Thermal relays RTX³

for CTX³ 3-pole industrial contactors


4 166 70


4 166 90

4 167 31

4 167 65

Technical characteristics **p. 188**
Dimensions and coordination with circuit breakers **see e-catalogue**

Thermal protection against overloads, long starting times and lasting stalling of the motor
Differential type ensures a better protection in case of one phase failure thanks to faster tripping
Conform to IEC 60 947-1, IEC 60 947-4-1

Thermal overload relays

Class 10A
Integrated auxiliary contacts 1 NO + 1 NC

RTX³ 40

For CTX³ 22 and 40
With screw terminals

Pack	Cat.Nos Type standard	Cat.Nos Type diff.	Adjustment range I min. (A)	Adjustment range I max. (A)
1	4 166 40	4 166 60	0.1	0.16
1	4 166 41	4 166 61	0.16	0.25
1	4 166 42	4 166 62	0.25	0.4
1	4 166 43	4 166 63	0.4	0.63
1	4 166 44	4 166 64	0.63	1
1	4 166 45	4 166 65	1	1.6
1	4 166 46	4 166 66	1.6	2.5
1	4 166 47	4 166 67	2.5	4
1	4 166 48	4 166 68	4	6
1	4 166 49	4 166 69	5	8
1	4 166 50	4 166 70	6	9
1	4 166 51	4 166 71	7	10
1	4 166 52	4 166 72	9	13
1	4 166 53	4 166 73	12	18
1	4 166 54	4 166 74	16	22
1	4 166 55	4 166 75	18	25
1	4 166 56	4 166 76	22	32
1	4 166 57	4 166 77	28	40

RTX³ 65

For CTX³ 65
Standard type with screw terminals
Differential type with cage terminals

1	4 166 83	4 167 03	9	13
1	4 166 84	4 167 04	12	18
1	4 166 85	4 167 05	16	22
1	4 166 86	4 167 06	18	25
1	4 166 87	4 167 07	24	36
1	4 166 88	4 167 08	28	40
1	4 166 89	4 167 09	34	50
1	4 166 90	4 167 10	45	65

Thermal overload relays (continued)

Class 10A
Integrated auxiliary contacts 1 NO + 1 NC

RTX³ 100

For CTX³ 100
Standard type with screw terminals
Differential type with cage terminals

Pack	Cat. Nos Type standard	Cat. Nos Type diff.	Adjustment range I min. (A)	Adjustment range I max. (A)
1	4 167 23	4 167 43	18	25
1	4 167 24	4 167 44	24	36
1	4 167 25	4 167 45	28	40
1	4 167 26	4 167 46	34	50
1	4 167 27	4 167 47	45	65
1	4 167 28	4 167 48	54	75
1	4 167 29	4 167 49	63	85
1	4 167 30	4 167 50	70	95
1	4 167 31	4 167 51	80	100

RTX³ 150

For CTX³ 150
Standard type with screw terminals
Differential type with cage terminals

1	4 167 60	4 167 70	45	65
1	4 167 61	4 167 71	54	75
1	4 167 62	4 167 72	63	85
1	4 167 63	4 167 73	80	105
1	4 167 64	4 167 74	95	130
1	4 167 65	4 167 75	110	150

Separate mounting units

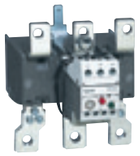
To mount the relays separately from contactors, on DIN rail or panel by fixing screws

1	4 165 91	For RTX³ 40 up to 32 A
1	4 165 92	For RTX³ 40 40 A
1	4 165 93	For RTX³ 65 with screw terminals
1	4 165 94	For RTX³ 65 with cage terminals
1	4 165 95	For RTX³ 100 with screw terminals
1	4 165 96	For RTX³ 100 with cage terminals
1	4 165 97	For RTX³ 150 with screw terminals
1	4 165 98	For RTX³ 150 with cage terminals

For dimensions and coordination with circuit breakers **see e-catalogue**

3-pole contactors CTX³ and thermal overload relays RTX³

technical characteristics

																								
Contactor		**CTX³ mini**				**CTX³ 22**				**CTX³ 40**			**CTX³ 65**		**CTX³ 100**		**CTX³ 150**		**CTX³ 225**		**CTX³ 400**			**CTX³ 800**		
	Size	-				2				3			4		5		6		7		8			9		
	Terminals type	screw				screw				screw			screw or cage		screw or cage		screw or cage		screw		screw			screw		
	Rated operational voltage, Ue	690 V				690 V				690 V			690 V		690 V		690 V		690 V		690 V			690 V		
	Rated insulation voltage, Ui	690 V				690 V				1000 V			1000 V		1000 V		1000 V		1000 V		1000 V			1000 V		
	Rated frequency	50/60 Hz				50/60 Hz				50/60 Hz			50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz			50/60 Hz		
	Rated impulse withstand voltage, Uimp	6 kV				6 kV				8 kV			8 kV		8 kV		8 kV		8 kV		8 kV			8 kV		
Max. operating rate in operation cycle per hour (AC-3)		1800				1800				1800			1800		1800		1200		1200		1200			1200		
Durability in millions of operations	**Mechanical**	12				15				12			12		12		5		5		5		2.5	2.5		
	Electrical	1				2.5				2			2		2		1		1		1		0.5	0.5		
	Type	6 A	9 A	12 A	16 A	9 A	12 A	18 A	22 A	32 A	40 A		50 A	65 A	75 A	85 A	100 A	130 A	150 A	185 A	225 A	265 A	330 A	400 A	500 A	630 A	800 A
Current and power	**AC-1 Thermal current (A)**	20	20	20	20	25	25	40	40	50	60		70	100	110	135	160	160	210	230	275	300	350	450	580	660	900
	AC-3 200/240 V (kW)	1.5	2.2	3	4	2.5	3.5	4.5	5.5	7.5	11		15	18.5	22	25	30	37	45	55	75	80	90	125	147	190	220
	(A)	7	9	12	15	11	13	18	22	32	40		55	65	75	85	105	130	150	185	225	265	330	400	500	630	800
	380/440 V (kW)	2.2	4	5.5	7.5	4	5.5	7.5	11	15	18.5		22	30	37	45	55	60	75	90	132	147	160	200	265	330	440
	(A)	6	9	12	16	9	12	18	22	32	40		50	65	75	85	105	130	150	185	225	265	330	400	500	630	800
	500/550 V (kW)	3	3.7	4	5.5	4	7.5	7.5	15	18.5	22		30	33	37	45	55	60	70	110	132	147	160	225	265	330	500
	(A)	5	6	7	9	7	12	13	20	28	32		43	60	64	75	85	90	100	180	200	225	280	350	400	500	720
	690 V (kW)	3	4	4	4	4	7.5	7.5	15	18.5	22		30	33	37	45	55	55	55	110	140	160	200	250	300	400	500
	(A)	4	5	5	5	5	9	9	18	20	23		28	35	42	45	65	60	60	120	150	185	225	300	380	420	630
	1000 V (kW)	-	-	-	-	-	-	-	-	22	22		30	30	37	27	37	75	75	132	132	147	147	147	220	220	220
	(A)	-	-	-	-	-	-	-	-	17	17		23	23	28	28	28	53	53	90	90	105	105	105	280	280	280
UL rating 50/60 Hz	**Continuous current (A)**	20	20	20	20	25	25	40	40	50	60		70	100	110	135	160	160	210	230	275	300	350	450	580	660	900
	Single phase 110/220 V (HP)	1/2	1/2	1	-	0.5	0.75	1	2	2	3		3	5	5	7.5	10	10	15	15	15	-	-	-	-	-	-
	Single phase 220/240 V (HP)	1	1.5	2	-	1.5	2	3	3	5	7.5		10	15	15	15	20	20	25	30	40	-	-	-	-	-	-
	Three phase 200/208 V (HP)	-	-	-	-	2	3	5	7.5	7.5	15		20	25	25	30	30	40	40	60	60	75	100	125	150	200	200
	Three phase 220/240 V (HP)	1.5	3	3	-	3	5	7.5	10	10	15		25	30	30	40	40	40	50	60	75	100	125	150	200	250	300
	Three phase 440/480 V (HP)	3	5	7.5	-	5	7.5	10	15	20	30		40	50	50	60	75	75	100	125	150	200	250	300	400	500	600
	Three phase 550/600 V (HP)	3	5	7.5	-	7.5	10	15	20	25	30		50	60	60	75	75	75	75	125	150	200	250	300	400	500	600
	NEMA size	00	00	00	0	00	00	0	1	1	1		2	2	2	3	3	3	4	4	4	5	5	5	6	6	7
Weight and size	**AC control Weight (kg)**	0.17				0.34				0.4			0.9		1.6			2.4		5.4		9.2			22.4		
	AC control Size (W x H x D) (mm)	45 × 58 × 57				45 × 73.5 × 87.4				45 × 83 × 90			55 × 106 × 119		70 × 140 × 135.8			95 × 158 × 130.3		138 × 203 × 185.1		163 × 243 × 204.4			285 × 312 × 245.3		
	DC control Weight (kg)	0.23				0.41				0.6			1.2		2.6			2.4		5.4		9.2			22.4		
	DC control Size (W x H x D) (mm)	45 × 58 × 69				45 × 73.5 × 103.6				45 × 83 × 117.1			55 × 106 × 146.4		70 × 140 × 172.3			95 × 158 × 130.3		138 × 203 × 185.1		163 × 243 × 204.4			285 × 312 × 245.3		
	Integrated auxiliary contacts	1 NO or 1 NC				1 NO + 1 NC				2 NO + 2 NC			2 NO + 2 NC		2 NO + 2 NC			2 NO + 2 NC		2 NO + 2 NC		2 NO + 2 NC			2 NO + 2 NC		
Add on auxiliary block	**Side mounting**	Yes				Yes				Yes			Yes		Yes			Yes		Yes		Yes			Yes		
	Front mounting	Yes				Yes				Yes			Yes		Yes			Yes		No		No			No		
Thermal overload relay		**RTX³ mini**				**RTX³ 40**				**RTX³ 40**			**RTX³ 65**		**RTX³ 100**		**RTX³ 150**		**RTX³ 225**		**RTX³ 400**			**RTX³ 800**		
																									
