Product environmental profile

Fuses 5x20 - 6X32 – Quick acting SF - HF

DESCRIPTION

Mersen's 5SF, 3SF and 5HF miniature fuses cover a range including multiple amperages for 250VAC, for the protection of electrical distribution circuits and other industrial applications. These fuses are available in size 5x20.
5SF miniature fuses are fast-acting fuses that protect your electrical equipment from the slightest high current. All our technology and processes are designed to ensure the best technical performance.

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PRODUCT REFERENCE

Designation: MI5SF25
Reference: P090518Q
Mass (with packaging): 1.083g

The study aims to cover all the commercial references for the same product. For a same product, different commercial references have different packaging but the study and results are linked to the reference product and his packaging.

Fuses 5x20 - 6X32 – Quick acting SF - HF

FUNCTIONNAL UNIT

Protect equipment from the effects of overload or short circuit, interrupting the fault current and conducting the rated current for 20 years in accordance with IEC 60127-2.
The range covered by this PEP for MI5SF25, MI6SF25 and MIHF25 fuses is 250V from 0.08 to 20A. These ranges are made according to their breaking capacity.
These are PSR-0005 “other electrical equipment, passive product” products manufactured in Germany for the SF fuses, and in China for the HF fuses.
The installation of the fuse does not require special components or tools.

PRODUCT RANGE

5X20 Fast Acting 5HF - Set of 100		5X20 Fast Acting 5HF - Set of 1000	
Commercial number	**Reference**	**Commercial number**	**Reference**
MI5HF25V0.1/100	G095548Q	MI5HF25V0.16/1000	J095550T
MI5HF25V0.125/100	H095549Q	MI5HF25V0.25/1000	R095557T
MI5HF25V0.16/100	J095550Q	MI5HF25V0.315/1000	R095557T
MI5HF25V0.2/100	Q095556Q	**5X20 Fast Action 5HF - Assortment**	
MI5HF25V0.25/100	R095557Q	**Commercial number**	**Reference**
MI5HF25V0.315/100	S095558Q	**MIBOX5HF**	**B229863**
MI5HF25V0.4/100	T095559Q	MI5HF25V0.1	G095548
MI5HF25V0.5/100	V095560Q	MI5HF25V0.125	H095549
MI5HF25V0.63/100	W095561Q	MI5HF25V0.16	J095550
MI5HF25V0.8/100	X095562Q	MI5HF25V0.2	Q095556
MI5HF25V1/100	Y095563Q	MI5HF25V0.25	R095557
MI5HF25V1.25/100	C095567Q	MI5HF25V0.315	S095558
MI5HF25V1.6/100	D095568Q	MI5HF25V0.4	T095559
MI5HF25V2/100	E095569Q	MI5HF25V0.5	V095560
MI5HF25V2.5/100	F095570Q	MI5HF25V0.63	W095561
MI5HF25V3.15/100	G095571Q	MI5HF25V0.8	X095562
MI5HF25V4/100	H095572Q	MI5HF25V1	Y095563
MI5HF25V5/100	J095573Q	MI5HF25V1.25	C095567
MI5HF25V6.3/100	K095574Q	MI5HF25V1.6	D095568
MI5HF25V8/100	J085407Q	MI5HF25V2	E095569
MI5HF25V10/100	K085408Q	MI5HF25V2.5	F095570
MI5HF25V12.5	G210341	MI5HF25V3.15	G095571
MI5HF25V16	H210342	MI5HF25V4	H095572
MI5HF25V20	J210343	MI5HF25V6.3	K095574

