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Taoper

MCCB Expert & Manufacturer

TNS、TNSX、TCVS、TEZC MCCB
Molded Case Circuit Breaker



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YUEQING DINQIAO ELECTRIC CO.,LTD

www.taoper-electric.com



Better Vision

Exceeding customers' expectation with remarkable products and services. Being an enterprise that society respects and staff take pride in

Core Value

Confidence
Faith
Credit

Sacred Mission

Growing together with top electric enterprise in the world.
Offering integrated electric solutions and services to top clients.

ABOUT US

We are a professional molded case circuit breakers (MCCB) manufacturer. In 2014, we had build the yueqing dinqiao electric company and created the brand taoper. Yueqing dinqiao electric was established in wenzhou city, we are near to yiwu,shanghai and ningbo. With over six years of experience, we have manufactured compact TNSX mccb and TNS mccb, but also the easypact TCVS mccb and TEZC mccb. Our product is guaranteed in quality, design and durability, all products with 2 years warranty.

We had exported products&service to over 72 countries in Southeast Asia, Middle East, Africa ,South America and Europe etc. Our idea is do the right thing, not the easy one, so when our customers buy from us , they know themself are getting value with good service, like performance, delivery time, reliability and quality, not only just price. We promised to give our customers the best solution we can. Moreover, we can offer OEM and ODM service ,because of we have powerful technical teams.

Your best choose is taoper!

Taoper



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TNS MCCB 800A to 1600A

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ComPact Type

Manually Operated

Protection of Distribution System



Characteristics and Performance
TNS MCCB from 800A to 1600A

Characteristics and Performance
TNS MCCB from 800A to 1600A



TNS 800N/1000N/1250N/1600N



TNS 800N/1000N/1250N/1600N

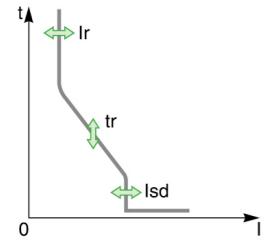


Shunt Trip

circuit breakers				TNS800		TNS1000		TNS1250		TNS1600		
Number of poles				3, 4		3, 4		3, 4		3, 4		
Control	manual	toggle	●		●		●		●			
		direct or extended rotary handle	●		●		●		●			
	electric	●		●		●		●				
Type of circuit breaker				N		H		N		H		
Connections	fixed	front connection	●		●		●		●			
		rear connection	●		●		●		●			
		front connection with bare cables	●		●		●		-			
	withdrawable (on chassis)	front connection	●		●		●		●			
		rear connection	●		●		●		●			
			-		-		-		-			
Electrical characteristics as per IEC 60947-2 and EN 60947-2												
Rated current (A)	In	50 °C	1000		1000		1250		1600			
		65 °C	1000		1000		1250		1510			
Rated current (A)	Ui		800		800		800		800			
Rated impulse withstand voltage (kV)	Uimp		8		8		8		8			
Rated operational voltage (V)	Ue	AC 50/60 Hz	690		690		690		690			
Type of circuit breaker				N		H		N		H		
Ultimate breaking capacity (kA rms)	Manual	AC 50/60 Hz	l _{cu}	220/240 V	85		85		85		85	
			380/415 V	50		70		50		70		
			440 V	50		65		50		65		
			500/525 V	40		50		40		50		
			660/690 V	30		42		30		42		
			220/240 V	50		52		50		52		
	AC 50/60 Hz	l _{cs}	380/415 V	50		52		50		52		
		440 V	50		48		50		48			
		500/525 V	40		37		40		37			
		660/690 V	30		31		30		31			
		l _{cw}	AC	1 s	19.2		19.2		19.2		19.2	
		50/60 Hz		3 s	-		-		-		-	
Integrated instantaneous protection				kA peak ± 10 %		40		40		40		
Suitability for isolation				●		●		●		●		
Utilisation category				B		B		B		B		
Durability (C-O cycles)	mechanical		10000		10000		10000		10000			
		440 V	In/2	6000		6000		5000		5000		
	electrical	440 V	In	5000		5000		4000		2000		
		690 V	In/2	4000		4000		3000		2000		
690 V	In	2000		2000		2000		1000				
Pollution degree				3		3		3		3		

Characteristics and Dimensions For TNS 800A to 1600A,3P-4P

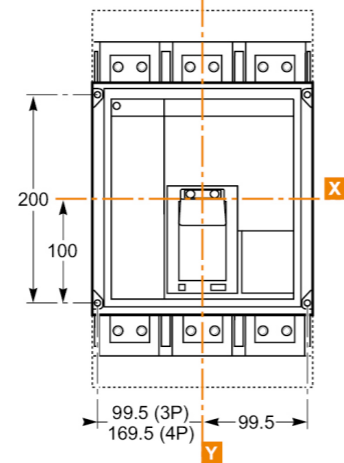
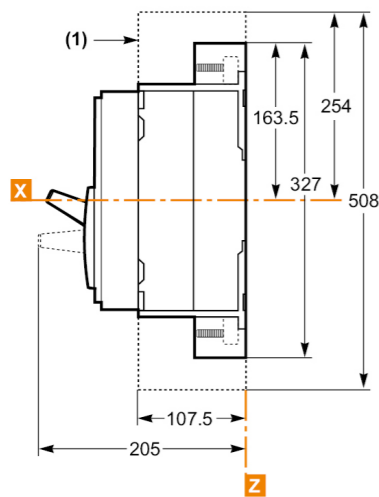
Micrologic 2.0



Long-time											
Current setting (A)	$I_r = I_n \times \dots$	0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.98	1	
tripping between 1.05 and 1.20 x I_r		other ranges or disable by changing long-time rating plug									
Time setting	tr (s)	tr = 0.5 s to 24 s, step 0.5 s for 6 I_r									
Time setting example:	Accuracy: 0 to -30 %	1.5 x I_r	12.5	25	50	100	200	300	400	500	600
time delay (s)	Accuracy: 0 to -20 %	6 x I_r	0.5	1	2	4	8	12	16	20	24
	Accuracy: 0 to -20 %	7.2 x I_r	0.7	0.69	1.38	2.7	5.5	8.3	11	13.8	16.6
Thermal memory		20 minutes before and after tripping									
Instantaneous											
Pick-up (A)	$I_{sd} = I_r \times \dots$	1.5	2	2.5	3	4	5	6	8	10	
Accuracy: $\pm 10\%$											
Time delay		Max resettable time: 20 ms Max break time: 80 ms									

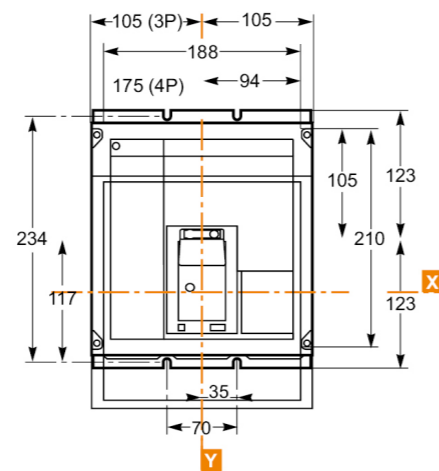
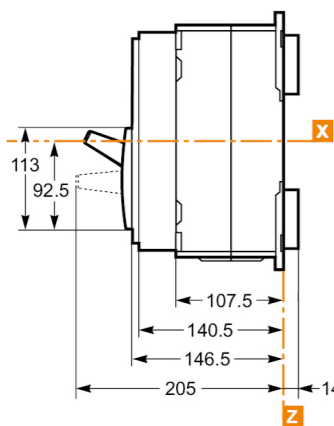
Manual control

Front connection (N, L)



[1] Terminal shields are optional.

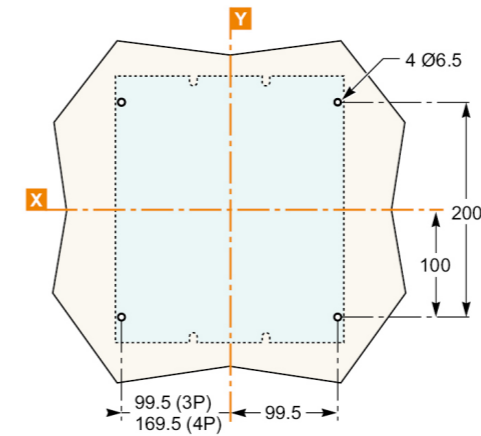
Rear connection



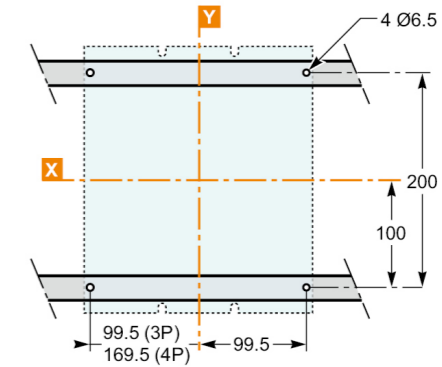
Characteristics and Dimensions For TNS 800A to 1600A,3P-4P

Front connection

On backplate

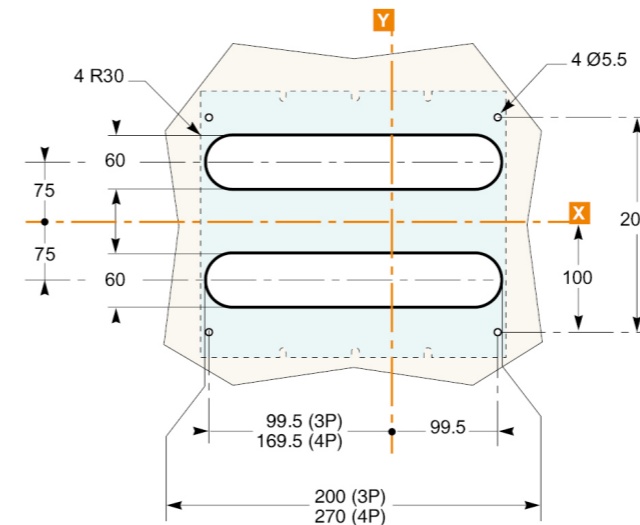


On rails

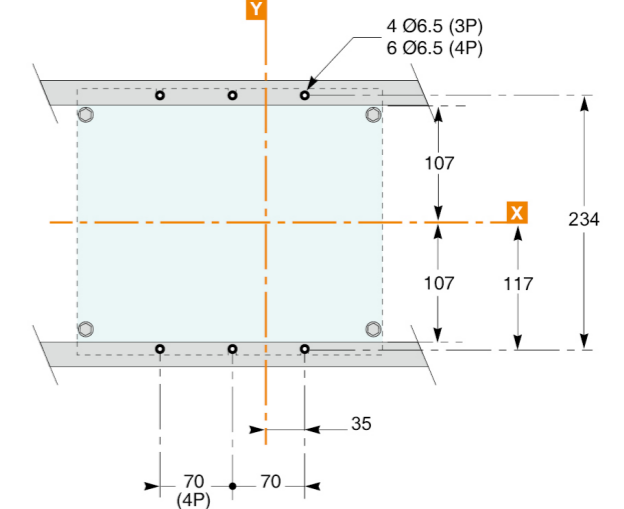


Rear connection

On backplate



On rails



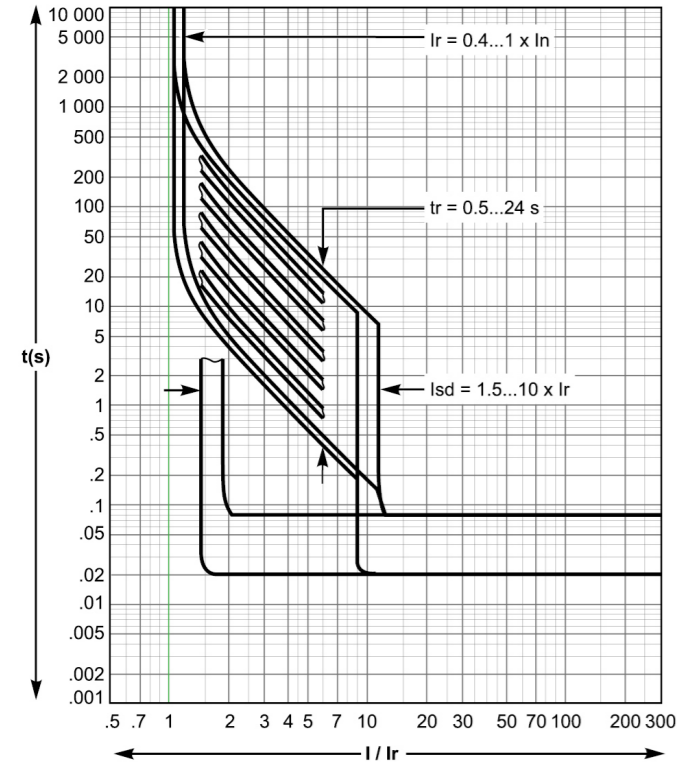
Note: Mounting parameters for electrically operated devices are identical to those for manually operated devices.

X and Y are the symmetry planes for a 3-pole device
Z is the back plane of the device.

Tripping and Limitation Curves For TNS 800A to 1600A

Micrologic electronic control units

Micrologic 2.0



TNSX MCCB 16A to 630A

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ComPact Type

Flexible Installation

High Breaking Capacity





TNSX 100N/160N/250N 1P



TNSX 100N/160N 2P

circuit breakers				TNSX100		TNSX160		TNSX250		
Number of poles				1	2	1	2	1		
Control	manual	toggle		●	●	●	●	●		
		direct or extended rotary handle		-	-	-	-	-		
	electric			-	-	-	-	-		
Connections	fixed	front connection		●	●	●	●	●		
		rear connection		●	●	●	●	●		
	withdrawable	front connection		-	-	-	-	-		
		rear connection		-	-	-	-	-		
Electrical characteristics as per IEC/EN 60947-2										
Rated current (A)	In	40 °C		100	100	160	160	250		
Rated insulation voltage (V)	Ui			750	750	750	750	750		
Rated impulse withstand voltage (kV)	Uimp			8	8	8	8	8		
Rated operational voltage (V)	Ue	AC 50/60 Hz		277	690	277	690	277		
		DC		250	500	250	500	-		
Type of circuit breaker				F	N	F	F	N	F	
Ultimate breaking capacity (kA rms)	Icu	AC 50/60 Hz	220/240 V	18	25	36	18	25	36	25
			380/415 V	-	-	18	-	-	18	-
			440 V	-	-	15	-	-	15	-
			500/525 V	-	-	10	-	-	10	-
			660/690 V	-	-	5	-	-	5	-
Service breaking capacity (kA rms)	Ics	% Icu		100 %	100 %	100 %	100 %	100 %	100 %	
Suitability for isolation				●	●	●	●	●		
Utilisation category				A	A	A	A	A	A	
Durability (C-O cycles)	mechanical			20000	20000	20000	20000	20000	10000	
		electrical	277 V	In/2	20000	20000	20000	20000	20000	10000
				In	10000	10000	10000	10000	5000	
Protection and measurements										
Type of trip units				built-in thermal-magnetic			built-in thermal-magnetic			
Ratings	long time	In		16 20 25 30 40	50 63 80 100	125 160		160 200 250		
			Overload protection (thermal)	threshold	fixed		fixed		fixed	
Short-circuit protection (magnetic)	instantaneous pickup	Im	value indicated for AC	fixed	16 20 25 30 40	50 63 80 100	125 160	160 200 250		
					190 190 300 300 500	500 500 640 800	1000 1250	850 850 850		
Add-on earth-leakage protection				Vigi add-on combination with Vigirex relay	-	●	-	●	-	
Additional indication and control auxiliaries										
Indication contacts					●	-	●	-		
Voltages releases				MX shunt release	-	●	-	●	-	
				MN undervoltage release	-	●	-	●	-	
Installation										
Accessories	terminal extensions and spreaders			●	●	●	●	●	●	
	terminal shields and interphase barriers			●	●	●	●	●	●	
	escutcheons			●	●	●	●	●	●	
Dimensions (mm)	W x H x D			35 x 161 x 86	70 x 161 x 86	35 x 161 x 86	70 x 161 x 86	35 x 161 x 86		
Weight (kg)				0.7	1.2	0.7	1.2	0.7		
Source changeover system										
Manual mechanical interlocking				●	●	●	●	●		

Characteristics and Performance

TNSX MCCB from 16A to 250A



TNSX 100N/160N 3P



TNSX 100N/160N 4P



TNSX 250N 3P



TNSX 250N 4P

Common characteristics			
Rated voltages	Insulation voltage (V)	Ui	800
	Insulation voltage for ELCB	Ui	500
	Impulse withstand voltage (kV)	Uimp	8
	Operational voltage (V)	Ue AC 50/60 Hz	690
	Operation voltage for ELCB	Ue AC 50/60 Hz	440
Suitability for isolation		IEC/EN 60947-2	yes
Utilisation category			A
Pollution degree		IEC 60664-1	3

Common characteristics			
Control	Manual	With toggle	●
		With direct or extended rotary handle	●
Versions	Fixed		●