Terminals type	**Standard RTX³**	-				screw				screw			screw		screw		screw	-		-		-			-		
	Differential RTX³	screw				screw				screw			cage		cage		cage	screw		screw		screw			screw		
	Rated operational voltage, Ue	690 V				690 V				690 V			690 V		690 V		690 V	690 V		690 V		690 V			690 V		
	Rated insulation voltage, Ui	690 V				690 V				690 V			690 V		690 V		690 V	690 V		690 V		690 V			690 V		
	Rated impulse withstand voltage, Uimp	6 kV				6 kV				6 kV			6 kV		6 kV		6 kV	6 kV		6 kV		6 kV			6 kV		
	Trip class	10 A				10 A				10 A			10 A		10 A		10 A	10 A		10 A		10 A			10 A		
	Setting	0.1 to 16 A				0.1 to 40 A				0.1 to 40 A			9 to 65 A		18 to 100 A		45 to 150 A	65 to 240 A		85 to 400 A		200 to 800 A					
Weight and size	**Weight (kg)**	0.1				0.17				0.17			0.31/0.33		0.48/0.5		0.67	2.5		2.6		11.5					
	Size (W x H x D) (mm)	45 × 73 × 63				45 × 75 × 90				45 × 75 × 90			55 x 81 x 100		70 × 97 × 110		95 × 109 × 113	147 × 141 × 184		151 × 171 × 198		360 × 530 × 212					

legrand

87045 LIMOGES Cedex
Telephone: +33 5 55 06 87 87 – FAX: +33 5 55 06 88 88

Thermal Overload Relays - RTX³ and Mounting units

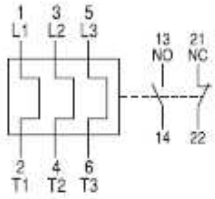
Cat. N°(s) : 4 166 40..57/60..77/83..90/4 167 03..10/23..31/ 4 167 43..51/60..65/70..75/80..84/86..95

CONTENTS PAGES

1. DESCRIPTION - USE

They ensure the thermal protection of circuits, against overload and long starting times.

Symbol:



2. RANGE

Number of Poles:

. Triple pole (3P).

Setting range:

RTX³ 40	0.1 to 40 [A]
RTX³ 65	9 to 65 [A]
RTX³ 100	18 to 100 [A]
RTX³ 150	45 to 150 [A]
RTX³ 225	65 to 240 [A]
RTX³ 400	85 to 400 [A]
RTX³ 800	200 to 800 [A]

Rated operational voltage:

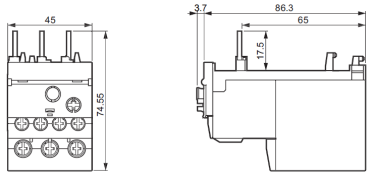
. Ue = 690 [V] for all products.

Rated frequency:

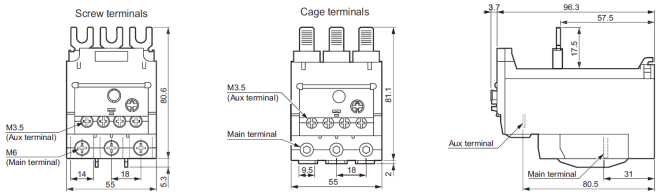
. 50 / 60 [Hz].

3. OVERALL DIMENSIONS

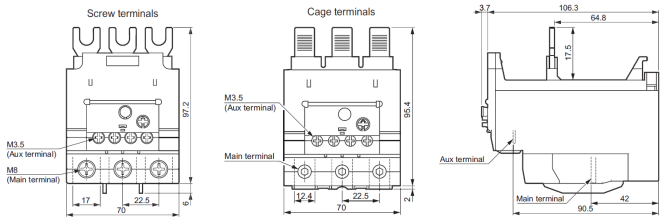
RTX³ 40:



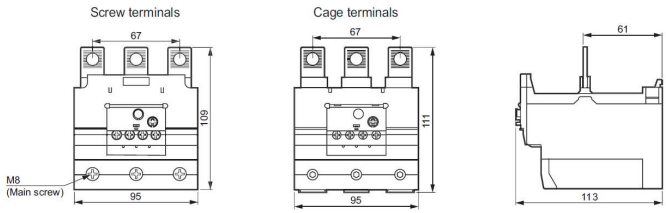
RTX³ 65:



RTX³ 100:

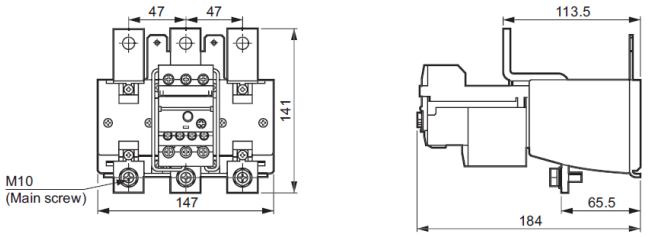


RTX³ 150:

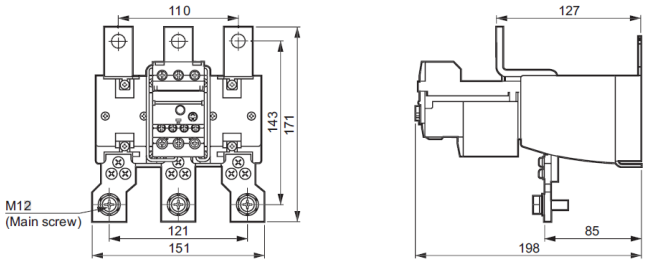


3. OVERALL DIMENSIONS *(continued)*

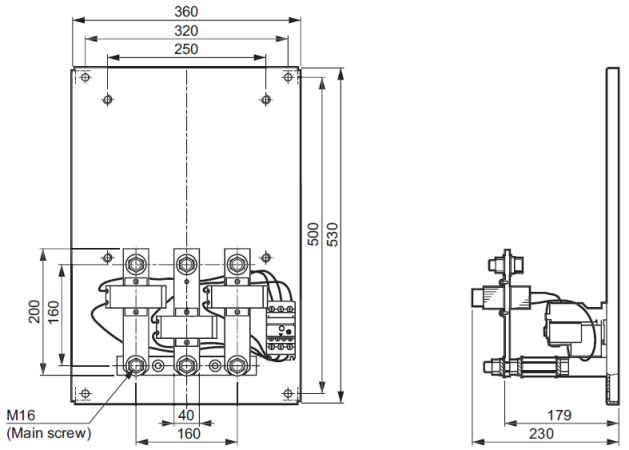
RTX³ 225:



RTX³ 400:



RTX³ 800:



4. INSTALLATION - CONNECTION

Mounting position:

. Vertical plane.

