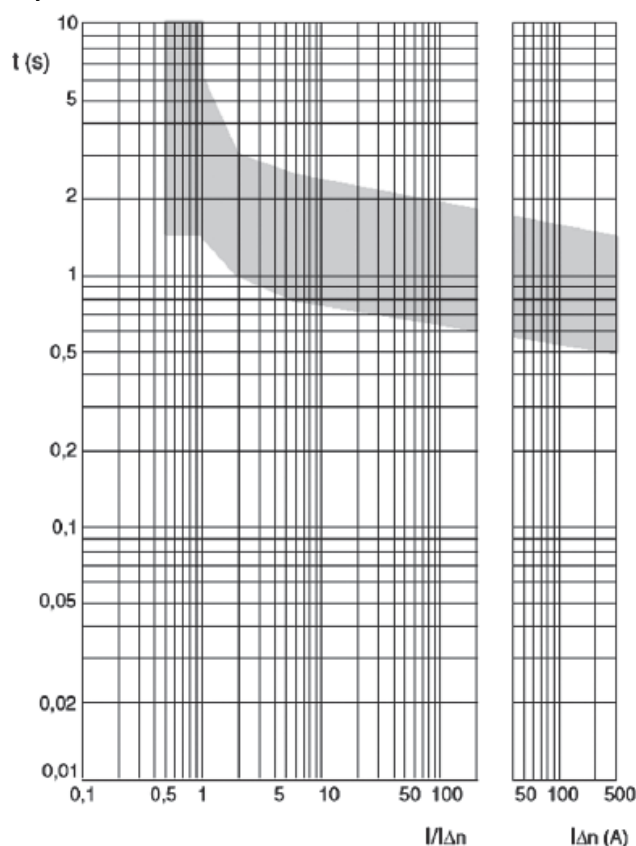


Megatiker M3 250 thermal magnetic circuit breakers with earth leakage **Megatiker MS3 250 switch disconnectors with earth leakage**

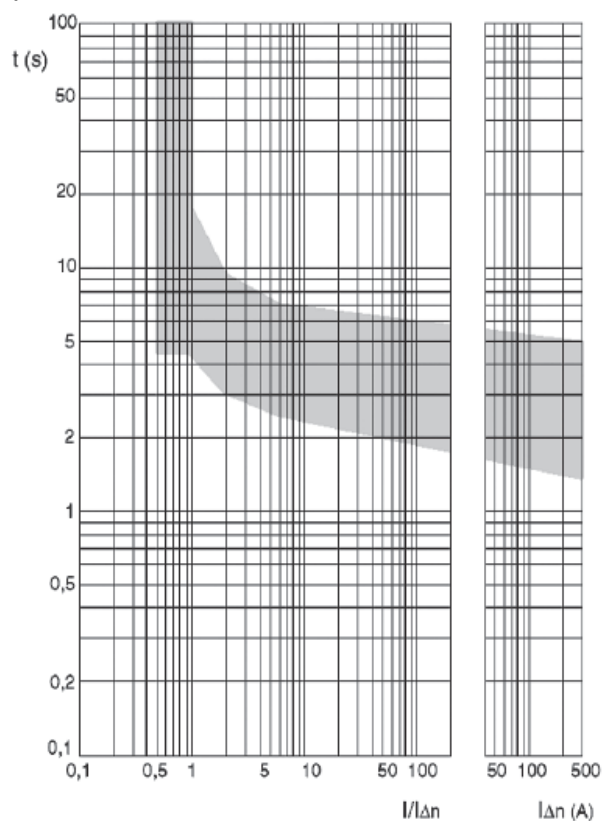
Reference(s) :

T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;
T734S250D;

9.4.3 Earth leakage curves, time delay = 1 s



9.4.4 Earth leakage curves, time delay = 3 s



Megatiker M3 250 thermal magnetic circuit breakers with earth leakage

Megatiker MS3 250 switch disconnectors with earth leakage

Reference(s) :

T734F16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

T734N16D / 20D / 25 D / 32 D / 40 D / 50 D / 63 D / 80 D / 100 D / 125 D / 160 D / 200 D / 250 D;

T734S250D;

A) Derating Temperature and configurations

	Ambient temperature									
	30 °C		40 °C		50 °C		60 °C		70 °C	
Fixed version	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
Cage terminals, flexible cable	250	1	250	1	250	1	255	0.90	213	0.85
Lugs, flexible cable	250	1	250	1	250	1	238	0.95	255	0.90
Spreaders, flexible cable	250	1	250	1	250	1	238	0.95	255	0.90
Draw-out version	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
Cage terminals, flexible cable	250	1	255	0.90	255	0.90	213	0.85	188	0.75

For further technical information, please contact Legrand technical support.