Circuit breakers				TNSX100				TNSX160				TNSX250				
Breaking capacity levels				B	F	N	H	B	F	N	H	B	F	N	H	
Electrical characteristics as per IEC/EN 60947-2																
Rated current (A) In 40 °C				100				160				250				
Number of poles				2, 3, 4				2, 3, 4				2, 3, 4				
Breaking capacity (kA rms)																
Icu	AC 50/60 Hz	220/240 V		40	85	90	100	40	85	90	100	40	85	90	100	
		380/415 V		25	36	50	70	25	36	50	70	25	36	50	70	
		440 V		20	35	50	65	20	35	50	65	20	35	50	65	
		500 V		15	25	36	50	15	30	36	50	15	30	36	50	
		525 V		-	22	35	35	-	22	35	35	-	22	35	35	
		660/690 V		-	8	10	10	-	8	10	10	-	8	10	10	
Service breaking capacity (kA rms)																
Ics	AC 50/60 Hz	220/240 V		40	85	90	100	40	85	90	100	40	85	90	100	
		380/415 V		25	36	50	70	25	36	50	70	25	36	50	70	
		440 V		20	35	50	65	20	35	50	65	20	35	50	65	
		500 V		7	12	36	50	15	30	36	50	15	30	36	50	
		525 V		-	11	35	35	-	22	35	35	-	22	35	35	
		660/690 V		-	4	10	10	-	8	10	10	-	8	10	10	
Durability (C-O cycles) Mechanical		50000				40000				20000						
Characteristics as per UL 508																
Breaking capacity (kA rms)	AC 50/60 Hz	240 V		-	85	85	85	-	85	85	85	-	85	85	85	
		480 V		-	25	50	65	-	35	50	65	-	35	35	35	
		600 V		-	10	10	10	-	10	10	10	-	15	15	15	
Protection and measurements																
Short-circuit protection	Magnetic only			●	●	●	●	●	●	●	●	●	●	●	●	
	Thermal magnetic			●	●	●	●	●	●	●	●	●	●	●	●	
Electronic	with neutral protection (Off-0.5-1-OSN)			●	●	●	●	●	●	●	●	●	●	●	●	
	with ground-fault protection			●	●	●	●	●	●	●	●	●	●	●	●	
	with zone selective interlocking (ZSI)			●	●	●	●	●	●	●	●	●	●	●	●	
Earth-leakage protection	By Vigi add-on			●	●	●	●	●	●	●	●	●	●	●	●	
	By Vigirex relay			●	●	●	●	●	●	●	●	●	●	●	●	
Installation / connections																
Dimensions and weights																
Dimensions (mm) W x H x D	Fixed, front connections	2/3P		105 x 161 x 86				105 x 161 x 86				105 x 161 x 86				
		4P		140 x 161 x 86				140 x 161 x 86				140 x 161 x 86				
Weight (kg)	Fixed, front connections	2/3P		2.05				2.2				2.4				
		4P		2.4				2.6				2.8				
Connections																
Connection terminals		Pitch	With/without spreaders		35/45 mm				35/45 mm				35/45 mm			
Large Cu or Al cables		Cross-section	mm ²		300				300				300			
Source-changeover system																
Manual mechanical interlocking				●	●	●	●	●	●	●	●	●	●	●	●	
Automatic source-changeover				●	●	●	●	●	●	●	●	●	●	●	●	

Characteristics and Performance

TNSX MCCB from 400A to 630A



TNSX 400N/630N 3P



TNSX 400N/630N 4P



Trip unit



Shunt Trip

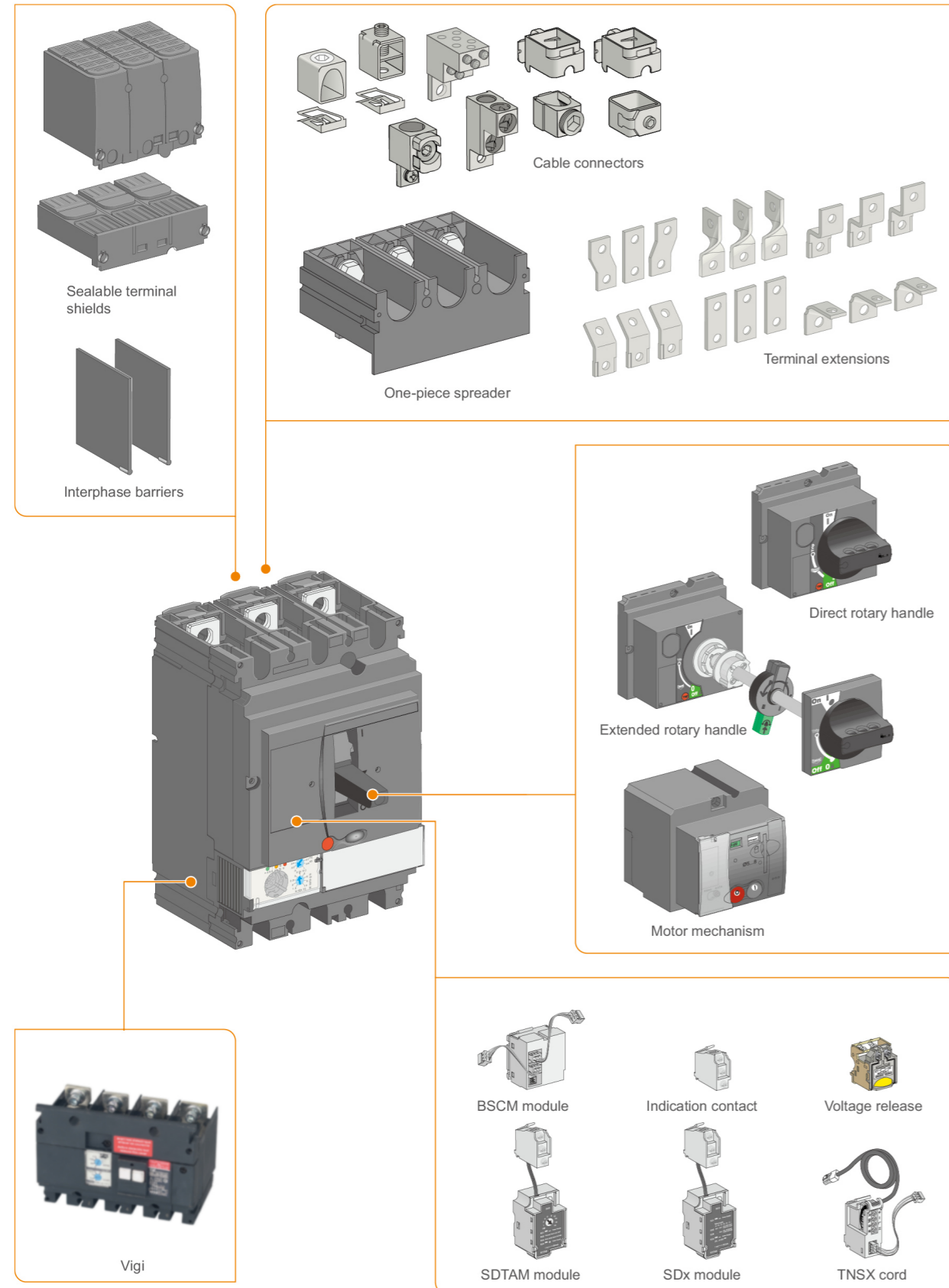
Common characteristics			
Rated voltages	Insulation voltage (V)	Ui	800
	Insulation voltage for ELCB	Uj	500
	Impulse withstand voltage (kV)	Uimp	8
	Operational voltage (V)	Ue	AC 50/60 Hz 690
	Operation voltage for ELCB	Ue	AC 50/60 Hz 440
Suitability for isolation		IEC/EN 60947-2	yes
Utilisation category			A
Pollution degree		IEC 60664-1	3

Circuit breakers				TNSX400			TNSX630		
Breaking capacity levels				F	N	H	F	N	H
Electrical characteristics as per IEC/EN 60947-2									
Rated current (A)	In	40 °C		400			630		
Number of poles				3, 4			3, 4		
Breaking capacity (kA rms)									
Icu	AC 50/60 Hz	220/240 V		40	85	100	40	85	100
		380/415 V		36	50	70	36	50	70
		440 V		30	42	65	30	42	65
		500 V		25	30	50	25	30	50
		525 V		20	22	35	20	22	35
		660/690 V		10	10	20	10	10	20
Service breaking capacity (kA rms)									
Ics	AC 50/60 Hz	220/240 V		40	85	100	40	85	100
		380/415 V		36	50	70	36	50	70
		440 V		30	42	65	30	42	65
		500 V		25	30	50	25	30	50
		525 V		10	11	11	10	11	11
		660/690 V		10	10	10	10	10	10
Durability (C-O cycles)				Mechanical			15000		
Characteristics as per UL 508									
Breaking capacity (kA rms)	AC 50/60 Hz	240 V		85	85	85	85	85	85
		480 V		35	50	65	35	50	65
		600 V		20	10	20	20	20	20
Protection and measurements									
Short-circuit protection	Magnetic only			-			-		
	Thermal magnetic			●			●		
Electronic	with neutral protection (Off-0.5-1-OSN)			●			●		
	with ground-fault protection			●			●		
	with zone selective interlocking (ZSI)			●			●		
Earth-leakage protection	By Vigi add-on			●			●		
	By Vigirex relay			●			●		
Installation / connections									
Dimensions and weights									
Dimensions (mm)	W x H x D	Fixed, front connections	2/3P	140 x 255 x 110			140 x 255 x 110		
			4P	185 x 255 x 110			185 x 255 x 110		
Weight (kg)		Fixed, front connections	2/3P	6.05			6.2		
			4P	7.90			8.13		
Connections									
Connection terminals	Pitch	With/without spreaders	45/52.5 mm, 45/70 mm			45/52.5 mm, 45/70 mm			
Large Cu or Al cables	Cross-section	mm ²	4 x 240			4 x 240			
Source-changeover system									
Manual mechanical interlocking				●			●		
Automatic source-changeover				●			●		

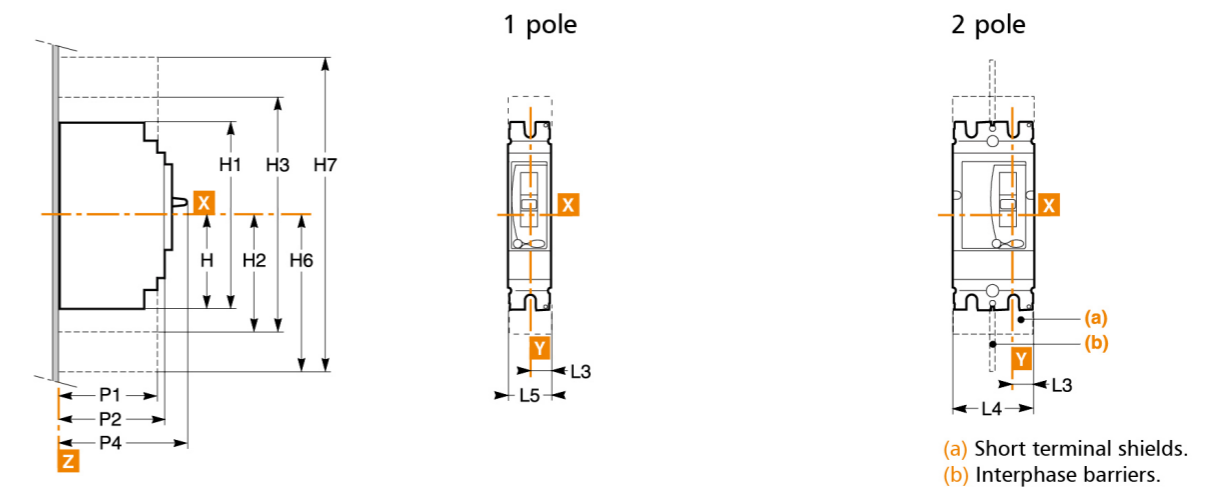
Characteristics and Performance

TNSX MCCB from 400A to 630A

Common characteristics			
Control	Manual	With toggle	●
		With direct or extended rotary handle	●
Versions	Fixed		●

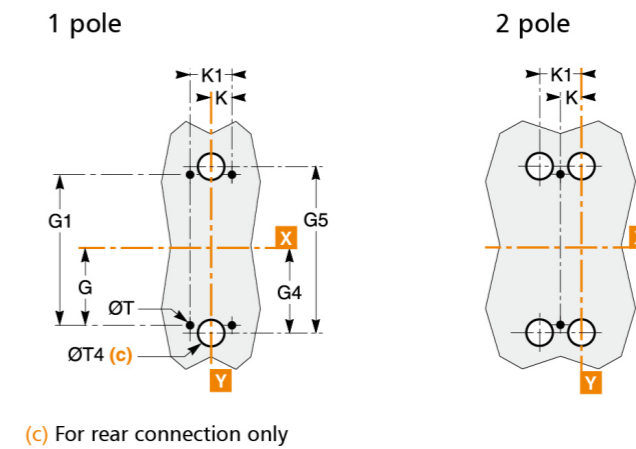


Dimensions

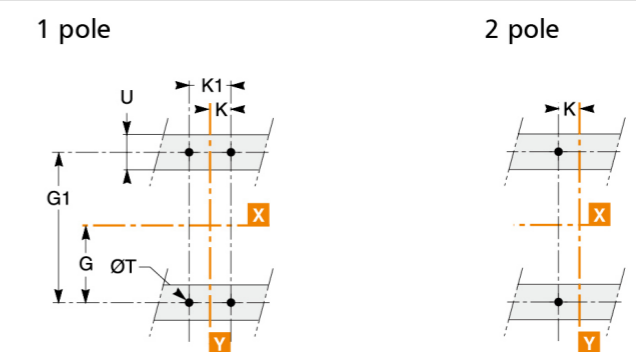


Mounting

On backplate



On rails

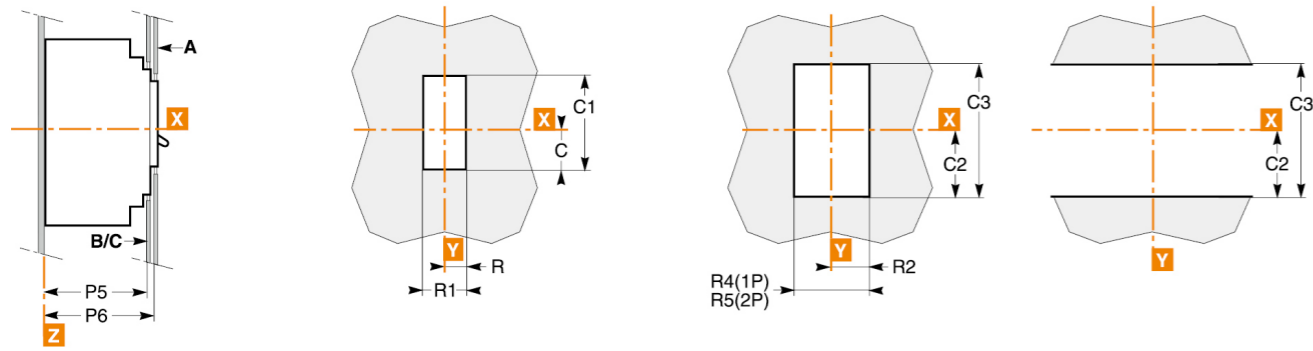


Dimensions and Mounting

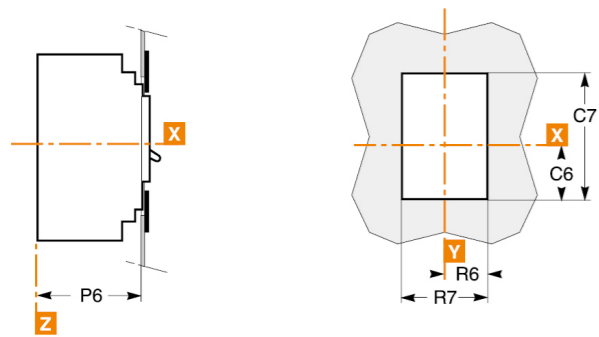
For TNSX 16A to 250A, 1P-2P

Front-panel cutout

On backplate



With escutcheon

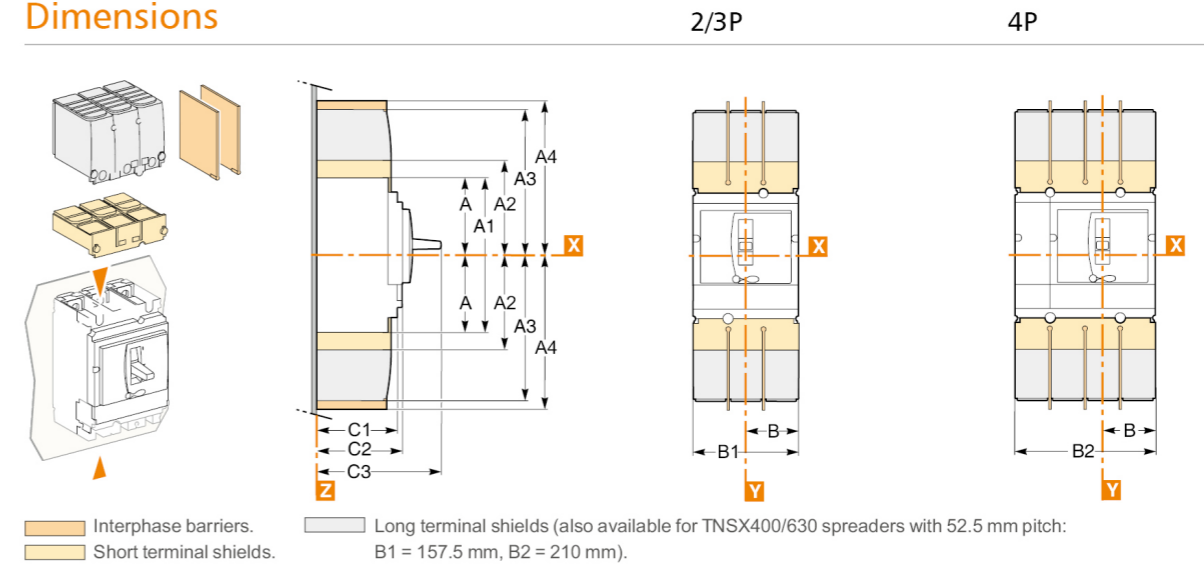


Dimensions (mm)											
Type	C	C1	C2	C3	C6	C7	G	G1	G4	G5	H
TNSX100/250	29	76	54	108	43	104	62.5	125	70	140	80.5
Type	H1	H2	H3	H4	H6	H7	K	K1	L3	L4	L5
TNSX100/250	161	94	188	160.5	178.5	357	17.5	35	17.5	70	35
Type	P1	P2	P4	P5	P6	R	R1	R2	R4	R5	R6
TNSX100/250	81	86	111	83	88	14.5	29	19	38	73	29
Type	R7	ØT	ØT4	U							
TNSX100/250	58	6	22	≤ 32							