. Direct connection beneath CTX³ contactors.

Operating position:

. ± 30 [°] possible, in relation to normal vertical mounting plane.

Supply:

. Either from the top or the bottom.

4. INSTALLATION - CONNECTION *(continued)*

Connection : (until RTX³ 150)

. Terminals protected against direct contact (IP20).

. Terminals with release and captive screws.

. Screw head : slotted and pozidriv n°2.

Tools required:

. Pozidriv N°2 screwdriver recommended.

. Pozidriv N°3 screwdriver for RTX³ 65 / 100 and 150.

. Flat screwdriver Ø5 to Ø6 [mm] Maximum.

. Hexagonal key (for RTX³ 65 with cage terminals).

. Hexagonal key (for RTX³ 100 / 150 with cage terminals).

. Flat spanner for M10 bolt (for RTX³ 225).

. Flat spanner for M12 bolt (for RTX³ 400).

. Flat spanner for M16 bolt (for RTX³ 800).

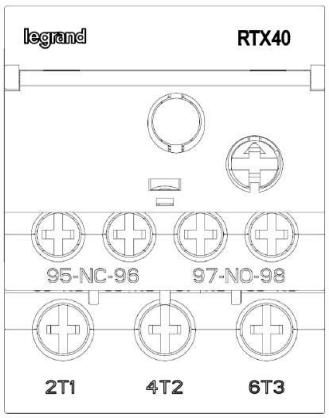
5. GENERAL CHARACTERISTICS

Front side:

. By dark grey laser or pad printing:

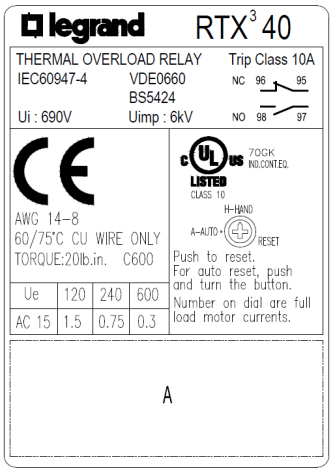
- Brand: Legrand
- Range: RTX + frame
- Rated current (in A)
- Marking power terminals

RTX³ 40: (Example of marking)



Left side:

. By identification label.



. Example area "A":

- Catalog number
- Rating
- Approval marks
- Made in
- Production date

5. GENERAL CHARACTERISTICS *(continued)*

Rated impulse voltage and rated insulation voltage:

Type of products	Rated impulse voltage (Uimp)	Rated isulation voltage (Ui)
RTX³ 40	6 [kV]	Up to 690 [V]
RTX³ 65	6 [kV]	Up to 690 [V]
RTX³ 100	6 [kV]	Up to 690 [V]
RTX³ 150	6 [kV]	690 [V]
RTX³ 225	6 [kV]	690 [V]
RTX³ 400	6 [kV]	690 [V]
RTX³ 800	6 [kV]	690 [V]

Ambient operating temperature:

. Min. = -5°C. Max. = +40°C.

Ambient storage temperature:

. Min. = -55°C. Max. = +80°C.

Temperature compensation:

. Min. = -5°C. Max. = +40°C.

Weight:

RTX³ 40	0.17 [kg]
RTX³ 65	0.31/ 0.33 [kg]
RTX³ 100	0.48 / 0.5 [kg]
RTX³ 150	0.67 [kg]
RTX³ 225	2.5 [kg]
RTX³ 400	2.6 [kg]
RTX³ 800	11.5 [kg]

Degree of protection: (In accordance with IEC 60 529 standard)

. IP20.

Flame resistance:

. Conforming to UL = V0.

. Conforming to IEC 695-2-1 = 960 [°C].

Shock resistance: (Conforming to IEC 68-2-7)

. 15 [gn] - 11 [ms].

Vibration resistance: (Conforming to IEC 68-2-6)

. 6 [g].

Trip class:

. Class 10A.

Functions:

. Trip indicating.

. Stop.

. Test.

. Manual / Automatic reset.

5. GENERAL CHARACTERISTICS *(continued)*

Coordination:

. Trip class 10A.

. Terminal type: screw.

Setting range - [A]	Thermal Overload Relay - RTX³	Contactor - CTX³	Separate Mounting unit
0.1 to 0.16	RTX³ 40	CTX³ 22 CTX³ 40	4 165 91
0.16 to 0.25			
0.25 to 0.4			
0.4 to 0.63			
0.63 to 1			
1 to 1.6			
1.6 to 2.5			
2.5 to 4			
4 to 6			
5 to 8			
6 to 9			
7 to 10			
9 to 13			
12 to 18			
16 to 22			
28 to 25			
22 to 32			
28 to 40			4 165 92

. Terminal type: screw and cage.

Setting range - [A]	Thermal Overload Relay - RTX³	Contactor - CTX³	Separate Mounting unit
9 to 13	RTX³ 65	CTX³ 65	4 165 93 (Screw) 4 165 94 (Cage)
12 to 18			
16 to 22			
18 to 25			
24 to 36			
28 to 40			
34 to 50			
45 to 65			

5. GENERAL CHARACTERISTICS *(continued)*

Coordination: *(continued)*

. Trip class 10A.

. Terminal type: screw and cage.

Setting range - [A]	Thermal Overload Relay - RTX³	Contactor - CTX³	Separate Mounting unit
18 to 25	RTX³ 100	CTX³ 100	4 165 95 (Screw) 4 165 96 (Cage)
24 to 36			
28 to 40			
34 to 50			
45 to 65			
54 to 75			
63 to 85			
70 to 95			
80 to 100			

Setting range - [A]	Thermal Overload Relay - RTX³	Contactor - CTX³	Separate Mounting unit
45 to 65	RTX³ 150	CTX³ 150	4 165 97 (Screw) 4 165 98 (Cage)
54 to 75			
63 to 85			
80 to 105			
95 to 130			
110 to 150			

. Terminal type: screw and cage.

Setting range - [A]	Thermal Overload Relay - RTX³	Contactor - CTX³	Separate Mounting unit
65 to 100	RTX³ 225	CTX³ 225	-
85 to 125			
100 to 160			
120 to 185			
160 to 240			

5. GENERAL CHARACTERISTICS *(continued)*

Coordination: *(continued)*

. Trip class 10A.

. Terminal type: screw.

Setting range - [A]	Thermal Overload Relay - RTX³	Contactor - CTX³	Separate Mounting unit
85 to 125	RTX³ 400	CTX³ 400	-
100 to 160			
120 to 185			
160 to 240			
200 to 330			
260 to 400			

Setting range - [A]	Thermal Overload Relay - RTX³	Contactor - CTX³	Separate Mounting unit
200 to 330	RTX³ 800	CTX³ 800	-
260 to 400			
400 to 630			
520 to 800			

