

# ADM3E - ADJUSTABLE MCCB

## ELECTRONIC TYPE



ADM3E-250



ADM3E-630



ADM3E-1600

### DESCRIPTION / APPLICATION

With insulation voltage up to 800V, this product is applicable for distribution system of AC 50/60Hz, rated working voltage 690V and rated working current from 16A to 1600A. The moulded case circuit breaker will provide protection for the circuit and equipment in case of overload, short circuit and under voltage condition occurred in the power distribution circuit. Besides, it can also provide protection of overload, short circuit and under voltage for the non-frequent start of motor.

It is in conformity of IEC60947-2 standards.

### MAIN TECHNICAL DATA

**Part 1 - ADM3E-250S/H**

<b>Frame Size</b>		<b>ADM3E-250</b>			
<b>Rated Working Voltage</b>		Ue=AC380/400/415V, AC550V, AC690V			
<b>No. Of Poles</b>		3P			
<b>Rated Insulation Voltage</b>		800V AC50/60Hz			
<b>Type of Release</b>		Electronic			
<b>In</b>		<b>40A</b>	<b>100A</b>	<b>160A</b>	<b>250A</b>
<b>Long-time-delay protection</b>	<b>Current Ir(A)</b>	16,18,20,23,25,28, 32,32,36,40 Ir=(0.4-1)In	40,45,50,55,63,70 ,80,90,100 Ir=(0.4-1)In	63,70,80,90,100,110 0,125,150,160 Ir=(0.4-1)In	100,110,125,140,160, 175,200,225,250 Ir=(0.4-1)In
	<b>Time Setting</b>	<b>64S</b>			
<b>Short-time-delay protection</b>	<b>current Isd(A)</b>	Isd=(5-13)Ir	Isd=(5-13)Ir	Isd=(5-13)Ir	Isd=(5-13)Ir
	<b>Time Setting</b>	<b>0.3S</b>			
<b>Instantaneous action protection</b>	<b>current Ii(A)</b>	Ii=15In	Ii=15In	Ii=15In	Ii=12In
	<b>Trip Time</b>	≤60ms			
<b>Icu/Ics</b>		<b>S</b>		<b>H</b>	
		Ics= Icu=70kA at AC380/400/415V Ics= Icu=40kA at 550V Ics= Icu=15kA at 690V		Ics=Icu=100kA at AC380/400/415V Ics= Icu=50kA at 550V Ics= Icu=25kA at 690V	
<b>Dimension(MM)</b>		105x161X86MM			

**Part 2 - ADM3E-630S/H**

<b>Frame Size</b>		<b>ADM3E-630</b>	
<b>Rated Working Voltage</b>		Ue=AC380/400/415V, AC550V, AC690V	
<b>No. Of Poles</b>		3P	
<b>Rated Insulation Voltage</b>		800V AC50/60Hz	
<b>Type of Release</b>		Electronic	
<b>In</b>		400A	630A
<b>Long-time-delay protection</b>	<b>Current Ir(A)</b>	160,180,200,230,250,280,320,350,400 0 Ir=(0.4-1)In	250,280,320,350,400,400,450,500,570,630 Ir=(0.4-1)In
	<b>Time Setting</b>	<b>64S</b>	
<b>Short-time-delay protection</b>	<b>current Isd(A)</b>	Isd=(5-13)Ir	Isd=(5-13)Ir
	<b>Time Setting</b>	<b>0.3S</b>	
<b>Instantaneous action protection</b>	<b>current li(A)</b>	li=12In	li=11In
	<b>Trip Time</b>	≤60ms	
<b>Icu/Ics</b>		<b>S</b>	<b>H</b>
		Ics= Icu=70kA at AC380/400/415V Ics= Icu=40kA at 550V Ics= Icu=15kA at 690V	Ics=Icu=100kA at AC380/400/415V Ics= Icu=50kA at 550V Ics= Icu=25kA at 690V
<b>Dimension(MM)</b>		140x255x110MM	

**Part 3 - ADM3E-1600S/H**




<b>Frame Size</b>		<b>ADM3E-1600</b>			
<b>Rated Working Voltage</b>		Ue=AC380/400/415V, AC550V, AC690V			
<b>No. Of Poles</b>		3P			
<b>Rated Insulation Voltage</b>		800V AC50/60Hz			
<b>Type of Release</b>		Electronic			
<b>In</b>		<b>800A</b>	<b>1000A</b>	<b>1250A</b>	<b>1600A</b>
<b>Long-time-delay protection</b>	<b>Current Ir(A)</b>	Ir=320-800 Ir=(0.4-1)In	Ir=400-1000 Ir=(0.4-1)In	Ir=500-1250A Ir=(0.4-1)In	Ir=640-1600A Ir=(0.4-1)In
	<b>Time Setting(S)</b>	Tr: 0.5,1,2,4,8,12,16,20,24, OFF, at 6lr			
<b>Short-time-delay protection</b>	<b>current Isd(A)</b>	Isd= (1.5-10)Ir	Isd= (1.5-10)Ir	Isd= (1.5-10)Ir	Isd= (1.5-10)Ir
	<b>Time Setting</b>	Tsd: 0.1,0.2,0.3,0.4 OFF			
<b>Instantaneous action protection</b>	<b>current Ii(A)</b>	Ii=(2-15)In	Ii=(2-15)In	Ii=(2-15)In	Ii=(2-15)In
	<b>Trip Time</b>	≤60ms			
<b>Icu/Ics</b>		<b>S</b>		<b>H</b>	
		Ics= Icu=50kA at AC380/400/415V Ics= Icu=20kA at 550V Ics= Icu=15kA at 690V		Ics=Icu=70kA at AC380/400/415V Ics= Icu=30kA at 550V Ics= Icu=25kA at 690V	
<b>Dimension(MM)</b>		327x210x147MM			

