Fuses 5x20 - Time-lag - 5ST

IEC MINIATURE FUSES

5X20



FEATURES & BENEFITS

- 5x20
- Timed fusion
- Safe protection system

APPLICATIONS

- For the protection of motors

STANDARDS

- IEC 60127-2 sheet 3

Mersen's 5ST miniature fuses cover a range including multiple amperages for 250VAC, for the protection of electrical distribution circuits and other industrial applications.

5ST miniature fuses are time-delay fuses that protect your electrical equipment while withstanding the high, sudden, short current that allows a motor to start.

All our technology and processes are defined to ensure the best technical performance.

TECHNICAL DATA OVERVIEW

Voltage AC	250 VAC
Ratings (A)	0,063 A to 20 A
Speed/Characteristic	Time-lag
I.R. AC (IEC/UL)	35 A
Body Material	Glass
Construction	Without extinguishing agent
Contact caps	Brass, nickel plated

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PRODUCT RANGE

5X20 Action Semi-Timed 5ST - Set of 100

Catalog number	Item number	Size	Rated voltage	Rated current I_n	Pre-arcing I^2t	Breaking capacity @ Nominal current	Watt Loss @ 100% In	Max. voltage drop
MI5ST25V0.063/100	D090531Q	5x20	250 V	0,063 A	0.022 A²s	35 A	0.27 W	1.54 V
MI5ST25V0.08/100	E090532Q	5x20	250 V	0,08 A	0.023 A²s	35 A	0.4 W	1.61 V
MI5ST25V0.1/100	F090533Q	5x20	250 V	0,1 A	0.048 A²s	35 A	0.32 W	1.19 V
MI5ST25V0.125/100	G090534Q	5x20	250 V	0,125 A	0.063 A²s	35 A	0.34 W	0.91 V
MI5ST25V0.16/100	H090535Q	5x20	250 V	0,16 A	0.096 A²s	35 A	0.36 W	0.76 V
MI5ST25V0.2/100	J090536Q	5x20	250 V	0,2 A	0.099 A²s	35 A	0.33 W	0.5 V
MI5ST25V0.25/100	K090537Q	5x20	250 V	0,25 A	0.51 A²s	35 A	0.22 W	0.33 V
MI5ST25V0.315/100	L090538Q	5x20	250 V	0,315 A	0.35 A²s	35 A	0.09 W	0.12 V
MI5ST25V0.4/100	M090539Q	5x20	250 V	0,4 A	0.75 A²s	35 A	0.11 W	0.1 V
MI5ST25V0.5/100	N090540Q	5x20	250 V	0,5 A	0.95 A²s	35 A	0.13 W	0.12 V
MI5ST25V0.63/100	P090541Q	5x20	250 V	0,63 A	1.52 A²s	35 A	0.19 W	0.1 V
MI5ST25V0.8/100	Q090542Q	5x20	250 V	0,8 A	3.43 A²s	35 A	0.19 W	0.09 V
MI5ST25V1/100	R090543Q	5x20	250 V	1 A	6.35 A²s	35 A	0.21 W	0.08 V
MI5ST25V1.25/100	S090544Q	5x20	250 V	1,25 A	12.2 A²s	35 A	0.23 W	0.07 V
MI5ST25V1.6/100	T090545Q	5x20	250 V	1,6 A	23.1 A²s	35 A	0.27 W	0.06 V
MI5ST25V2/100	V090546Q	5x20	250 V	2 A	31.9 A²s	35 A	0.4 W	0.07 V
MI5ST25V2.5/100	W090547Q	5x20	250 V	2,5 A	61.2 A²s	35 A	0.45 W	0.07 V
MI5ST25V3.15/100	X090548Q	5x20	250 V	3,15 A	91.5 A²s	35 A	0.58 W	0.08 V
MI5ST25V4/100	Y090549Q	5x20	250 V	4 A	173.5 A²s	35 A	0.64 W	0.06 V
MI5ST25V5/100	Z090550Q	5x20	250 V	5 A	124.2 A²s	35 A	0.75 W	0.06 V
MI5ST25V6.3/100	A090551Q	5x20	250 V	6,3 A	143 A²s	35 A	1.21 W	0.07 V
MI5ST25V8/100	P206070Q	5x20	250 V	8 A [1]	248.2 A²s	35 A	1.76 W	0.08 V
MI5ST25V10/100	Q206071Q	5x20	250 V	10 A [1]	395 A²s	35 A	2.21 W	0.08 V
MI5ST25V12.5/100	Z233449Q	5x20	250 V	12,5 A [2]	422 A²s	300 A	-	0.13 V
MI5ST25V16/100	A233450Q	5x20	250 V	16 A [2]	1582 A²s	300 A	-	0.1 V
MI5ST25V20/100	B233451Q	5x20	250 V	20 A [2]	3580 A²s	300 A	-	0.1 V

