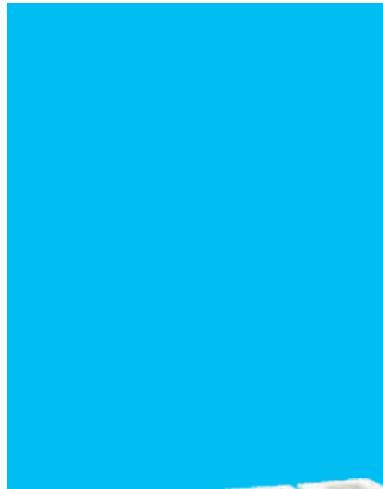


Optium

Adjustable, compact and ease of installation are just some of the features of our wide range of MCCBs.



F1



F2



Variants



Fixed type T/M



Adjustable T/M

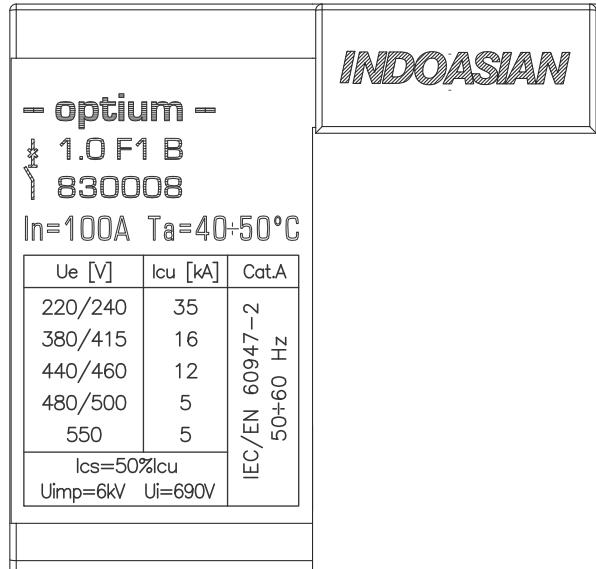


Electronic LSI

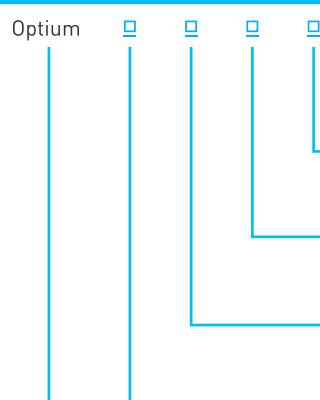


Electronic LSig

Nomenclature



Example >> Optium 1.0 F1 B 100A



Rating (In)

From 16A to 1250A

Breaking Capacity (Icu@415V)