Remarks:

S - Standard Type

H - High Breaking Ability Type

## INDICATOR LIGHT

<b>Working Indicator</b> 	The indicator light always lit, when working current $I$ reaches the current of the controller's normal operation current
<b>Alarm Indicator</b> 	The indicator light flashes, when working current $I \geq 90\% I_r$
<b>Overload Indicator</b> 	The indicator light always lit, when working current $I \geq 105\% I_R$

## ACCESSORIES



Auxiliary contact



MN undervoltage release



MX shunt release



Direct rotary handle



Motor mechanism



Earth leakage part



Extended rotary handle



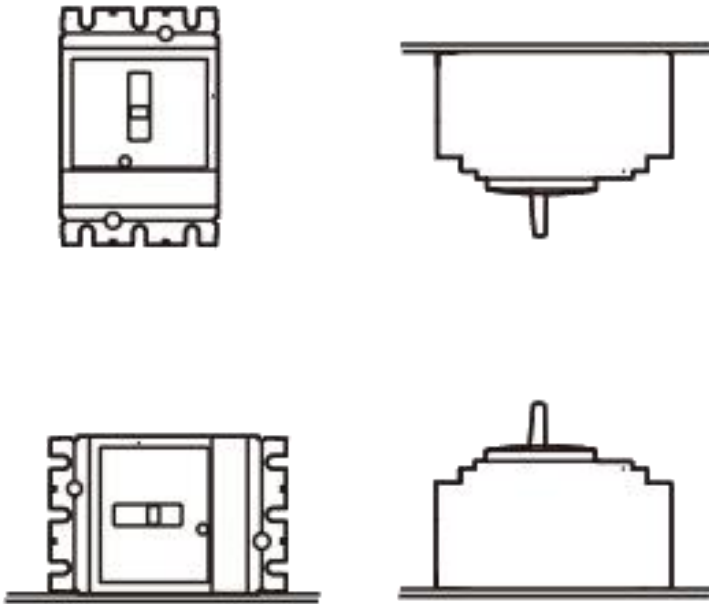
Plug-in kit



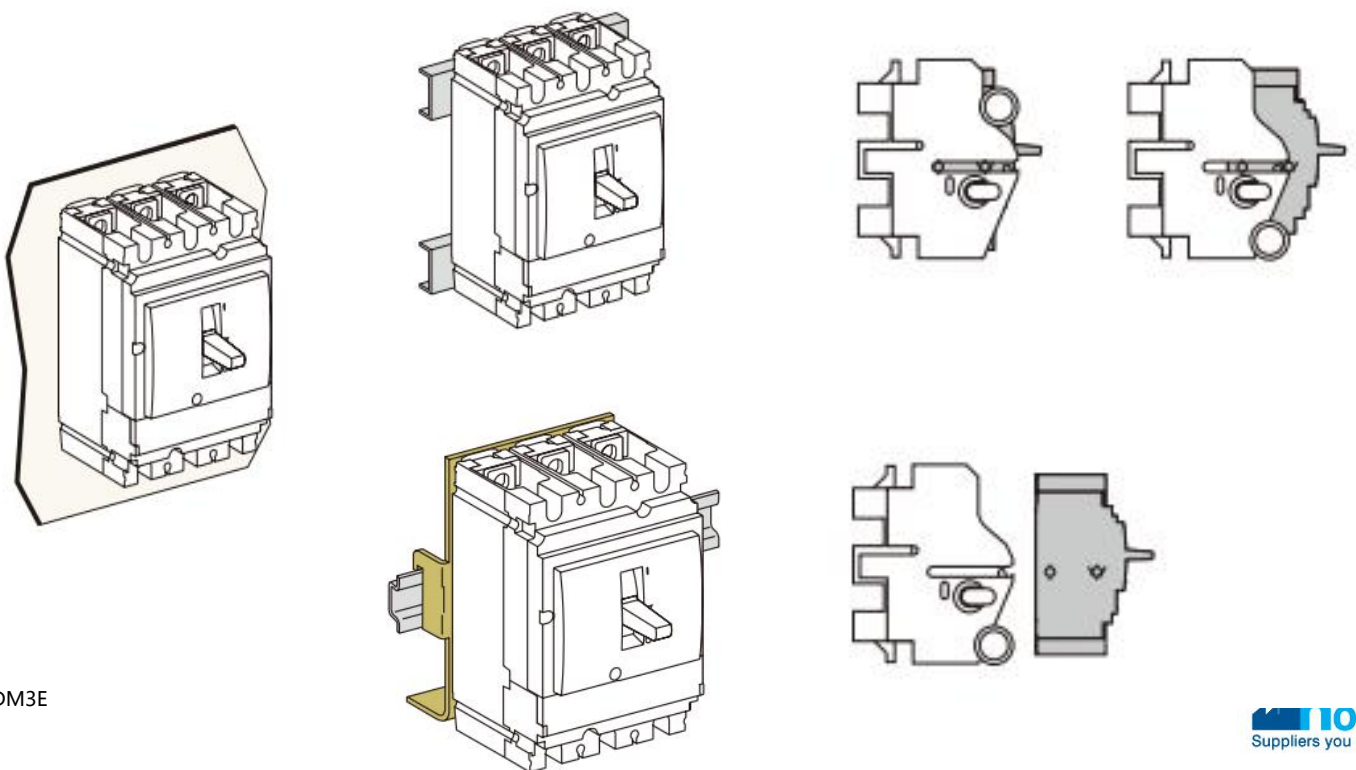
Trip unit

# INSTALLATION

1) Installation Type - Vertical installation, Horizontal installation



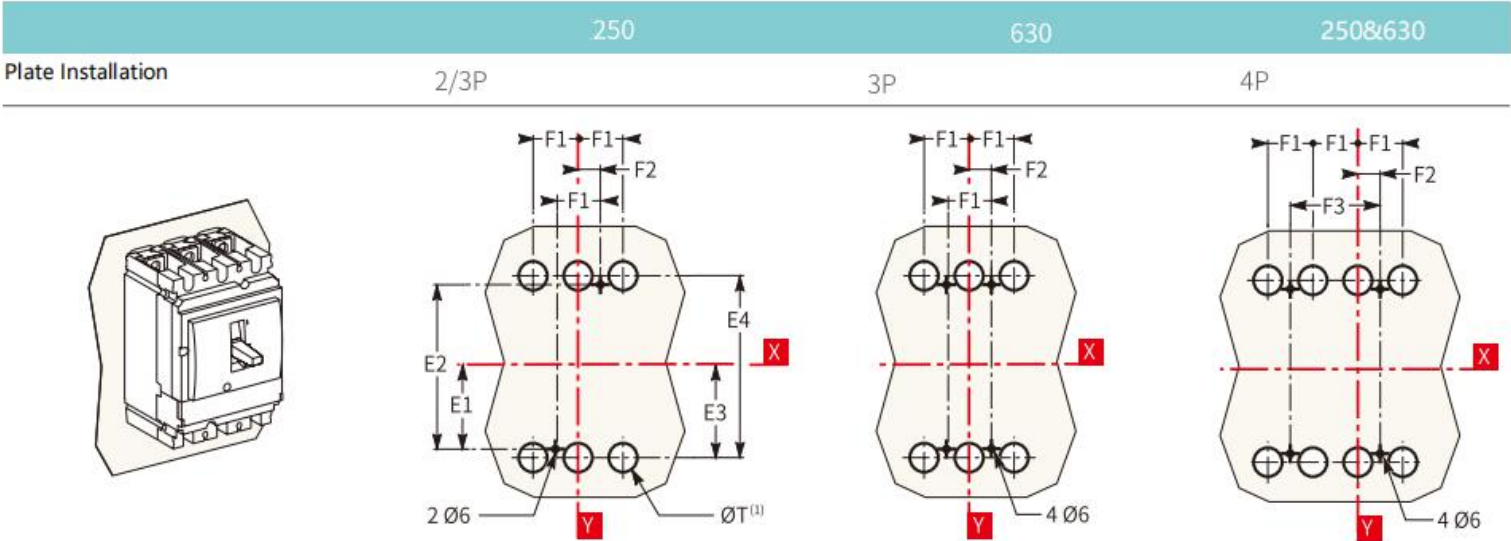
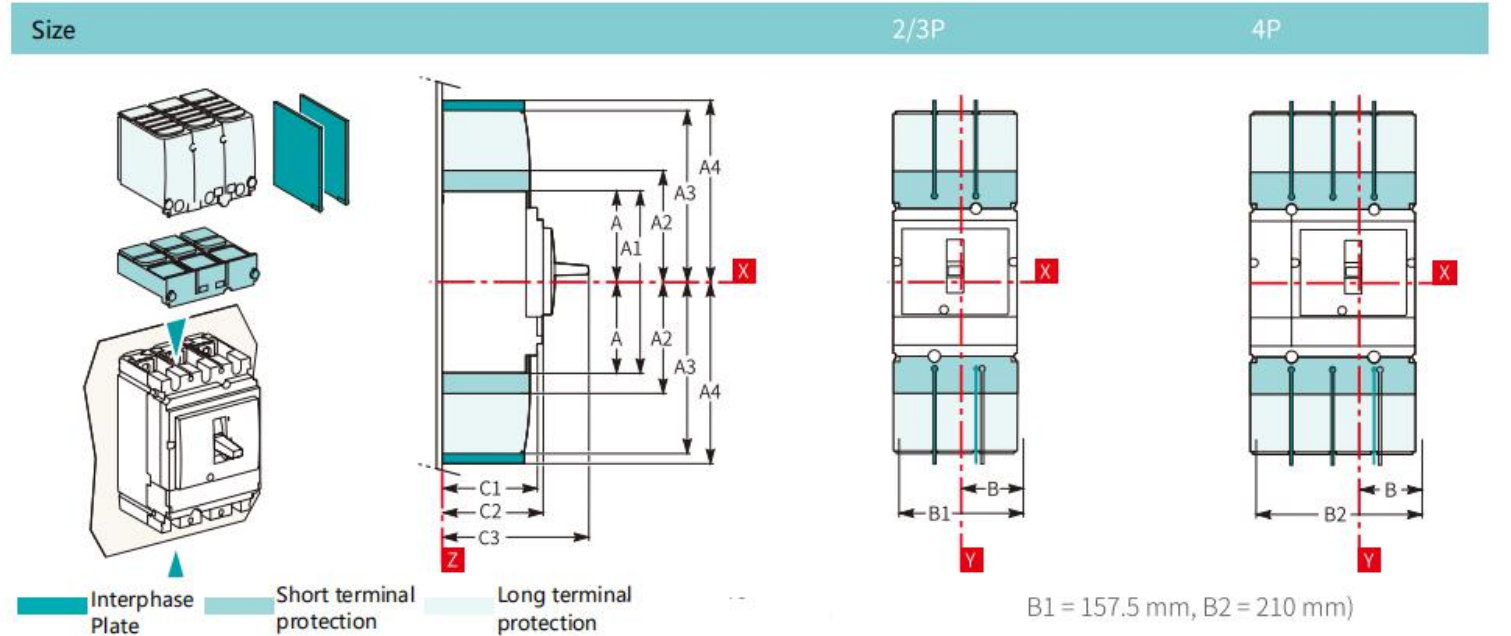
2) Plate Installation, Din-mounted Installation(with and w/o adapter) , Plug-in Installation