Dimensions and Mounting

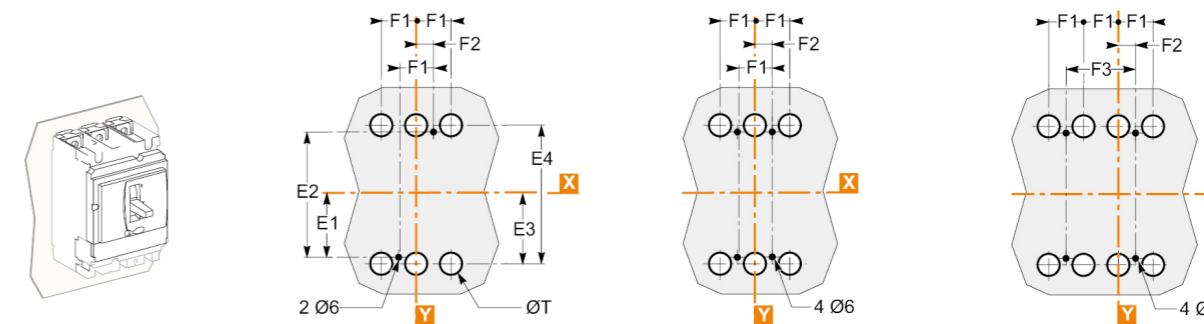
For TNSX 16A to 630A, 2P-3P-4P

Dimensions

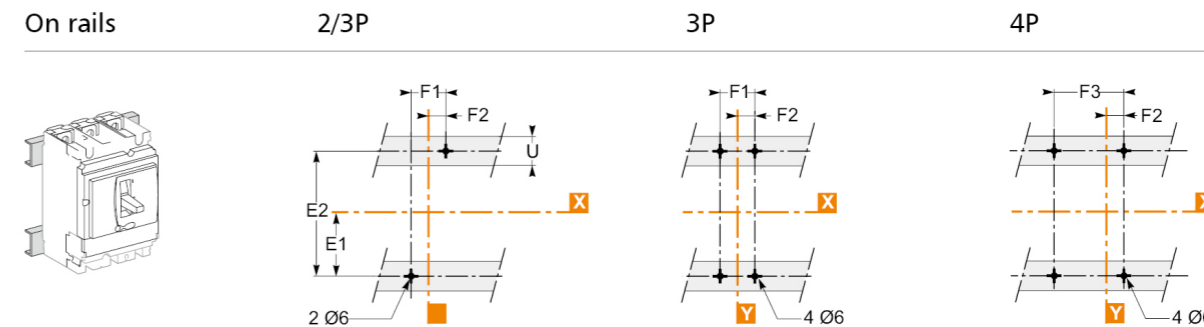


Mounting

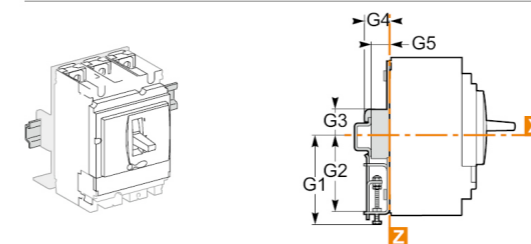
	TNSX100 to 250	TNSX400/630	TNSX100 to 630
On backplate	2/3P	3P	4P



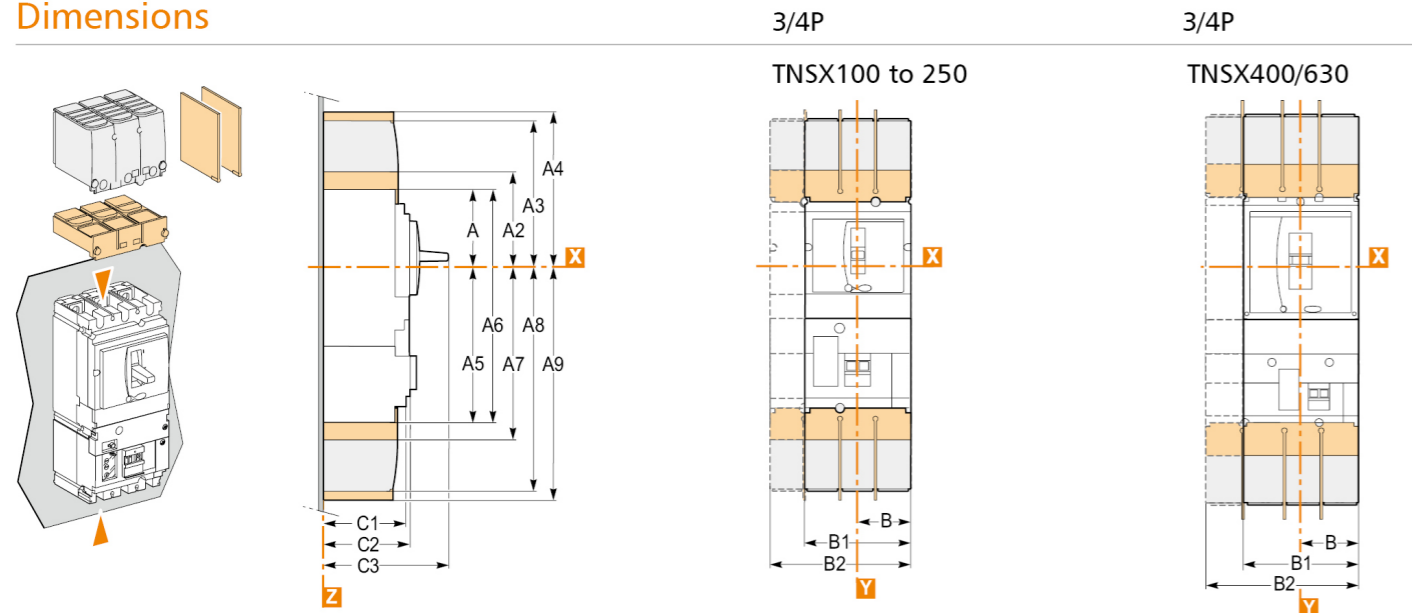
On rails



On DIN rail with adapter plate (TNSX100 to 250)

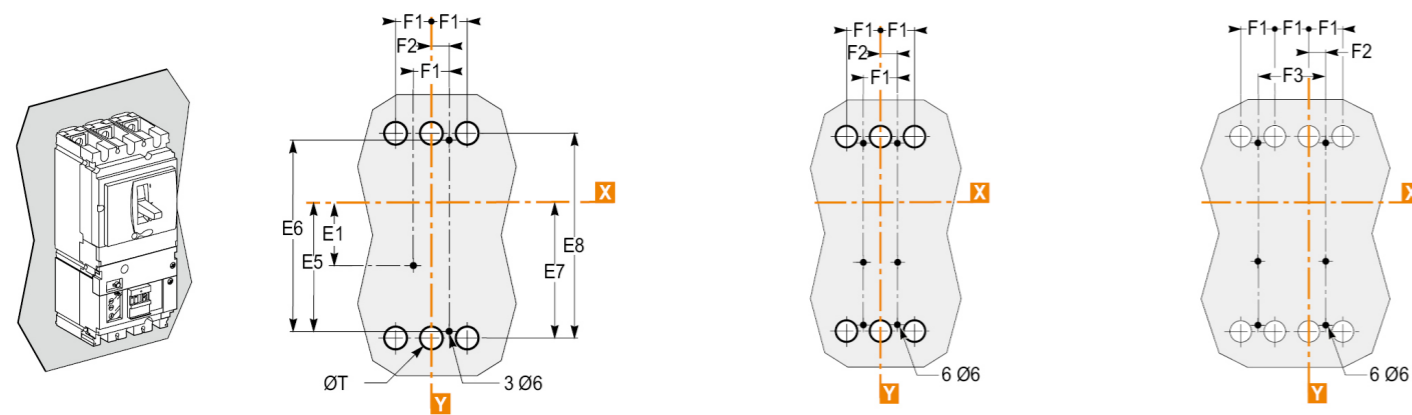


Dimensions

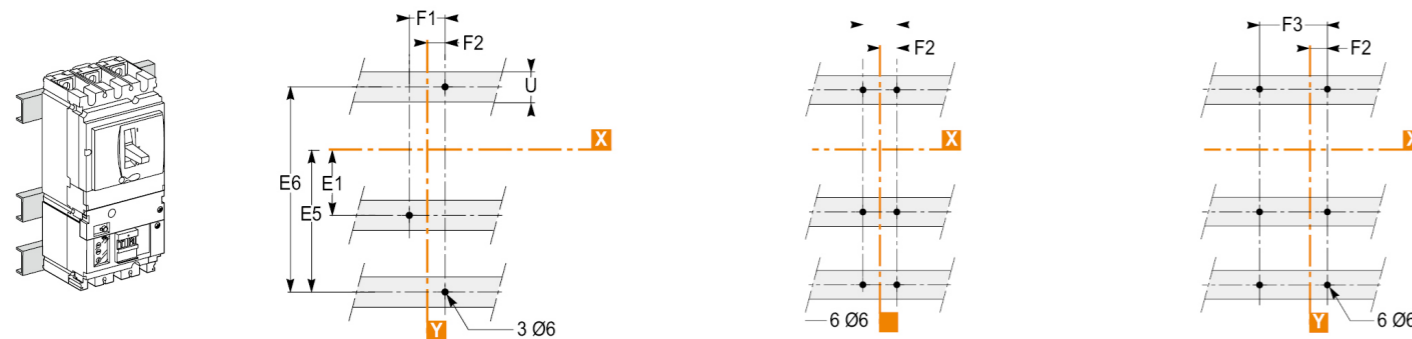


Mounting

On backplate	TNSX100 to 250 2/3P	TNSX400/630 3P	TNSX100 to 630 4P
--------------	------------------------	-------------------	----------------------

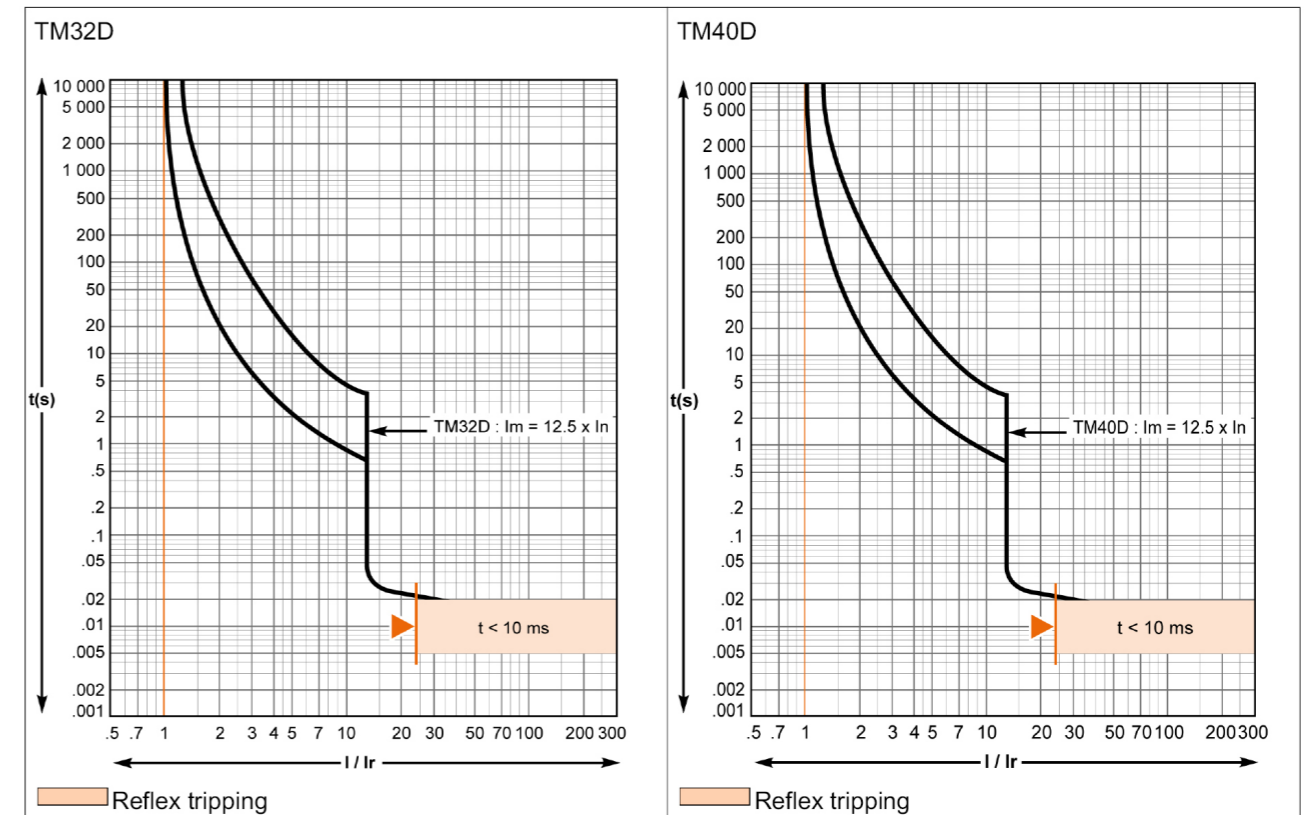
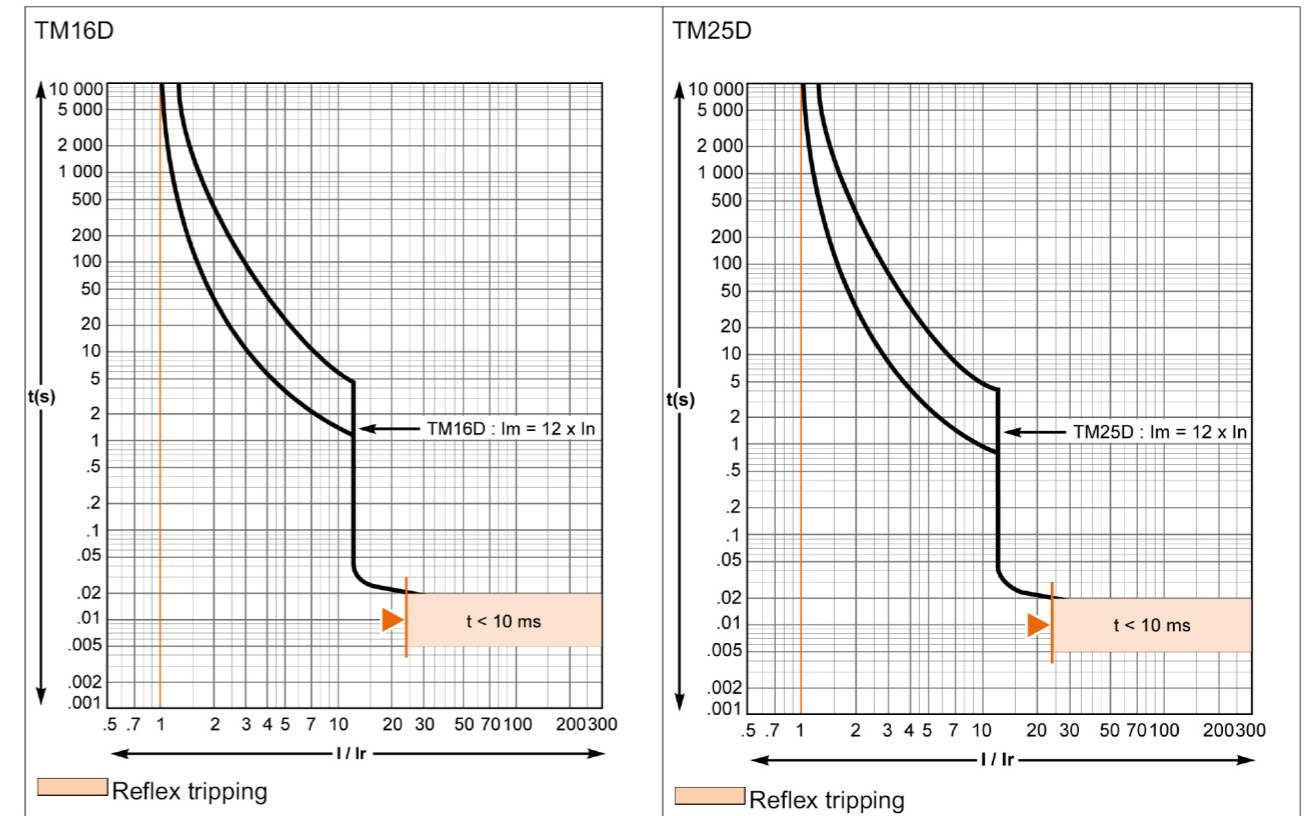