5. GENERAL CHARACTERISTICS *(continued)*

Coordination: Type 2

Motor		Circuit-breaker				Contactor	Thermal relay			Test	
Rated power (kW)	Rated current (A)	Type	Rated current (A)	Magnetic threshold (A)	Reference	Type	Type	Setting range (A)	Reference	Rated conditionnal short-circuit current Iq (kA)	Voltage (V)
0,37	1,10	DX³-MA	1.6	20	4 098 76	CTX³22 9A	RTX³40	1- 1.6	4 166 45/65	15	400
0.55	1.5	DX³-MA	1.6	20	4 098 76	CTX³22 9A	RTX³40	1- 1.6	4 166 45/65	15	400
0,75	1,9	DX³-MA	2,5	32	4 098 77	CTX³22 9A	RTX³40	1.6 - 2.5	4 166 46/66	15	400
1,1	2,7	DX³-MA	4	50	4 098 78	CTX³22 9A	RTX³40	2.5 – 4	4 166 47/67	15	400
1,5	3,5	DX³-MA	4	50	4 098 78	CTX³22 9A	RTX³40	2.5 – 4	4 166 47/67	15	400
2,2	5	DX³-MA	6,3	80	4 098 79	CTX³22 9A	RTX³40	4 – 6	4 166 48/68	15	400
2,5	5,7	DX³-MA	6,3	80	4 098 79	CTX³22 9A	RTX³40	4 – 6	4 166 48/68	15	400
3	6,7	DX³-MA	10	125	4 098 80	CTX³22 12A	RTX³40	5 – 8	4 166 49/69	15	400
3,7	8	DX³-MA	10	125	4 098 80	CTX³22 12A	RTX³40	6 – 9	4 166 50/70	15	400
4	8,5	DX³-MA	10	125	4 098 80	CTX³22 12A	RTX³40	7 – 10	4 166 51/71	15	400
5,5	11	DX³-MA	12,5	160	4 098 81	CTX³22 22A	RTX³40	9 – 13	4 166 52/72	15	400
6,3	13	DX³-MA	16	200	4 098 82	CTX³22 22A	RTX³40	12 – 18	4 166 53/73	15	400
7,5	15	DX³-MA	16	200	4 098 82	CTX³22 22A	RTX³40	12 – 18	4 166 53/73	15	400
10	20	DX³-MA	25	320	4 098 83	CTX³22 22A	RTX³40	16 – 22	4 166 54/74	15	400
11	22	DX³-MA	25	320	4 098 83	CTX³22 22A	RTX³40	18 – 25	4 166 55/75	15	400
12,5	25	DX³-MA	25	320	4 098 83	CTX³40 32A	RTX³40	22 – 32	4 166 56/76	15	400
15	29	DX³-MA	40	500	4 098 84	CTX³40 32A	RTX³40	22 – 32	4 166 56/76	10	400
16	31	DX³-MA	40	500	4 098 84	CTX³40 32A	RTX³40	22 – 32	4 166 56/76	10	400
18,5	35	DX³-MA	40	500	4 098 84	CTX³40 40A	RTX³40	28 – 40	4 166 57/77	10	400
20	38	DX³-MA	40	500	4 098 84	CTX³40 40A	RTX³40	28 – 40	4 166 57/77	10	400
22	41	DX³-MA	63	880	4 098 85	CTX³65 50A	RTX³65	34 – 50	4 166 89 4 167 09	10	400
25	47	DX³-MA	63	880	4 098 85	CTX³65 50A	RTX³65	34 – 50	4 166 89 4 167 09	10	400
30	57	DX³-MA	63	880	4 098 85	CTX³65 65A	RTX³65	45 – 65	4 166 90 4 167 10	10	400
31,5	59	DX³-MA	63	880	4 098 85	CTX³65 65A	RTX³65	45 – 65	4 166 90 4 167 10	10	400

5. GENERAL CHARACTERISTICS *(continued)*

Coordination: Type 2 *(continued)*

Motor		Circuit-breaker				Contactor	Thermal relay			Test	
Rated power (kW)	Rated current (A)	Type	Rated current (A)	Magnetic threshold (A)	Reference	Type	Type	Setting range (A)	Reference	Conditional short-circuit current Iq (kA)	Voltage (V)
15	29	DPX³ 160	40	400	4 200 82	CTX³100 85A	RTX³100	24 – 36	4 167 24/44	36	400
16	31	DPX³ 160	40	400	4 200 82	CTX³100 85A	RTX³100	24 – 36	4 167 24/44	36	400
18,5	35	DPX³ 160	40	400	4 200 82	CTX³100 85A	RTX³100	28 – 40	4 167 25/45	36	400
20	38	DPX³ 160	40	400	4 200 82	CTX³100 85A	RTX³100	34 – 50	4 167 26/46	36	400
22	41	DPX³ 160	63	630	4 200 83	CTX³100 100A	RTX³100	34 – 50	4 167 26/46	36	400
25	47	DPX³ 160	63	630	4 200 83	CTX³100 100A	RTX³100	45 – 65	4 167 27/47	36	400
30	57	DPX³ 160	63	630	4 200 83	CTX³100 100A	RTX³100	45 – 65	4 167 27/47	36	400
31,5	59	DPX³ 160	63	630	4 200 83	CTX³100 100A	RTX³100	54 – 75	4 167 28/48	36	400
37	68	DPX³ 160	100	1000	4 200 85	CTX³150 130A	RTX³150	54 – 75	4 167 61/71	36	400
40	74	DPX³ 160	100	1000	4 200 85	CTX³150 130A	RTX³150	63 – 85	4 167 62/72	36	400
45	82	DPX³ 160	100	1000	4 200 85	CTX³150 130A	RTX³150	63 – 85	4 167 62/72	36	400
50	92	DPX³ 160	100	1000	4 200 85	CTX³150 130A	RTX³150	80 - 105	4 167 63/73	36	400
55	102	DPX³ 160	125	1250	4 200 86	CTX³150 150A	RTX³150	95 - 130	4 167 64/74	36	400
63	115	DPX³ 160	125	1250	4 200 86	CTX³150 150A	RTX³150	95 - 130	4 167 64/74	36	400

5. GENERAL CHARACTERISTICS *(continued)*

Coordination: Type 2 *(continued)*

Motor		Circuit-breaker				Contactor	Thermal relay			Test	
Rated power (kW)	Rated current (A)	Type	Rated current (A)	Magnetic threshold (A)	Référence	Type	Type	Setting range (A)	Reference	Conditional short-circuit current Iq (kA)	Voltage (V)
15	29	DPX³ 160	40	140 - 400	4 201 22	CTX³65 50A	RTX³65	24 – 36	4 166 87 4 167 07	50	400
16	31	DPX³ 160	40	140 - 400	4 201 22	CTX³65 50A	RTX³65	24 – 36	4 166 87 4 167 07	50	400
18,5	35	DPX³ 160	40	140 - 400	4 201 22	CTX³65 50A	RTX³65	28 - 40	4 166 88 4 167 08	50	400
20	38	DPX³ 160	40	140 - 400	4 201 22	CTX³65 50A	RTX³65	34 – 50	4 166 89 4 167 09	50	400
22	41	DPX³ 160	63	220 - 630	4 201 23	CTX³65 65A	RTX³65	34 - 50	4 166 89 4 167 09	50	400
25	47	DPX³ 160	63	220 - 630	4 201 23	CTX³100 85A	RTX³100	34 – 50	4 167 26/46	50	400
30	57	DPX³ 160	63	220 - 630	4 201 23	CTX³100 100A	RTX³100	45 - 65	4 167 27/47	50	400
31,5	59	DPX³ 160	63	220 - 630	4 201 23	CTX³100 100A	RTX³100	54 - 75	4 167 28/48	50	400
37	68	DPX³ 250	100	350 - 1000	4 206 05	CTX³100 100A	RTX³100	63 – 85	4 167 29/49	50	400
40	74	DPX³ 250	100	350 - 1000	4 206 05	CTX³150 130A	RTX³150	63 – 85	4 167 62/72	50	400
45	82	DPX³ 250	100	350 - 1000	4 206 05	CTX³150 130A	RTX³150	63 - 85	4 167 62/72	50	400
50	92	DPX³ 250	100	350 - 1000	4 206 05	CTX³150 130A	RTX³150	80 – 105	4 167 63/73	50	400
55	102	DPX³ 250	100	350 - 1000	4 206 05	CTX³150 150A	RTX³150	95 - 130	4 167 64/74	50	400
63	115	DPX³ 250	160	560 - 1600	4 206 07	CTX³150 150A	RTX³150	95 - 130	4 167 64/74	50	400
75	137	DPX³ 250	160	560 - 1600	4 206 07	CTX³225 185A	RTX³225	100 - 160	4 167 82	50	400
90	164	DPX³ 250	250	900 - 2500	4 206 09	CTX³225 185A	RTX³225	120 - 185	4 167 83	50	400
110	204	DPX³ 250	250	900 - 2500	4 206 09	CTX³225 225A	RTX³225	160 – 240	4 167 84	50	400
132	238	DPX³ 250	250	900 - 2500	4 206 09	CTX³400 265A	RTX³400	200 - 330	4 167 90	50	400
150	262	DPX³ 630	320	1600 - 3200	4 220 29	CTX³400 330A	RTX³400	200 – 330	4 167 90	50	400
160	282	DPX³ 630	320	1600 - 3200	4 220 29	CTX³400 330A	RTX³400	260 - 400	4 167 91	50	400
200	350	DPX³ 630	400	2000 - 3200	4 220 30	CTX³400 400A	RTX³400	260 – 400	4 167 91	50	400
220	387	DPX³ 630	400	1600 - 3200	4 220 30	CTX³400 400A	RTX³400	260 – 400	4 167 91	50	400
250	440	DPX³ 630	500	1600 - 3200	4 220 31	CTX³800 630A	RTX³800	400 – 630	4 167 94	50	400

