

## General information

### Circuit breakers for power distribution

#### T1 – T3



T1



T2



T3

			Tmax T1 1P	Tmax T1	Tmax T2	Tmax T3
<b>UL 489 CSA C22.2</b>						
Frame size	A		100	100	100	225
Number of poles	Nr		1	3, 4	3, 4	3, 4
Rated voltage	AC (50-60 Hz)	V	277	600Y / 347V	480	600Y/347V
	DC	V		500		500
Interrupting ratings			<b>B</b>	<b>N</b>	<b>S</b> <b>H</b>	<b>N</b> <b>S</b>
	AC 240 V	kA		50 ②	65   100	50   65
	277 V	kA	18 ①			
	480 V	kA		22 ②	35   65	25   35
	600Y/347	kA		10		10   10
	600 V	kA				
	DC 250 V - 2 poles in series	kA		25		25   35
500 V - 3 poles in series	kA		25		25   35	
500 V - 2 poles in series	kA					
600 V - 3 poles in series	kA					
Trip units	TMF		■	■	■	■
	TMD/TMA					
	ELT				■	
	MA				■	■
Versions	MCCB		■	■	■	■
	MCS			■		■
	MCP				■	■
<b>IEC 60947-2</b>						
Rated uninterrupted current, Iu	A		160	160	160	250
Number of poles	Nr		1	3,4	3,4	3,4
Rated service voltage, Ue	AC (50-60 Hz)	V	240	690	690	690
	DC	V	125	500	500	500
Rated ultimate short circuit breaking capacity, Icu			<b>B</b>	<b>C</b> <b>N</b>	<b>N</b> <b>S</b> <b>H</b> <b>L</b>	<b>N</b> <b>S</b>
	AC (50-60 Hz)	kA	25	25   40   50	65   85   100   120	50   85
	220/230 V	kA		16   25   36	36   50   70   85	36   50
	380/415 V	kA		10   15   22	30   45   55   75	25   40
	440 V	kA		8   10   15	25   30   36   50	20   30
	500 V	kA		3   4   6	6   7   8   10	5   8
	690 V	kA		16   25   36	36   50   70   85	36   50
	DC	kA		20   30   40	40   55   85   100	40   55
	250 V - 2 poles in series	kA				
	250 V - 3 poles in series	kA				
	500 V - 2 poles in series	kA				
500 V - 3 poles in series	kA		16   25   36	36   50   70   85	36   50	
750 V - 3 poles in series	kA					
Trip units	TMF		■			
	TMD/TMA			■		■
	ELT				■	
	MF				■	
	MA				■	■
<b>UL 489 CSA C22.2 and IEC 60947-2</b>						
Dimensions	H	in/mm	5.12/130	5.12/130	5.12/130	5.9/150
	W 1p or 3p	in/mm	1/25.4	3/76	3.54/90	4.13/105
	W 4p	in/mm		4/102	4.72/120	5.51/140
	D	in/mm	2.76/70	2.76/70	2.76/70	2.76/70
Mechanical life		No. operations	25,000	25,000	25,000	25,000
		No. Hourly operations	240	240	240	240
		No. operations	8000	8000	8000	8000
		No. hourly operations	120	120	120	120
Weights (Fixed 3P)	Lbs.		1.06	2.34	2.86	5.45

① In15A = 10kA @ 277 VAC

② In15A = 35kA @ 240 VAC, 14 kA @ 480 VAC

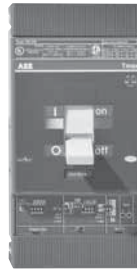
TMF = Thermomagnetic trip unit with fixed thermal and magnetic threshold

TMD = Thermomagnetic trip unit with adjustable thermal threshold and fixed magnetic threshold.