B=16kA, L=25kA, M=36kA & H=50kA

Frame Code

F1= 125, F2=250, F3=250HP, F4=630 & F5=1250

Release Code

1.0= TM Fixed, 2.0= TM Adj,
2.1= Elec. LSI & 2.2 = Elec. LSIG

Design Model of MCCB

F2-F3

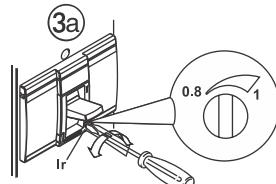
Adjustable settings

F1

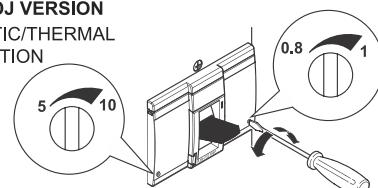


ONLY ADJ VERSION
THERMAL
REGULATION

$$I_r = (0,8 \div 1) \times I_n$$



ONLY ADJ VERSION
MAGNETIC/THERMAL
REGULATION



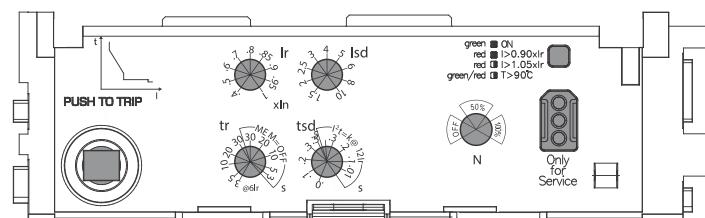
$$I_r = (0,8 \div 1) \times I_n$$

$$I_{sd} = (5 \div 10) \times I_n$$

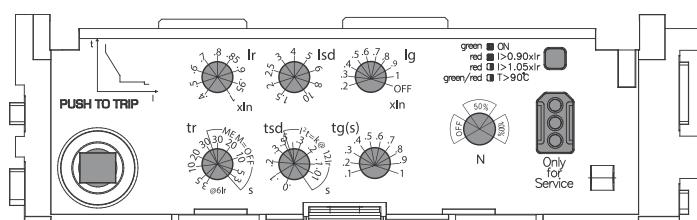
F4-F5



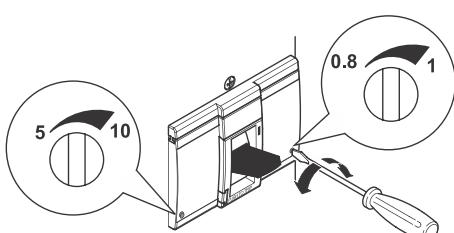
830510...830517



830520...830527



ONLY ADJ VERSION
MAGNETIC/THERMAL
REGULATION

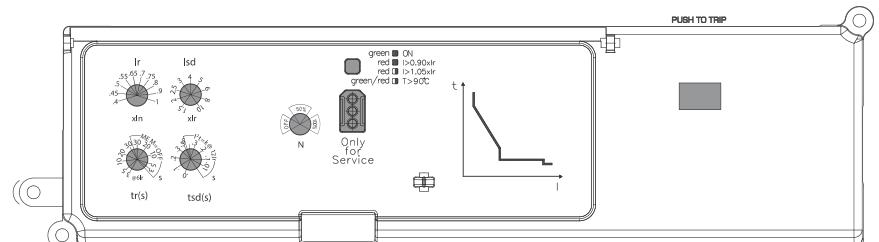


$$I_r = (0,8 \div 1) \times I_n$$

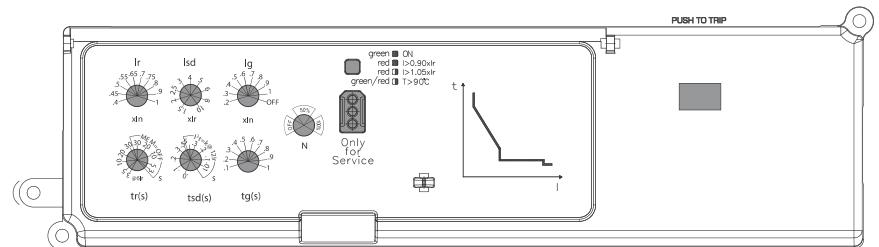
$$I_{sd} = (5 \div 10) \times I_n$$

830540...830547

F4-F5



830550...830557



Adjustable range Ics=100% Icu

ICU

16 kA

25 kA

36 kA

50 kA



ICS

16 kA

25 kA

36 kA

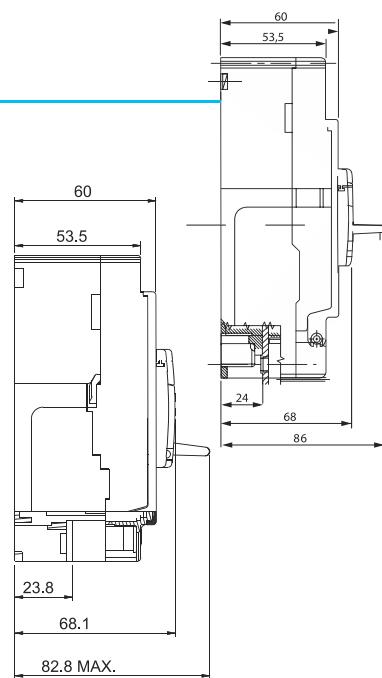
50 kA

Line load reversibility



Compact sizes

Frame 1 & 2 is compact and suitable
for installation in DB