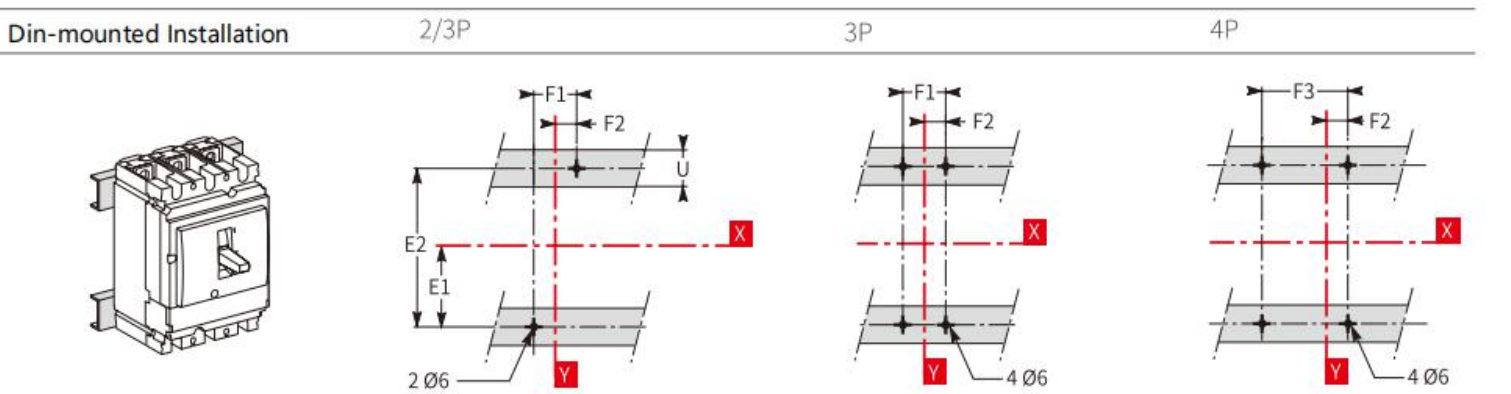
ADM3E

# Outline and Dimensions(MM)

## - Fixed Type

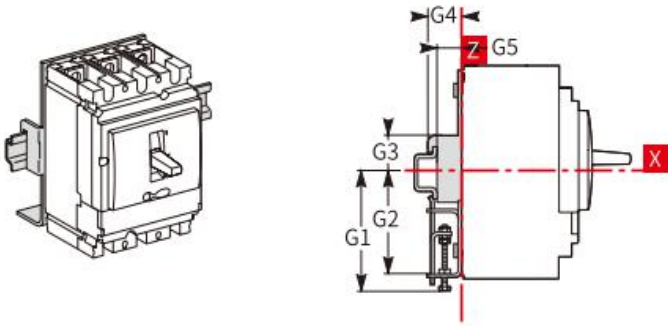


(1) ØT only for back connection

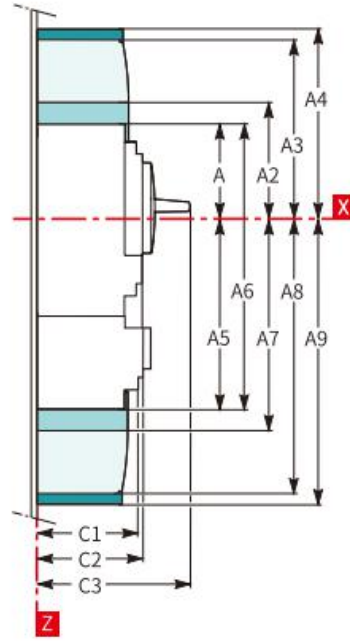
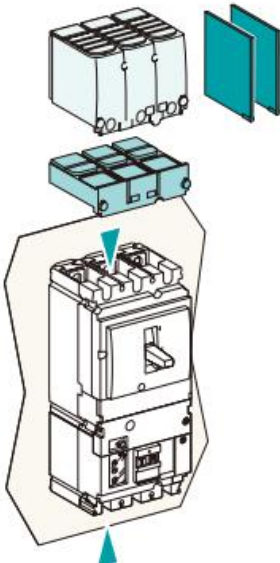


ADM3E

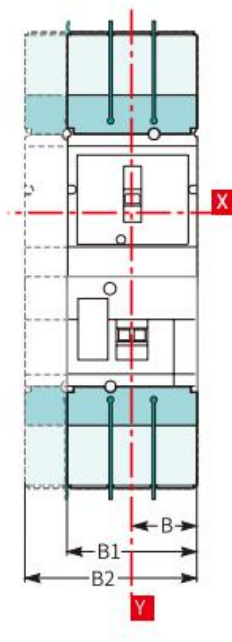
Din-mounted Installation with adapter(for 250)