[1] No VDE Approval
[2] No standard rating

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Fuses 5x20 - Time-lag - 5ST

PRODUCT RANGE

5X20 Action Semi-Timed 5ST - Set of 1000

Catalog number	Item number	Size	Rated voltage	Rated current I_n	Pre-arcing I^2t	Breaking capacity @ Nominal current	Watt Loss @ 100% In	Max. voltage drop
MI5ST25V0.1/1000	F090533T	5x20	250 V	0,1 A	0.048 A²s	35 A	0.32 W	1.19 V
MI5ST25V0.125/1000	G090534T	5x20	250 V	0,125 A	0.063 A²s	35 A	0.34 W	0.91 V
MI5ST25V0.16/1000	H090535T	5x20	250 V	0,16 A	0.096 A²s	35 A	0.36 W	0.76 V
MI5ST25V0.2/1000	J090536T	5x20	250 V	0,2 A	0.099 A²s	35 A	0.33 W	0.5 V
MI5ST25V0.25/1000	K090537T	5x20	250 V	0,25 A	0.51 A²s	35 A	0.22 W	0.33 V
MI5ST25V0.315/1000	L090538T	5x20	250 V	0,315 A	0.35 A²s	35 A	0.09 W	0.12 V
MI5ST25V0.4/1000	M090539T	5x20	250 V	0,4 A	0.75 A²s	35 A	0.11 W	0.1 V
MI5ST25V0.5/1000	N090540T	5x20	250 V	0,5 A	0.95 A²s	35 A	0.13 W	0.12 V
MI5ST25V0.63/1000	P090541T	5x20	250 V	0,63 A	1.52 A²s	35 A	0.19 W	0.1 V
MI5ST25V0.8/1000	Q090542T	5x20	250 V	0,8 A	3.43 A²s	35 A	0.19 W	0.09 V
MI5ST25V1/1000	R090543T	5x20	250 V	1 A	6.35 A²s	35 A	0.21 W	0.08 V
MI5ST25V1.25/1000	S090544T	5x20	250 V	1,25 A	12.2 A²s	35 A	0.23 W	0.07 V
MI5ST25V1.6/1000	T090545T	5x20	250 V	1,6 A	23.1 A²s	35 A	0.27 W	0.06 V
MI5ST25V2/1000	V090546T	5x20	250 V	2 A	31.9 A²s	35 A	0.4 W	0.07 V
MI5ST25V2.5/1000	W090547T	5x20	250 V	2,5 A	61.2 A²s	35 A	0.45 W	0.07 V
MI5ST25V3.15/1000	X090548T	5x20	250 V	3,15 A	91.5 A²s	35 A	0.58 W	0.08 V
MI5ST25V4/1000	Y090549T	5x20	250 V	4 A	173.5 A²s	35 A	0.64 W	0.06 V
MI5ST25V5/1000	Z090550T	5x20	250 V	5 A	124.2 A²s	35 A	0.75 W	0.06 V
MI5ST25V6.3/1000	A090551T	5x20	250 V	6,3 A	143 A²s	35 A	1.21 W	0.07 V
MI5ST25V10/1000	Q206071T	5x20	250 V	10 A [1]	395 A²s	35 A	2.21 W	0.08 V

