

MCCBs for motor protection

Susol

Electrical characteristics



Frame size	[AF]	
Rated current, I _n	[A]	
No. of poles		
Rated operational voltage, U _e	AC [V]	
	DC [V]	
Rated impulse withstand voltage, U _{imp}	[kV]	
Rated insulation voltage, U _i	[V]	
Rated ultimate short-circuit breaking capacity, I _{cu}		
AC 50/60Hz	220/240V [kA]	
	380/415V [kA]	
	440/460V [kA]	
	480/500V [kA]	
	660/690V [kA]	
Rated service breaking capacity, I _{cs} [%I _{cu}]		
Rated short-circuit making capacity, I _{cm}		
AC 50/60Hz	220/240V [kA]	
	380/415V [kA]	
	440/460V [kA]	
	480/500V [kA]	
	660/690V [kA]	
Category of utilization		
Isolation behavior		
Trip unit (release)		
● magnetic only	MTU	
Connection	fixed	front-connection
		rear-connection
	plug-in	front-connection
		rear-connection
Mechanical life	[operations]	
Electrical life @415 V AC	[operations]	
Basic dimensions, W×H×D (front connection)	3-pole [mm]	
Weight (front connection)	3-pole [kg]	
Reference standard		

TS100			TS160			TS250		
100			160			250		
1.6, 3.2, 6.3, 12, 20, 32, 50, 63, 100			32, 50, 63, 100, 160			100, 160, 220		
3			3			3		
690			690			690		
500			500			500		
8			8			8		
750			750			750		
N	H	L	N	H	L	N	H	L
100	120	200	100	120	200	100	120	200
50	85	150	50	85	150	50	85	150
50	70	130	50	70	130	50	70	130
42	65	85	42	65	85	42	65	85
10	15	20	10	15	20	10	15	20
100%	100%	100%	100%	100%	100%	100%	100%	100%
220	264	440	220	264	440	220	264	440
105	187	330	105	187	330	105	187	330
105	154	286	105	154	286	105	154	286
88	143	187	88	143	187	88	143	187
17	30	40	17	30	40	17	30	40
A			A			A		
●			●			●		
●			●			●		
●			●			●		
●			●			●		
●			●			●		
25000			25000			25000		
10000			10000			10000		
105×160×86			105×160×86			105×160×86		
2			2			2		
IEC60947-2			IEC60947-2			IEC60947-2		

* Breaking capacity at 660/690V is for your reference. (not certified)



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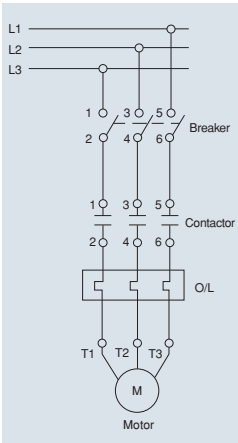


TS400			TS630			TS800		
400			630			800		
320			500			630		
3			3			3		
690			690			690		
500			500			500		
8			8			8		
750			750			750		
N	H	L	N	H	L	N	H	L
100	120	200	100	120	200	100	120	200
65	85	150	65	85	150	65	100	150
65	85	130	65	85	130	65	100	130
42	65	85	42	65	85	42	85	100
10	20	35	10	20	35	10	20	35
100%	100%	100%	100%	100%	100%	100%	100%	100%
220	264	440	220	264	440	220	264	440
143	187	330	143	187	330	143	220	330
143	187	286	143	187	286	143	220	286
88	143	187	88	143	187	88	187	220
17	40	74	17	40	74	17	40	74
A			A			A		
●			●			●		
●			●			●		
●			●			●		
●			●			●		
●			●			●		
●			●			●		
20000			20000			10000		
6000			6000			3000		
140×260×110			140×260×110			210×320×135		
5.4			5.4			15.1		
IEC60947-2			IEC60947-2			IEC60947-2		

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Magnetic only trip unit MTU for TS100, TS160, TS250, TS400, TS630, TS800