Fuses 5x20 - 6X32 – Quick acting SF - HF

5X20 Fast Acting 5SF - Set of 100		5X20 Fast Acting 5SF - Set of 1000		5X20 Fast Action 5SF - Assortment Box		6x32 Fast action 3SF - Set of 50	
Commercial number	Reference	Commercial number	Reference	Commercial number	Reference	Commercial number	Reference
MI5SF25V0.08/100	Z090504Q	MI5SF25V0.08/1000	Z090504T	**MIBOX5SF**	**G203763**	MI6SF25V0.315	P090564
MI5SF25V0.1/100	A090505Q	MI5SF25V0.1/1000	A090505T	MI5SF25V0.08	Z090504	MI6SF25V0.5	R090566
MI5SF25V0.125/100	B090506Q	MI5SF25V0.125/1000	B090506T	MI5SF25V0.1	A090505	MI6SF25V0.63	S090567
MI5SF25V0.16/100	C090507Q	MI5SF25V0.16/1000	C090507T	MI5SF25V0.125	B090506	MI6SF25V1	V090569
MI5SF25V0.2/100	D090508Q	MI5SF25V0.2/1000	D090508T	MI5SF25V0.16	C090507	MI6SF25V1.25	W090570
MI5SF25V0.25/100	E090509Q	MI5SF25V0.25/1000	E090509T	MI5SF25V0.2	D090508	MI6SF25V1.6	X090571
MI5SF25V0.315/100	F090510Q	MI5SF25V0.315/1000	F090510T	MI5SF25V0.25	E090509	MI6SF25V2	Y090572
MI5SF25V0.4/100	G090511Q	MI5SF25V0.4/1000	G090511T	MI5SF25V0.315	F090510	MI6SF15V2,5	Z090573
MI5SF25V0.5/100	H090512Q	MI5SF25V0.5/1000	H090512T	MI5SF25V0.4	G090511	MI6SF15V3,15	A090574
MI5SF25V0.63/100	J090513Q	MI5SF25V0.63/1000	J090513T	MI5SF25V0.5	H090512	MI6SF15V4	B090575
MI5SF25V0.8/100	K090514Q	MI5SF25V0.8/1000	K090514T	MI5SF25V0.63	J090513	MI6SF6V5	C090576
MI5SF25V1/100	L090515Q	MI5SF25V1/1000	L090515T	MI5SF25V0.8	K090514	MI6SF6V6,3	D090577
MI5SF25V1.25/100	M090516Q	MI5SF25V1.25/1000	M090516T	MI5SF25V1	L090515	MI6SF6V8	E090578
MI5SF25V1.6/100	N090517Q	MI5SF25V1.6/1000	N090517T	MI5SF25V1.25	M090516	MI6SF6V10	F090579
MI5SF25V2/100	P090518Q	MI5SF25V2/1000	P090518T	MI5SF25V1.6	N090517		
MI5SF25V2.5/100	Q090519Q	MI5SF25V2.5/1000	Q090519T	MI5SF25V2	P090518		
MI5SF25V3.15/100	R090520Q	MI5SF25V3.15/1000	R090520T	MI5SF25V2.5	W233446		
MI5SF25V4/100	S090521Q	MI5SF25V4/1000	S090521T	MI5SF25V3.15	R090520		
MI5SF25V5/100	T090522Q	MI5SF25V5/1000	T090522T	MI5SF25V4	S090521		
MI5SF25V6.3/100	V090523Q	MI5SF25V6.3/1000	V090523T	MI5SF25V6.3	V090523		
MI5SF25V8/100	W090524Q	MI5SF25V8/1000	W090524T				
MI5SF25V10/100	X090525Q	MI5SF25V10/1000	X090525T				
MI5SF25V12.5/100	W233446Q						
MI5SF25V16/100	X233447Q						
MI5SF25V20/100	Y233448Q						

For same references packed in different packaging, there is a letter at the end of the reference:

- “Q” refers to a 100-unit packaging
- “T” refers to a 1000-unit packaging
- When there is no letter at the end, it refers to an assortment box packaging.

BILL OF MATERIALS

Metals			Others		
Designation	**Mass (g)**	**%**	**Designation**	**Mass (g)**	**%**
CuZN36	2,80E-01	28,35%	Cardboard	1,37E-01	13,82%
Ni	5,00E-03	< 0,1%	Glass	3,83E-01	38,78%
Tin	1,71E-01	17,32%			< 0,1%
CuNi44	1,20E-02	1,22%			< 0,1%
TOTAL	**0,468**	**47,39%**	**TOTAL**	**0,520**	**52,61%**

GEOGRAPHICAL AND TECHNOLOGICAL REPRESENTATIVENESS

Manufacturing in Germany, Distribution, Installation, Use and End of life in Europe are representative to the data used in the model for the SF fuses. For the HF fuses manufactured in China, the most accurate data were selected when local data were unavailable. Representativeness of these data was assessed.
The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are similar and representative of the actual type of technologies used to make the product in production.

LIFE CYCLE

The Life Cycle Analysis is realized in compliance with ISO 14 040, 14 044 standards and PEF EF 3.1 methodology and made with the EIME© v6.3.0 software with the database version CODDE-2025-04.

MANUFACTURING

The fuses are manufactured in Germany for the SF fuses and China for the HF fuses.
The upstream transport is made by plane and road.
The treatment of the end of life of the losses made during manufacturing is taken in account into this analysis.

DISTRIBUTION

The market for these fuses is in Europe so the scenario of transport used is 3500km by road.

INSTALLATION

The fuses are mounted by hand with no power or additional equipment. The impact of this phase is due to the end-of-life of the packaging which take in account the scenario of transport (100km made by road) and the end-of-life treatment of the packaging (European module used).