5. GENERAL CHARACTERISTICS *(continued)*

Coordination: Type 2 *(continued)*

Motor		Circuit-breaker				Contactor	Thermal relay			Test	
Rated power (kW)	Rated current (A)	Type	Rated current (A)	Magnetic threshold (A)	Référence	Type	Type	Setting range (A)	Reference	Conditional short-circuit current Iq (kA)	Voltage (V)
15	27	DPX³ 160	40	140 - 400	4 201 22	CTX³65 50A	RTX³65	24 – 36	4 166 87 4 167 07	30	440
16	29	DPX³ 160	40	140 - 400	4 201 22	CTX³65 50A	RTX³65	24 – 36	4 166 87 4 167 07	30	440
18,5	34	DPX³ 160	40	140 - 400	4 201 22	CTX³65 65A	RTX³65	28 – 40	4 166 88 4 167 08	30	440
20	37	DPX³ 160	40	140 - 400	4 201 22	CTX³65 65A	RTX³65	28 - 40	4 166 88 4 167 08	30	440
22	40	DPX³ 160	40	140 - 400	4 201 23	CTX³100 75A	RTX³100	34 – 50	4 167 26/46	30	440
25	45	DPX³ 160	63	220 - 630	4 201 23	CTX³100 85A	RTX³100	34 – 50	4 167 26/46	30	440
30	53	DPX³ 160	63	220 - 630	4 201 23	CTX³100 100A	RTX³100	45 – 65	4 167 27/47	30	440
31,5	56	DPX³ 160	63	220 - 630	4 201 23	CTX³100 100A	RTX³100	45 – 65	4 167 27/47	30	440
37	65	DPX³ 250	100	350 - 1000	4 206 05	CTX³100 100A	RTX³100	54 – 75	4 167 28/48	50	440
40	71	DPX³ 250	100	350 - 1000	4 206 05	CTX³150 130A	RTX³150	63 – 85	4 167 62/72	50	440
45	78	DPX³ 250	100	350 - 1000	4 206 05	CTX³150 130A	RTX³150	63 – 85	4 167 62/72	50	440
50	88	DPX³ 250	100	350 - 1000	4 206 05	CTX³150 130A	RTX³150	80 – 105	4 167 63/73	50	440
55	98	DPX³ 250	100	350 - 1000	4 206 05	CTX³150 150A	RTX³150	80 – 105	4 167 63/73	50	440
63	110	DPX³ 250	160	560 - 1600	4 206 07	CTX³150 150A	RTX³150	95 – 130	4 167 64/74	50	440
75	129	DPX³ 250	160	560 - 1600	4 206 07	CTX³225 185A	RTX³225	100 – 160	4 167 82	50	440
90	157	DPX³ 250	160	560 - 1600	4 206 07	CTX³225 225A	RTX³225	120 – 185	4 167 83	50	440
110	188	DPX³ 250	250	900 - 2500	4 206 09	CTX³400 265A	RTX³400	160 – 240	4 167 89	50	440
132	218	DPX³ 250	250	900 - 2500	4 206 09	CTX³400 265A	RTX³400	160 - 240	4 167 89	50	440
150	244	DPX³ 630	320	1600 - 3200	4 220 29	CTX³400 400A	RTX³400	200 – 330	4 167 90	50	440
160	260	DPX³ 630	320	1600 - 3200	4 220 29	CTX³400 400A	RTX³400	200 – 330	4 167 90	50	440
200	330	DPX³ 630	400	1600 - 3200	4 220 30	CTX³800 630A	RTX³800	260 – 400	4 167 93	50	440
220	355	DPX³ 630	400	1600 - 3200	4 220 30	CTX³800 630A	RTX³800	260 – 400	4 167 93	50	440
250	405	DPX³ 630	500	1600 - 3200	4 220 31	CTX³800 800A	RTX³800	400 – 600	4 167 94	50	440

6. CONFORMITIES AND APPROVALS

Compliance to standards:

. Standards references: IEC/EN 60 947-1, IEC/EN 60 947-4-1.

. Certifications: CE, UL.

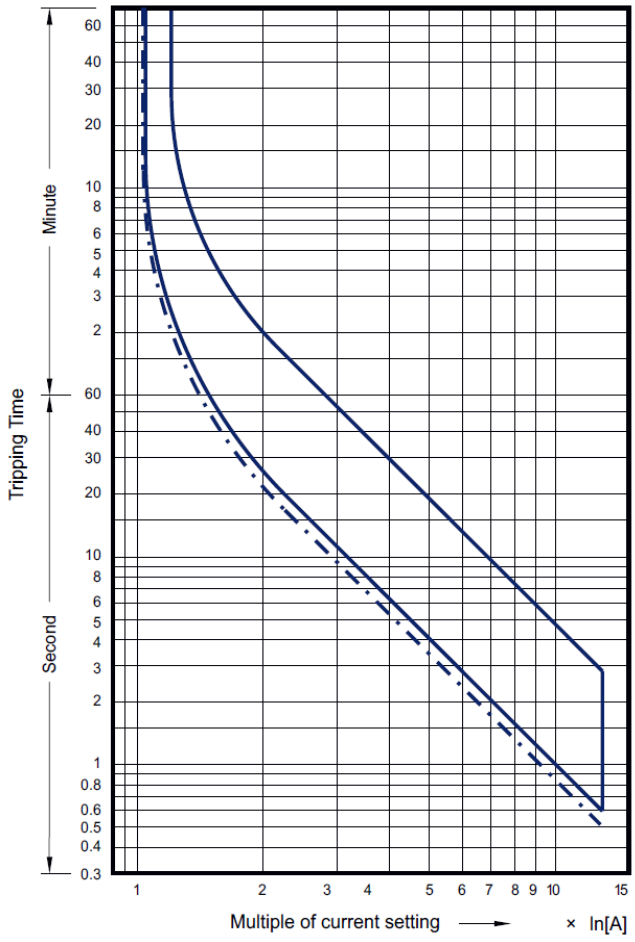
7. CURVES

Time / Current tripping curve:

RTX³ 40:

. Class 10A.

- Cold starting:



. Open phase: – · – · – · – · –

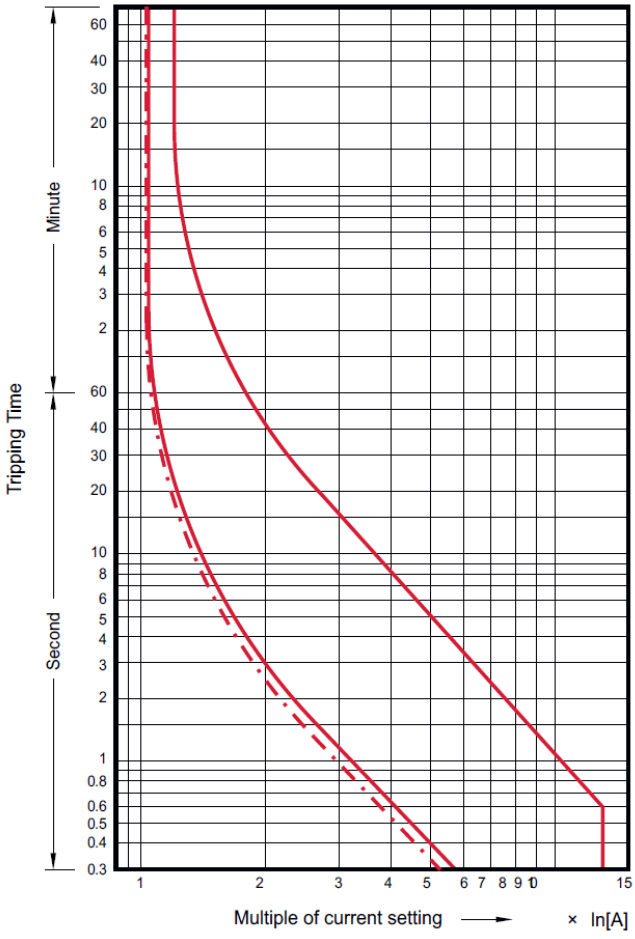
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 40: *(continued)*

. Class 10A.