On rails 2/3P 3P 4P



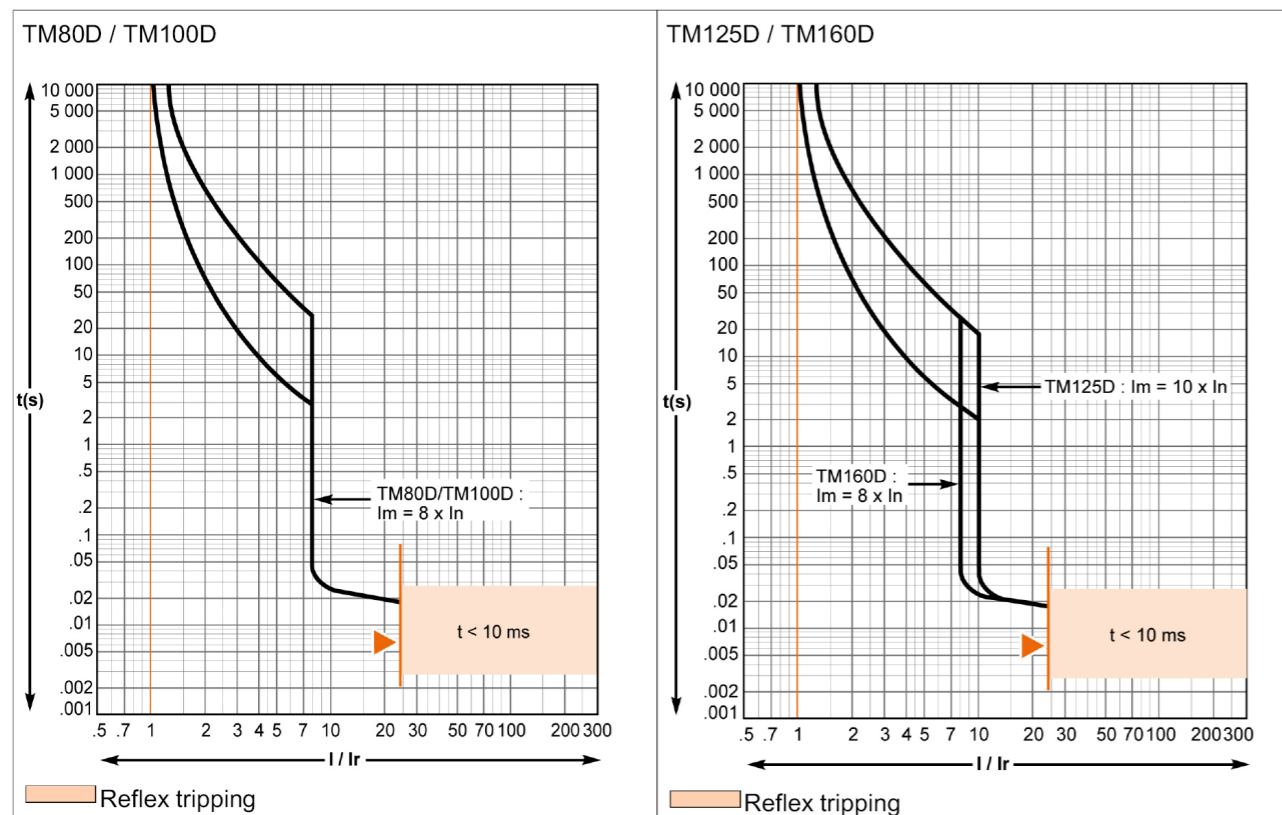
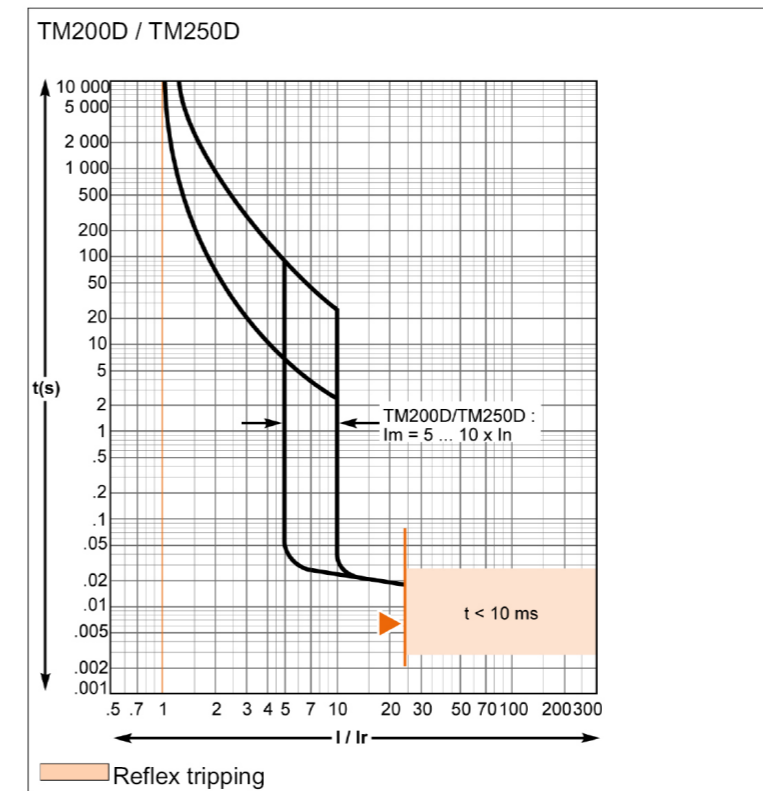
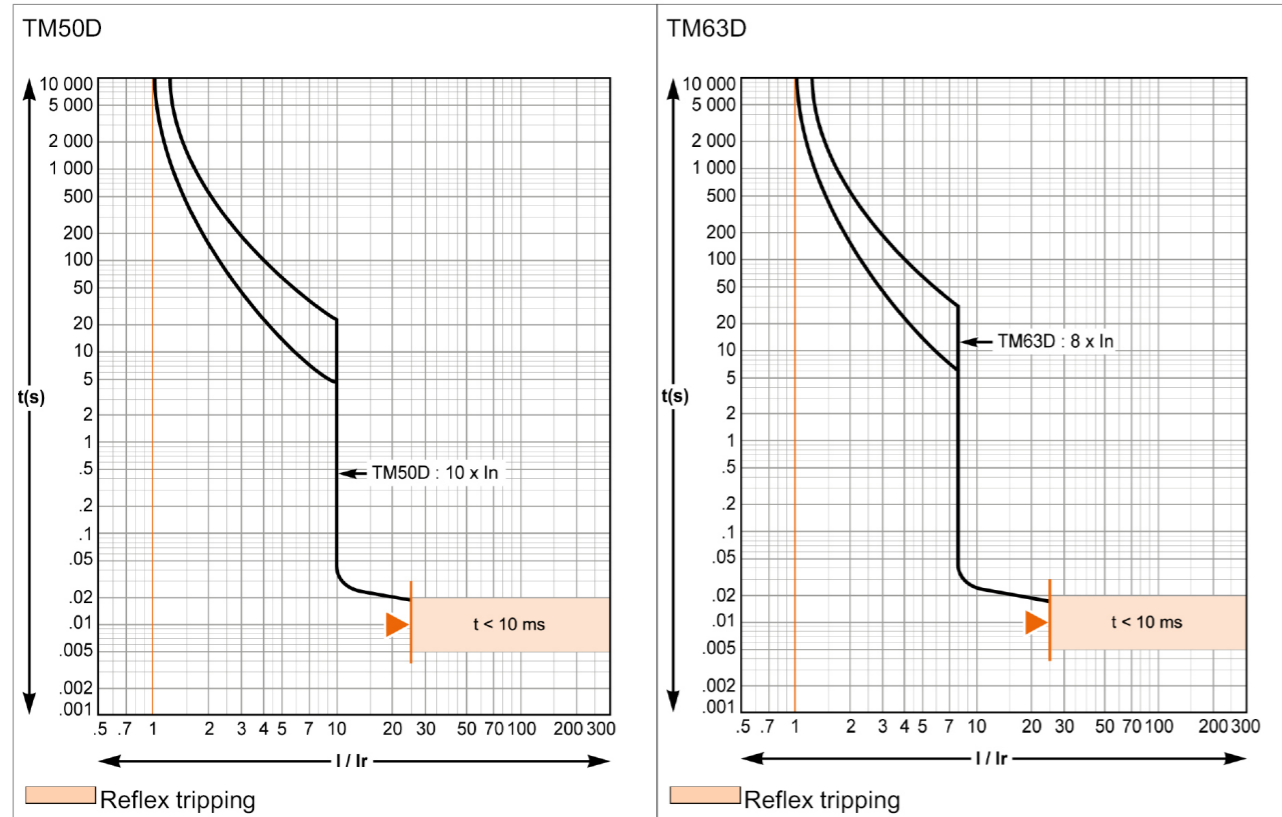
Type	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	B	B1	B2	C1	C2	C3	E1
TNSX100/160/250	80.5	161	94	145	178.5	155.5	236	169	220	253.5	52.5	105	140	81	86	126	62.5
TNSX400/630	127.5	255	142.5	200	237	227.5	355	242.5	300	337	70	140	185	105	110	168	100
Type	E2	E3	E4	E5	E6	E7	E8	F1	F2	F3	G1	G2	G3	G4	G5	ØT	U
TNSX100/160/250	125	70	140	137.5	200	145	215	35	17.5	70	95	75	13.5	23	17.5	24	< 32
TNSX400/630	200	113.5	227	200	300	213.5	327	45	22.5	90	-	-	-	-	-	32	< 35

TMD Magnetic Trip Units

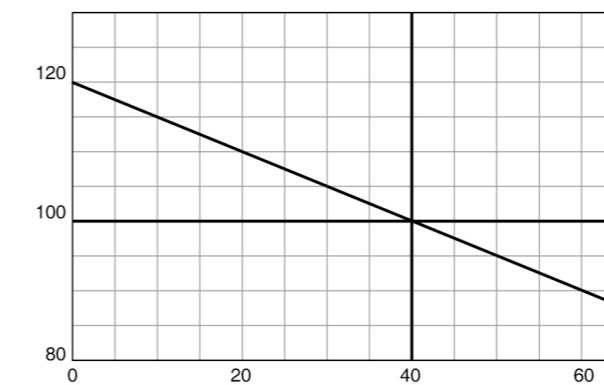


TMD Magnetic Trip Units

TMD Magnetic Trip Units



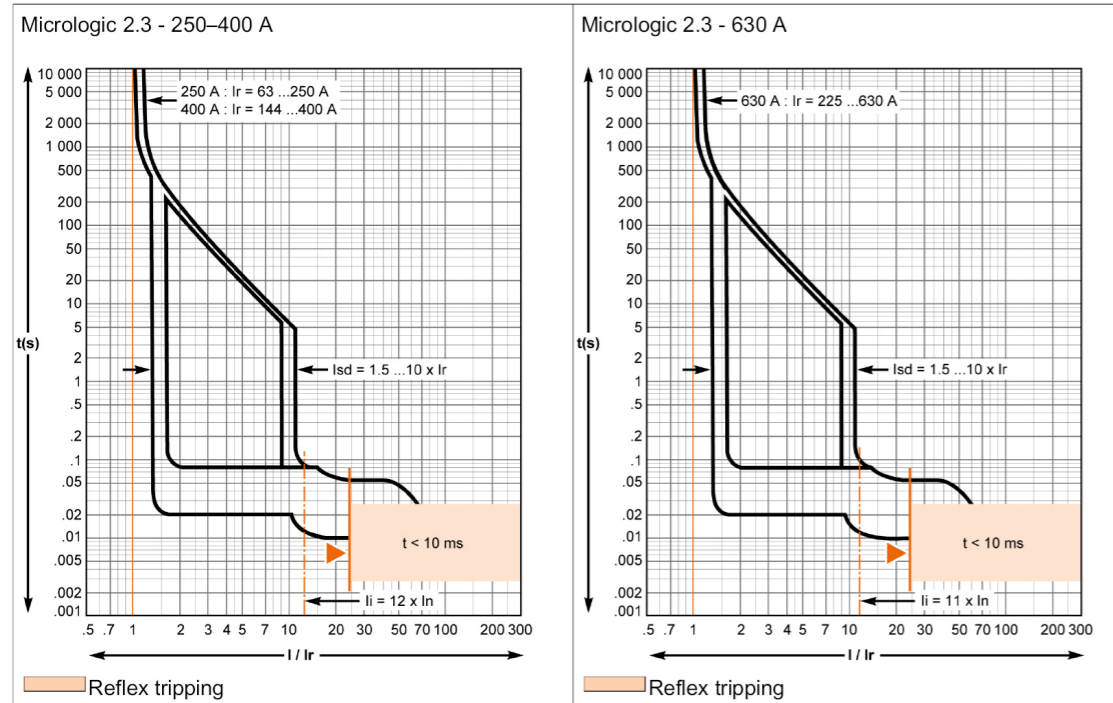
For all TDM curves :
Values are given for 40 ° C ambiant, $I_r = 1 \times I_n$, 3 poles loaded, cold start.
For $I_r = k \times I_n$, read the time corresponding to $1/k$ times given current.
For 1 pole tripping, read the time corresponding to 0.85 times given current.
For hot start ($0.9 \times I_r$), divide max. time by 2, min. time by 4



Tripping and Limitation Curves

TNSX 400-630-Distribution Protection

Micrologic 2.3 Electronic Trip Units



TCVS MCCB 16A to 600A

www.taoper-electric.com

EasyPact Type
Ease of Installation
Easy to Choose



Characteristics and Performance

TCVS MCCB from 16A to 600A

Characteristics and Performance

TCVS MCCB from 16A to 600A



TCVS 100F/160F 3P

Common characteristics			
Rated voltages			
Insulation voltage (V)	Ui		690
Impulse withstand voltage (kV)	Uimp		8
Operational voltage (V)	Ue	AC 50/60 Hz	440
Suitability for isolation		IEC/EN 60947-2	yes
Utilisation category			A
Pollution degree		IEC 60664-1	3



TCVS 250F 3P

Circuit breakers				TCVS100	TCVS160	TCVS250	TCVS400	TCVS630
Performance								
Electrical characteristics as per IEC 60947-2								
Rated current (A)	In	40 °C		100	160	250	400	630
Number of poles				3, 4	3, 4	3, 4	3, 4	3, 4
Breaking capacity levels				B F	B F	B F	F N	F N
Breaking capacity (kA rms)								
	Icu	AC 50/60 Hz	220/240V	40 70	40 70	40 70	40 70	40 70
			380/415V	25 36	25 36	25 36	36 50	36 50
			440V	20 36	20 36	20 36	30 42	30 42
Service breaking capacity (kA rms)								
	Ics	AC 50/60 Hz	220/240V	40 70	40 70	40 70	40 70	40 70
			380/415V	25 36	25 36	25 36	36 50	36 50
			440V	15 18	15 18	15 18	23 32	23 32
Durability (C-O cycles)								
		Mechanical		30000	25000	20000	15000	15000
			415V In/2	30000	25000	20000	12000	8000
			In	12000	12000	10000	6000	4000
Protection								
Short-circuit protection		Magnetic only		●	●	●	●	●
Overload/short-circuit protection		Thermal magnetic		●	●	●	●	●
		Electronic		-	-	-	●	●
		with neutral protection (Off-0.5-1)		-	-	-	●	●
Earth-leakage protection		By Vigi module		●	●	●	●	●
Installation/connections								
Dimensions and weights								
Dimensions (mm) W x H x D	Fixed, front connections	3P		105 x 161 x 86	105 x 161 x 86	105 x 161 x 86	140 x 255 x 110	140 x 255 x 110
		4P		140 x 161 x 86	140 x 161 x 86	140 x 161 x 86	185 x 255 x 110	185 x 255 x 110
Weight (kg)	Fixed, front connections	3P		1.8	1.8	2.0	4.7	5.2
		4P		2.2	2.2	2.6	6.3	7.1
Connections								
Connection terminals	Pitch	Without/With spreaders		35/45 mm	35/45 mm	35/45 mm	45/52.5 mm 45/70 mm	45/52.5 mm 45/70 mm
Large Cu or Al cables	Cross-section	mm ²		300	300	300	4 x 240	4 x 240