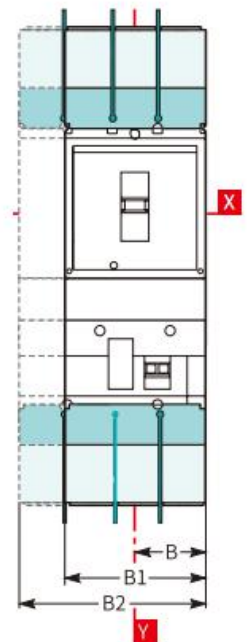
Size



3/4P



3/4P



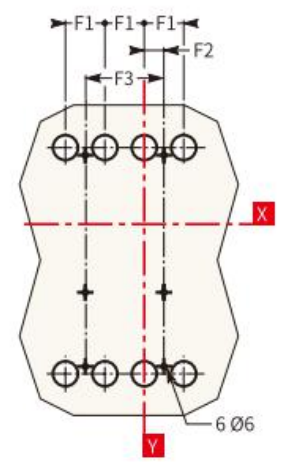
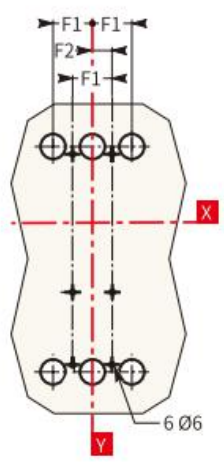
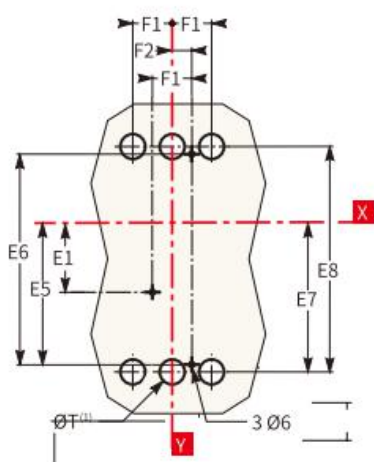
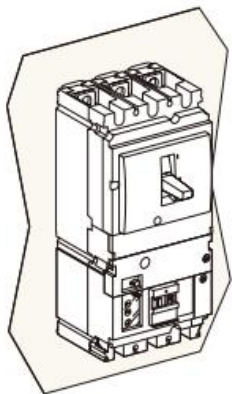
250 630 250&630

Plate Installation

2/3P

3P

4P



(1) ØT only for back connection

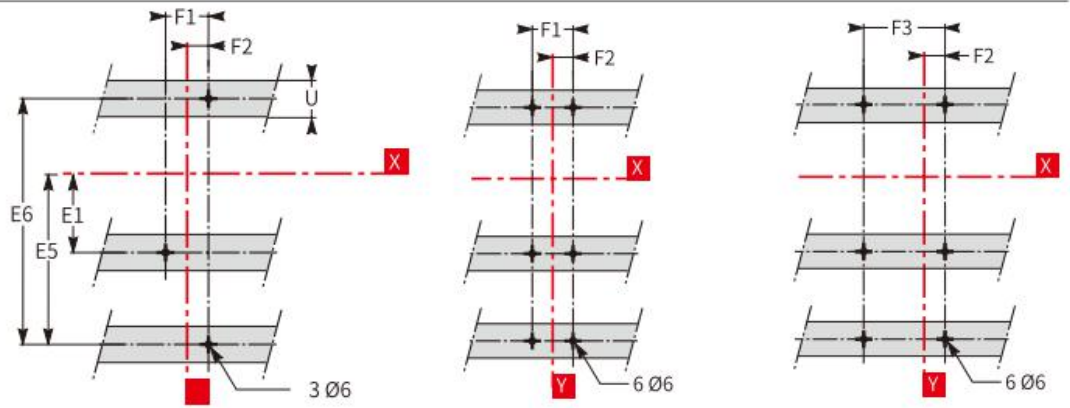
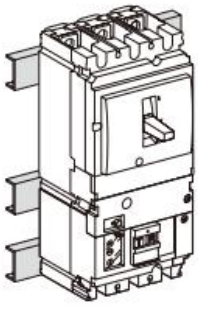


Din-mounted installation

3P

3P

4P

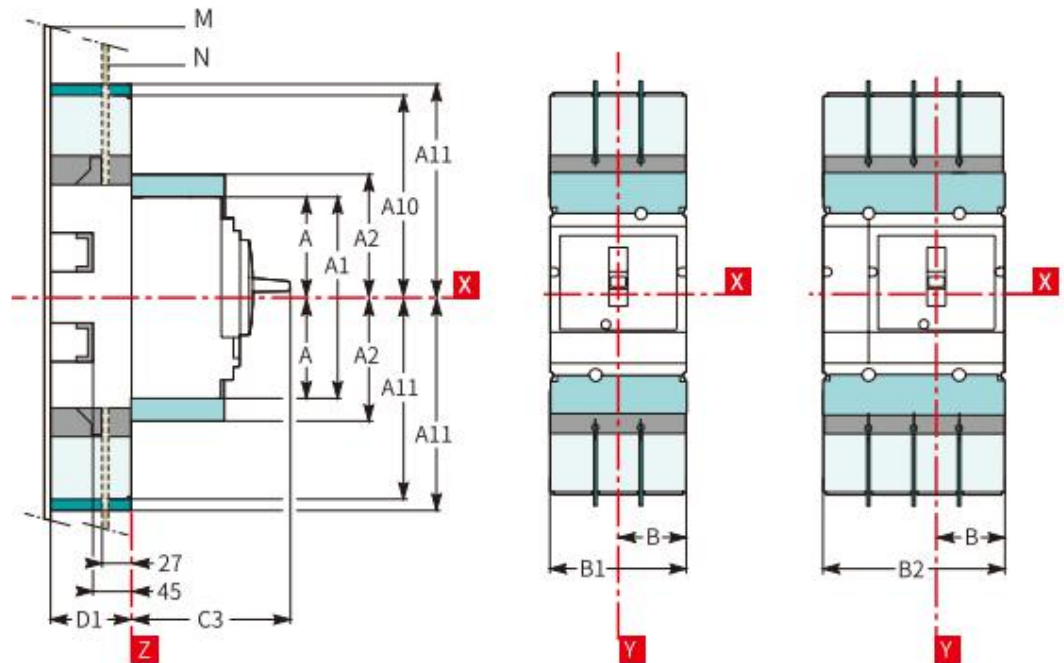
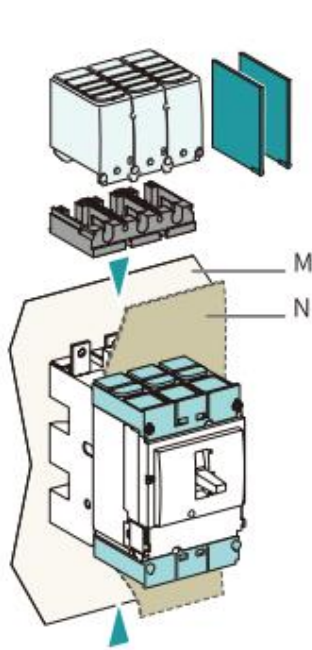