Wide choice of electrical accessories

Aux contact



Shunt trip

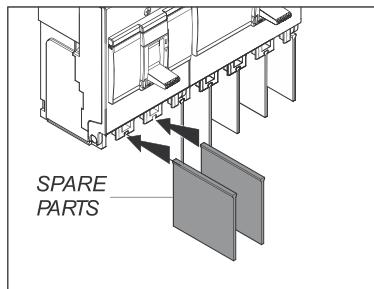


Undervoltage

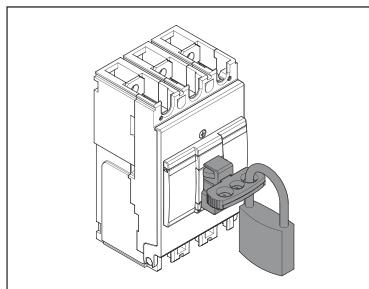


Accessories

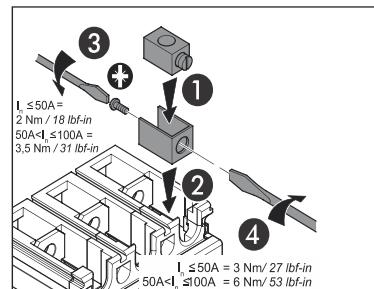
Phase Separator



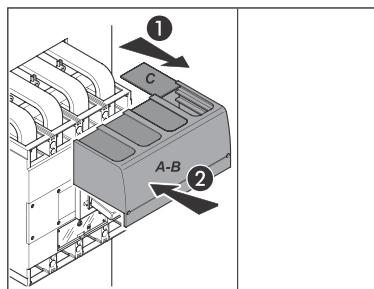
Padlock - Off Position



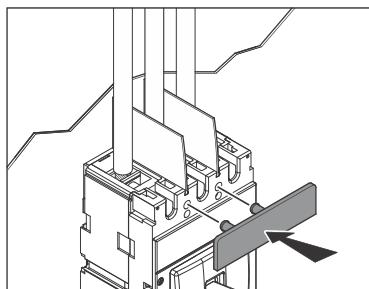
Cage Terminals



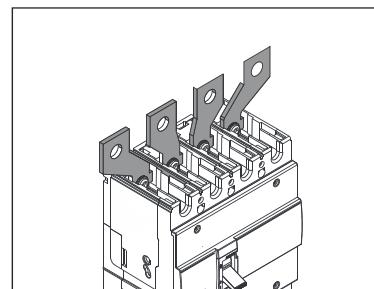
Terminal Shield



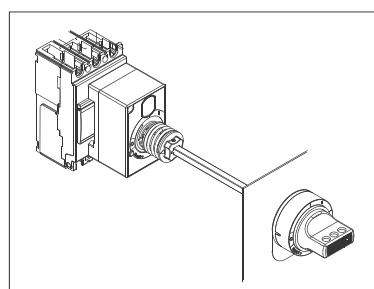
Terminal Cover



Spreader Link



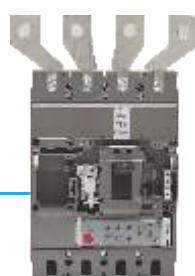
Rotary Handle



Spreaders



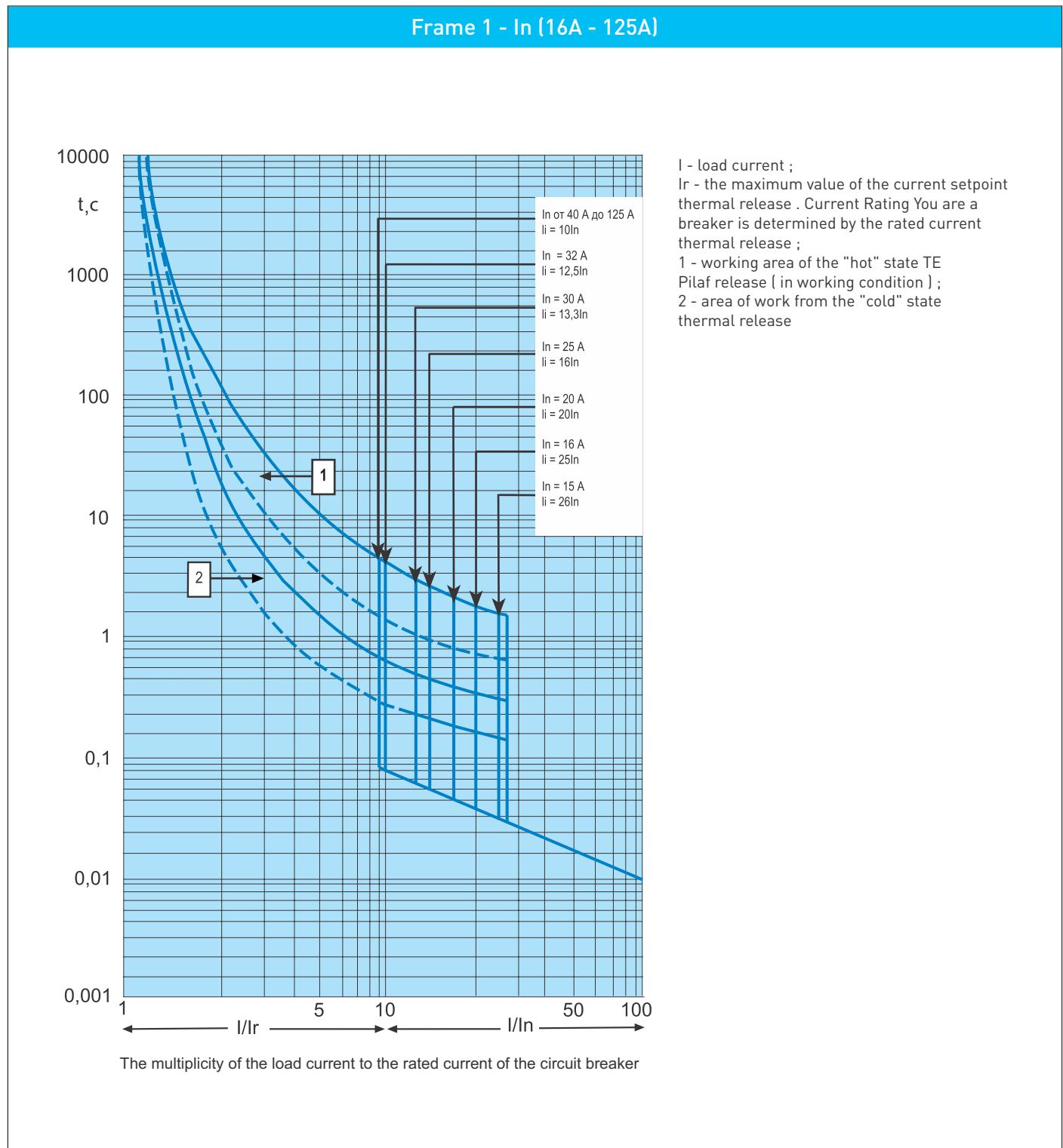
Easy-to-install accessories



Technical Characteristics - MCCB

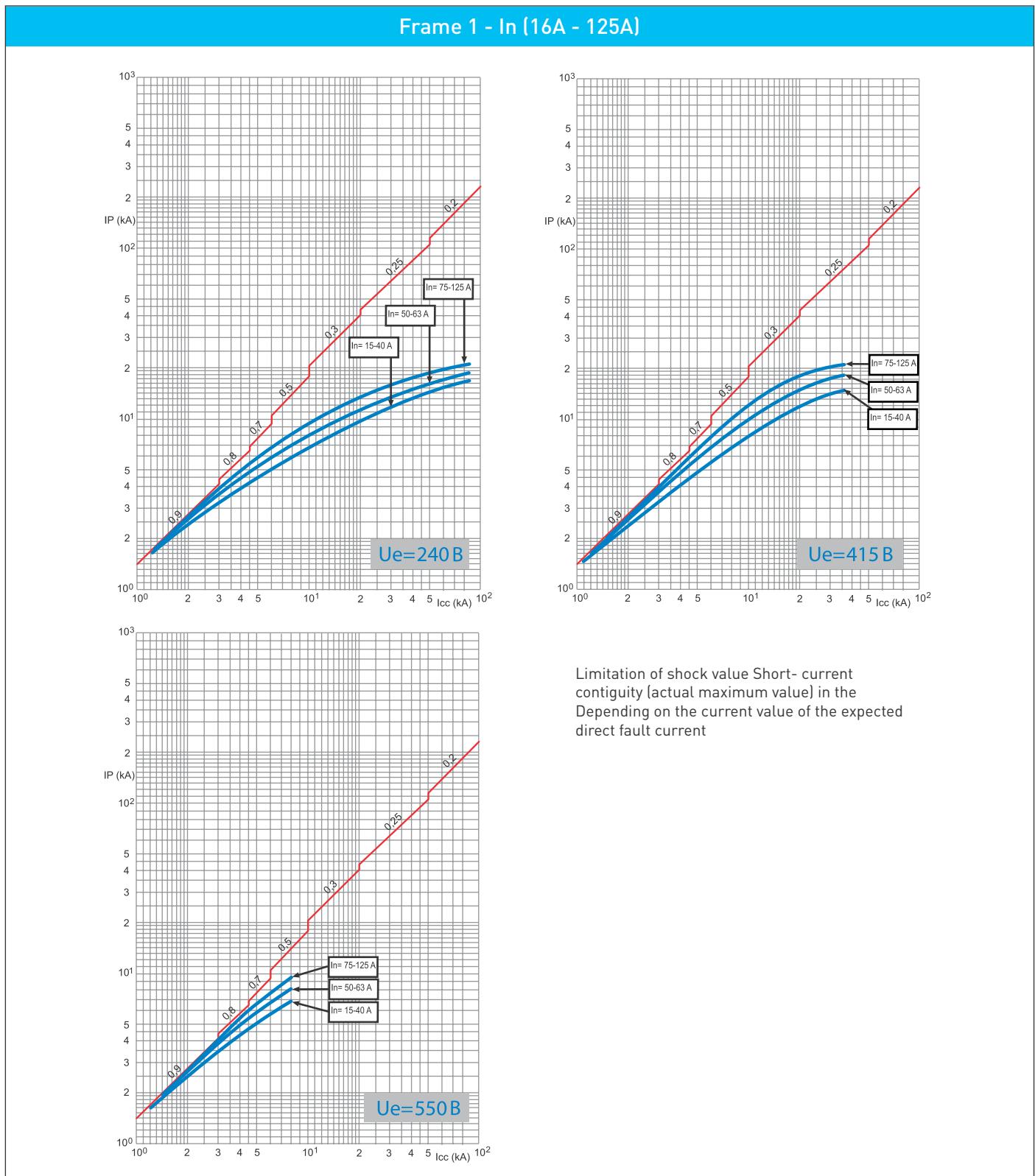
Time current characteristics

Time current tripping characteristics at ambient temperature 40° C



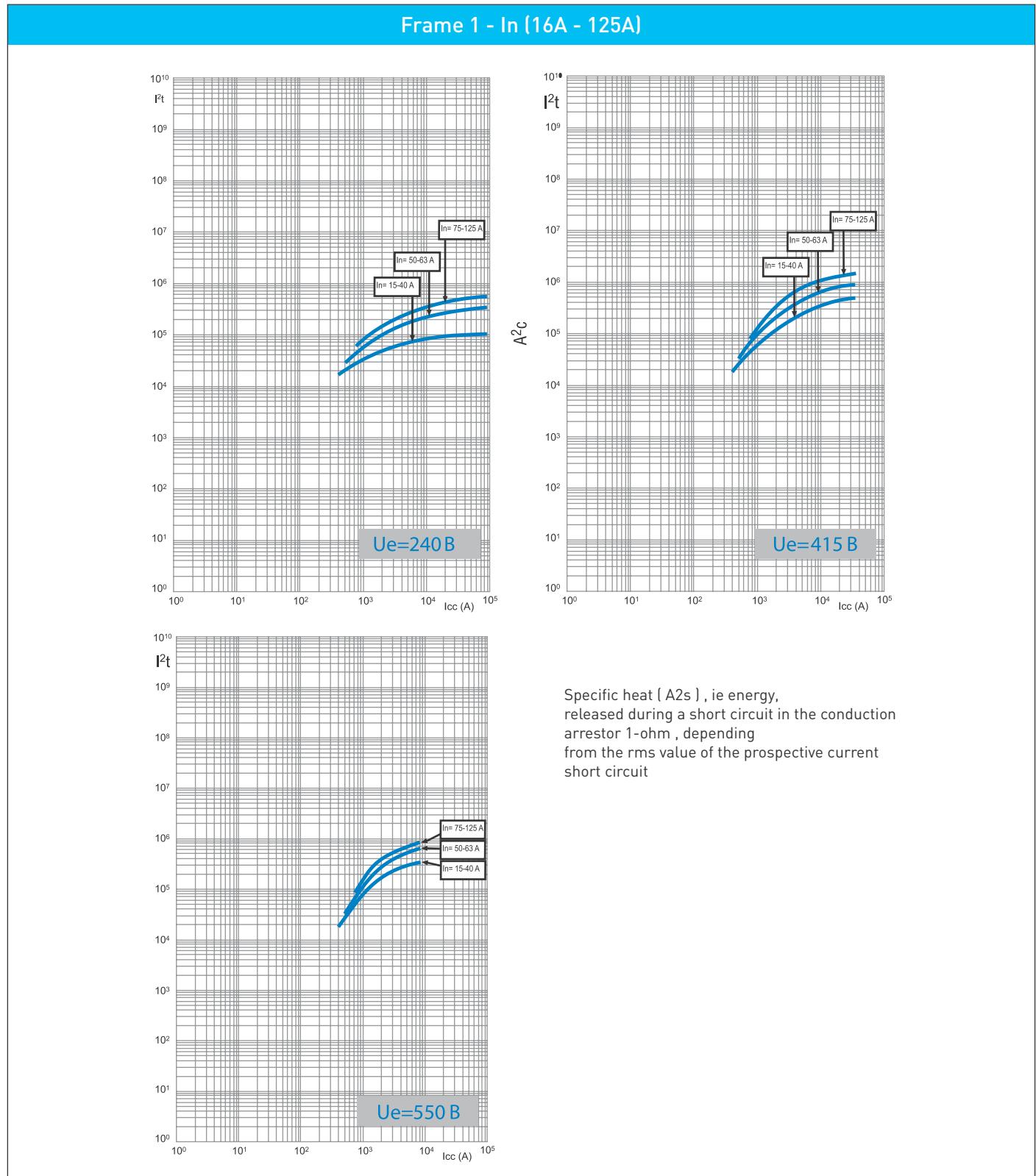
Technical Characteristics - MCCB

Data limitations of current



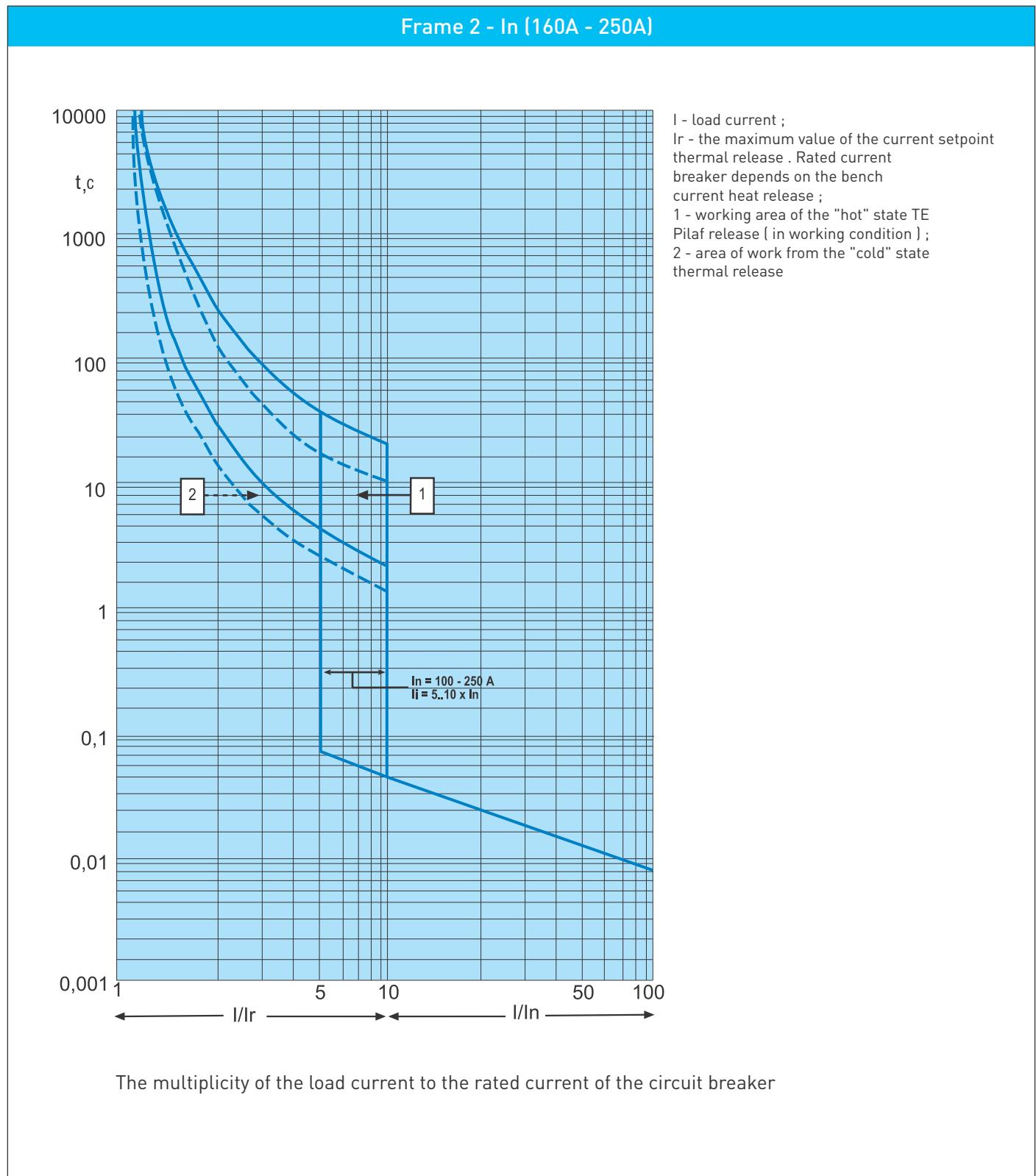
Technical Characteristics - MCCB

Limitations of energy curves



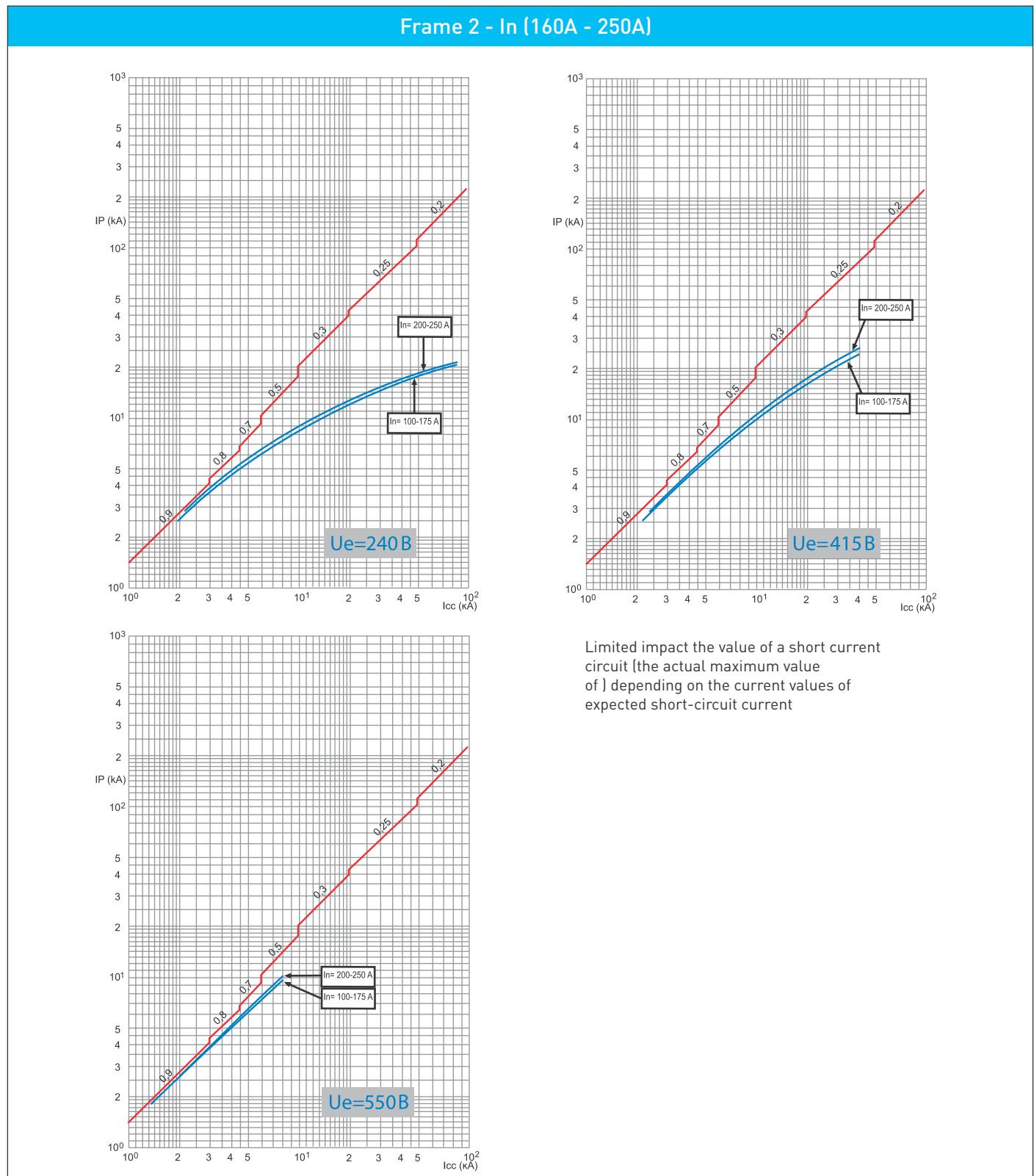
Technical Characteristics - MCCB

Time current characteristics



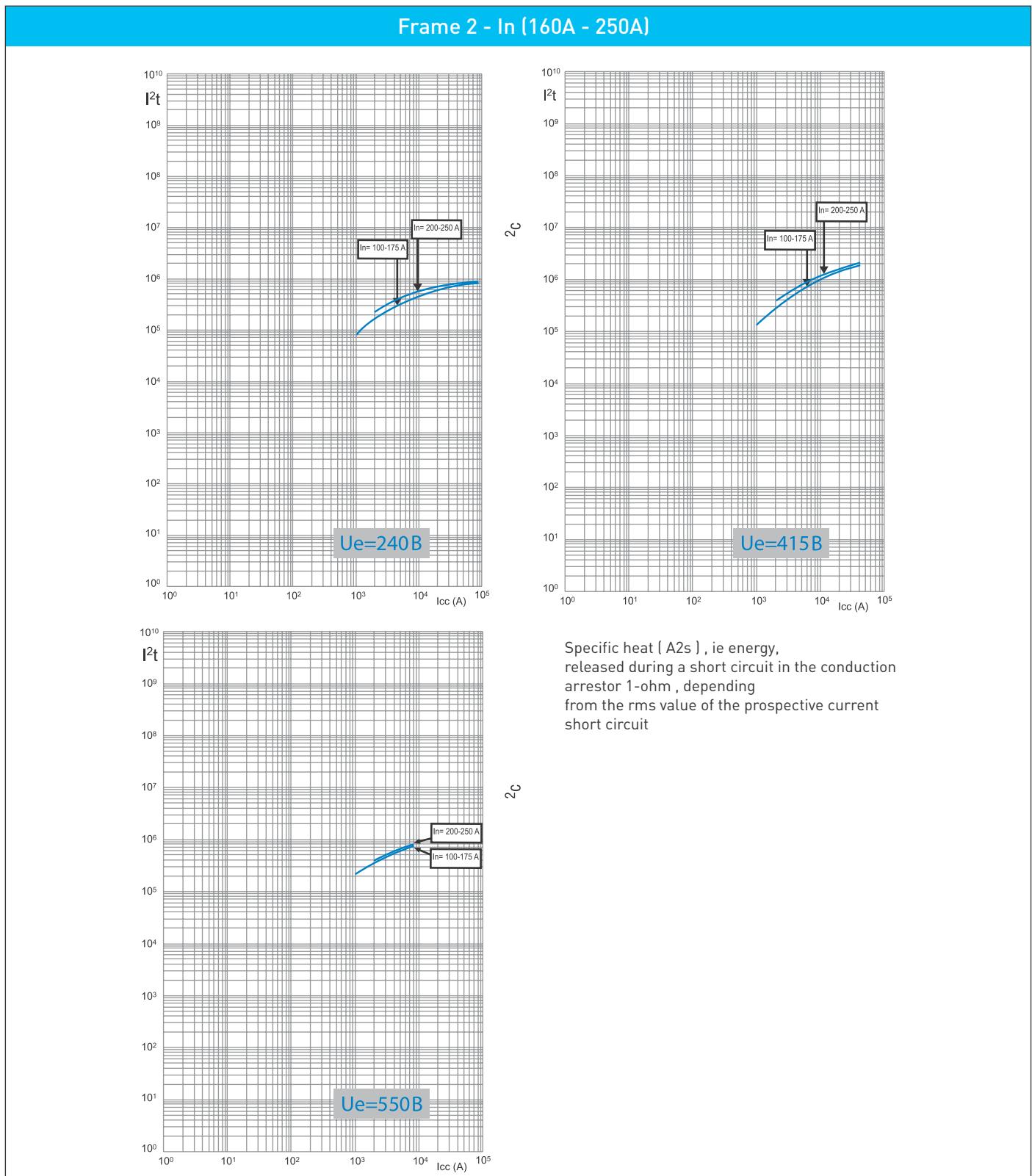