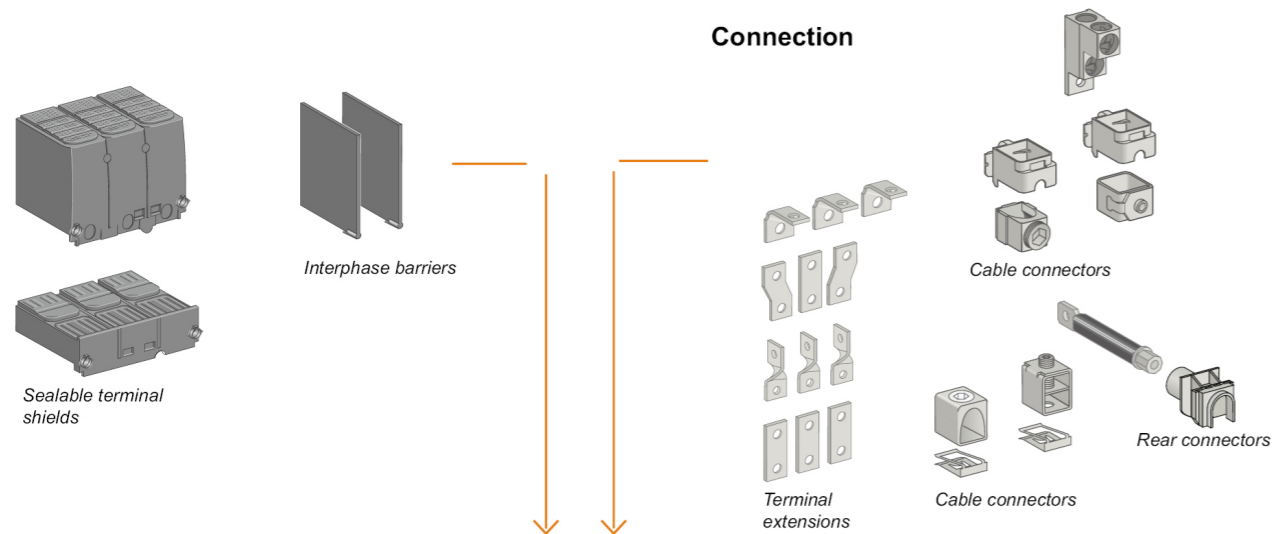


TCVS 250F 4P

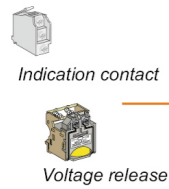


TCVS 400F/630F 3P

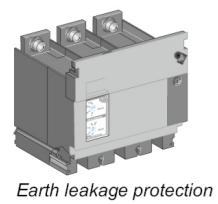
Insulation accessories



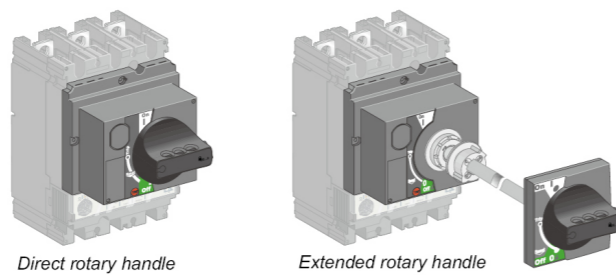
Electrical auxiliaries



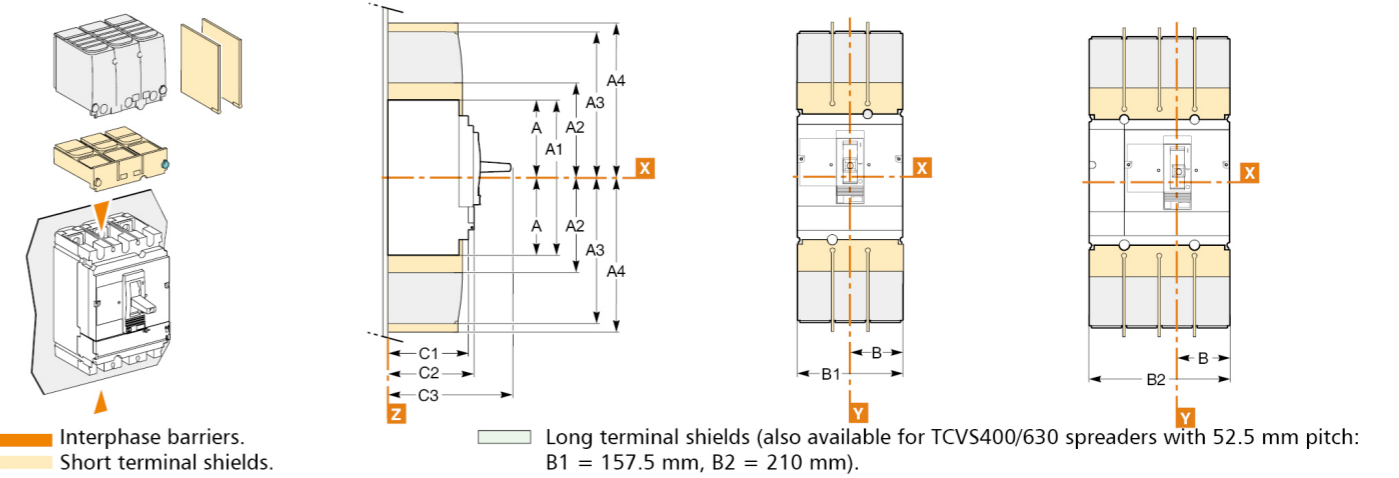
Monitoring



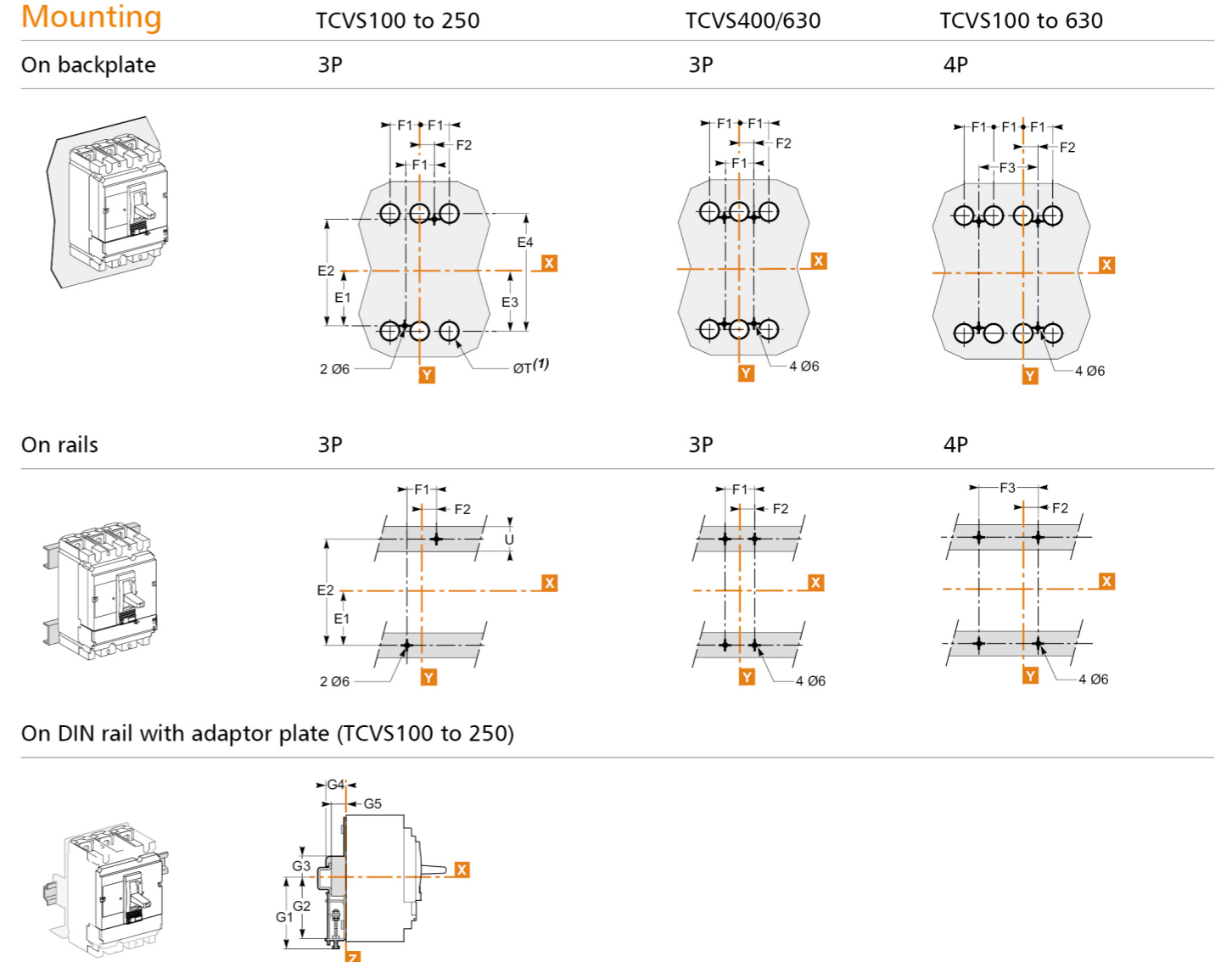
Control accessories



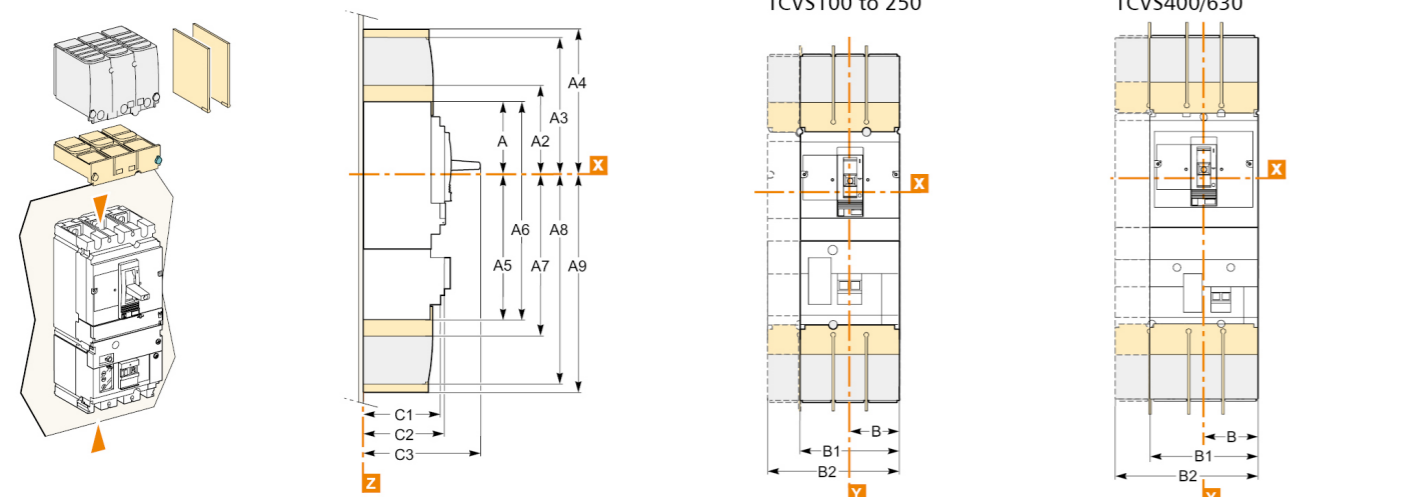
Dimensions



Mounting

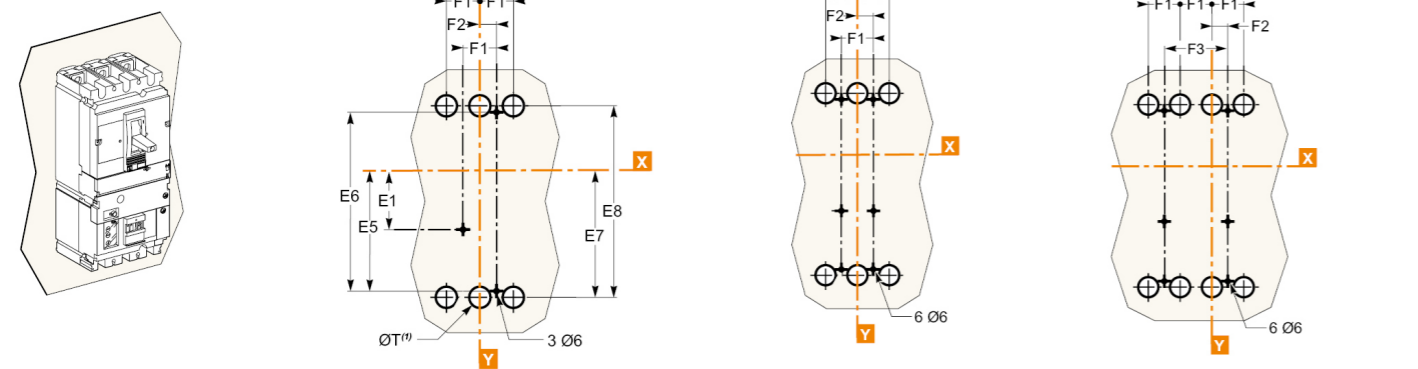


Dimensions

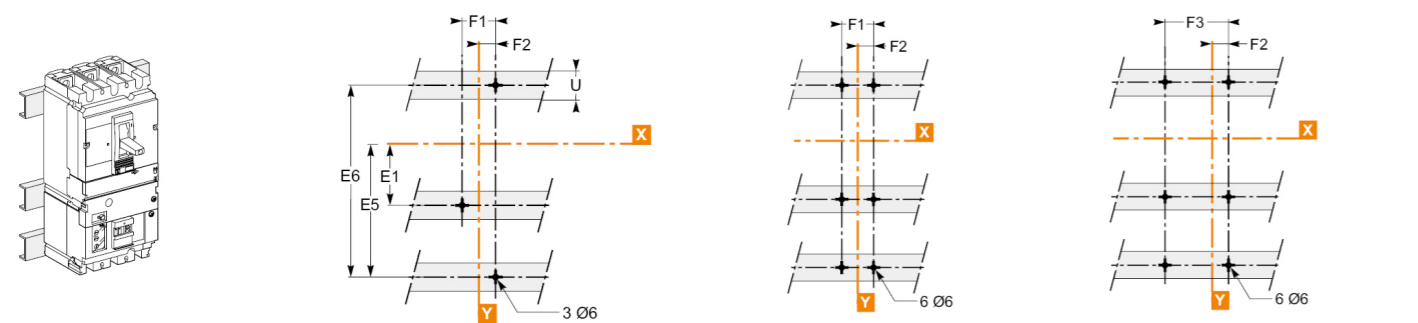


Mounting

On backplate

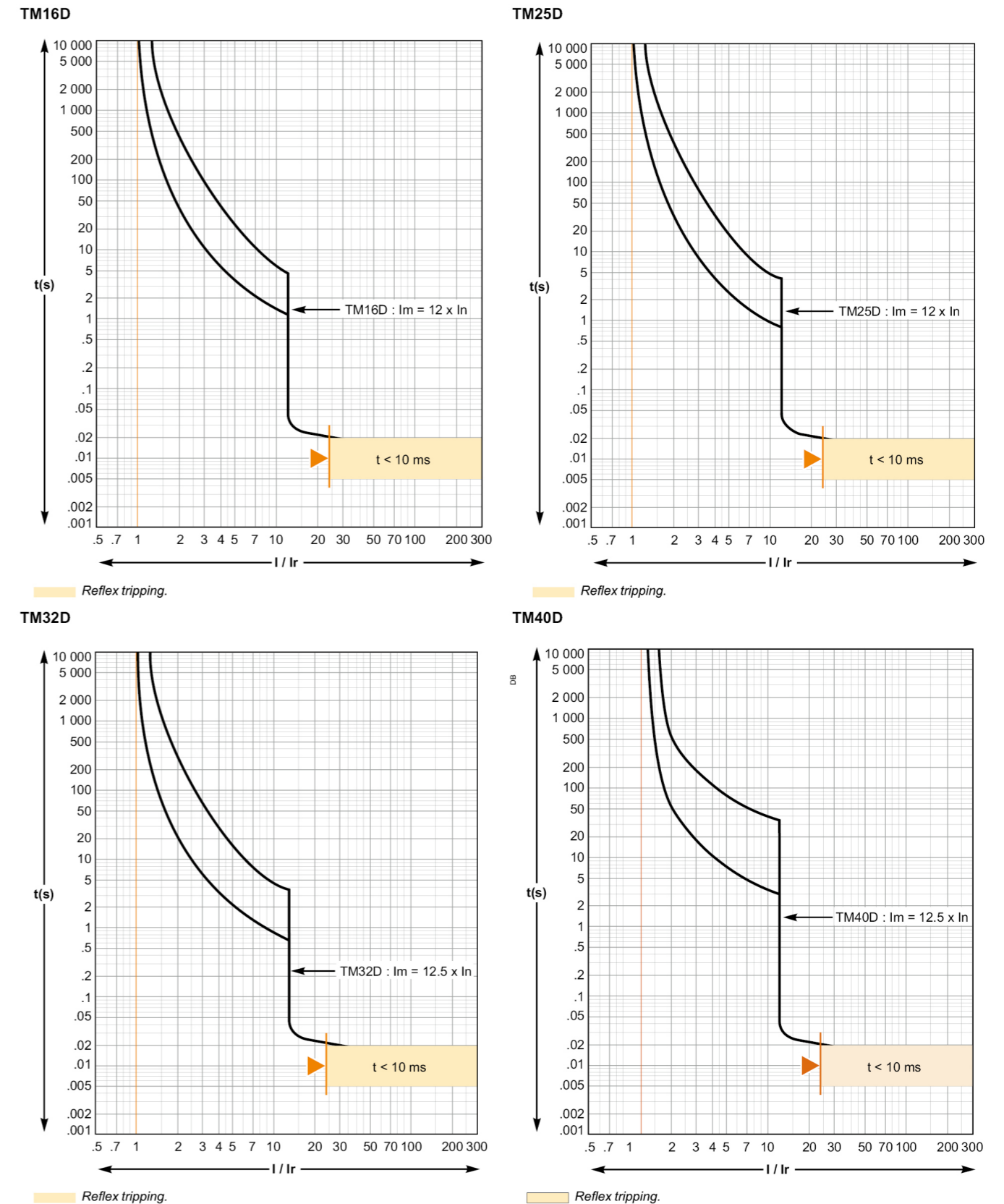


On rails

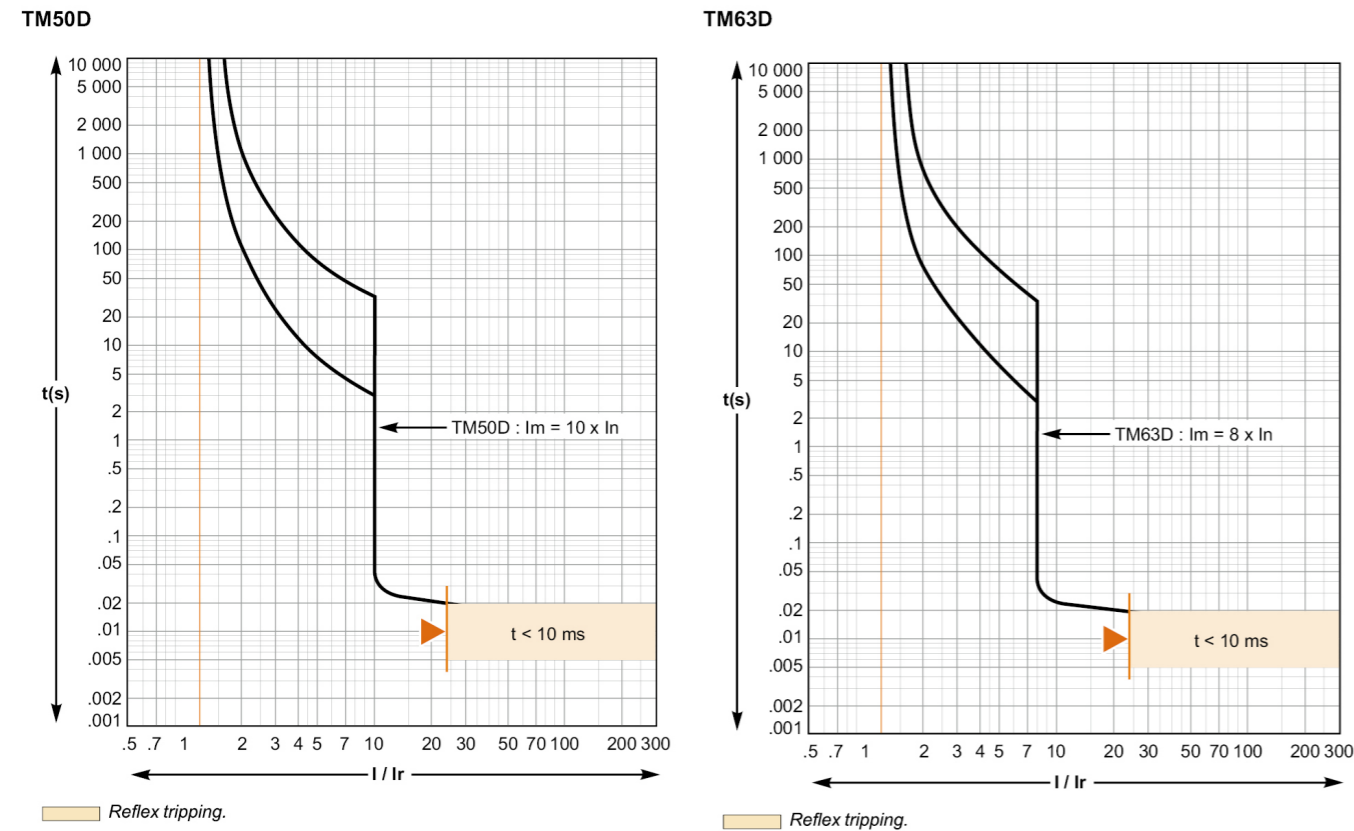


Type	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	B	B1	B2	C1	C2	C3	E1
TCVS100/160/250	80.5	161	94	145	178.5	155.5	236	169	220	253.5	52.5	105	140	81	86	111 ⁽²⁾	62.5
TCVS400/630	127.5	255	142.5	200	237	227.5	355	242.5	300	337	70	140	185	105	110	168	100
Type	E2	E3	E4	E5	E6	E7	E8	F1	F2	F3	G1	G2	G3	G4	G5	ØT	U
TCVS100/160/250	125	70	140	137.5	200	145	215	35	17.5	70	95	75	13.5	23	17.5	24	< 32
TCVS400/630	200	113.5	227	200	300	213.5	327	45	22.5	90	-	-	-	-	-	32	< 35

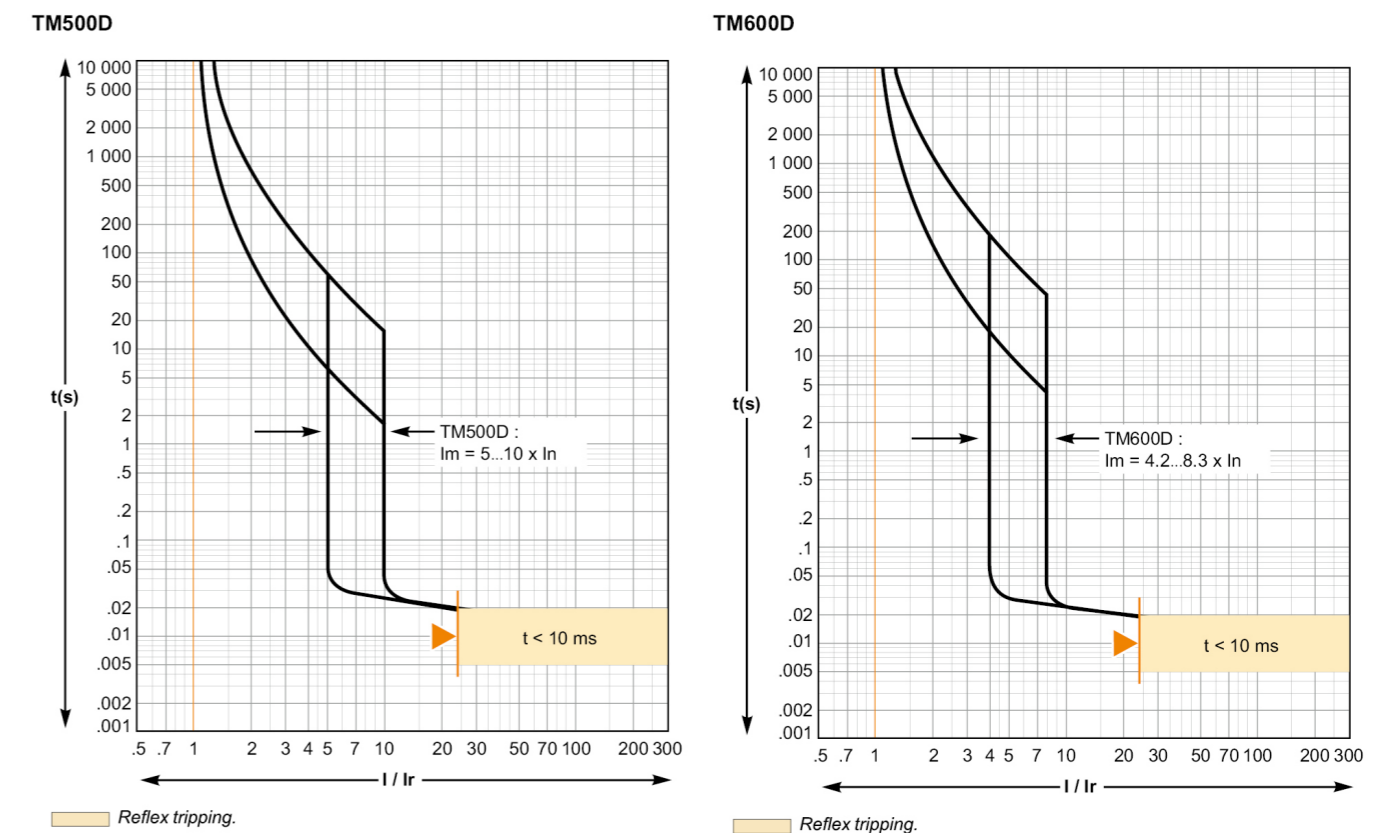
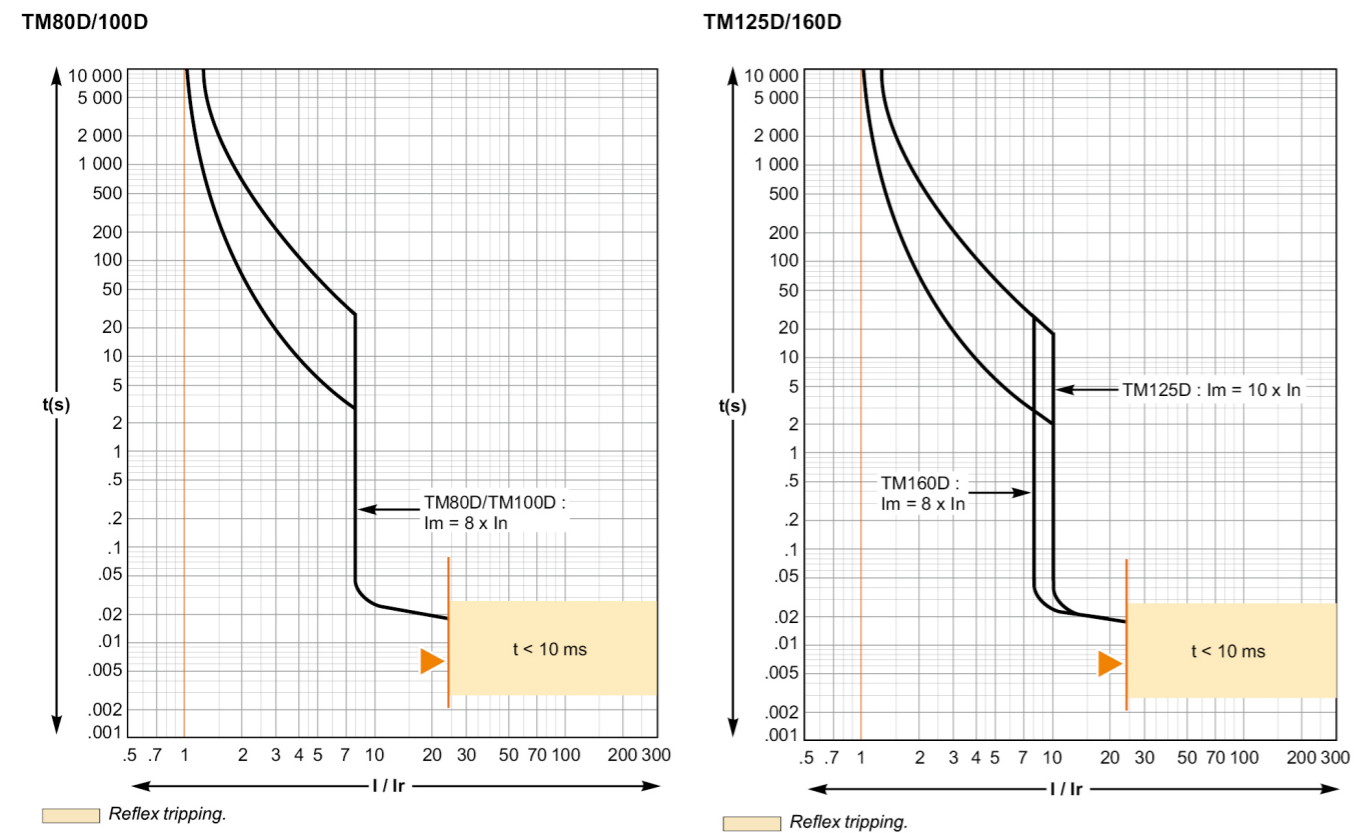
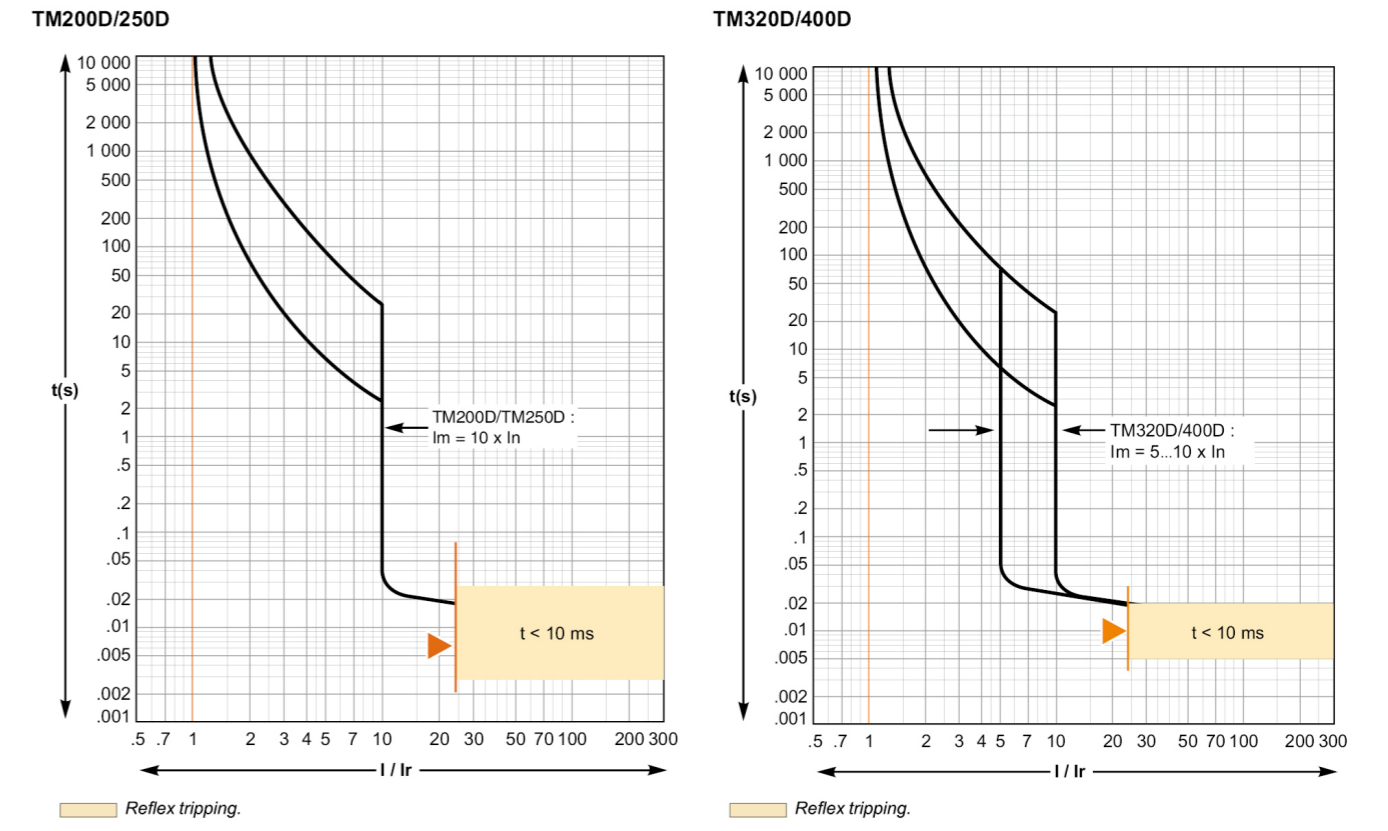
TM magnetic trip units



TM magnetic trip units (cont.)



TM magnetic trip units (cont.)



TEZC MCCB 15A to 600A

www.taoper-electric.com

EasyPact Type
Simple and Reliable
Easy to Use and Safe



Characteristics and Performance

TEZC MCCB from 15A to 250A

Characteristics and Performance

TEZC MCCB from 15A to 250A



TEZC 100N 1P



TEZC 100N 1P



TEZC 100H/250H 2P



TEZC 100H/250H 2P

TEZC circuit breakers				TEZC100B	TEZC100F	TEZC100N	TEZC100H		TEZC250F	TEZC250N	TEZC250H	
Fixed version				●	●	●	●	●	●	●	●	
Plug-in version				●	●	-	●	-	●	●	●	
Number of poles				3	3	1	3-4	1	2-3-4	3	3	2-3
Rated current (A)	In	at 40 °C		15, 16, 20, 25, 30, 32, 40, 45, 50, 60	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100	15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100	100, 125, 150, 160, 175, 200, 225, 250	100, 125, 150, 160, 175, 200, 225, 250	100, 125, 150, 160, 175, 200, 225, 250