- Hot starting:



. Open phase: – · – · – · – · –

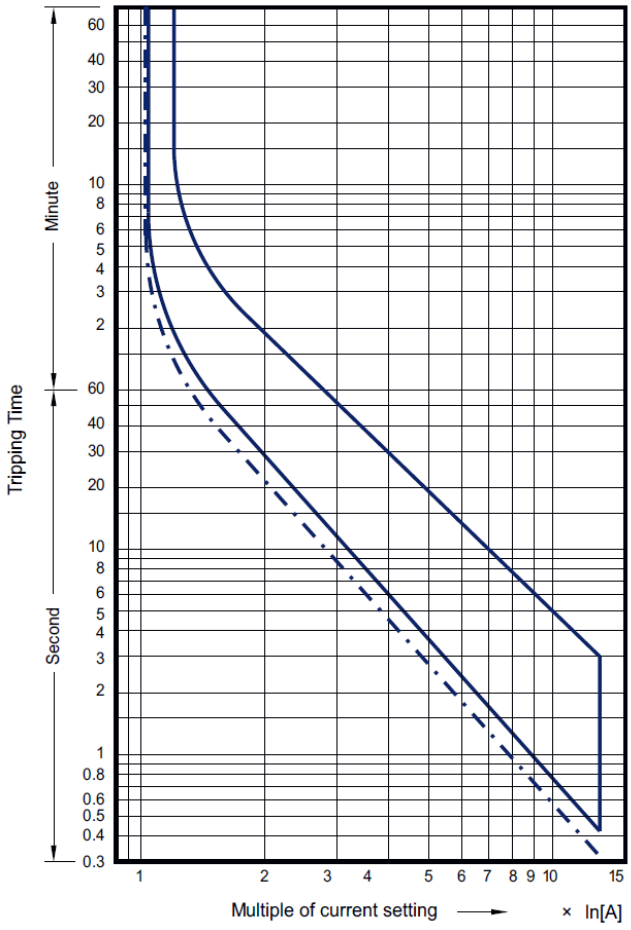
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 65:

. Class 10A.

- Cold starting:



. Open phase: – · – · – · – · –

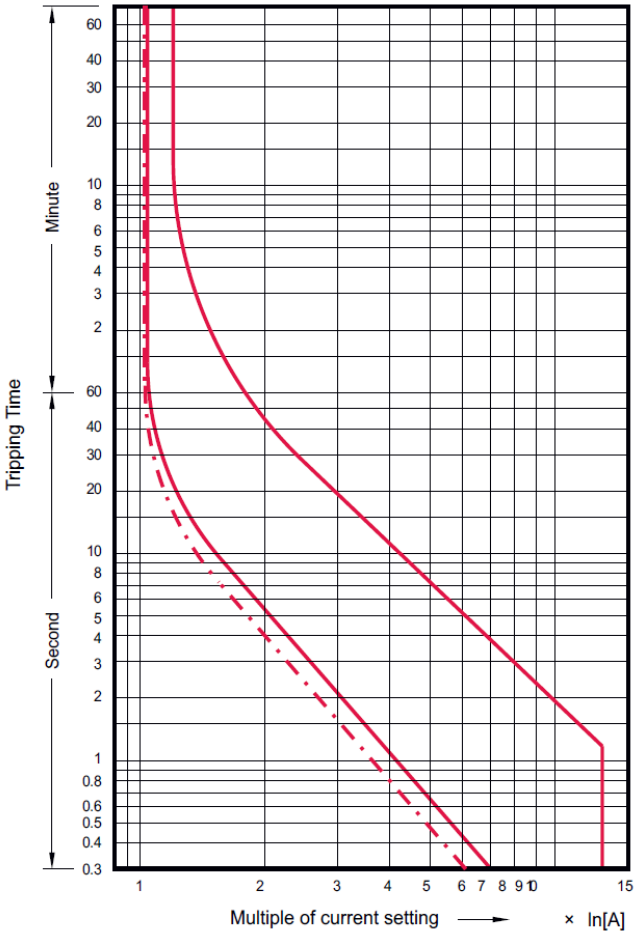
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 65: *(continued)*

. Class 10A.

- Hot starting:



. Open phase: – · – · – · – · –

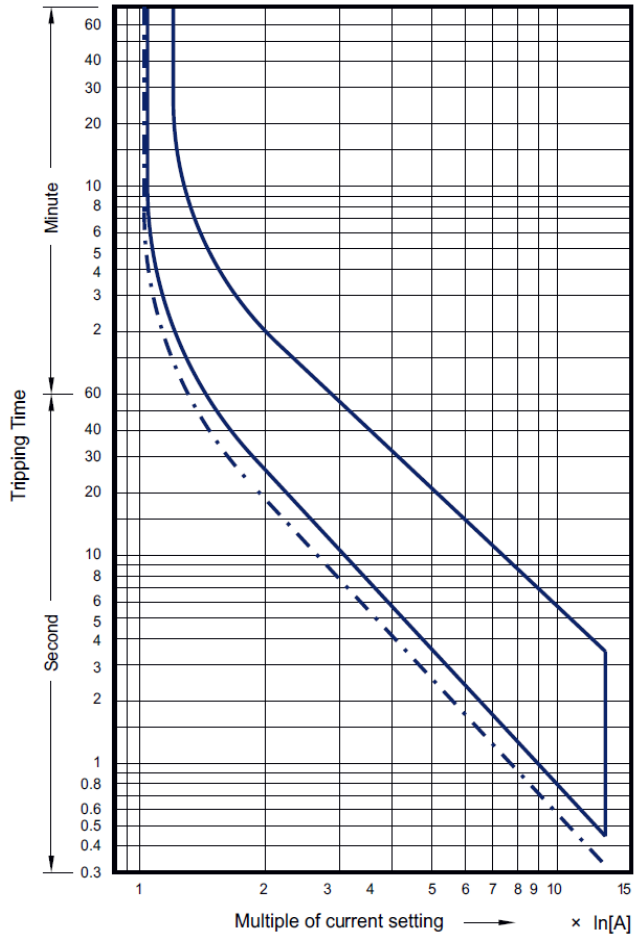
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 100:

. Class 10A.

- Cold starting:



. Open phase: – · – · – · – · –

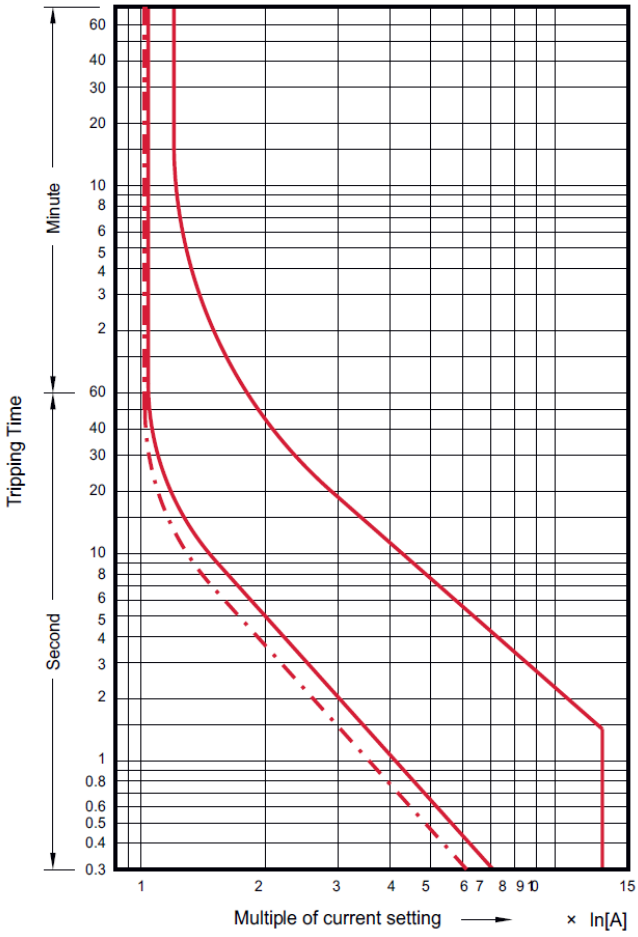
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 100: *(continued)*

. Class 10A.