Frame Size	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	B	B1	B2	C1	C2	C3	E1
250	80.5	161	94	145	178.5	155.5	236	169	220	253.5	52.5	105	140	81	86	126	62.5
630	127.5	255	142.5	200	237	227.5	355	242.5	300	337	70	140	185	95.5	110	168	100
	E2	E3	E4	E5	E6	E7	E8	F1	F2	F3	G1	G2	G3	G4	G5	ØT	U
250	125	70	140	137.5	200	145	215	35	17.5	70	95	75	13.5	23	17.5	24	y32
630	200	113.5	227	200	300	213.5	327	45	22.5	90	-	-	-	-	-	32	y35

Size

2/3P

4P



- interphase plate
- short terminal protection

- long terminal protection
- adapter for base part

B1 = 157.5 mm, B2 = 210 mm)

250

630

250&630

Cross Plate Installation

2/3P

3P

4P

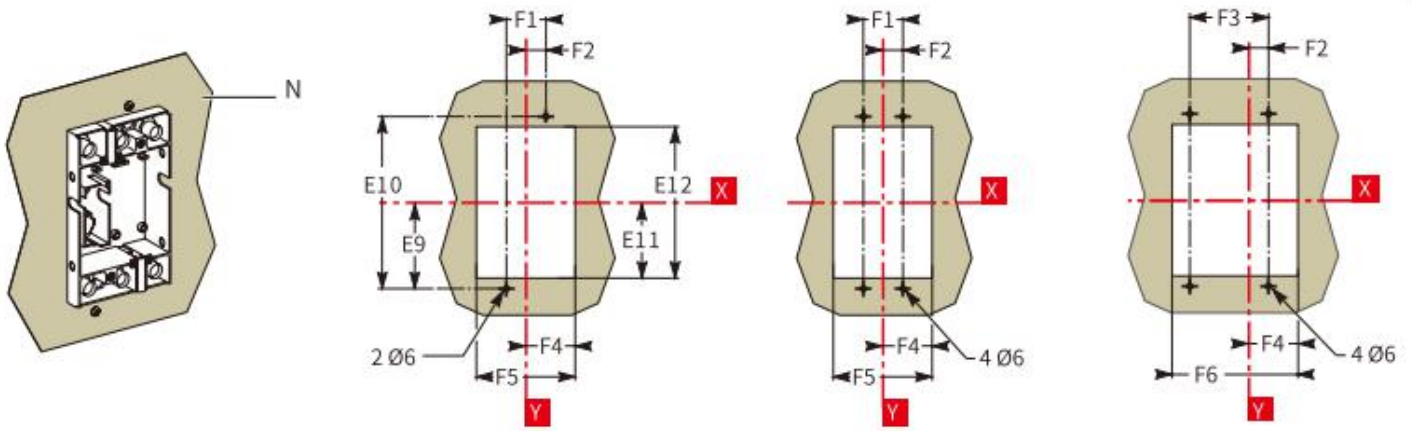
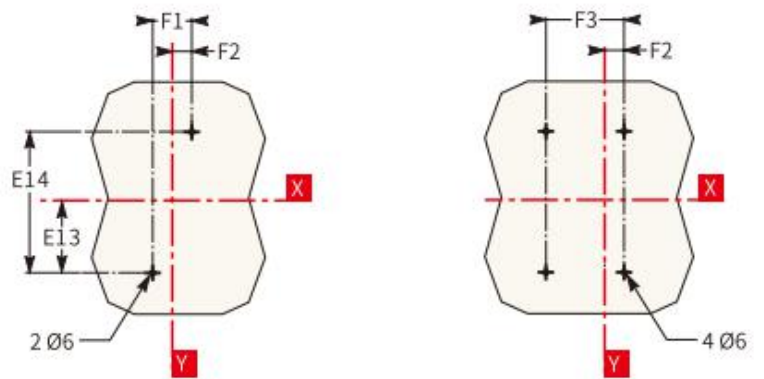
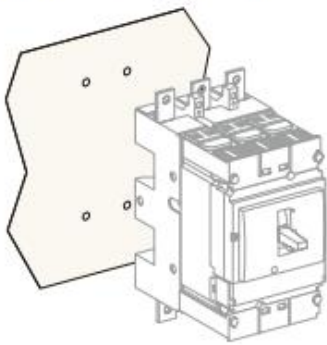