# General information

## Circuit breakers for power distribution

### T4 – T5



T4



T5

			Tmax T4					Tmax T5					
<b>UL 489 CSA C22.2</b>													
Frame size		A	250					600					
Number of poles		Nr	3, 4					3, 4					
Rated voltage	AC (50-60 Hz)	V	600					600					
	DC	V	600					600					
Interrupting ratings	AC 240 V	kA	N	S	H	L	V	N	S	H	L	V	
		kA	65	100	150	200	200	65	100	150	200	200	
		kA	25	35	65	100	150	25	35	65	100	150	
		kA	18	25	35	65	100	18	25	35	65	100	
		kA	25	35	50	65	100	25	35	50	65	100	
	DC 250 V - 2 poles in series	kA	25	35	50	65	100	25	35	50	65	100	
		500 V - 3 poles in series	kA	16	25	35	50	65	16	25	35	50	65
		500 V - 2 poles in series	kA										
		600 V - 3 poles in series	kA										
			kA										
Trip units	TMF		■										
	TMD/TMA		■					■					
	ELT		■					■					
	MA							■					
	MCCB		■					■					
Versions	MCS		■					■					
	MCP		■					■					
<b>IEC 60947-2</b>													
Rated uninterrupted current, Iu		A	250 - 320					400 - 630					
Number of poles		Nr	3, 4					3, 4					
Rated service voltage, Ue	AC (50-60 Hz)	V	690					690					
	DC	V	750					750					
Rated ultimate short circuit breaking capacity, Icu	AC (50-60 Hz)	kA	N	S	H	L	V	N	S	H	L	V	
		kA	70	85	100	200	300	70	85	100	200	300	
		kA	36	50	70	120	200	36	50	70	120	200	
		kA	30	40	65	100	180	30	40	65	100	180	
		kA	25	30	50	85	150	25	30	50	85	150	
	DC	kA	20	25	40	70	80	20	25	40	70	80	
		250 V - 2 poles in series	kA	36	50	70	120	200	36	50	70	120	200
		250 V - 3 poles in series	kA	25	36	50	70	100	25	36	50	70	100
		500 V - 2 poles in series	kA										
		500 V - 3 poles in series	kA	16	25	36	50	70	16	25	36	50	70
Trip units	TMF		■										
	TMD/TMA		■					■					
	ELT		■					■					
	MF												
	MA		■										
<b>UL 489 CSA C22.2 and IEC 60947-2</b>													
Dimensions	H	in/mm	8.07/205					8.07/205					
	W 1p or 3p	in/mm	4.13/105					5.51/140					
	W 4p	in/mm	5.51/140					7.24/184					
	D	in/mm	4.07/103.5					4.07/103.5					
Mechanical life	No. operations		20,000					20,000					
		Hourly operations	240					120					
	No. hourly operations		8000 (250A)-6000 (320A)					7000 (400A)-5000 (630A)					
			120					60					
Weights (Fixed 3P)		Lbs.	6.18					8.55					

TMA = thermomagnetic trip unit with adjustable thermal and magnetic threshold  
 MF = Magnetic fixed trip unit  
 MA = Magnetic adjustable trip unit  
 ELT = Electronic trip unit

## General information

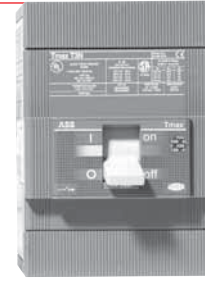
Circuit breakers for specific applications in accordance with IEC 60947-2