- Hot starting:



. Open phase: – · – · – · – · –

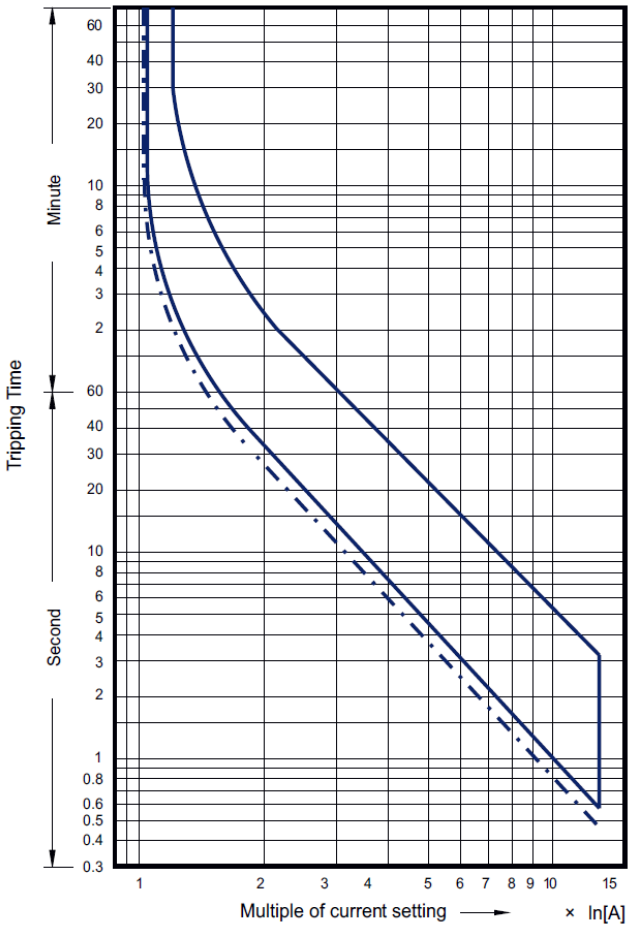
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 150:

. Class 10A.

- Cold starting:



. Open phase: – · – · – · – · –

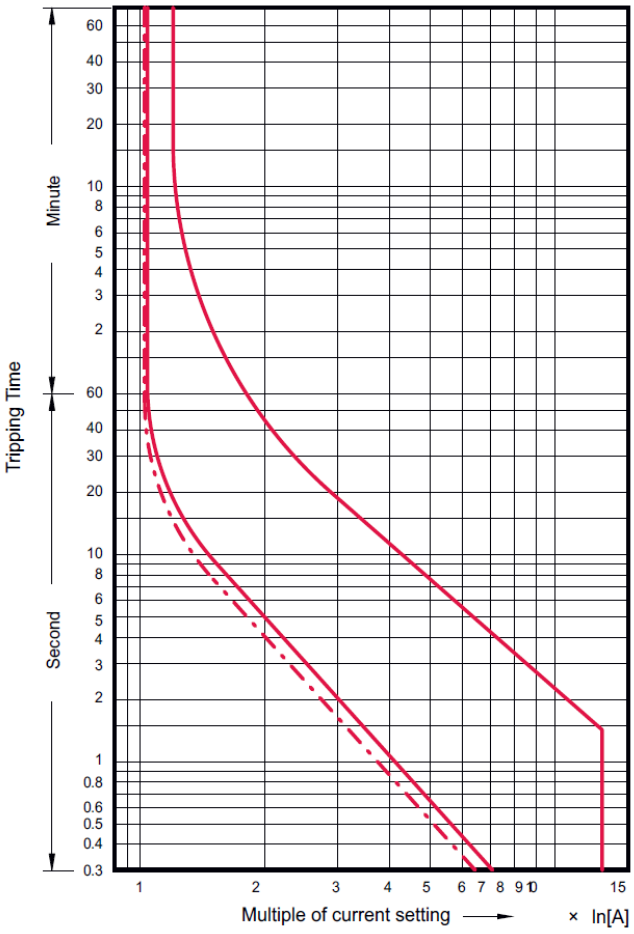
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 150: *(continued)*

. Class 10A.

- Hot starting:



. Open phase: – · – · – · – · –

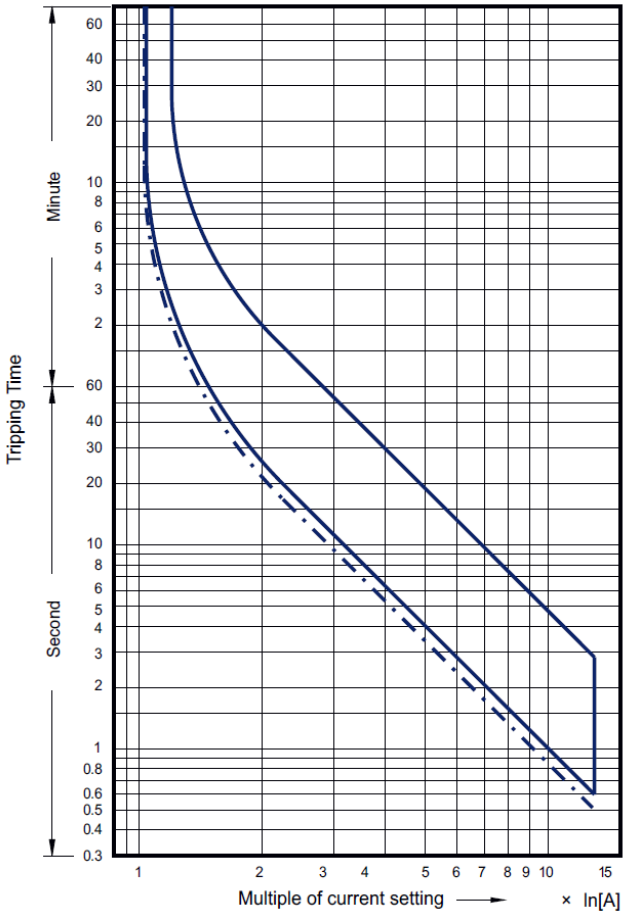
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 225:

. Class 10A.

- Cold starting:



. Open phase: – . – . – . – . –

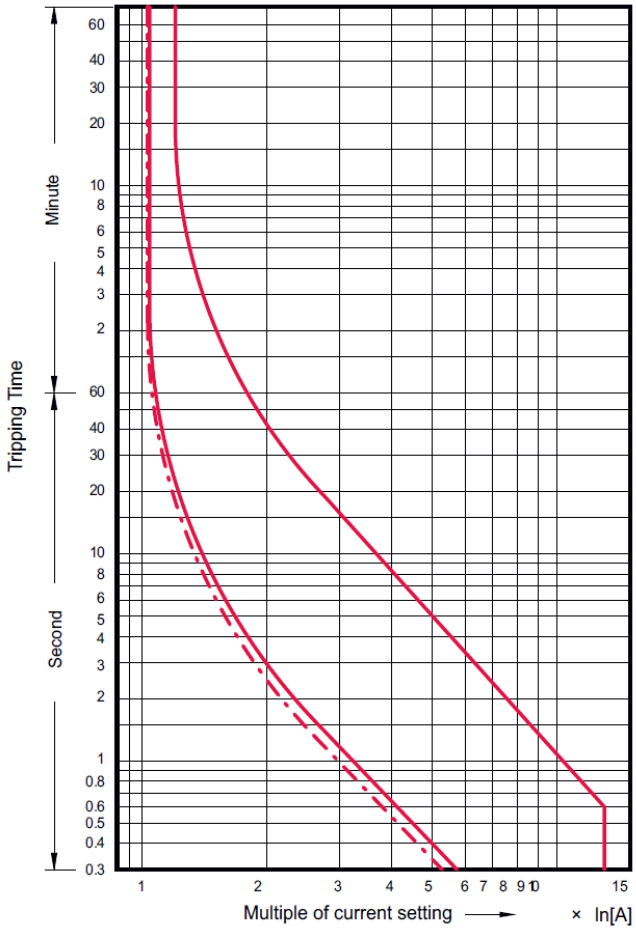
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 225: *(continued)*

. Class 10A.