Rated insulation voltage (V)	Ui			690	690	690	690	690	690	690	690	690
Rated impulse withstand voltage (kV)	Uimp			6	6	6	6	6	6	6	6	6
Rated operational voltage (V)	Ue	AC 50/60 Hz		550	550	415	550	415	550	550	550	550
		DC		-	250	125	250	125	250	250	250	250
Electrical characteristics as per IEC 60947-2, EN 60947-2, JIS C8201-2-1												
Ultimate breaking capacity (kA rms)	Icu	AC 50/60 Hz	110/130 V	10	25	25	25	50	100	25	50	85
			220/230/240 V	10	25	18	25	25	100	25	50	85
			380 V	7.5	10	2.5	18	5	30	18	25	36
			400/415 V	7.5	10	2.5	15	5	30	18	25	36
			440 V	5	7.5	-	10	-	20	15	20	25
			550 V	2.5	5	-	5	-	10	5	8	10
			DC	125 V (1P)	-	5	5	5	10	10	5	20
			250 V(2P in series)	-	5	-	5	-	10	5	20	30
Rated service breaking capacity (kA rms)	Ics	% Icu	110-400 V	25 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %
			415-550 V	25 %	50 %	50 %	50 %	50 %	25 %	50 %	50 %	50 %
Suitability for isolation				●	●	●	●	●	●	●	●	●
Utilisation category				A	A	A	A	A	A	A	A	A
Pollution degree				3	3	3	3	3	3	3	3	3
Endurance (C-O cycles)	Mechanical			13 000	13 000	13000	13 000	13 000	13 000	10 000	10 000	10 000
	Electrical			In/415 V	4 000	4 000	4000	4 000	4 000	4 000	5 000	5 000
Electrical characteristics as per NEMA-AB1												
Breaking capacity (kA rms)	HIC	AC 50/60 Hz	240 V	-	-	10	25	18	100	25	50	85
			277/480 V	-	-	10 ¹	10	18	18	15	18	25
Protection												
Overload protection	Bimetal			fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Instantaneous protection	Magnetic			Fixed (±20 %)	fixed	fixed	fixed	fixed	fixed	10 In	10 In	10 In
Dimension and weight												
Dimensions (mm)	D x H			60 x 130	60 x 130	60 x 130	60 x 130	60 x 130	60 x 130	60 x 165	60 x 165	60 x 165
	W			75	75	25	75 (3P) 100 (4P)	25	50 (2P) 75 (3P) 100 (4P)	105	105	105
Weight (kg)				0.78	0.78	0.28	0.78 (3P) 1.0 (4P)	0.28	0.6 (2P) 0.78 (3P) 1.0 (4P)	1.3	1.3	1.1 (2P) 1.3 (3P)