Plate Installation

2/3P

4P

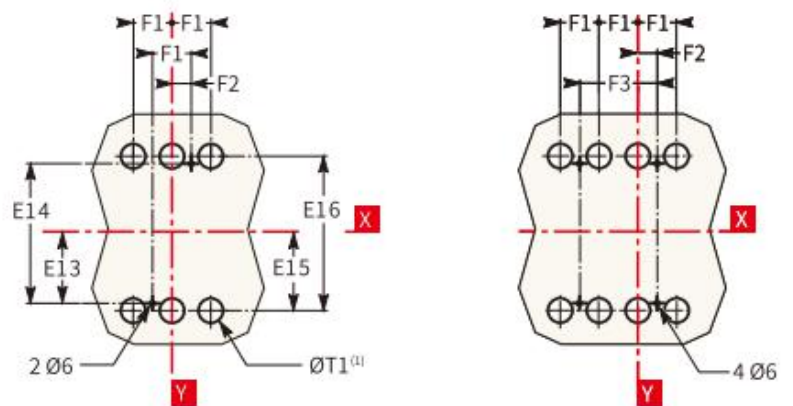
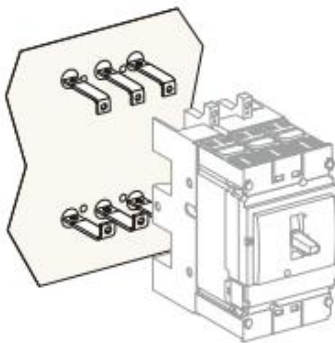
Front Connection - barriers need between plate and breaker



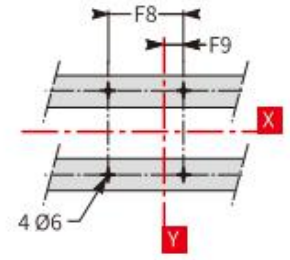
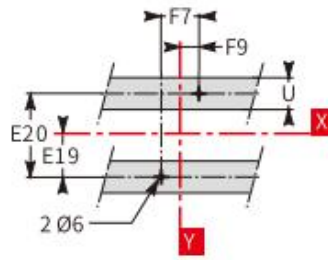
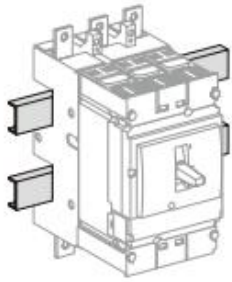
2/3P

4P

Back Connection

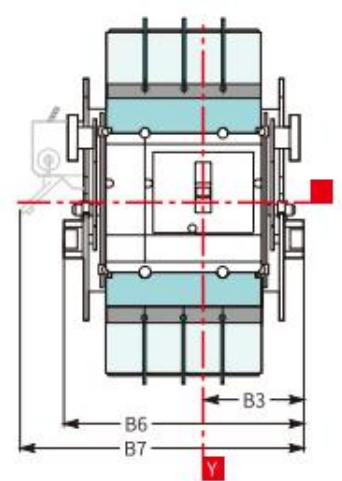
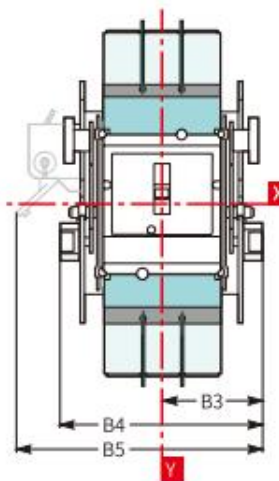
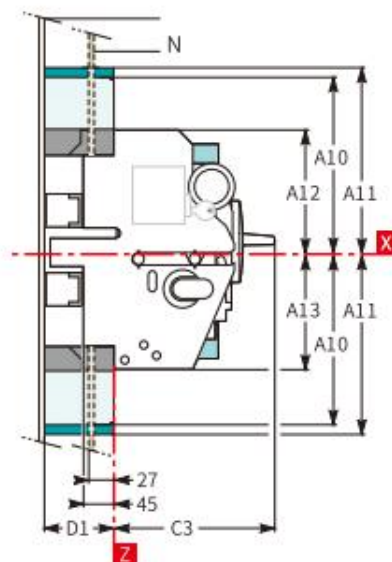
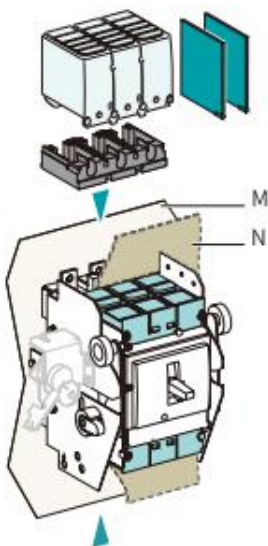


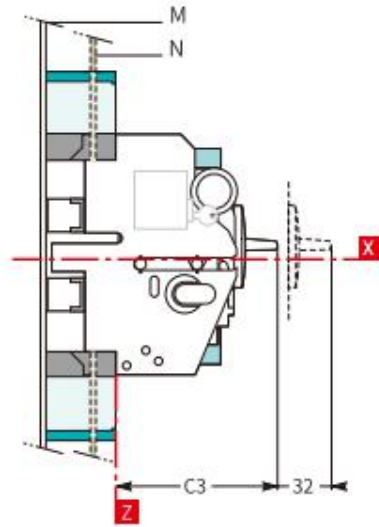
(1) ØT1 only for back connection



Frame Size	A	A1	A2	A10	A11	B	B1	B2	C3	D1	E9	E10	E11	E12	E13	E14	E15
250	80.5	161	94	175	210	52.5	105	140	126	75	95	190	87	174	77.5	155	79
630	127.5	255	142.5	244	281	70	140	185	168	100	150	300	137	274	125	250	126
	E16	E17	E18	E19	E20	F1	F2	F3	F4	F5	F6	F7	F8	F9	ØT1	U	
250	158	61	122	37.5	75	35	17.5	70	54.5	109	144	70	105	35	24	y32	
630	252	101	202	75	150	45	22.5	90	71.5	143	188	100	145	50	33	y35	