Technical Characteristics - MCCB

Data limitations of current



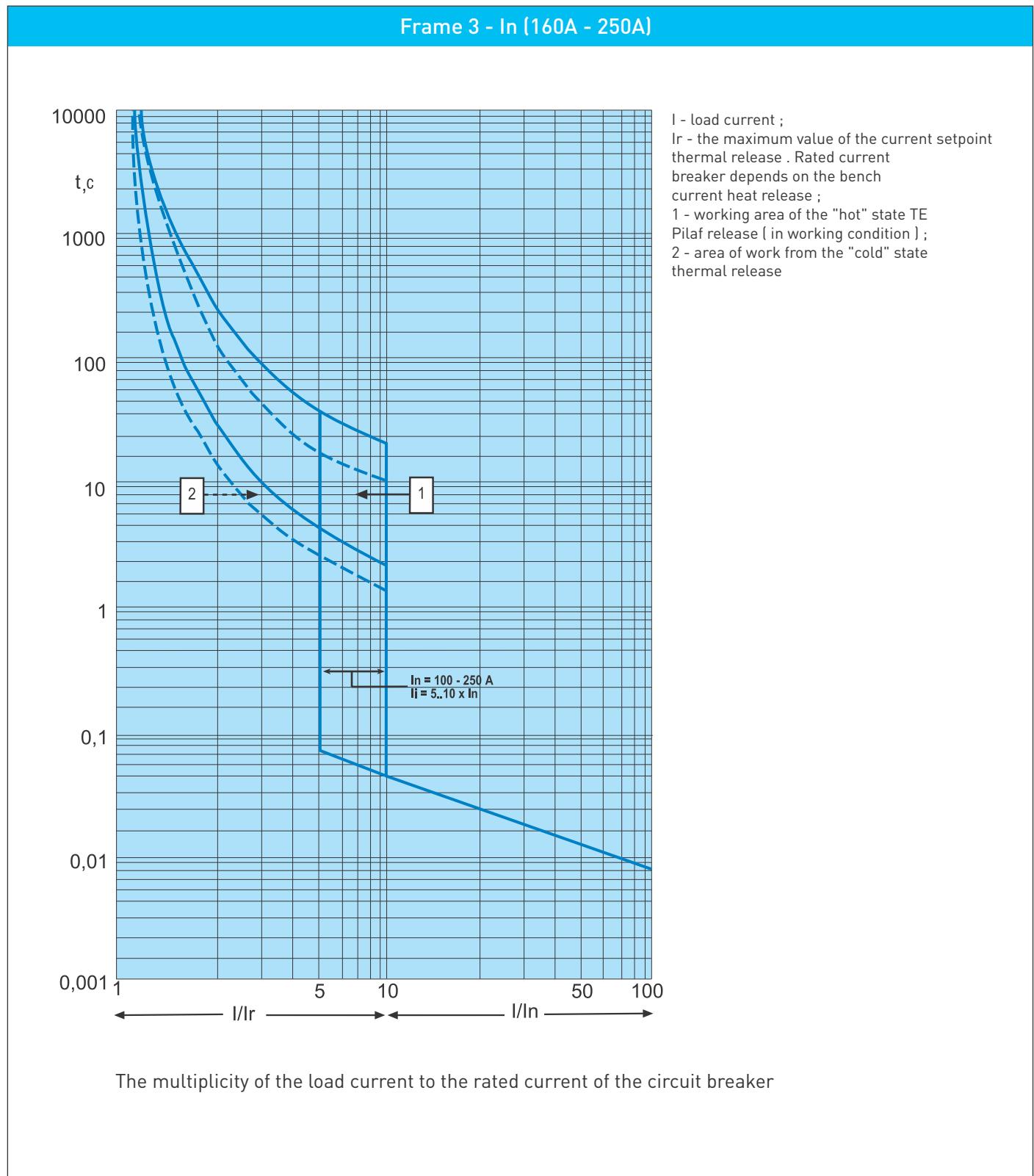
Technical Characteristics - MCCB

Limitations of energy curves



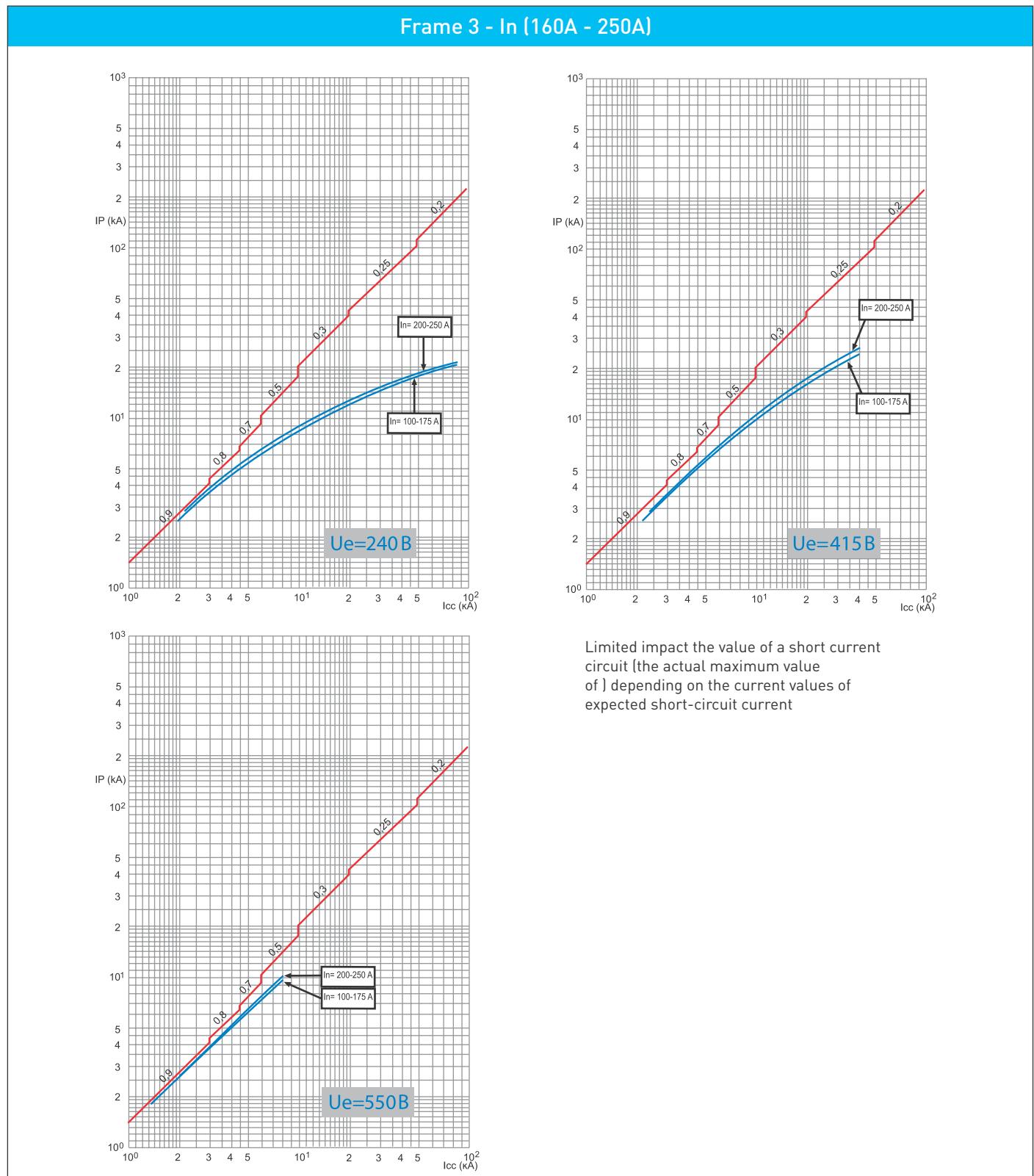
Technical Characteristics - MCCB

Time current characteristics



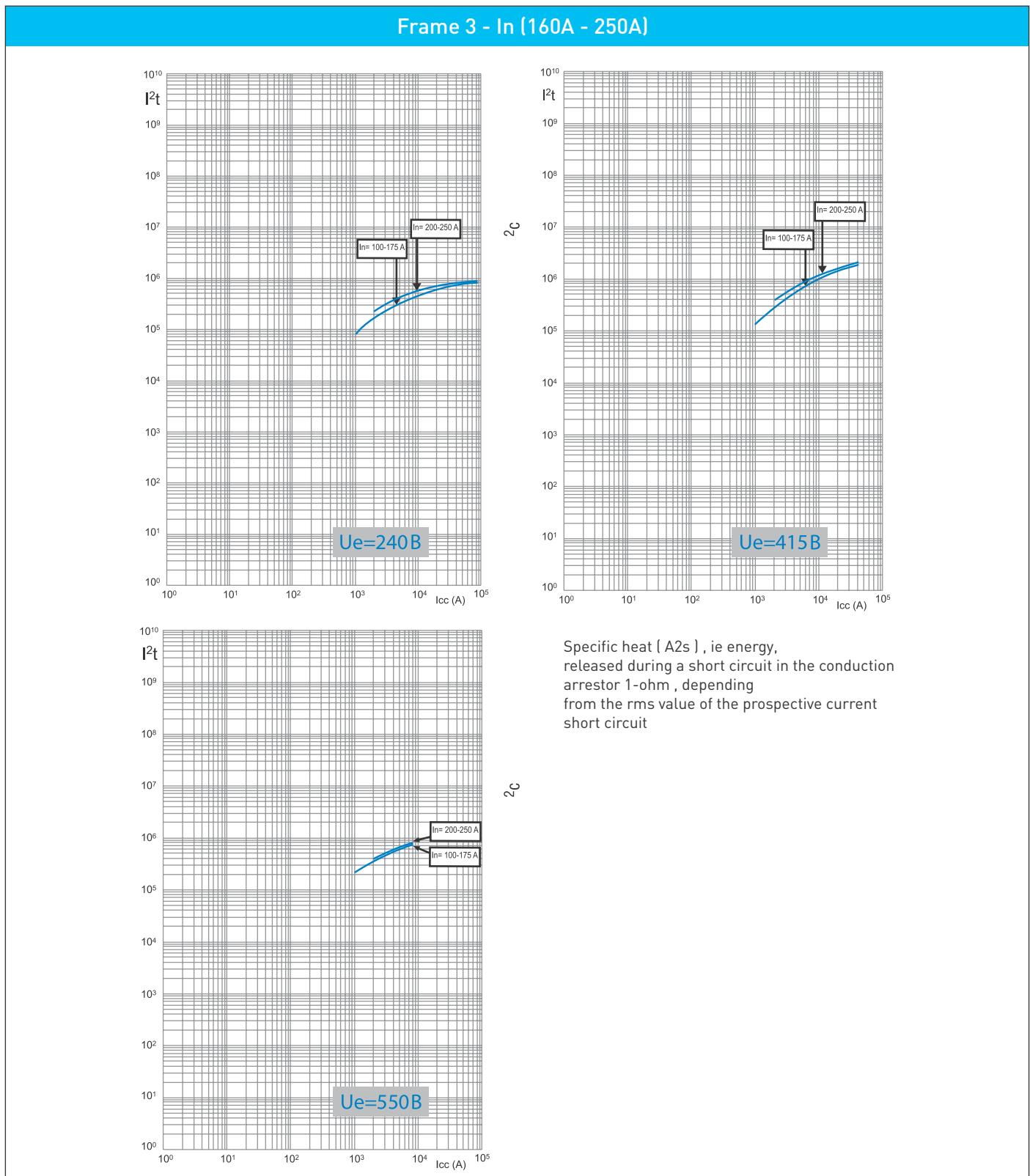
Technical Characteristics - MCCB

Data limitations of current



Technical Characteristics - MCCB

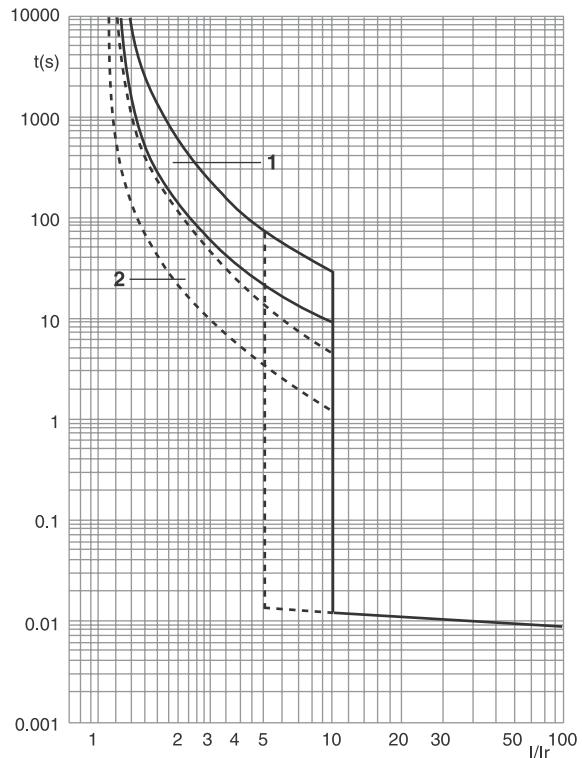
Limitations of energy curves



Technical Characteristics - MCCB

Frame 4 - In (315A - 630A)

Performance data for Frame F4



at ambient $\theta = 40^\circ \text{ C}$

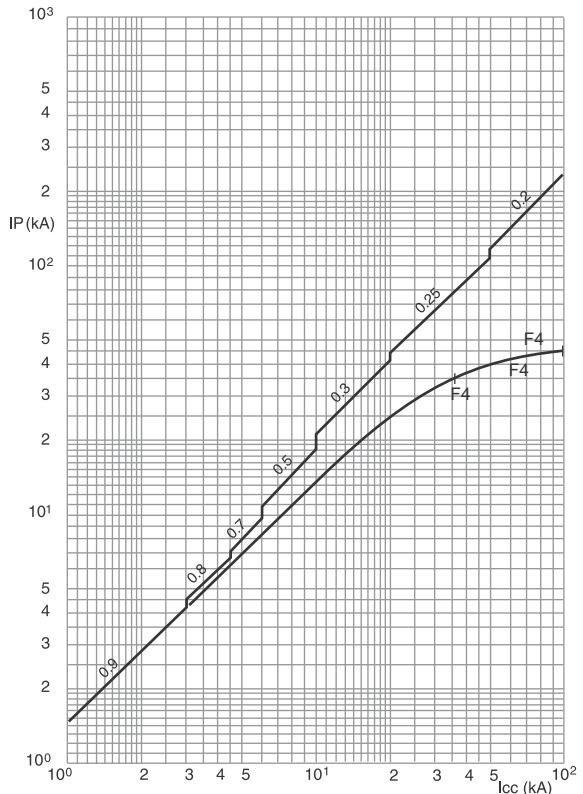
I = actual current

I_r = max. adjustment current of thermal release

1 = thermal release zone when cold

2 = thermal release zone when hot (in steady state)

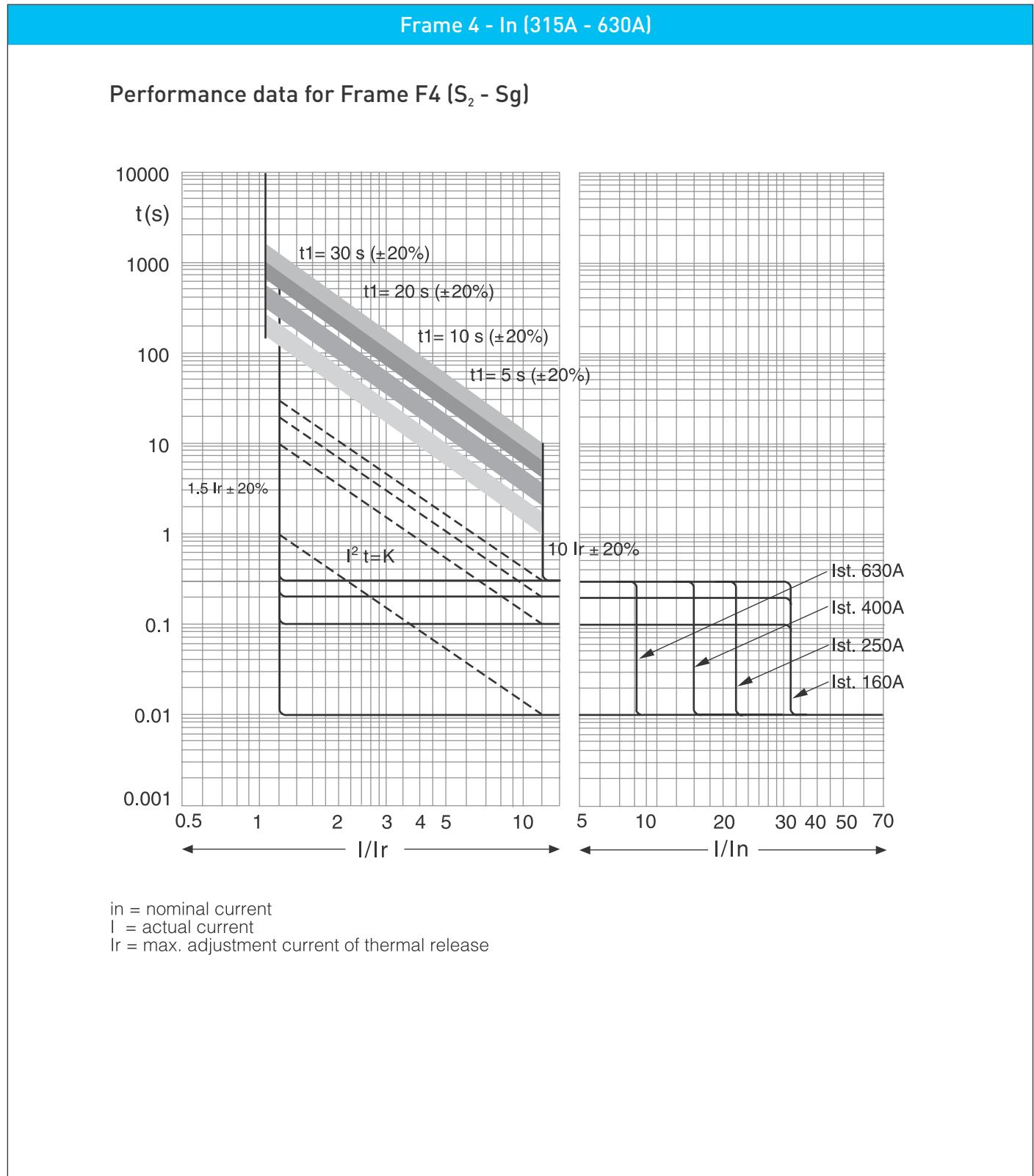
Current limitation curves



I_{cc} = prospective short-circuit symmetrical current
(rms value in kA)

IP = maximum peak value (in kA)

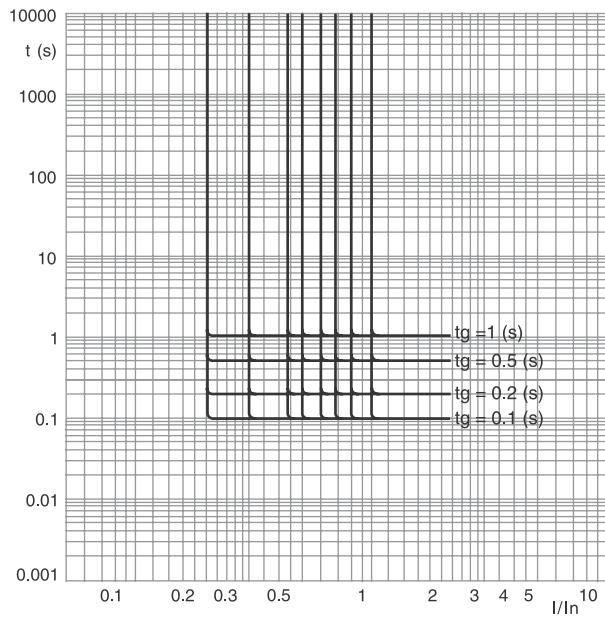
Technical Characteristics - MCCB



Technical Characteristics - MCCB

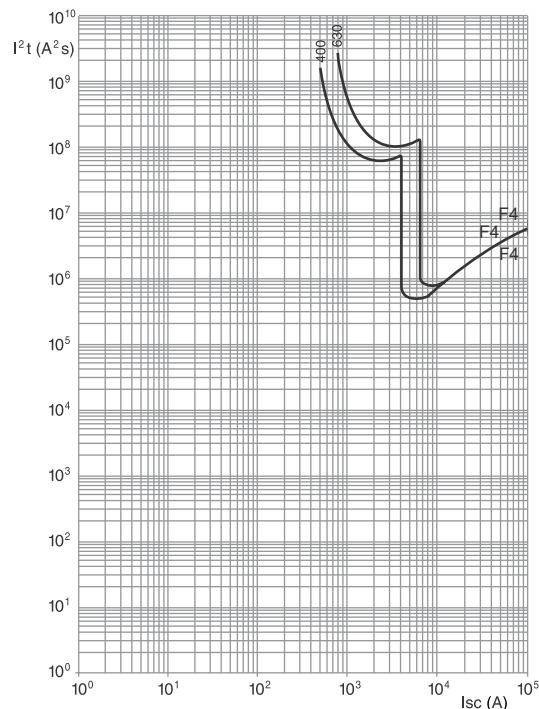
Frame 4 - In (315A - 630A)