Characteristics and Performance

TEZC MCCB from 125A to 600A

Characteristics and Performance

TEZC MCCB from 125A to 600A



TEZC 100F 3P



TEZC 250F 3P



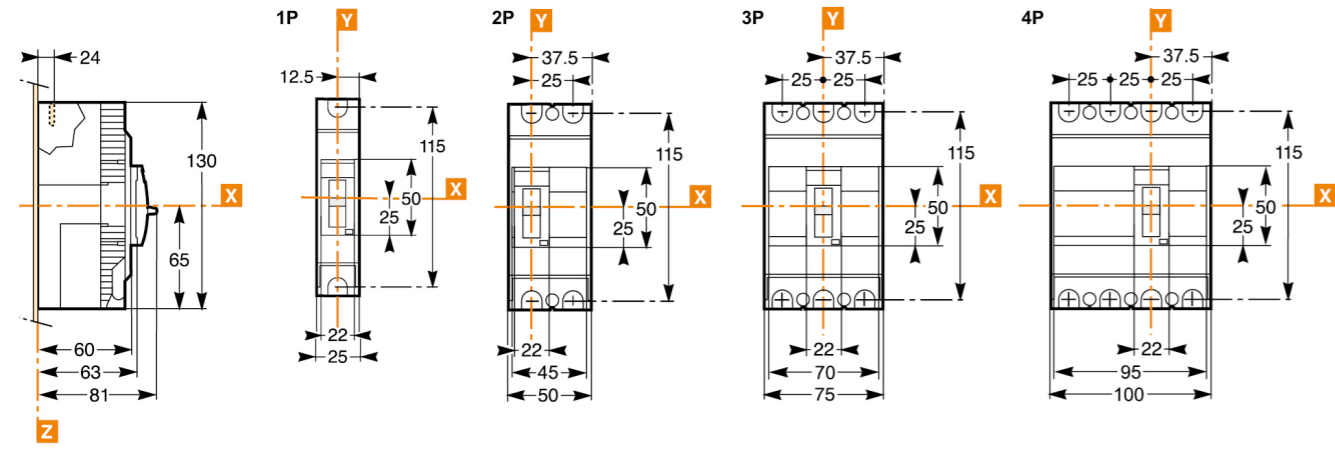
TEZC 400F/630F 3P



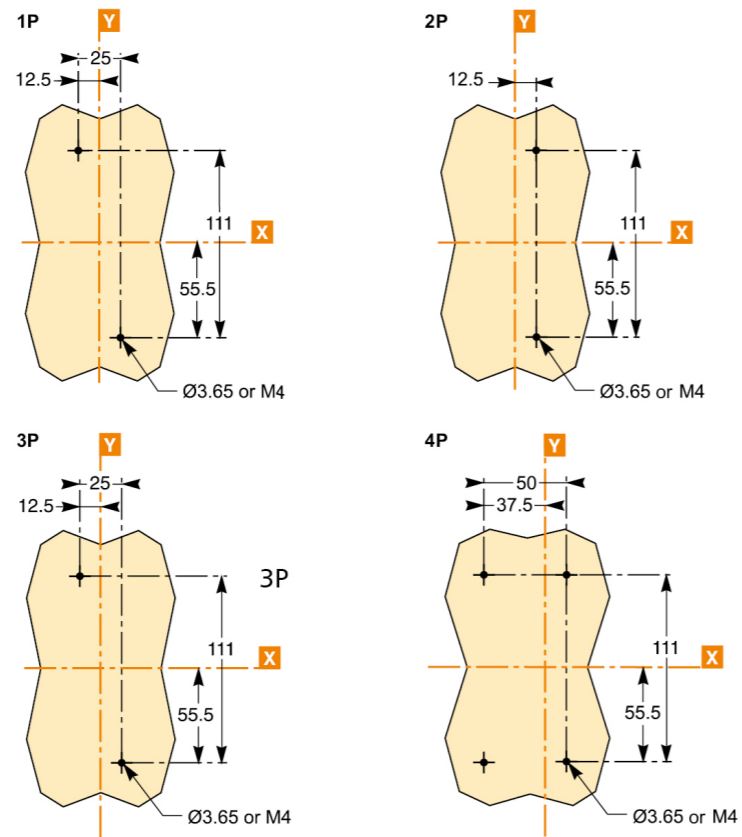
TEZC 400F/630F 4P

TEZC circuit breakers				TEZC250N	TEZC250H	TEZC400N	TEZC400H	TEZC630N	TEZC630H
Fixed version				●	●	●	●	●	●
Plug-in version				●	●	-	-	-	-
Number of poles				4	4	3-4	3-4	3-4	3-4
Rated current (A)	In	at 40 °C		63, 80, 100, 125, 150, 160, 175, 200, 225, 250	63, 80, 100, 125, 150, 160, 175, 200, 225, 250	320, 350, 400	320, 350, 400	400, 500, 600	400, 500, 600
Rated insulation voltage (V)	Ui			690	690	690	690	690	690
Rated impulse withstand voltage (kV)	Uimp			6	6	6	6	6	6
Rated operational voltage (V)	Ue	AC 50/60 Hz		550	550	440	440	440	440
		DC		250	250	250	250	250	250
Electrical characteristics as per IEC 60947-2, EN 60947-2 and JIS C8201-2-1/C8201-2-2									
Ultimate breaking capacity (kA rms)	Icu	AC 50/60 Hz	220/230/240 V	50	85	40	70	40	70
			380 V	25	36	36	50	36	50
			400/415 V	25	36	36	50	36	50
			440 V	20	25	36	50	36	50
			550 V	8	10	-	-	-	-
			DC	125 V (1P)	20	30	-	-	-
			250 V(2P in series)	20	30	-	-	-	-
Rated service breaking capacity (kA rms)	Ics	% Icu		50 %	50 %	-	-	-	-
Suitability for isolation				●	●	●	●	●	●
Utilisation category				A	A	A	A	A	A
Pollution degree				3	3	3	3	3	3
Endurance (C-O cycles)	Mechanical			10000	10000	10000	10000	10000	10000
	Electrical	In/415 V		5000	5000	4000	4000	3000	3000
Electrical characteristics as per NEMA-AB1									
Breaking capacity (kA rms)	HIC	AC 50/60 Hz	240 V	50	85	50	85	50	85
			277/480 V	18	25	25	35	25	35
Protection									
Overload protection	Bimetal			fixed	fixed	fixed	fixed	fixed	fixed
Instantaneous protection	Magnetic			Fixed (±20 %)	10 In	10 In	10 In	10 In (400/500A) 5000A (600A)	10 In (400/500A) 5000A (600A)
Earth-leakage protection									
Sensitivity (A)	IΔn		adjustable	-	-	-	-	-	-
Time-delay (ms)	Δt		adjustable	-	-	-	-	-	-
Max. breaking time (s)	at 2 IΔn			-	-	-	-	-	-
Dimension and weight									
Dimensions (mm)	D x H			68 x 165	68 x 165	110 x 255	110 x 255	110 x 255	110 x 255
	W			140	140	140 (3P) 185 (4P)	140 (3P) 185 (4P)	140 (3P) 185 (4P)	140 (3P) 185 (4P)
Weight (kg)				1.8	1.8	4.8 (3P) 6.4 (4P)	4.8 (3P) 6.4 (4P)	4.8 (3P) 6.4 (4P)	4.8 (3P) 6.4 (4P)

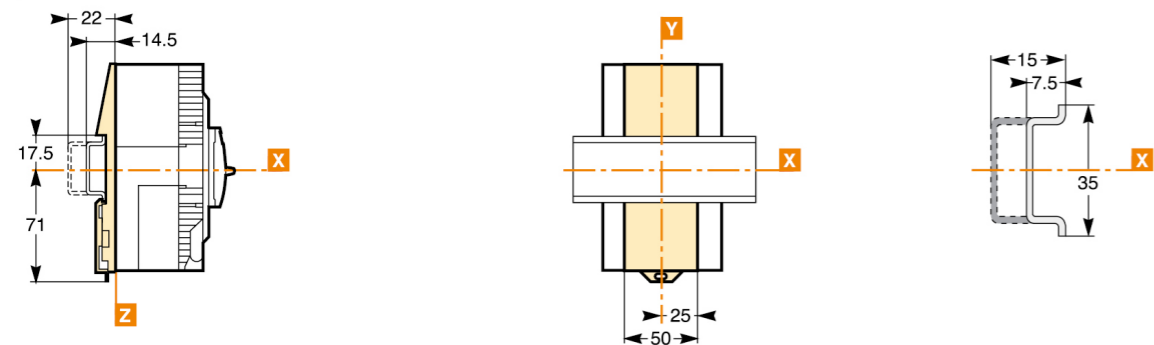
Dimensions (TEZC100)



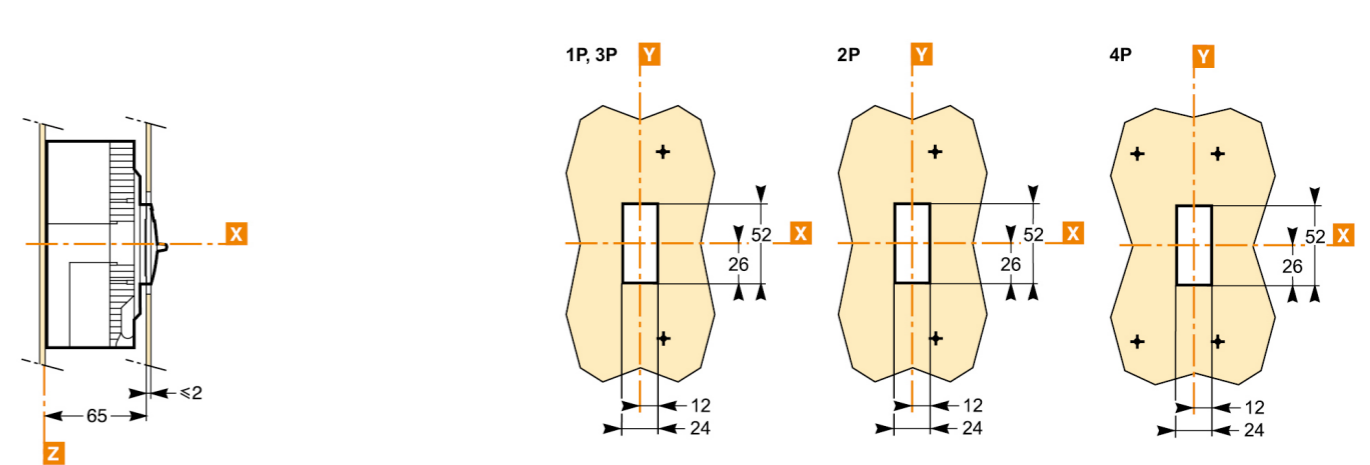
Mounting on plate



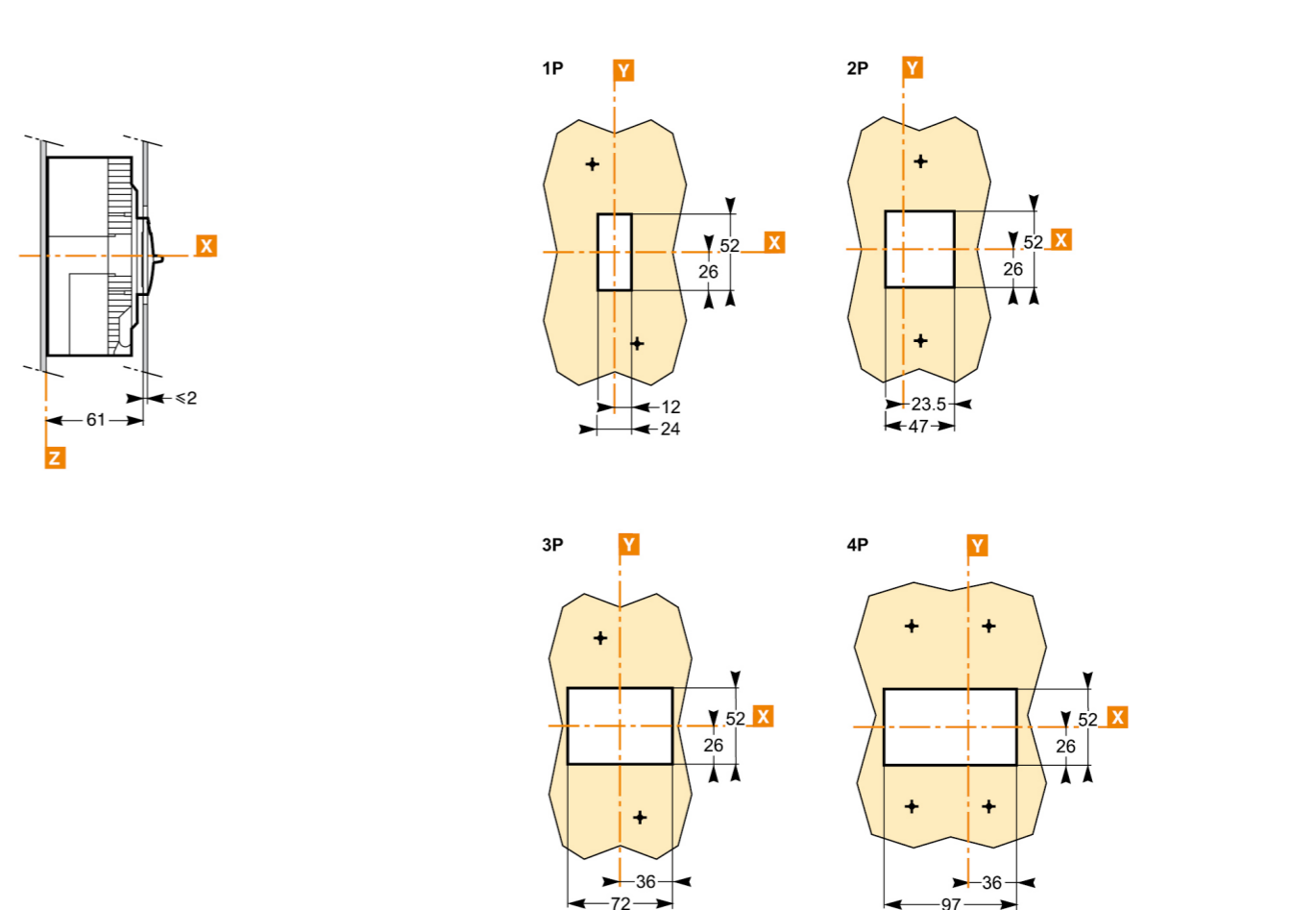
Mounting on DIN rail



Door cut-out (small)

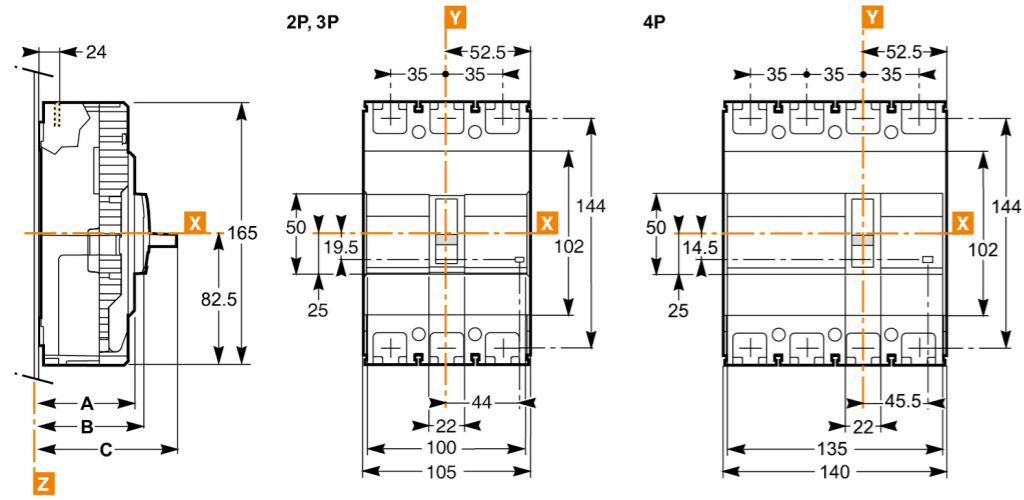


Door cut-out (large)