- Hot starting:



. Open phase: – . – . – . – . –

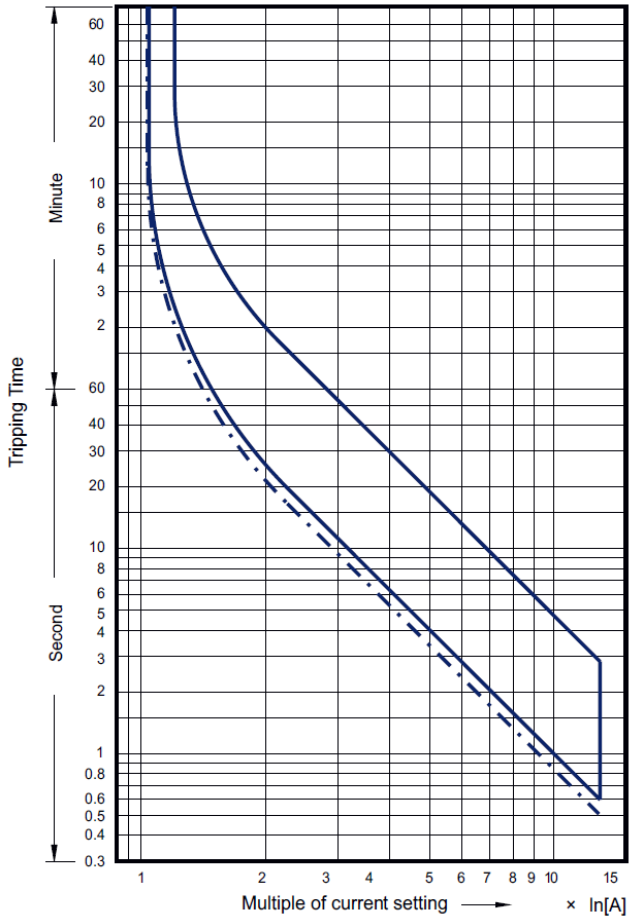
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 400:

. Class 10A.

- Cold starting:



. Open phase: – . – . – . – . –

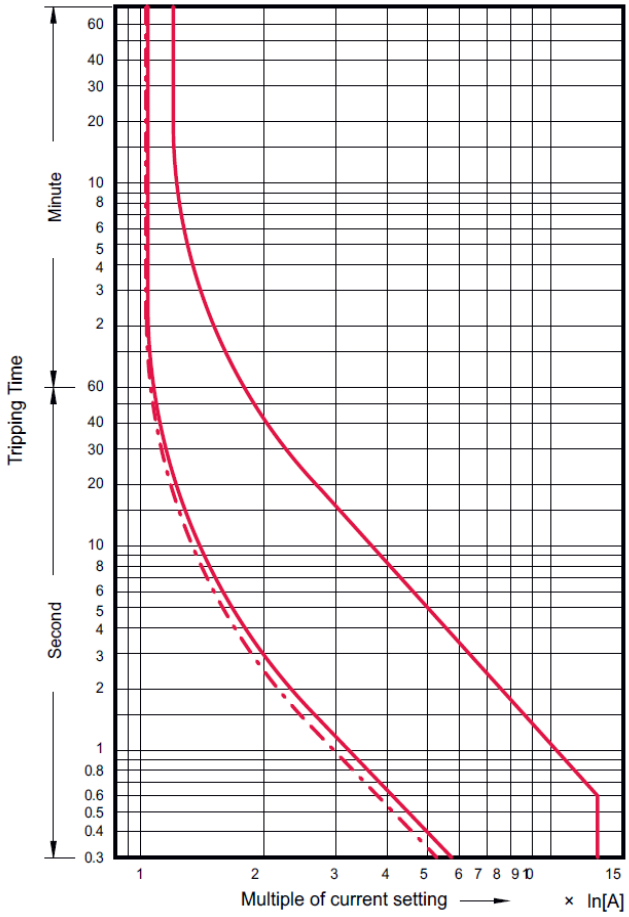
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 400: *(continued)*

. Class 10A.

- Hot starting:



. Open phase: – . – . – . – . –

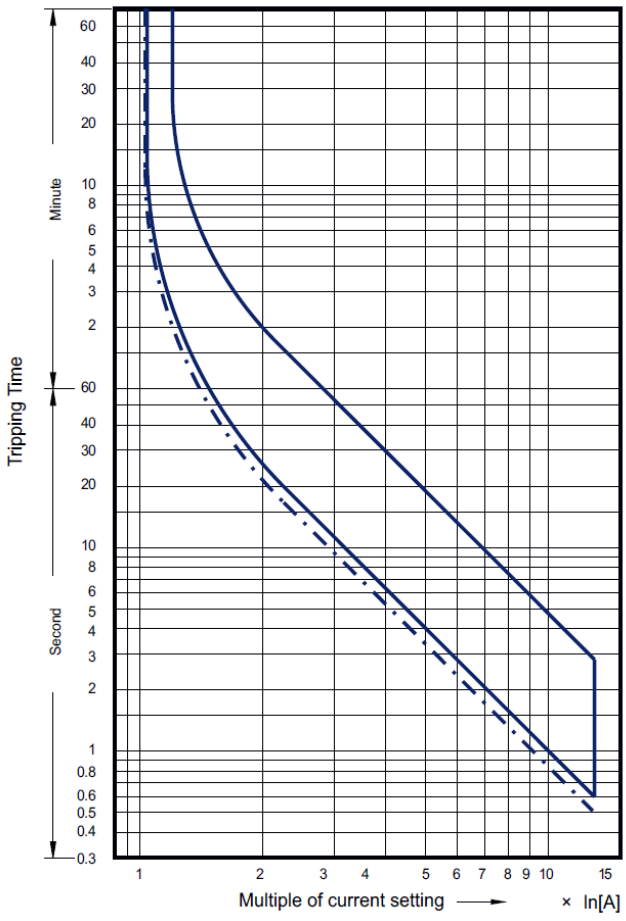
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 800:

. Class 10A.

- Cold starting:



. Open phase: ▬ · ▬ · ▬ · ▬ · ·

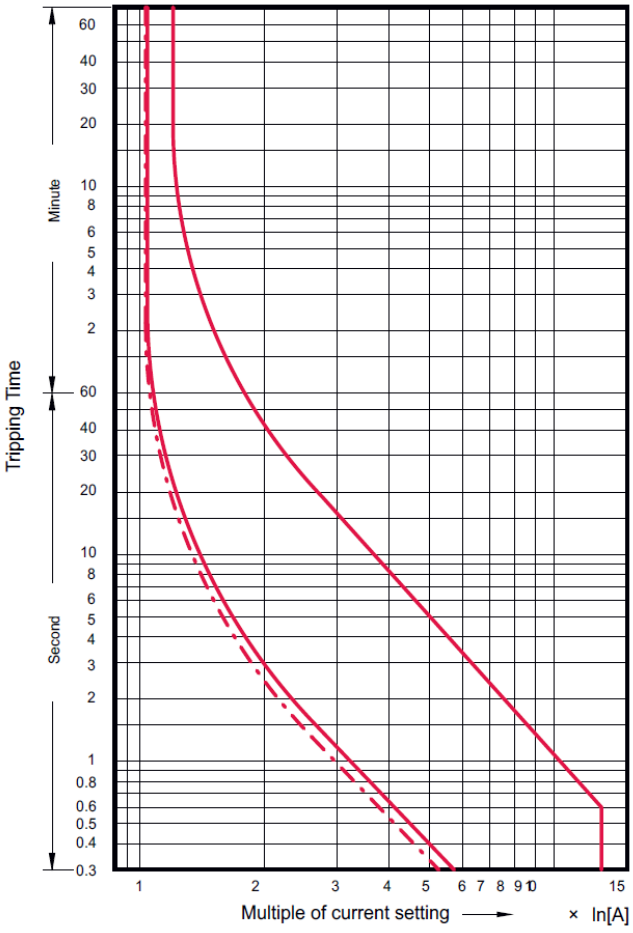
7. CURVES *(continued)*

Time / Current tripping curve:

RTX³ 800: *(continued)*

. Class 10A.

- Hot starting:



. Open phase: ▬ · ▬ · ▬ · ▬ · ·

8. AUXILIARIES AND ACCESSORIES

Accessories: *(continued)*

RTX³ remote reset cable:

. RTX³ remote reset cable L400 [mm] (cat. 4 168 92).
. RTX³ remote reset cable L500 [mm] (cat. 4 168 93).
. RTX³ remote reset cable L600 [mm] (cat. 4 168 94).

Separate mounting unit:

. Separate mounting unit for RTX³ 40.(cat. 4 165 91).
. Separate mounting unit for RTX³ 40.(cat. 4 165 92).
. Separate mounting unit for RTX³ 65 - screw (cat. 4 165 93).
. Separate mounting unit for RTX³ 65 - cage (cat. 4 165 94).
. Separate mounting unit for RTX³ 100 - screw (cat. 4 165 95).
. Separate mounting unit for RTX³ 100 - cage (cat. 4 165 96).
. Separate mounting unit for RTX³ 150 - screw (cat. 4 165 97).
. Separate mounting unit for RTX³ 150 - cage (cat. 4 165 98).

Installation software:

. XL PRO³.