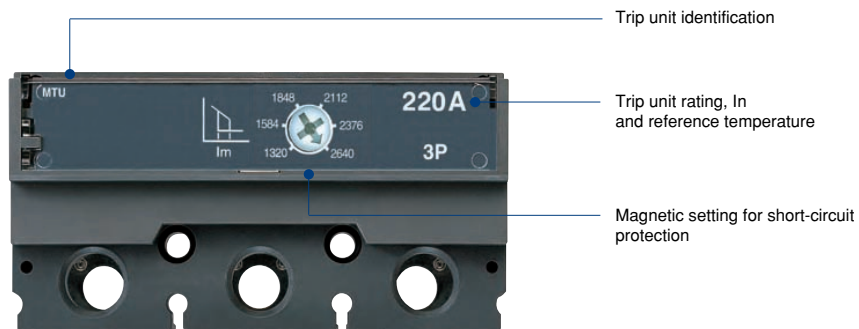
Magnetic only release

For the protection of motors from 1.6 to 250kW(400V), TS100 to TS800 circuit Breakers must be equipped with a special trip unit MTU adjustable thresholds.

This assembly ensures: Short-circuit protection (magnetic trip unit with adjustable thresholds); Suitability for isolation. For the TS100 to TS800 circuit breakers, trip unit MTU is interchangeable.

The circuit breakers presented here: Provide protection against short-circuits; Are suitable for isolation as defined by IEC60947-2 standard.

Configuration



Catalogue numbering system

TS250 MTU

Magnetic only release

MCCB frame type

- TS100: TS100N, TS100H, TS100L
- TS160: TS160N, TS160H, TS160L
- TS250: TS250N, TS250H, TS250L
- TS400: TS400N, TS400H, TS400L
- TS630: TS630N, TS630H, TS630L
- TS800: TS800N, TS800H, TS800L

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Magnetic only trip unit MTU for TS100, TS160, TS250, TS400, TS630, TS800

Characteristics

Magnetic trip units(MTU)

Rating(A)	In
N / H / L	TS100
	TS160
	TS250
	TS400
	TS630
	TS800

TS100 to TS800													
1.6	3.2	6.3	12	20	32	50	63	100	160	220	320	500	630
●	●	●	●	●	●	●	●	●	-	-	-	-	-
-	-	-	-	-	●	●	●	●	●	-	-	-	-
-	-	-	-	-	-	-	-	●	●	●	-	-	-
-	-	-	-	-	-	-	-	-	-	-	●	-	-
-	-	-	-	-	-	-	-	-	-	-	-	●	-
-	-	-	-	-	-	-	-	-	-	-	-	-	●

Short - circuit protection(magnetic)

setting
$6..12 \times I_n$ (6 Point)

Pick - up	Im

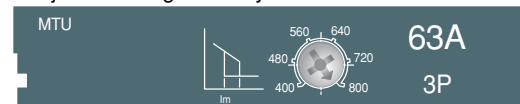
Setting details

MTU In	$6 \times I_n$	..	..	..	..	$12 \times I_n$
1.6	10	12	14	16	18	20
3.2	20	24	28	32	36	40
6.3	40	48	56	64	72	80
12	70	84	98	112	126	140
20	120	144	168	192	216	240
32	190	228	266	304	342	380
50	300	360	420	480	540	600
63	400	480	560	640	720	800

MTU In	$6 \times I_n$	..	..	..	..	$12 \times I_n$
100	600	720	840	960	1080	1200
160	960	1152	1344	1536	1728	1920
220	1320	1584	1848	2112	2376	2640
320	1920	2304	2688	3072	3456	3840
500	3000	3600	4200	4800	5400	6000
630	3780	4536	5292	6048	6804	7560

TS100 MTU

- Adjustable magnetic only unit



TS160 MTU

- Adjustable magnetic only unit



TS250 MTU

- Adjustable magnetic only unit



TS400 MTU, TS630 MTU, TS800 MTU

- Adjustable magnetic only unit