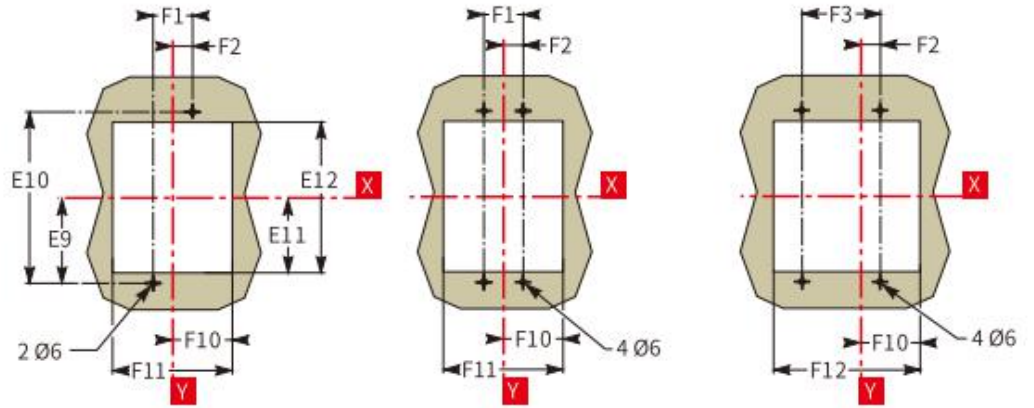
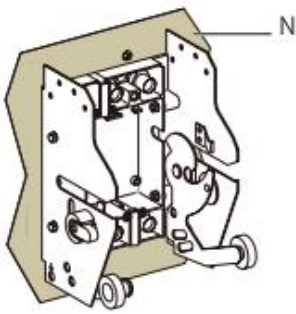
*- Draw out Type*





- interphase plate
- short terminal protection
- long terminal protection
- adapter for base

	250	630	250&630
2/3P	3P		4P

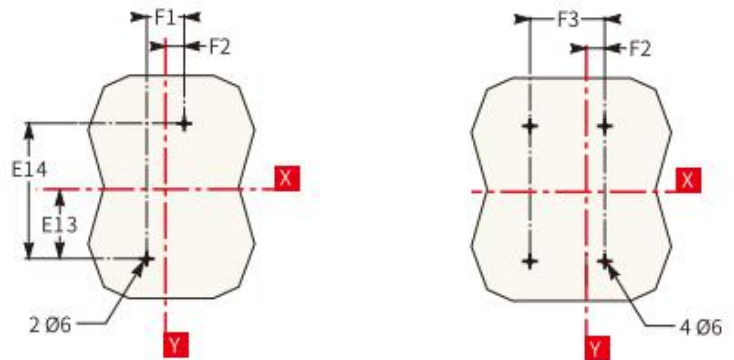
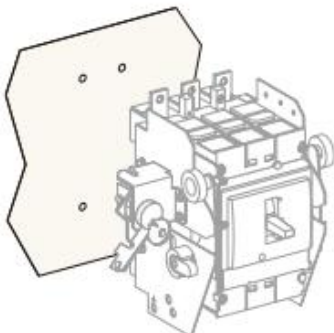


**Plate Installation**

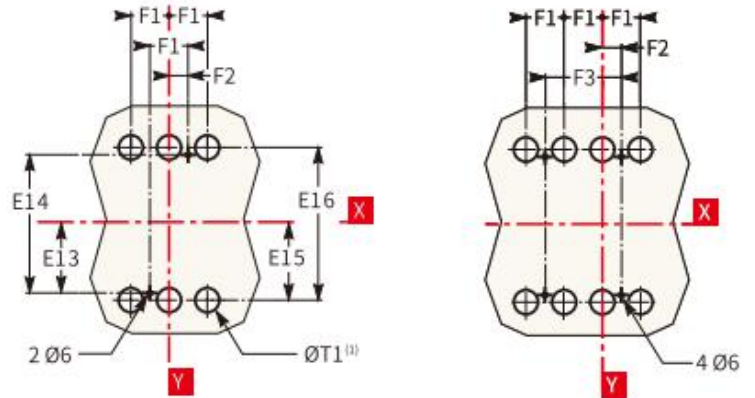
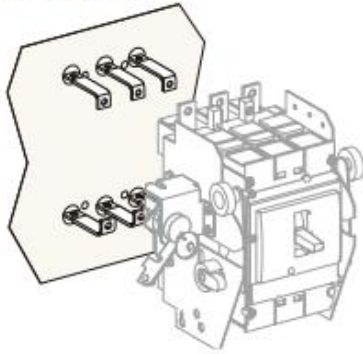
Font Connection - barriers need between plate and breaker

2/3P

4P



Back Connection



(1) ØT1 only for back connection

Frame Size	A10	A11	A12	A13	B3	B4	B5	B6	B7	C3	D1	E9	E10	E11	E12	E13	E14
250	175	210	106.5	103.5	92.5	185	216	220	251	126	75	95	190	87	174	77.5	155
630	244	281	140	140	110	220	250	265	295	168	100	150	300	137	274	125	250
	E15	E16	E17	E18	E19	E20	F1	F2	F3	F7	F8	F9	F10	F11	F12	ØT1	U
250	79	158	61	122	37.5	75	35	17.5	70	70	105	35	74	148	183	24	y32
630	126	252	101	202	75	150	45	22.5	90	100	145	50	91.5	183	228	33	y35