USE

In normal use, a fuse consumes energy through heat dissipation. It doesn't emit noise or electromagnetic radiation and doesn't require maintenance.
These fuses are used in Europe, so the European energy mix (Electricity Mix; High voltage; 2020; Europe, EU-27) has been used for the consumption of electricity.

This scenario corresponds to use at 30% of rated current, which is 0.0136 Watt (*0.0136 x 3600 = 48.96 Joules / hour)*, for a total operating time of 30% of its lifetime (20 years), (*(20 x 365) x (0.3 x 24) = 52560 hours)*.

The total consumption of the reference product is 48.96 x 52560 = **2.57 MegaJoules**.

END OF LIFE

This product family is listed in the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). The products must be reprocessed in compliance with the legislation of the country. All energy mixes used are based on European data.

ENVIRONMENTAL IMPACTS

Environmental impact indicators

Lifecycle phase / Environmental indicators	1. Manufacturing	2. Distribution	3. Installation	4. Use	5. End of life	Total	Module D	Unit
Resource use, minerals and metals (PEF-ADPe)	3,65E-06	8,13E-11	1,01E-11	9,36E-08	7,53E-10	3,74E-06	-3,35E-07	kg SB eq.
	97,48%	0*	0*	2,50%	0,02%			
Resource use, fossils (PEF-ADPf)	2,49E-01	4,35E-03	1,87E-03	6,92E+00	7,59E-03	7,18E+00	-1,33E-02	MJ
	3,47%	0,06%	0,03%	96,34%	0,11%			
Acidification (PEF-AP)	1,73E-04	4,47E-07	5,72E-07	1,51E-03	1,01E-05	1,69E-03	-9,64E-05	mol H+ eq.
	10,22%	0,03%	0,03%	89,12%	0,60%			
Ecotoxicity, freshwater (PEF-ETP-fw)	1,04E-01	6,57E-03	2,71E-03	4,33E-01	6,59E-03	5,53E-01	-2,43E-02	CTUe
	18,86%	1,19%	0,49%	78,27%	1,19%			
Human toxicity, cancer (PEF-HTP-c)	1,41E-11	4,42E-14	1,87E-11	3,57E-11	9,11E-13	6,95E-11	-1,45E-11	CTUh
	20,31%	0,06%	26,97%	51,35%	1,31%			
Human toxicity, non-cancer (PEF-HTP-nc)	7,20E-10	8,49E-13	5,98E-13	8,45E-10	7,98E-11	1,65E-09	-1,10E-09	CTUh
	43,74%	0,05%	0,04%	51,33%	4,85%			
Eutrophication, freshwater (PEF-EPfw)	1,13E-08	9,20E-10	2,47E-09	6,91E-07	1,68E-08	7,23E-07	-9,36E-06	kg P eq.
	1,57%	0,13%	0,34%	95,63%	2,33%			
Eutrophication marine (PEF-EPm)	1,78E-05	1,04E-07	2,53E-07	1,77E-04	6,59E-06	2,01E-04	-4,70E-06	kg N eq.
	8,84%	0,05%	0,13%	87,71%	3,27%			
Eutrophication, terrestrial (PEF-EPt)	1,95E-04	1,14E-06	1,72E-06	2,83E-03	5,05E-06	3,04E-03	-5,93E-05	mol N eq.
	6,42%	0,04%	0,06%	93,32%	0,17%			
Climate change (PEF-GWP)	1,46E-02	2,29E-04	5,11E-04	2,89E-01	4,73E-04	3,04E-01	-9,43E-04	kg CO2 eq.
	4,79%	0,08%	0,17%	94,82%	0,16%			
Climate change-Biogenic (PEF-GWPb)	-2,45E-04	9,21E-10	2,92E-04	6,37E-03	2,96E-05	6,45E-03	1,86E-04	kg CO2 eq.
	0*	0*	4,52%	98,82%	0,46%			
Climate change-Fossil (PEF-GWPf)	1,48E-02	2,29E-04	2,19E-04	2,82E-01	4,43E-04	2,98E-01	-1,13E-03	kg CO2 eq.
	4,97%	0,08%	0,07%	94,73%	0,15%			
Climate change-Land use and land use change (PEF-GWPlu)	3,53E-10	3,40E-10	2,66E-12	0,00E+00	3,91E-11	7,36E-10	0,00E+00	kg CO2 eq.
	48,05%	46,28%	0,36%	0,00%	5,31%			
Ionising radiation, human health (PEF-IR)	1,53E-03	8,00E-06	2,68E-05	3,78E-01	3,28E-05	3,79E-01	-2,68E-05	kg U235 eq.
	0,40%	0*	0*	99,58%	0*			
Land use (PEF-SQP)	1,27E-04	9,63E-07	6,67E-07	7,65E-03	1,97E-03	9,75E-03	-8,83E-03	no dimension
	1,30%	0*	0*	78,50%	20,18%			
Ozone depletion (PEF-ODP)	6,89E-09	2,79E-12	2,65E-12	1,24E-09	5,94E-11	8,19E-09	-1,05E-10	kg CFC-11 eq.
	84,13%	0,03%	0,03%	15,08%	0,72%			
EF-particulate Matter (PEF-PM)	9,60E-10	3,31E-12	3,38E-12	1,18E-08	3,22E-11	1,28E-08	-2,08E-10	disease occurrence
	7,49%	0,03%	0,03%	92,21%	0,25%			
Photochemical ozone formation - human health (PEF-POCP)	7,26E-05	3,32E-07	4,04E-07	5,60E-04	1,82E-06	6,36E-04	-1,75E-05	kg NMVOC eq.
	11,42%	0,05%	0,06%	88,18%	0,29%			
Water use (PEF-WDP)	7,02E-03	8,38E-06	1,52E-05	2,19E-02	1,79E-01	2,08E-01	-8,50E-01	m3 eq.
	3,37%	0*	0*	10,50%	86,12%			