Performance data (earth fault) Sg



I = actual current / I_n = nominal current

Thermal stress limitation curves

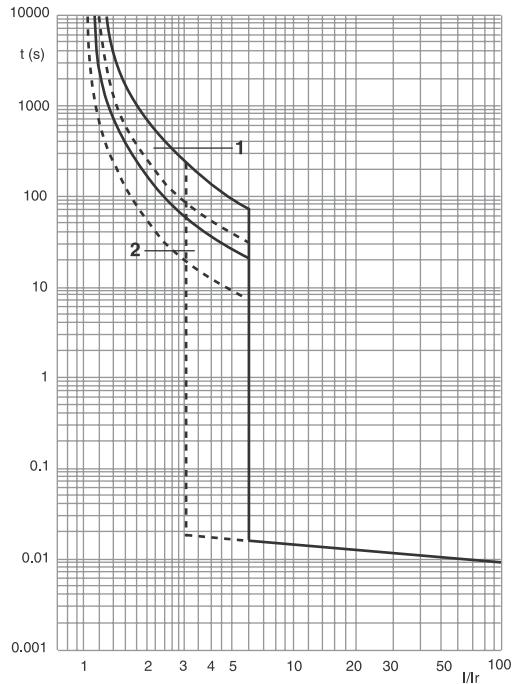


I_{sc} = prospective short-circuit symmetrical current (rms value in A)
 I^2t = limited thermal stress (in A^2s)

Technical Characteristics - MCCB

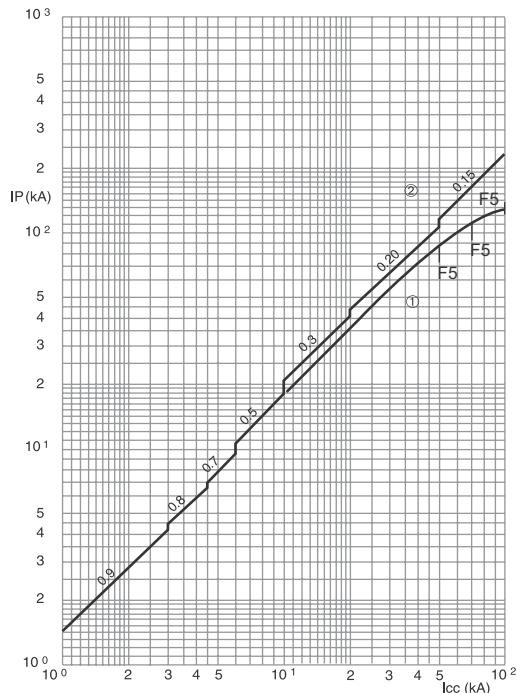
Frame 5 - In (800A - 1250A)

Performance data for Frame F5



at ambient $\theta = 40^\circ \text{ C}$
 I = actual current / Ir = max. adjustment current of thermal release
 1 = thermal release zone when cold
 2 = thermal release zone when hot (in steady state)

Current limitation curves

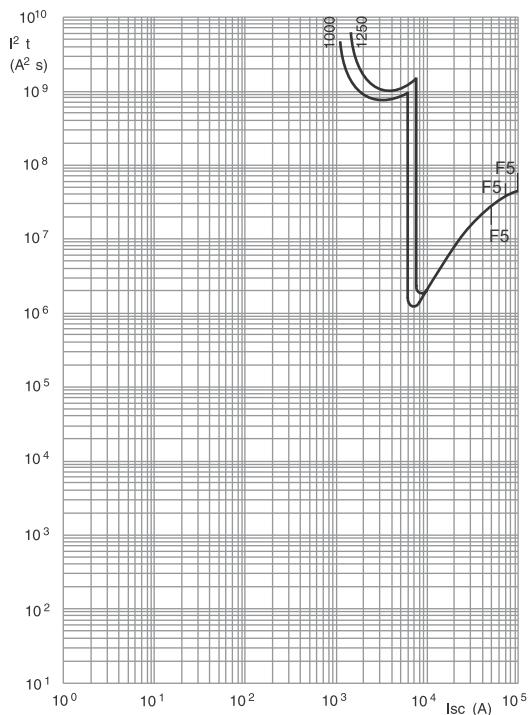


at ambient $\theta = 40^\circ \text{ C}$
 I = actual current
 Ir = max. adjustment current of thermal release
 1 = thermal release zone when cold
 2 = thermal release zone when hot (in steady state)

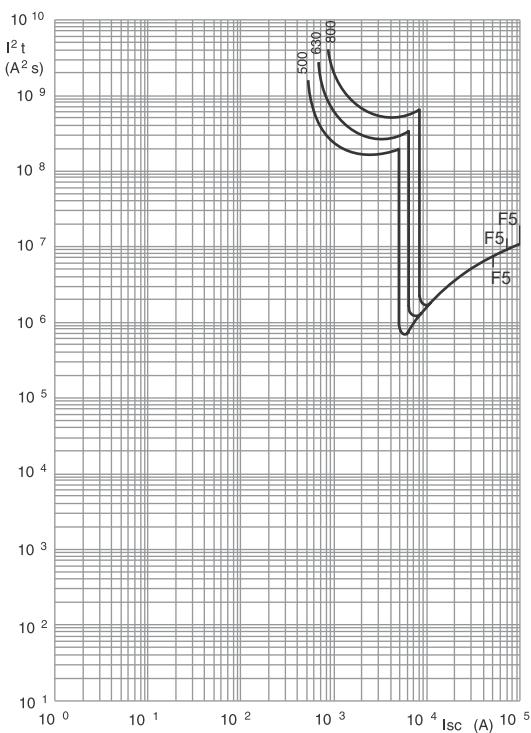
Technical Characteristics - MCCB

Frame 5 - In (800A - 1250A)

Thermal stress limitation curves



I_{cc} = prospective short-circuit symmetrical current (rms value in A)
 $I^2 t$ = limited thermal stress (in $\text{A}^2 \text{s}$)



Technical Table

Devices	Optium 1.0 F1						Optium 1.0 F2								
Mounting	On plate														
Breaking capacity	380/415V		16kA		25kA		25kA		16kA						
220/240V							25kA		25kA						
Breaking capacity %Icu	50%		50%		50%		50%		36kA						
Characteristics of use															
Nominal frequency	50Hz														
Maximum rated operating voltage	690 V														
Category of use	A														
Thermal magnetic adjustment															
Thermal	FIXED														
Magnetic	FIXED														
Electronic protection adjustment	—														
Maximum cable cross-section															
Rigid cable	2.5 to 16 mm ²			10 to 50 mm ²			35 to 50 mm ²		35 to 150 mm ²						
Flexible cable	2.5 to 10 mm ²			10 to 50 mm ²			35 to 50 mm ²		35 to 120 mm ²						
Copper bar and lug width	17mm			17mm			17mm		25mm						
Tightening torque	3 Nm			6 Nm			6 Nm		13 Nm						
Nominal current at 40 degree	16	25	32	40	50	63	80	100	125						
In (A)									160						
Phase	16	25	32	40	50	63	80	100	125						
N	16	25	32	40	50	63	80	100	125						
Magnetic threshold		Fixed													
In (A)	16	25	32	40	50	63	80	100	125						
Phase	400	400	400	400	500	630	800	1000	1250						
N	400	400	400	400	500	630	800	1000	1250						
Endurance		8000						8000							
Electrical									25000						
Mechanical															

Technical Table

Devices	Optium 1.0 F3										Optium 1.0 F4						
Mounting	On plate																
Breaking capacity	50kA										36kA	50kA					
380/415V																	
220/240V																	
Breaking capacity %lcu	50%										50%	50%					
Characteristics of use																	
Nominal frequency	50Hz																
Maximum rated operating voltage	690 V																
Category of use	A																
Thermal magnetic adjustment																	
Thermal	FIXED																
Magnetic	FIXED																
Electronic protection adjustment	—																
Maximum cable cross-section																	
Rigid cable	2.5 to 150 mm ²										300 mm ² or 2 x 240 mm ²						
Flexible cable	2.5 to 120 mm ²										240 mm ² or 2 x 185 mm ²						
Copper bar and lug width											25 mm						
Tightening torque	7 Nm10 Nm										15 Nm						
Nominal current at 40 degree	16	20	25	32	40	50	63	80	100	125	315 to 630 A						
In (A)	400	400	400	400	400	500	630	800	1000	1250	320	400	500	630			
Phase	400	400	400	400	400	500	630	800	1000	1250	320	400	500	630			
N	400	400	400	400	400	500	630	800	1000	1250	320	400	500	630			
Magnetic threshold	Fixed																
In (A)	16	20	25	32	40	50	63	80	100	125	320	400	500	630			
Phase	400	400	400	400	400	500	630	800	1000	1250	320	400	500	630			
N	400	400	400	400	400	500	630	800	1000	1250	320	400	500	630			
Endurance	8000										8000						
Electrical																	
Mechanical	25000										25000						

Technical Table

Devices	Optium 1.0 F5	Optium 2.0 F1	
Mounting	On plate		
Breaking capacity			
380/415V	50kA	16kA	25kA
220/240V			
Breaking capacity %Icu	50%	100%	100%
Characteristics of use			
Nominal frequency		50Hz	
Maximum rated operating voltage		690 V	
Category of use		A	
Thermal magnetic adjustment			
Thermal	FIXED	0.8 to 1 In	
Magnetic	FIXED	5 to 10 In	
Electronic protection adjustment	—		
Maximum cable cross-section			
Rigid cable	2 or 4 x 240 mm ²	2.5 to 16 mm ²	10 to 50 mm ²
Flexible cable	2 or 4 x 185 mm ²	2.5 to 10 mm ²	10 to 35 mm ²
Copper bar and lug width	50 mm	17mm	17 mm
Tightening torque	20 Nm	3 Nm	6 Nm
Nominal current at 40 degree			
In [A]	800 A		
Phase	500	630	800
N	500	630	800
Magnetic threshold	Fixed		
In [A]	500 630 800		
Phase	500 630 800		
N	500 630 800		
Endurance			
Electrical	8000		
Mechanical	10000		
	8000		
	25000		

Technical Table

Devices	Optium 2.0 F2	Optium 2.0 F3	Optium 2.0 F4	Optium 2.0 F5					
Mounting	On plate								
Breaking capacity 380/415V 220/240V Breaking capacity %lcu	16kA 100%	25kA 100%	36kA 100%	50kA 100%	25kA 100%	36kA 100%	50kA 100%	36kA 100%	50kA 100%
Characteristics of use									
Nominal frequency Maximum rated operating voltage Category of use	50Hz 690 V A								
Thermal magnetic adjustment Thermal Magnetic	0.8 to 1 ln 5 to 10 ln								
Electronic protection adjustment	—								
Maximum cable cross-section Rigid cable Flexible cable Copper bar and lug width Tightening torque	35 to 150 mm ² 35 to 120 mm ² 25 mm 13 Nm	2.5 to 150 mm ² 2.5 to 120 mm ² 25 mm 7 nm / 10 nm	300 mm ² or 2 x 240 mm ² 240 mm ² or 2 x 185 mm ² 32 mm 15 Nm	2 or 4 x 240 mm ² 2 or 4 x 185 mm ² 50 mm 20 Nm					
Nominal current at 40 degree In (A) Phase N	160 to 250 A 160 160	Refer same as Optium 1.0 F3 320 320	315 to 630 A 400 400	800 to 1250A 1000 1000					
Magnetic threshold In (A) Phase N	160 200-400 315-630 500-1000	200 1600-3200 2000-4000 2500-5000	Adjustable 320 500 630 800 1000 1250	1250 4000-8000 5000-10000 6250-12500					
Endurance Electrical Mechanical	8000 25000	8000 25000	8000 25000	4000 10000					