[1] No VDE Approval

5X20 Action Semi-Timed 5ST - Assortment Box

Catalog number	Item number	Size	Rated voltage	Rated current I_n
MIBOX5ST	H203764	5x20	250 V	0,1 A to 6,3 A

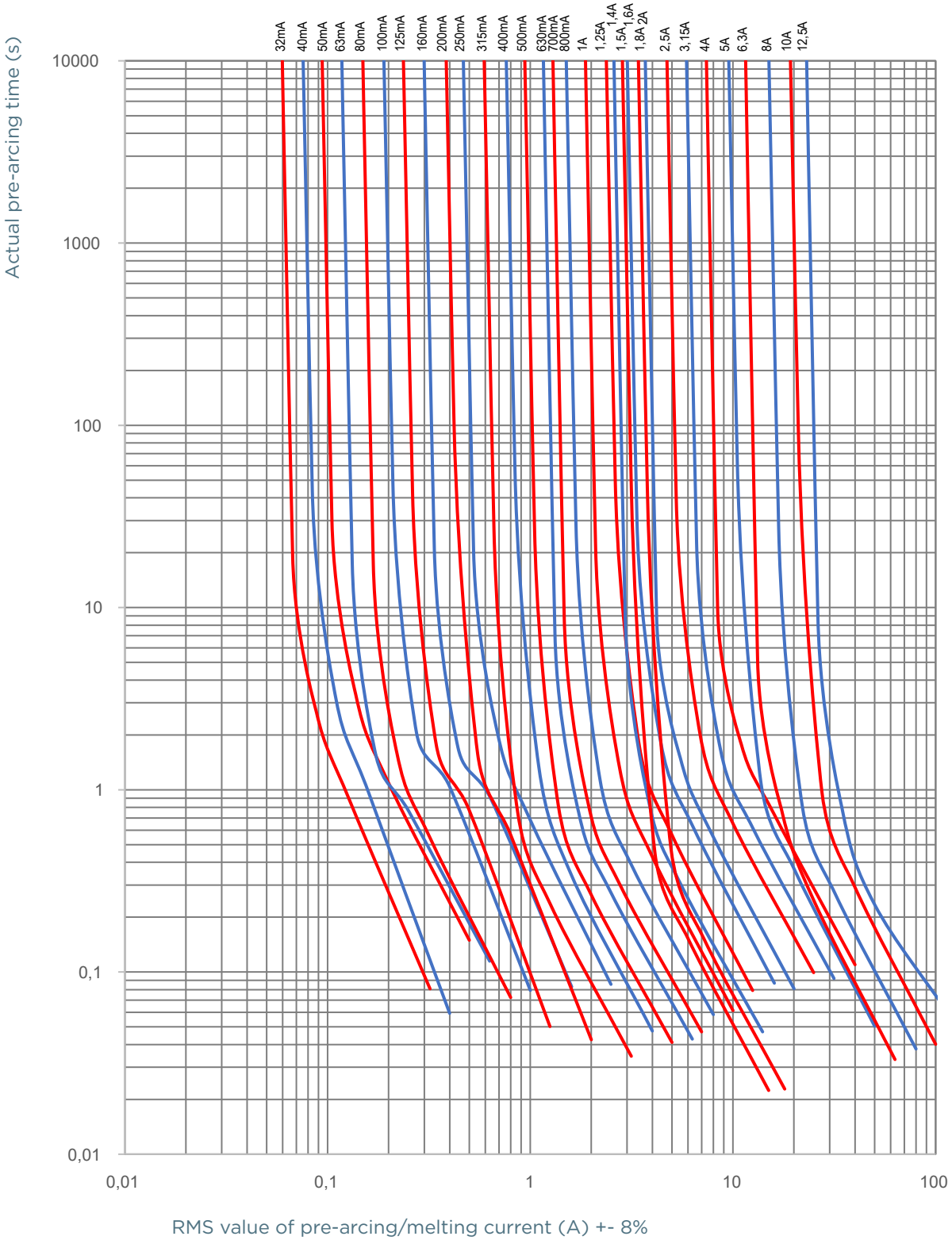
Composition of the box

Catalog number	Item number	Size	Rated voltage	Rated current I_n	Pre-arcing I^2t	Breaking capacity @ Nominal current	Watt Loss @ 100% In	Max. voltage drop
MI5ST25V0.1	F090533	5x20	250 V	0,1 A	0.048 A²s	35 A	0.32 W	1.19 V
MI5ST25V0.125	G090534	5x20	250 V	0,125 A	0.063 A²s	35 A	0.34 W	0.91 V
MI5ST25V0.16	H090535	5x20	250 V	0,16 A	0.096 A²s	35 A	0.36 W	0.76 V
MI5ST25V0.2	J090536	5x20	250 V	0,2 A	0.099 A²s	35 A	0.33 W	0.5 V
MI5ST25V0.25	K090537	5x20	250 V	0,25 A	0.51 A²s	35 A	0.22 W	0.33 V
MI5ST25V0.315	L090538	5x20	250 V	0,315 A	0.35 A²s	35 A	0.09 W	0.12 V
MI5ST25V0.4	M090539	5x20	250 V	0,4 A	0.75 A²s	35 A	0.11 W	0.1 V
MI5ST25V0.5	N090540	5x20	250 V	0,5 A	0.95 A²s	35 A	0.13 W	0.12 V
MI5ST25V0.63	P090541	5x20	250 V	0,63 A	1.52 A²s	35 A	0.19 W	0.1 V
MI5ST25V0.8	Q090542	5x20	250 V	0,8 A	3.43 A²s	35 A	0.19 W	0.09 V