0 (*) represent less than 0,01% of the total lifecycle reference flow

Fuses 5x20 - 6X32 – Quick acting SF - HF

Resources use indicators

Lifecycle phase / Ressources use	1. Manufacturing	2. Distribution	3. Installation	4. Use	5. End of life	Total	Module D	Unit
Total Primary Energy	2,66E-01	4,36E-03	2,23E-03	8,54E+00	8,46E-03	8,82E+00	-1,97E-02	MJ
	3,02%	0,05%	0,03%	96,81%	0,10%			
Use of renewable primary energy excluding renewable primary energy used as raw material	1,16E-02	1,26E-05	3,56E-04	1,62E+00	8,66E-04	1,63E+00	-3,94E-03	MJ
	0,71%	0*	0,02%	99,21%	0,05%			
Use of renewable primary energy resources used as raw material	5,33E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,33E-03	-2,45E-03	MJ
	100,00%	0,00%	0,00%	0,00%	0,00%			
Total use of renewable primary energy resources	1,69E-02	1,26E-05	3,56E-04	1,62E+00	8,66E-04	1,64E+00	-6,39E-03	MJ
	1,03%	0*	0,02%	98,89%	0,05%			
Use of non renewable primary energy excluding non renewable primary energy used as raw material	5,13E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,13E-04	-9,47E-05	MJ
	100,00%	0,00%	0,00%	0,00%	0,00%			
Use of non renewable primary energy resources used as raw material	2,49E-01	4,35E-03	1,87E-03	6,92E+00	7,59E-03	7,18E+00	-1,32E-02	MJ
	3,47%	0,06%	0,03%	96,34%	0,11%			
Total use of non-renewable primary energy resources	2,49E-01	4,35E-03	1,87E-03	6,92E+00	7,59E-03	7,18E+00	-1,33E-02	MJ
	3,47%	0,06%	0,03%	96,34%	0,11%			
Use of secondary material	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	kg
	0,00%	0,00%	0,00%	0,00%	0,00%			
Use of renewable secondary fuels	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MJ
	0,00%	0,00%	0,00%	0,00%	0,00%			
Use of non renewable secondary fuels	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MJ
	0,00%	0,00%	0,00%	0,00%	0,00%			
Net use of freshwater	1,64E-04	1,95E-07	1,15E-06	5,11E-04	4,88E-03	5,56E-03	-2,00E-02	m3
	2,95%	0*	0,02%	9,20%	87,83%			
Biogenic carbon content in the product	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	kg de C
	0,00%	0,00%	0,00%	0,00%	0,00%			
Biogenic carbon content in the packaging	9,45E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,45E-05	-6,76E-05	kg de C
	100,00%	0,00%	0,00%	0,00%	0,00%			

0 (*) represent less than 0,01% of the total lifecycle reference flow

Waste category indicators

Lifecycle phase / Waste indicators	1. Manufacturing	2. Distribution	3. Installation	4. Use	5. End of life	Total	Module D	Unit
Hazardous waste disposed	3,79E-02	9,43E-07	1,31E-05	7,97E-03	1,95E-07	4,59E-02	-8,97E-08	kg
	82,60%	0*	0,03%	17,37%	0*			
Non hazardous waste disposed	1,78E-03	2,09E-05	7,54E-05	4,35E-02	3,95E-04	4,58E-02	-9,50E-06	kg
	3,89%	0,05%	0,16%	95,04%	0,86%			
Radioactive waste disposed	1,80E-06	1,66E-08	1,19E-08	1,03E-05	3,44E-09	1,21E-05	-1,24E-10	kg
	14,84%	0,14%	0,10%	84,90%	0,03%			