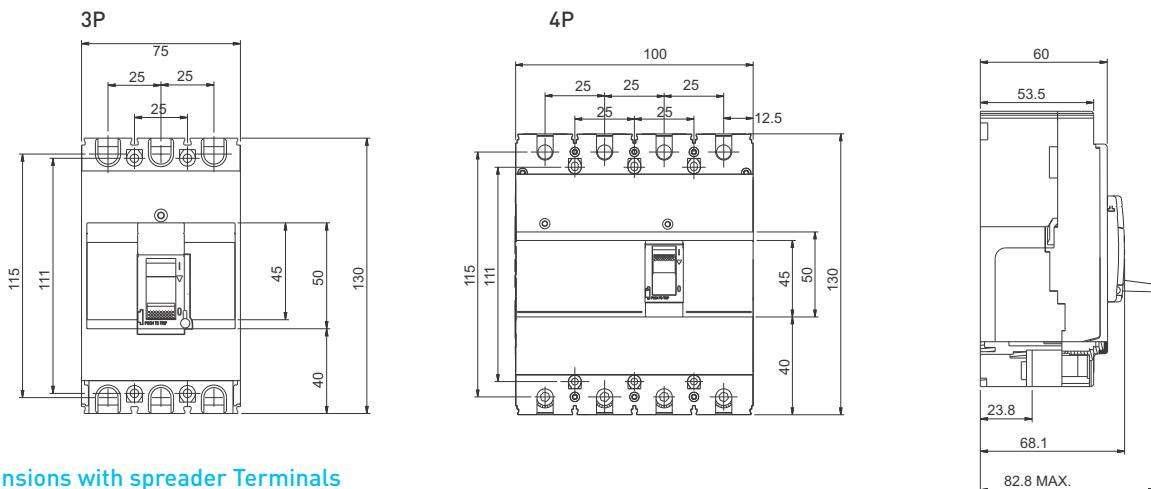
Technical Table

Devices	Optium 2.1 F3	Optium 2.1 F4	Optium 2.1 F5	Optium 2.2 F3	Optium 2.2 F4	Optium 2.2 F5
Mounting	On plate					
Breaking capacity						
380/415V	36kA	50kA	36kA	50kA	36kA	50kA
220/240V						
Breaking capacity %lcu	100%	100%	100%	100%	100%	100%
Characteristics of use						
Nominal frequency	50Hz					
Maximum rated operating voltage	690 V					
Category of use	A	A:In 630A-B:In 200 to 400A	B	A	A:In 630A-B:In 200 to 400A	B
Thermal magnetic adjustment						
Thermal						
Magnetic						
Electronic protection adjustment	Ir : 0,4 to 1 ln Isd : 1,5 to 10 Ir	Ir = 0,4 - 1 x ln tr = 3-30 s Isd = 1,5 - 10 Ir tsd (I=K) = 0-500 ms tsd(I2t=K) = 0-500 ms	Ir = 0,4 - 1 x ln tr = 3-30 s Isd = 1,5 - 10 Ir tsd (I=K) = 0-500 ms tsd(I2t=K) = 0-500 ms	Ir : 0,4 to 1 ln Isd : 1,5 to 10 Ir	Ir = 0,4 - 1 x ln tr = 3-30 s Isd = 1,5 - 10 Ir tsd (I=K) = 0-500 ms tsd(I2t=K) = 0-500 ms lg = 0,2 - 1 x ln tg = 0,1 - 1 s	Ir = 0,4 - 1 x ln tr = 3-30 s Isd = 1,5 - 10 Ir tsd (I=K) = 0-500 ms tsd(I2t=K) = 0-500 ms lg = 0,2 - 1 x ln tg = 0,1 - 1 s"
Maximum cable cross-section						
Rigid cable	2.5 to 150 mm ²	300 mm ² or 2 x 240 mm ²	2 or 4 x 240 mm ²	2.5 to 150 mm ²	300 mm ² or 2 x 240 mm ²	2 or 4 x 240 mm ²
Flexible cable	2.5 to 120 mm ²	240 mm ² or 2 x 185 mm ²	2 or 4 x 185 mm ²	2.5 to 120 mm ²	240 mm ² or 2 x 185 mm ²	2 or 4 x 185 mm ²
Copper bar and lug width	25 mm	32 mm	50 mm	25 mm	32 mm	50 mm
Tightening torque	7Nm /10 Nm	15 Nm	20 Nm	7Nm /10 Nm	15 Nm	20 Nm
Nominal current at 40 degree						
In (A)	Please refer same as Optium 1.0 F3	400 to 630 A	800 to 1250 A	Please refer same as Optium 1.0 F3	400 to 630 A	800 to 1250 A
Phase		400 to 630 A	800 to 1250 A		400 to 630 A	800 to 1250 A
N		0-50-100% of phase value	0-50-100% of phase value		0-50-100% of phase value	0-50-100% of phase value
Magnetic threshold	Adjustable					
In (A)						
Phase						
N						
Endurance						
Electrical	8000	5000	4000	8000	5000	4000
Mechanical	25000	20000	10000	25000	20000	10000

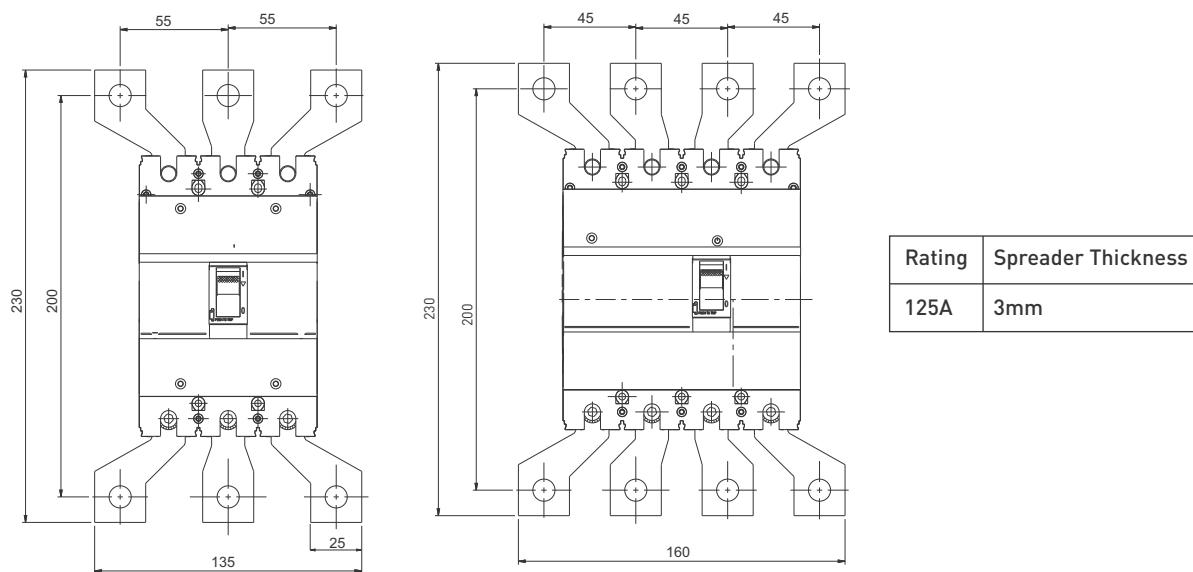
Dimensional Drawings

Optium F1

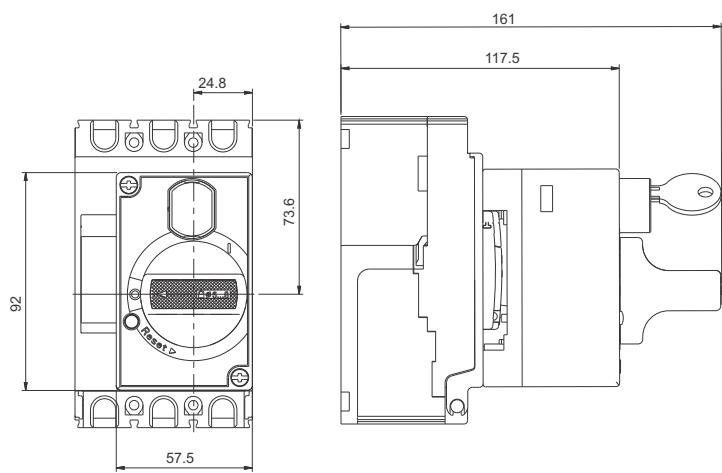
Overall and Mounting Dimensions



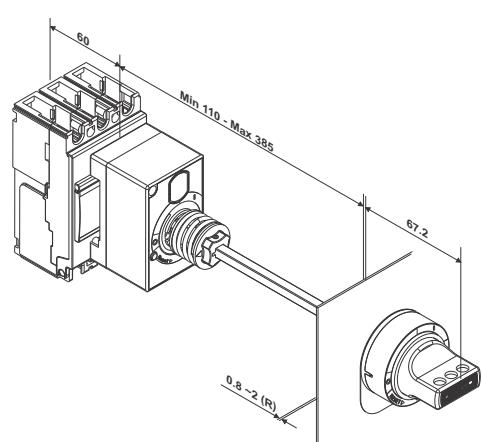
Dimensions with spreader terminals



Dimensions with Rotary Handle-Direct



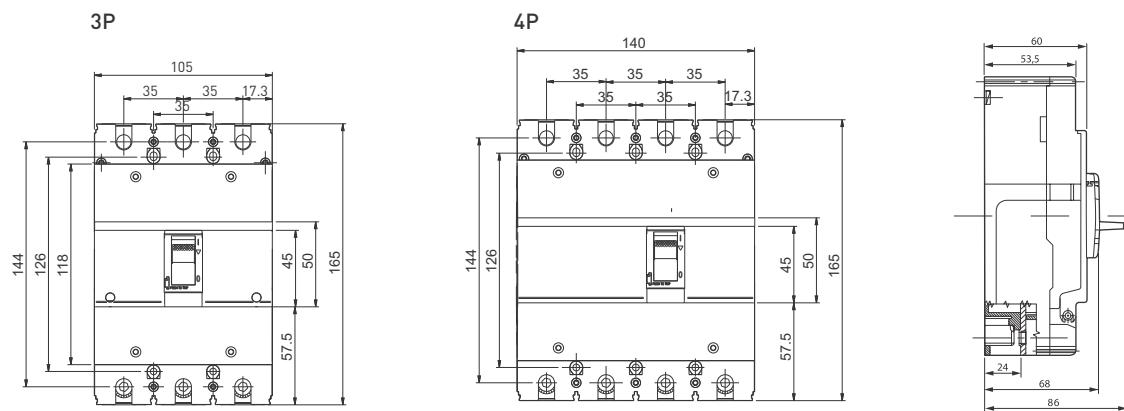
Dimensions with Rotary Handle-Vari-Depth



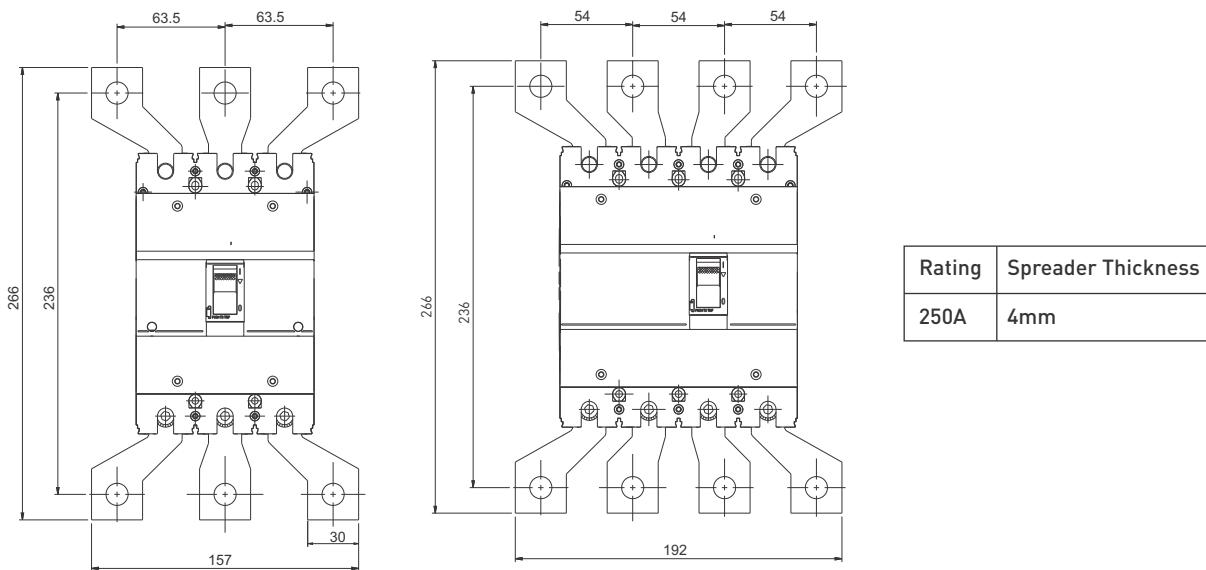
Dimensional Drawings

Optium F2

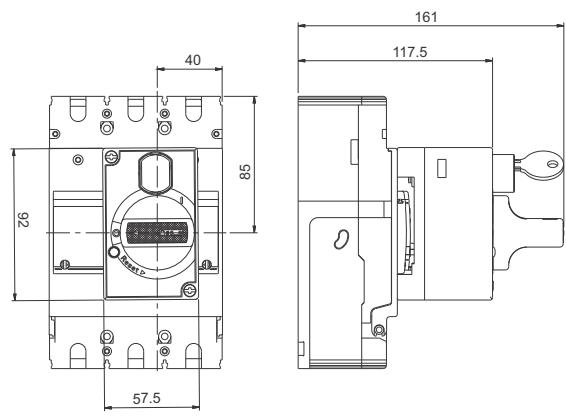
Overall and Mounting Dimensions



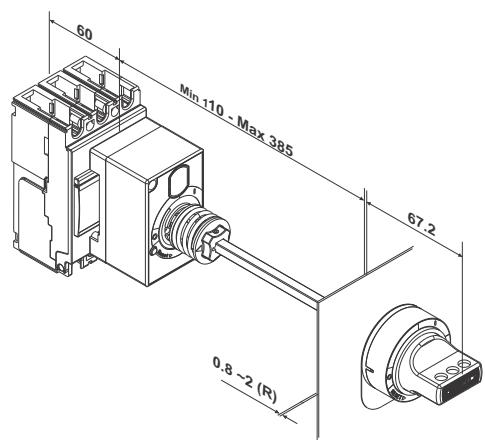
Dimensions with spreader terminals



Dimensions with Rotary Handle-Direct



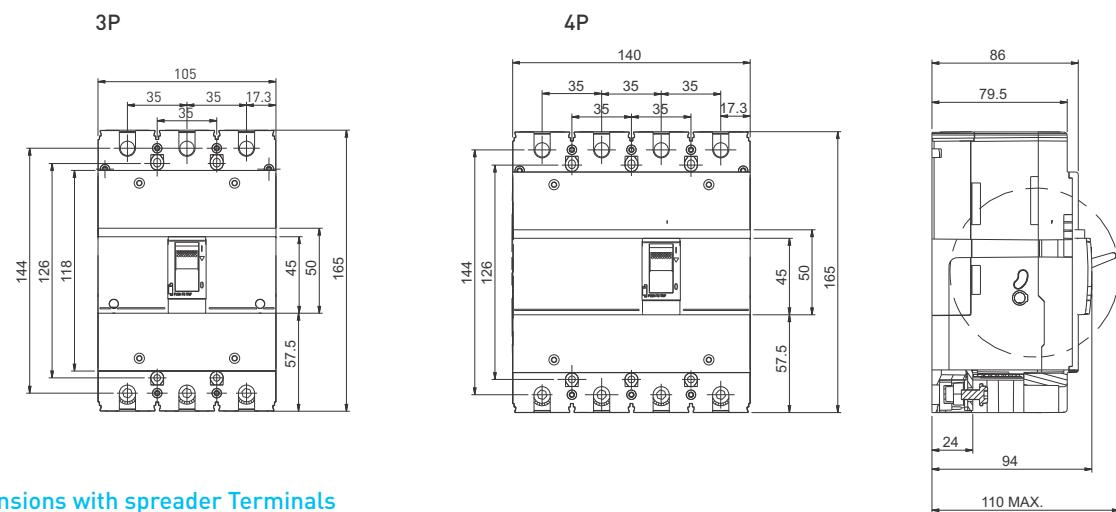
Dimensions with Rotary Handle-Vari-Depth