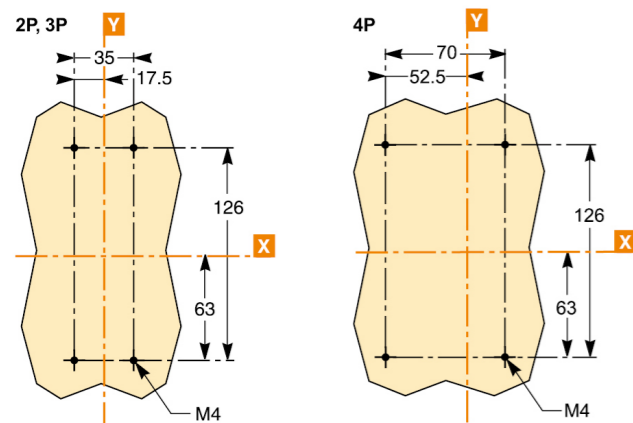


Dimensions and Mounting For TEZC 125A to 250A, 2P-3P-4P

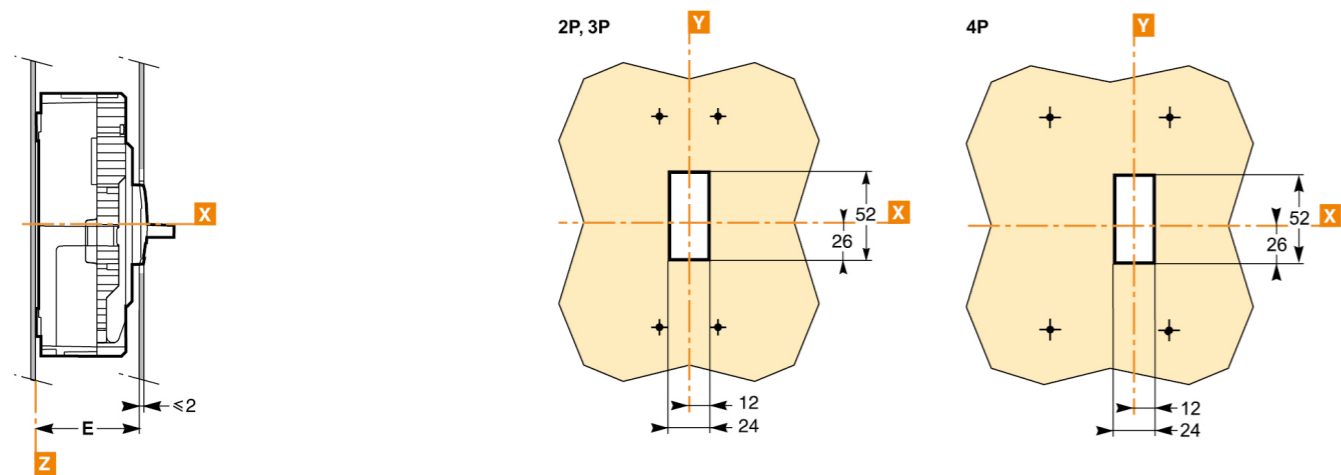
Dimensions (TEZC250)



Mounting on plate



Door cut-out

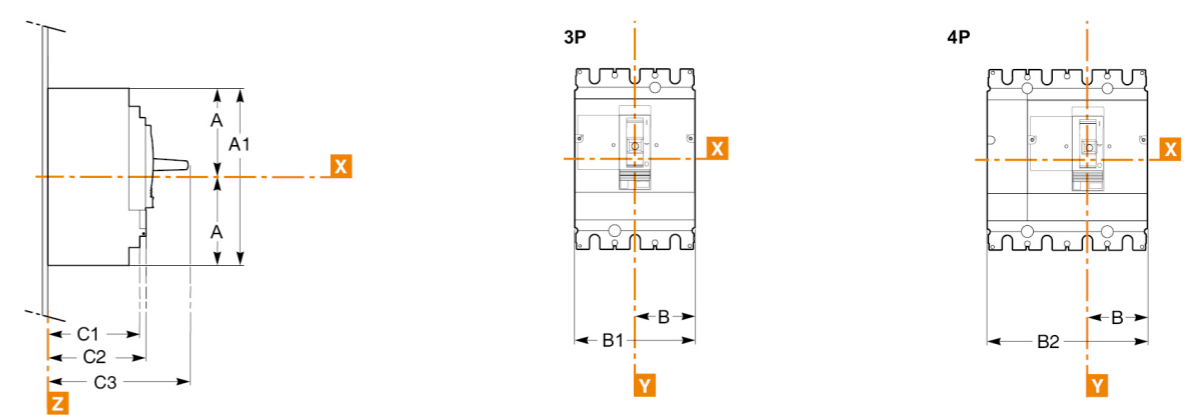


Dimensions (mm)

	A	B	C	D	E	F
TEZC 2/3P	60	65	85.5	-	67	61
TEZC 4P	68	73	95	-	75	69

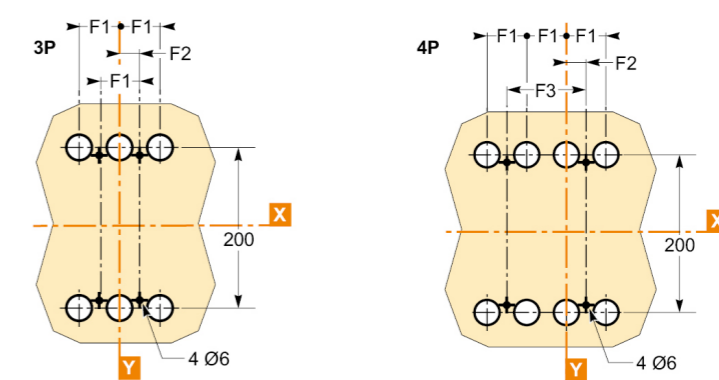
Dimensions and Mounting For TEZC 320A to 600A, 3P-4P

Dimensions (TEZC400/630)



Mounting on plate

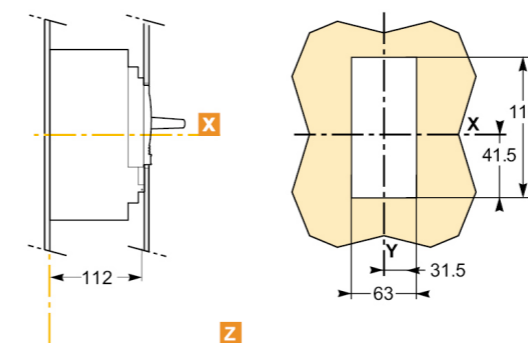
On backplate



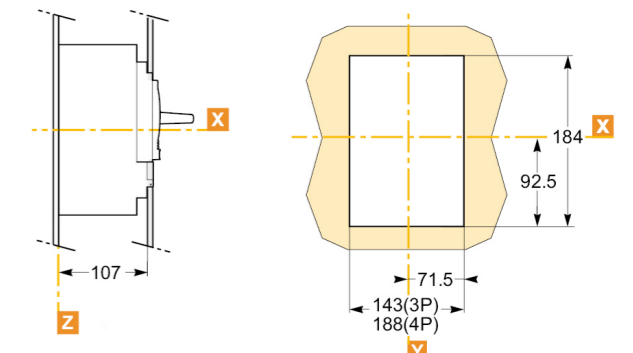
A	A1	B	B1	B2	F1	F2	F3
127.5	255	70	140	185	45	22.5	90

Bare sheet metal

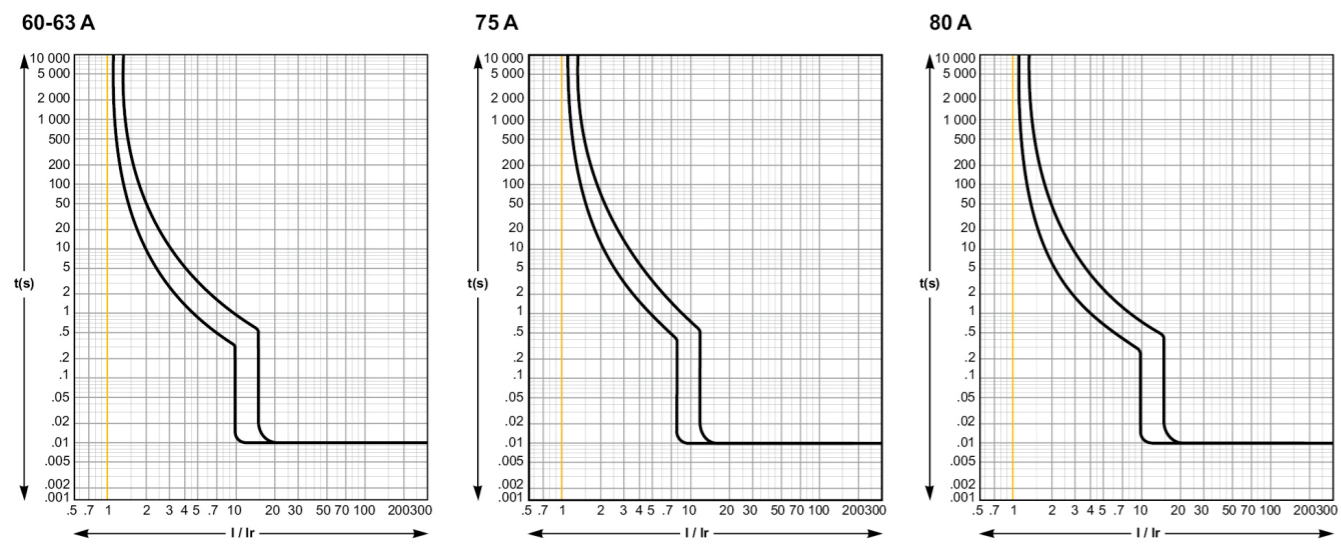
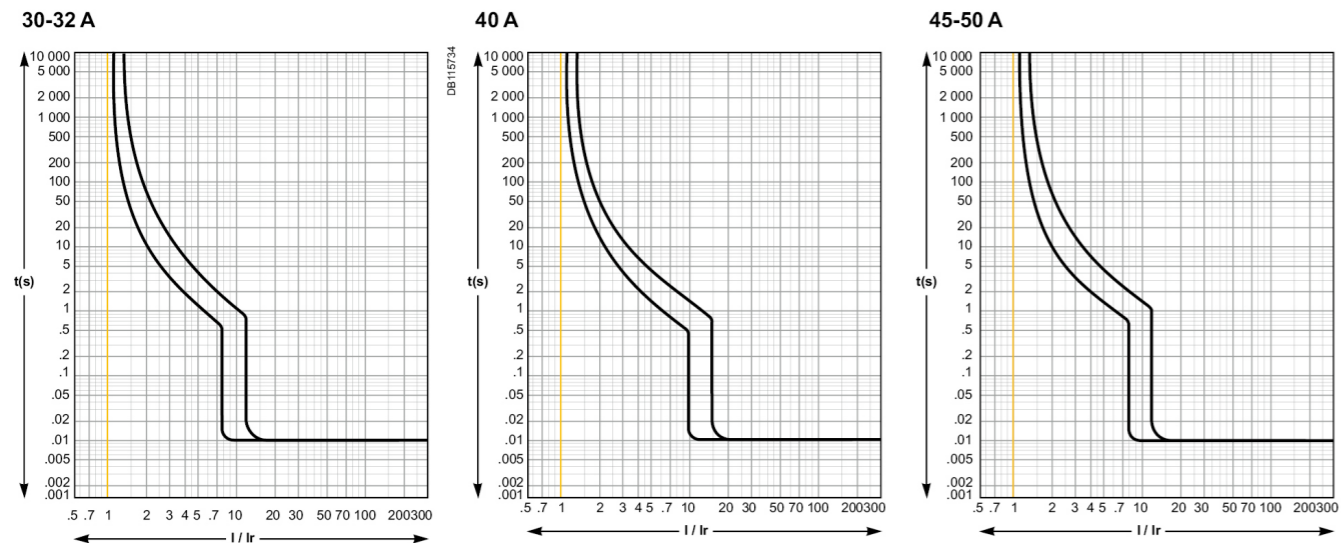
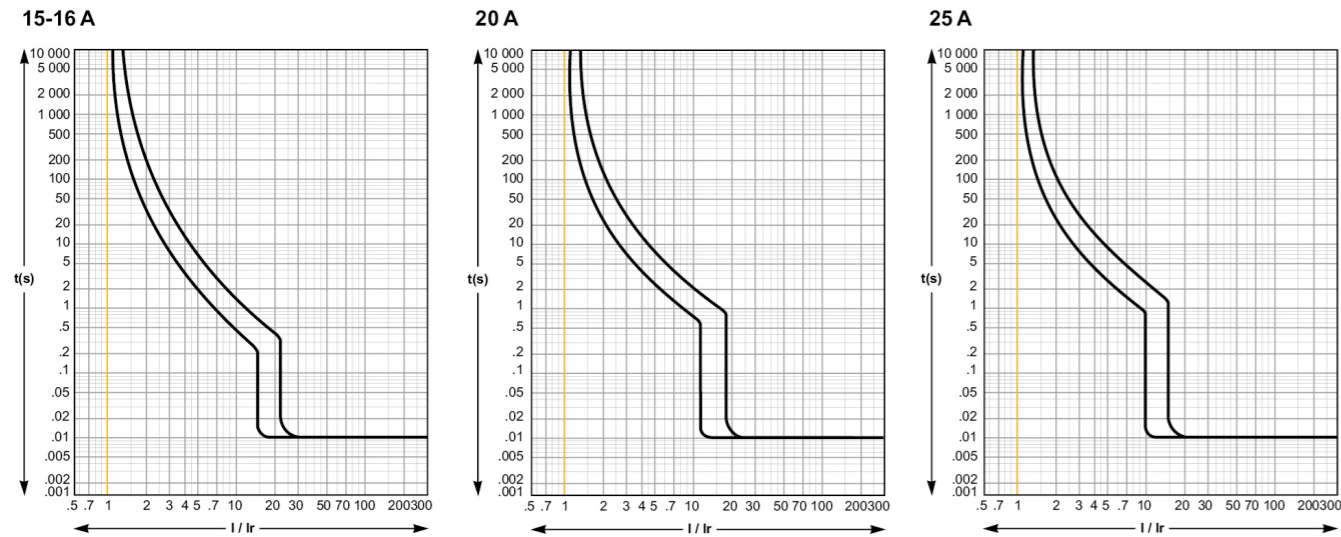
For toggle



For toggle with access to trip unit

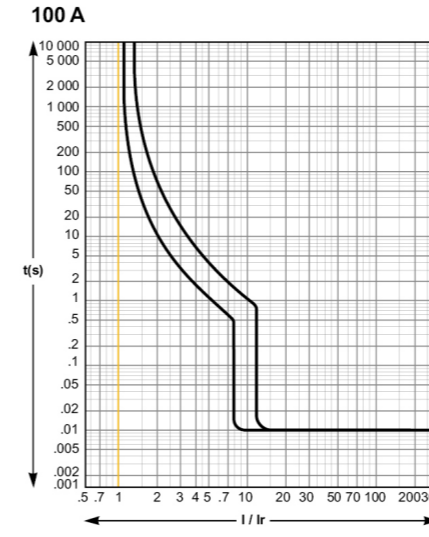


TEZC100 TM trip units

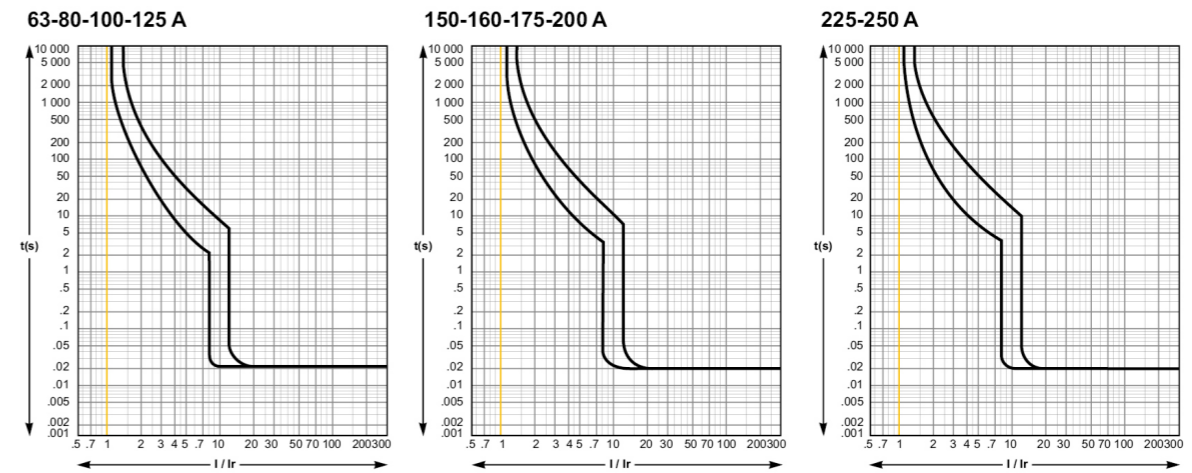


Reflex tripping.

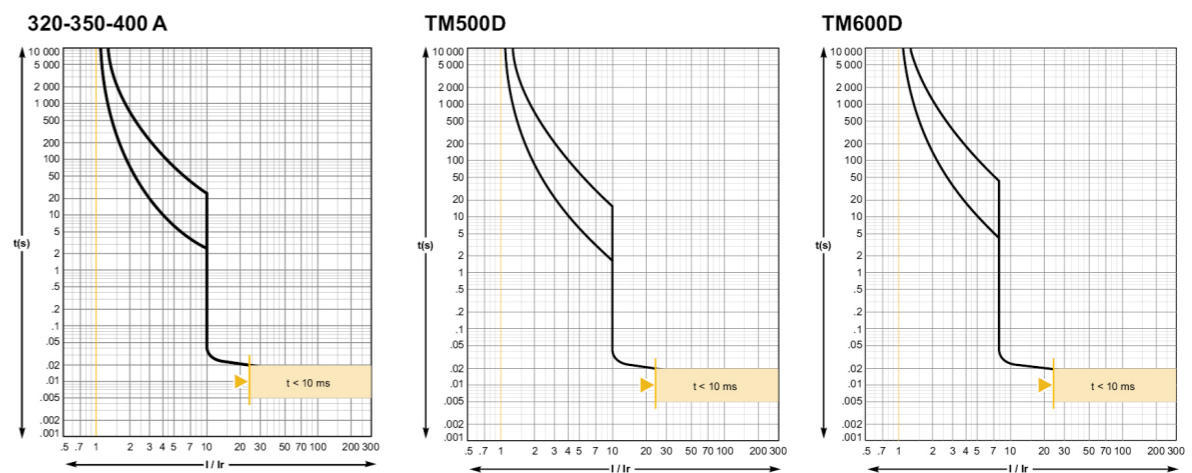
TEZC100 TM trip units (cont.)



TEZC250 TM trip units



TEZC 400/630 trip units



Reflex tripping.