MI5ST25V1	R090543	5x20	250 V	1 A	6.35 A²s	35 A	0.21 W	0.08 V
MI5ST25V1.25	S090544	5x20	250 V	1,25 A	12.2 A²s	35 A	0.23 W	0.07 V
MI5ST25V1.6	T090545	5x20	250 V	1,6 A	23.1 A²s	35 A	0.27 W	0.06 V
MI5ST25V2	V090546	5x20	250 V	2 A	31.9 A²s	35 A	0.4 W	0.07 V
MI5ST25V2.5	W090547	5x20	250 V	2,5 A	61.2 A²s	35 A	0.45 W	0.07 V
MI5ST25V3.15	X090548	5x20	250 V	3,15 A	91.5 A²s	35 A	0.58 W	0.08 V
MI5ST25V4	Y090549	5x20	250 V	4 A	173.5 A²s	35 A	0.64 W	0.06 V
MI5ST25V6.3	A090551	5x20	250 V	6,3 A	143 A²s	35 A	1.21 W	0.07 V

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TIME CURRENT CHARACTERISTIC CURVES



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TECHNICAL CHARACTERISTICS

In - t characteristics

Rated current factor		Melting time		
		32 mA - 100mA	125mA - 12,5A	12,5A - 20A
1,5 - In	tmin	60 min	60 min	60 min
	tmax	-	-	-
2,1 - In	tmin	0	0	0
	tmax	2 min	2 min	30 min
2,75 - In	tmin	200 ms	600 ms	-
	tmax	10 s	10 s	-
4 - In	tmin	40 ms	150 ms	200 ms
	tmax	3 s	3 s	2 s
10 - In	tmin	10 ms	20 ms	20 ms
	tmax	300 ms	300 ms	200 ms

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