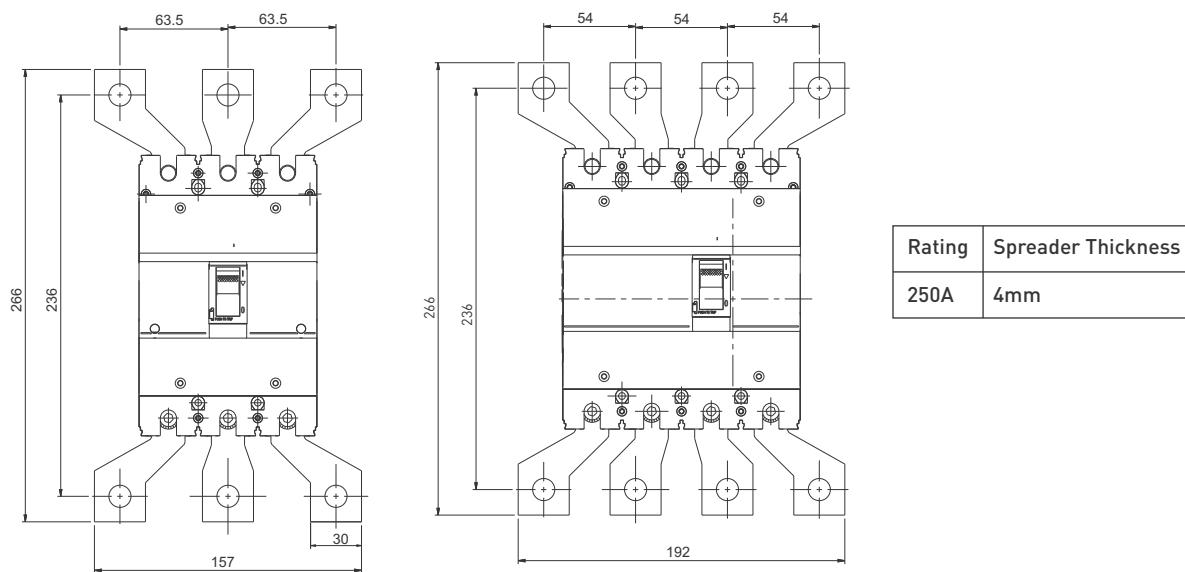
Dimensional Drawings

Optium F3

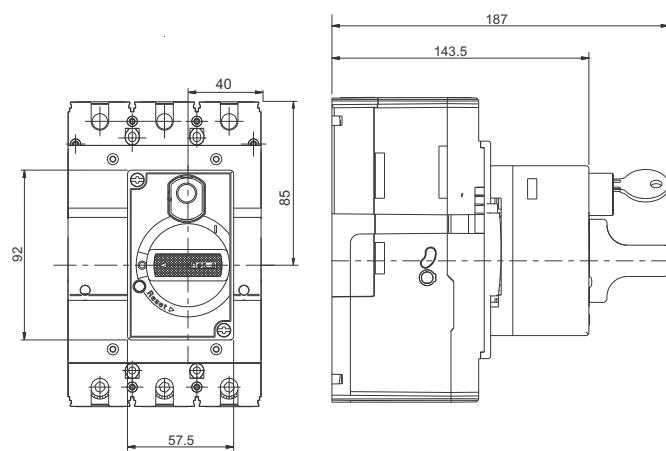
Overall and Mounting Dimensions



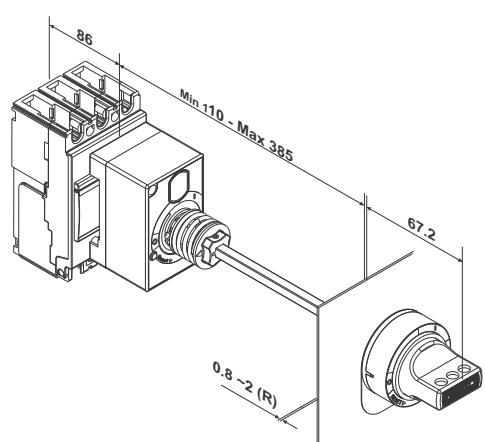
Dimensions with spreader terminals



Dimensions with Rotary Handle-Direct



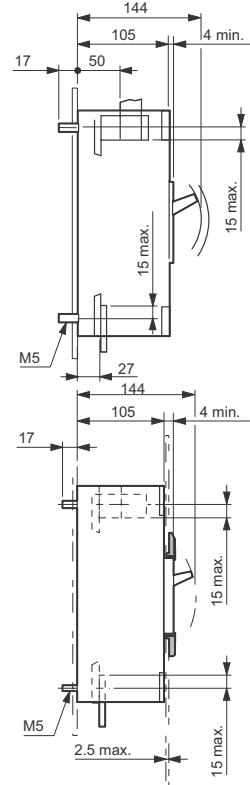
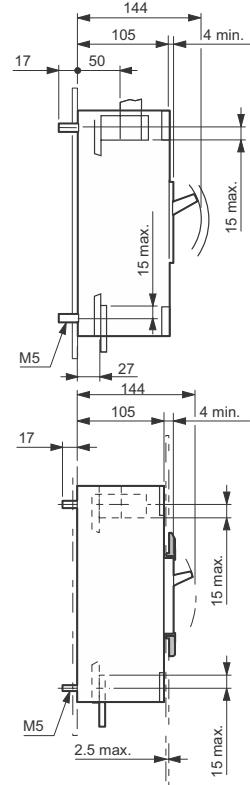
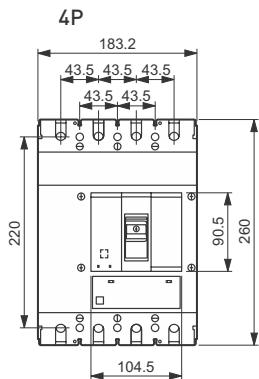
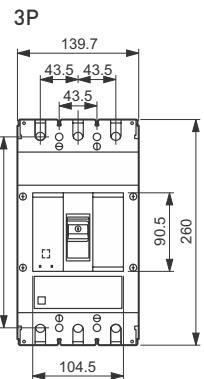
Dimensions with Rotary Handle-Vari-Depth



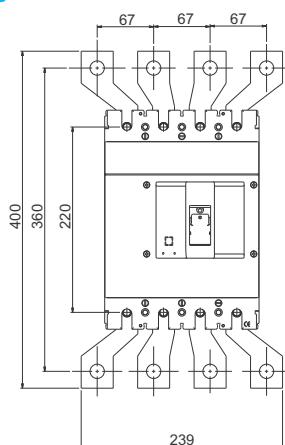
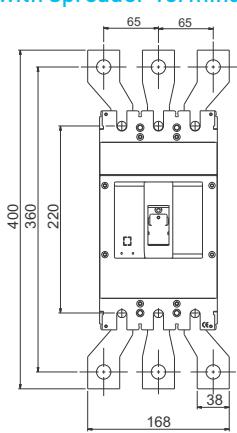
Dimensional Drawings

Optium F4

Overall and Mounting Dimensions

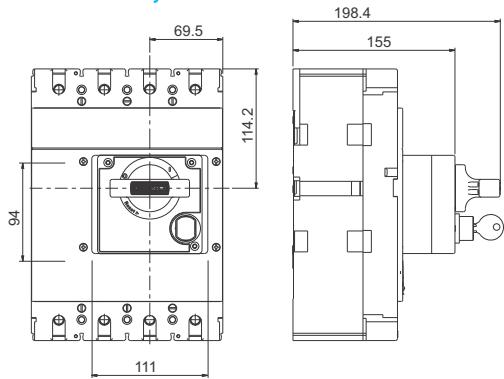


Dimensions with spreader Terminals

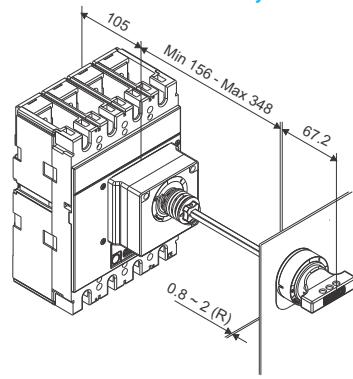


Rating	Spreader Thickness
630A	10mm

Dimensions with Rotary Handle-Direct



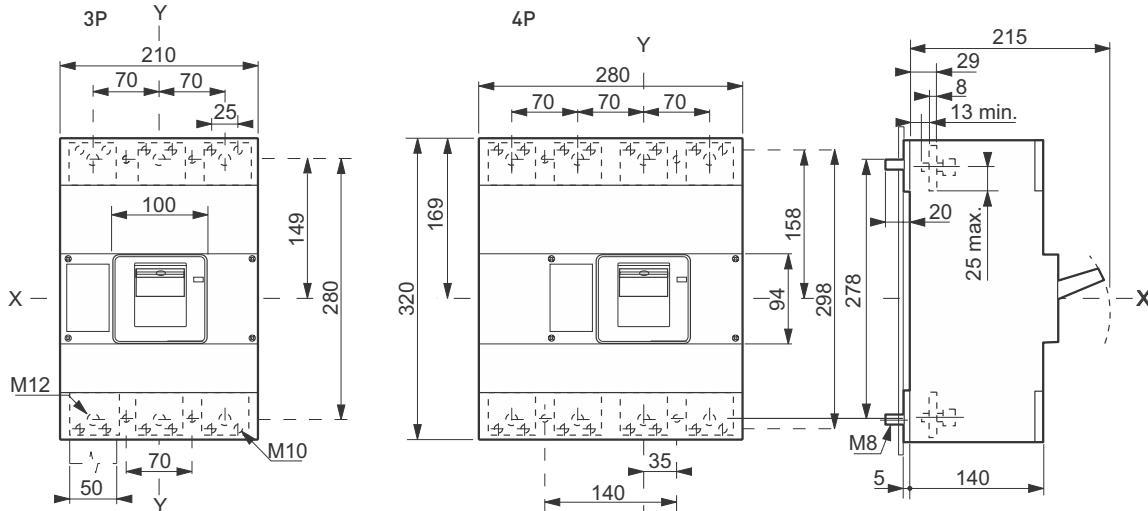
Dimensions with Rotary Handle-Vari-Depth



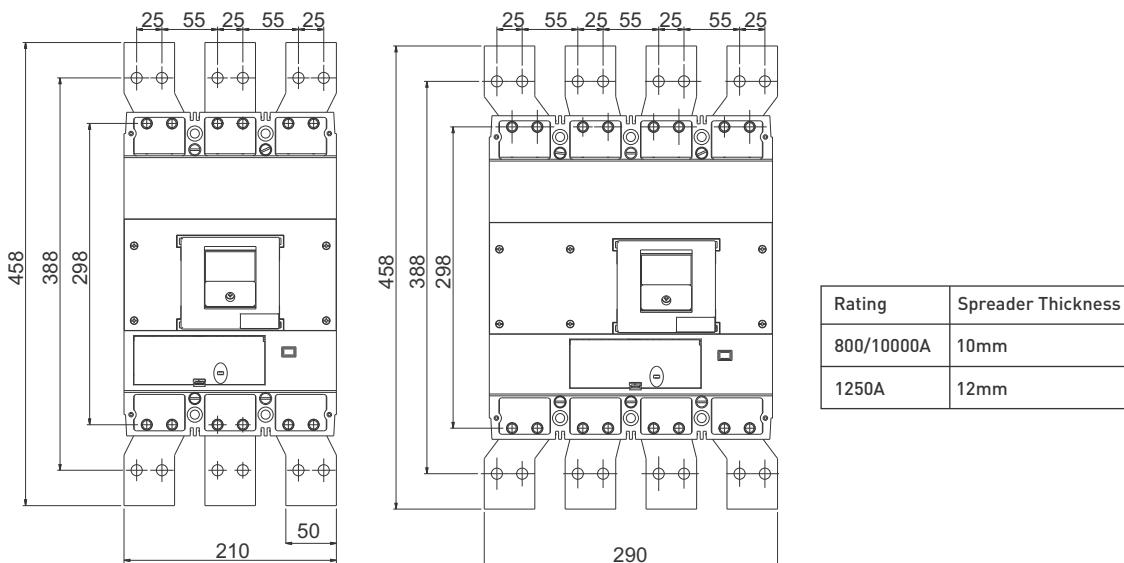
Dimensional Drawings

Optium F5

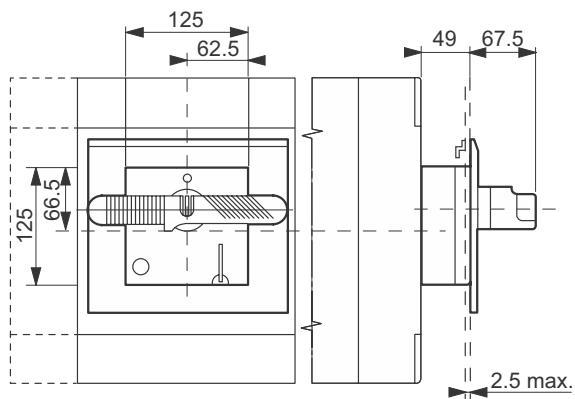
Overall and Mounting Dimensions



Dimensions with spreader Terminals

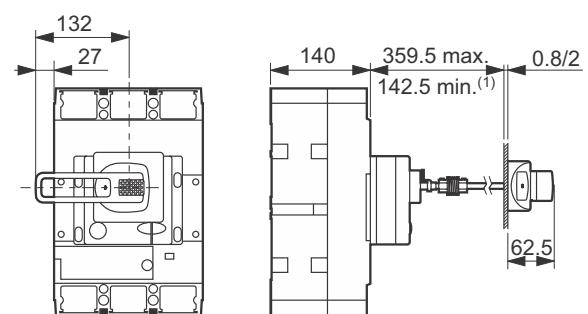


Dimensions with Rotary Handle-Direct



Dimensions with Rotary Handle-Vari-Depth

Mounting with flexible seal



Optium 1.0 (Fixed TM Range)