T1



T2



T3

			Tmax T1 1P	Tmax T1	Tmax T2	Tmax T3
<b>Circuit breakers for distribution AC-DC</b>						
Rated uninterrupted circuit		A	160	160	160	225
Number of poles		Nr	1	3, 4	3, 4	3, 4
Rated voltage	AC 50-60 Hz	V	240	690	690	690
		kA rms	<b>B</b>	<b>B C N</b>	<b>N S H L</b>	<b>N S</b>
	380/415 VAC	kA rms	25 ①	16 25 36	36 50 70 85	36 50
	440 VAC	kA rms		10 15 22	30 45 55 75	25 40
	690 VAC	kA rms		3 4 6	6 7 8 10	5 8
Ics/Icu @ 380/415 VAC %				100 100 50	100 100 100 75	75 50
Dimensions fixed version (3p)	H	in-mm	5.12 - 130	5.12 - 130	5.12 - 130	5.0 - 150
	W	in-mm	1 - 25.4	3 - 76	3.54 - 90	4.13 - 105
	D	in-mm	2.76 - 70	2.76 - 70	2.76 - 70	2.76 - 70
<b>Circuit breakers for motor protection</b>						
Iu		A			160	250
Poles					3	3
In		A			1 - 100	100 - 200
Ue		V			690	690
Trip unit	Adjustable magnetic only Electronic	(6 - 12xin) PR221DS-I PR222/MP (IEC 60947-4-1) PR212/P-I PR212/MP (IEC 60947-4-1)			■ ■	■
<b>Switch-disconnectors</b>						
Poles		Nr		3, 4		3, 4
Ith		A		160		250
Ue		V		690		690
Uimp		kV		8		8
Ui		V		800		800
Icm		kA		2.8		5.3
Icw (1s)		kA		2		3.6

① For In 16A and In 20A: Icu @ 220/230 VAC = 16 kA

## General information

Circuit breakers for specific applications in accordance with IEC 60947-2

Tmax  
MCCBs



T4



T5

		Tmax T4	Tmax T5	
<b>Circuit breakers for distribution AC-DC</b>				
Rated uninterrupted current	A	250	400 - 630	
Number of poles	Nr	3, 4	3, 4	
Rated voltage	V	690	690	
Icu	kA rms	N S H L V	N S H L V	
	kA rms	36 50 70 120 200	36 50 70 120 200	
	kA	30 40 65 100 180	30 40 65 100 180	
	kA	20 25 40 70 80	20 25 40 70 80	
	kA	20 25 40 70 80	20 25 40 70 80	
Ics/Icu @ 380/415 VAC		100 100 100 100 100	100 100 100 100 100	
Dimensions fixed version (3p)				
H	in-mm	8.07/205	8.07 - 205	
W	in-mm	4.13/105	5.51/140	
D	in-mm	4.07/103.5	4.07/103.5	
<b>Circuit breakers for motor protection</b>				
Iu	A	250	400	
Poles		3	3	
In		80 - 250	320 - 400	
Ue	V	690	690	
Trip unit		Adjustable magnetic only (6 - 12xin)	■	
		Electronic	■	
		PR221DS-I	■	
		PR222/MP (IEC 60947-4-1)	■	
		PR212P-I		
		PR212/MP (IEC 60947-4-1)		
<b>Switch-disconnectors</b>				
Poles	Nr	3/4	3/4	
Ith		250 - 320	400 - 630	
Ue	V	690	690	
Uimp	kV	8	8	
Ui	V	800	800	
Icm	kA	5.3	5.3	
Icw (1s)	kA	3.6	6	

① For In 16A and In 20A: Icu @ 220/230 VAC = 16 kA



# General information

## Catalog number explanation

**T3 S 080 T W - 4 xxx**

● **Accessories (added in alpha-numeric order) ①**

- A = Auxiliary Switch
- S\_ = Shunt trip with voltage code
- U\_ = Undervoltage release with voltage code

● **Number of poles**

- 1 = 1 pole (T1 only)
- 4 = 4 pole
- None = 3 pole

● **Type connectors**

- W = None
- L = Lugs included

● **Trip unit function**

- B = LS/I (AC only)
- D = Molded Case Switch (MCS)
- T = Thermal-magnetic – 10X Mag
- M = Magnetic only (MCP)
- E5 = Electronic MCP (AC only)
- C = LSI (AC only)
- E = LSIG (AC only)

● **Current rating**

- 015 = 15A
- 080 = 80A
- 100 = 100A
- 225 = 225A
- 250 = 250A
- 400 = 400A

● **Interrupting rating class**

- B = Basic
- N = Normal
- S = Standard
- H = High
- L = Limiting
- V = Very high

● **Frame size**

- T1 = 100A
- T2 = 100A
- T3 = 225A
- T4 = 250A
- T5 = 600A



① Consult ABB for factory installed accessories.