- Ics =50% Icu as per IEC 60947-II
- Suitable for isolation
- Class II front face
- Fixed Overload & fixed short circuit setting

Frame	Breaking capacity	Rating	3P	4P
F1	16kA	16	830001	830015
F1	16kA	25	830002	830016
F1	16kA	32	830003	830017
F1	16kA	40	830004	830018
F1	16kA	50	830005	830019
F1	16kA	63	830006	830020
F1	16kA	80	830007	830021
F1	16kA	100	830008	830022
F1	16kA	125	830009	830023

Frame	Breaking capacity	Rating	3P	4P
F1	25kA	16	830031	830045
F1	25kA	25	830032	830046
F1	25kA	32	830033	830047
F1	25kA	40	830034	830048
F1	25kA	50	830035	830049
F1	25kA	63	830036	830050
F1	25kA	80	830037	830051
F1	25kA	100	830038	830052
F1	25kA	125	830039	830053

Frame	Breaking capacity	Rating	3P	4P
F1	36kA	16	830061	830075
F1	36kA	25	830062	830076
F1	36kA	32	830063	830077
F1	36kA	40	830064	830078
F1	36kA	50	830065	830079
F1	36kA	63	830066	830080
F1	36kA	80	830067	830081
F1	36kA	100	830068	830082
F1	36kA	125	830069	830083



Frame	Breaking capacity	Rating	3P	4P
F3	50kA	16	830125	830145
F3	50kA	25	830126	830146
F3	50kA	32	830127	830147
F3	50kA	40	830128	830148
F3	50kA	50	830129	830149
F3	50kA	63	830130	830150
F3	50kA	80	830131	830151
F3	50kA	100	830132	830152
F3	50kA	125	830133	830153



Frame	Breaking capacity	Rating	3P	4P
F2	16kA	160	830090	830095
F2	16kA	200	830091	830096
F2	16kA	250	830092	830097
F2	25kA	160	830100	830105
F2	25kA	200	830101	830106
F2	25kA	250	830102	830107
F2	36kA	160	830110	830115
F2	36kA	200	830111	830116
F2	36kA	250	830112	830117



Frame	Breaking capacity	Rating	3P	4P
F3	50kA	160	830134	830154
F3	50kA	200	830135	830155
F3	50kA	250	830136	830156



Frame	Breaking capacity	Rating	3P	4P
F4	36kA	315	830165	830175
F4	36kA	400	830166	830176
F4	36kA	500	830167	830177
F4	36kA	630	830168	830178

	Frame	Breaking capacity	Rating	3P	4P
	F4	50kA	315	830185	830195
	F4	50kA	400	830186	830196
	F4	50kA	500	830187	830197
	F4	50kA	630	830188	830198

	Frame	Breaking capacity	Rating	3P	4P
	F5	50kA	800	830200	830201

Optium 2.0 (Adjustable TM Range)

- $I_{cs} = 100\% I_{cu}$ as per IEC 60947-II
- Suitable for isolation
- Adjustable Short Circuit Setting $I_{sd} = [5 - 10] \times I_{in}$
- Class II front face
- Adjustable Overload Setting $I_r = [0.8 \text{ to } 1.0] \times I_{in}$

	Frame	Breaking capacity	Rating	3P	4P
	F1	16kA	25	830222	830236
	F1	16kA	32	830223	830237
	F1	16kA	40	830224	830238
	F1	16kA	50	830225	830239
	F1	16kA	63	830226	830240
	F1	16kA	80	830227	830241
	F1	16kA	100	830228	830242
	F1	16kA	125	830229	830243

	Frame	Breaking capacity	Rating	3P	4P
	F1	25kA	25	830252	830266
	F1	25kA	32	830253	830267
	F1	25kA	40	830254	830268
	F1	25kA	50	830255	830269
	F1	25kA	63	830256	830270
	F1	25kA	80	830257	830271
	F1	25kA	100	830258	830272
	F1	25kA	125	830259	830273



Frame	Breaking capacity	Rating	3P	4P
F3	36kA	16	830305	830325
F3	36kA	25	830306	830326
F3	36kA	32	830307	830327
F3	36kA	40	830308	830328
F3	36kA	50	830309	830329
F3	36kA	63	830310	830330
F3	36kA	80	830311	830331
F3	36kA	100	830312	830332
F3	36kA	125	830313	830333



Frame	Breaking capacity	Rating	3P	4P
F3	50kA	16	830345	830365
F3	50kA	25	830346	830366
F3	50kA	32	830347	830367
F3	50kA	40	830348	830368
F3	50kA	50	830349	830369
F3	50kA	63	830350	830370
F3	50kA	80	830351	830371
F3	50kA	100	830352	830372
F3	50kA	125	830353	830373



Frame	Breaking capacity	Rating	3P	4P
F2	16kA	160	830280	830285
F2	16kA	200	830281	830286
F2	16kA	250	830282	830287
F2	25kA	160	830290	830295
F2	25kA	200	830291	830296
F2	25kA	250	830292	830297
F3	36kA	160	830314	830334
F3	36kA	200	830315	830335
F3	36kA	250	830316	830336



Frame	Breaking capacity	Rating	3P	4P
F3	50kA	160	830354	830374
F3	50kA	200	830355	830375
F3	50kA	250	830356	830376



Frame	Breaking capacity	Rating	3P	4P
F4	25kA	315	830385	830387
F4	25kA	400	830386	830388
F4	36kA	315	830390	830395
F4	36kA	400	830391	830396
F4	36kA	500	830392	830397
F4	36kA	630	830393	830398
F4	50kA	315	830400	830405
F4	50kA	400	830401	830406
F4	50kA	500	830402	830407
F4	50kA	630	830403	830408



Frame	Breaking capacity	Rating	3P	4P
F5	36kA	800	830410	830413
F5	36kA	1000	830411	830414
F5	36kA	1250	830412	830415
F5	50kA	800	830416	830419
F5	50kA	1000	830417	830420
F5	50kA	1250	830418	830421

Optium 2.1 (Electronic Range)

- $I_{cs} = 100\% I_{cu}$ as per IEC 60947-II
- Suitable for isolation
- Adjustable Overload Setting $I_r = 0.4 - 1 \times I_n$
- Class II front face
- Transparent cover for trip unit as standard
- Adjustable Short circuit Current Setting $I_{sd} = 1.5 - 10 \times I_r$

	Frame	Breaking capacity	Rating	3P	4P
	F3	36kA	40	830430	830440
	F3	36kA	100	830431	830441
	F3	36kA	160	830432	830442
	F3	36kA	250	830433	830443
	F3	50kA	40	830450	830460
	F3	50kA	100	830451	830461
	F3	50kA	160	830452	830462
	F3	50kA	250	830453	830463

Optium 2.1 (Electronic Range)

- $I_{cs} = 100\% I_{cu}$ as per IEC 60947-II
- Suitable for isolation
- Adjustable Neutral pole protection –N,N/2 & Off for 4 pole MCCB
- Adjustable Overload Setting $I_r = 0.4 - 1 \times I_n ; Tr = 3-30 sec$
- Class II front face
- Transparent cover for trip unit as standard
- Innovative front indication LED's(Ready, Overload pre-alarm & Overload)
- Adjustable Short circuit Current Setting $I_{sd} = 1.5 - 10 I_r ; Tsd (I=K) = 0-500 ms; Tsd (I2t=K) = 0-500 ms$

	Frame	Breaking capacity	Rating	3P	4P
	F4	36kA	400	830510	830512
	F4	36kA	630	830511	830513
	F4	50kA	400	830514	830516
	F4	50kA	630	830515	830517

	Frame	Breaking capacity	Rating	3P	4P
	F5	36kA	800	830540	830542
	F5	36kA	1250	830541	830543
	F5	50kA	800	830544	830546
	F5	50kA	1250	830545	830547

Optium 2.2 (Electronic Range)

- Ics =100% Icu as per IEC 60947-II
- Suitable for isolation
- Adjustable Overload Setting Ir = 0.4 - 1 x In
- Ground fault Setting:- Ig = 0.2 - 1 x In
- Class II front face
- Transparent cover for trip unit as standard
- Adjustable Short circuit Current Setting lsd = 1.5 – 10 x Ir

	Frame	Breaking capacity	Rating	3P	4P
	F3	36kA	40	830470	830480
	F3	36kA	100	830471	830481
	F3	36kA	160	830472	830482
	F3	36kA	250	830473	830483
	F3	50kA	40	830490	830500
	F3	50kA	100	830491	830501
	F3	50kA	160	830492	830502
	F3	50kA	250	830493	830503

Optium 2.2

- Ics =100% Icu as per IEC 60947-II
- Suitable for isolation
- Adjustable Neutral pole protection -N,N/2 & Off for 4 pole MCCB
- Adjustable Overload Setting Ir = 0.4 - 1 x In ; Tr = 3-30 sec
- Ground fault Setting:- Ig = 0.2 - 1 x In ; Tg = 0.1 - 1 s
- Class II front face
- Transparent cover for trip unit as standard
- Innovative front indication LED's(Ready, Overload pre-alarm & Overload)
- Adjustable Short circuit Current Setting lsd = 1.5 - 10 Ir ; Tsd (I=K) = 0-500 ms; Tsd (I2t=K) = 0-500 ms

	Frame	Breaking capacity	Rating	3P	4P
	F4	36kA	400	830520	830522
	F4	36kA	630	830521	830523
	F4	50kA	400	830524	830526
	F4	50kA	630	830525	830527

	Frame	Breaking capacity	Rating	3P	4P
	F5	36kA	800	830550	830552
	F5	36kA	1250	830551	830553
	F5	50kA	800	830554	830556
	F5	50kA	1250	830555	830557

Optium Accessories

	Product	Frame	Cat Ref.
Auxiliary contact	F1 F2 F3	830691	
Auxiliary contact	F4-F5	830693	
Alarm Contact	F1 F2 F3	830692	
Alarm Contact	F4-F5	830693	

	Product	Frame	Cat Ref.
"Shunt trip 24 V AC/DC"	F1 F2 F3	830602	
"Shunt trip 110 V AC/DC"	F1 F2 F3	830603	
"Shunt trip 230 V AC/DC"	F1 F2 F3	830604	
"Shunt trip 415 V AC/DC"	F1 F2 F3	830605	
"Shunt trip 24 V AC/DC"	F4 F5	830642	
"Shunt trip 110 V AC/DC"	F4 F5	830643	
"Shunt trip 230 V AC/DC"	F4 F5	830644	
"Shunt trip 415 V AC/DC"	F4 F5	830645	

	Product	Frame	Cat Ref.
"Undervoltage 24 V DC"	F1 F2 F3	830606	
"Undervoltage 110V AC"	F1 F2 F3	830607	
"Undervoltage 230V AC"	F1 F2 F3	830608	
"Undervoltage 415V AC"	F1 F2 F3	830609	
"Undervoltage 24 V DC"	F4 F5	830646	
"Undervoltage 110V AC"	F4 F5	830647	
"Undervoltage 230V AC"	F4 F5	830648	
"Undervoltage 415V AC"	F4 F5	830649	

Optium Accessories

	Product	Frame	Cat Ref.
	Rotary Handle Direct	F1	830611
	Rotary Handle vary-Depth	F1	830612
	Rotary Handle Direct	F2 F3	830626
	Rotary Handle vary-Depth	F2 F3	830627
	Rotary Handle Direct	F4	830651
	Rotary Handle vary-Depth	F4	830652
	Rotary Handle Direct	F5	830671
	Rotary Handle vary-Depth	F5	830672

	Product	Frame	Cat Ref.
	Ronis lock Direct RH	F1 F2 F3	830613
	Ronis lock Vary-Depth RH	F1 F2 F3	830614
	Ronis lock Vary-Depth RH	F4	830653
	Ronis lock Vary-Depth RH	F5	830673

	Product	Frame	Cat Ref.
	Padlock Off position	F1 F2 F3	830615
	Padlock Off position	F4	830654
	Padlock Off position	F5	830674

	Product	Frame	Cat Ref.
	Phase insulators 3P	F1 F2	830616
	Phase insulators 3P	F3	830628
	Phase insulators 3P	F4	830655
	Phase insulators 3P	F5	830675
	Phase insulators 4P	F1 F2	830617
	Phase insulators 4P	F3	830629
	Phase insulators 4P	F4	830656
	Phase insulators 4P	F5	830676

Optium Accessories

	Product	Frame	Cat Ref.
	Terminal cover 3P	F4	830657
	Terminal cover 3P	F5	830677
	Terminal cover 4P	F4	830658
	Terminal cover 4P	F5	830678
	Terminal shield 3P	F5	830679
	Terminal shield 4P	F5	830680

	Product	Frame	Cat Ref.
	Spreaders 3P	F1	830618
	Spreaders 4P	F1	830619
	Spreaders 3P	F2 F3	830632
	Spreaders 4P	F2 F3	830633
	Spreaders 3P	F4	830659
	Spreaders 4P	F4	830660
	Spreaders 3P 800/1000A	F5	830681
	Spreaders 4P 800/1000A	F5	830682
	Spreaders 3P 1250A	F5	830685
	Spreaders 4P 1250A	F5	830686

	Product	Frame	Cat Ref.
	Cages 3P upto 50A	F1	830620
	Cages 4P upto 50A	F1	830621
	Cages 3P 63 to 100A	F1	830622
	Cages 4P 63 to 100A	F1	830623
	Cages 3P 125A	F1	830624
	Cages 4P 125A	F1	830625
	Cages 3P	F2	830630
	Cages 4P	F2	830631
	Cages 3P	F3	830634
	Cages 4P	F3	830635
	Cages 3P	F4	830661
	Cages 4P	F4	830662
	Cages 3P	F5	830683
	Cages 4P	F5	830684