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Output flow indicators

Lifecycle phase / Other indicators	1. Manufacturing	2. Distribution	3. Installation	4. Use	5. End of life	Total	Module D	Unit
Component for reuse	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	kg
	0,00%	0,00%	0,00%	0,00%	0,00%			
Materials for recycling	9,20E-05	0,00E+00	1,38E-04	0,00E+00	0,00E+00	2,30E-04	0,00E+00	kg
	40,06%	0,00%	59,94%	0,00%	0,00%			
Materials for energy recovery	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	kg
	0,00%	0,00%	0,00%	0,00%	0,00%			
Exported energy	0,00E+00	0,00E+00	8,13E-06	0,00E+00	0,00E+00	8,13E-06	0,00E+00	MJ
	0,00%	0,00%	100,00%	0,00%	0,00%			

0 (*) represent less than 0,01% of the total lifecycle reference flow

Extrapolation rules

- **For the manufacturing, distribution, installation, and end of life phases:**

For MI6SF25 & MI5HF25 fuses, following coefficients must be applied:

	Extrapolation coefficients CP520_MI6SF25			
Type of indicator	**Manufacturing**	**Distribution**	**Installation**	**End of life**
Environmental impact indicators	2,23	1,89	1,58	1,93
Ressource use indicators	1,89	1,89	1,64	1,76
Waste category indicators	2,09	1,89	1,61	2,19
Output flow indicators	1,00	1,00	1,89	1,00
Biogenic carbon indicators	1,62	1,00	1,00	1,00

	Extrapolation coefficients CP520_MI5HF25			
Type of indicator	**Manufacturing**	**Distribution**	**Installation**	**End of life**
Environmental impact indicators	0,80	1,07	1,02	1,07
Ressource use indicators	1,07	1,07	1,03	1,00
Waste category indicators	0,97	1,07	1,02	1,18
Output flow indicators	1,00	1,00	1,07	1,00
Biogenic carbon indicators	1,03	1,00	1,00	1,00

- **For the use phase:**

The impact of the use phase is proportional to the power dissipated by the fuse. For each fuse, the following coefficients may be applied to calculate the impacts of the use phase.

5X20 Fast Acting 5SF - Set of 100			
Commercial number	**Reference**	**Power (W)**	**Extrapolation factor**
MI5SF25V0.08/100	**Z090504Q**	0,47	0,77
MI5SF25V0.1/100	A090505Q	0,46	0,75
MI5SF25V0.125/100	B090506Q	0,5	0,82
MI5SF25V0.16/100	C090507Q	0,57	0,93
MI5SF25V0.2/100	D090508Q	0,67	1,10
MI5SF25V0.25/100	E090509Q	0,7	1,15
MI5SF25V0.315/100	F090510Q	0,87	1,43
MI5SF25V0.4/100	G090511Q	0,96	1,57
MI5SF25V0.5/100	H090512Q	0,72	1,18
MI5SF25V0.63/100	J090513Q	0,77	1,26
MI5SF25V0.8/100	K090514Q	0,36	0,59
MI5SF25V1/100	L090515Q	0,28	0,46
MI5SF25V1.25/100	M090516Q	0,46	0,75
MI5SF25V1.6/100	N090517Q	0,49	0,80
MI5SF25V2/100	P090518Q	0,61	1,00
MI5SF25V2.5/100	Q090519Q	0,76	1,25
MI5SF25V3.15/100	R090520Q	0,84	1,38
MI5SF25V4/100	S090521Q	0,88	1,44
MI5SF25V5/100	T090522Q	1,79	2,93
MI5SF25V6.3/100	V090523Q	1,62	2,66
MI5SF25V8/100	W090524Q	1,86	3,05
MI5SF25V10/100	X090525Q	2,21	3,62
MI5SF25V12.5/100	W233446Q	2,5	4,10
MI5SF25V16/100	X233447Q	2,5	4,10
MI5SF25V20/100	Y233448Q	4	6,56

Fuses 5x20 - 6X32 – Quick acting SF - HF

5X20 Fast Acting 5SF - Set of 1000			
Commercial number	**Reference**	**Power (W)**	**Extrapolation factor**
MI5SF25V0.08/1000	**Z090504T**	0,47	0,77
MI5SF25V0.1/1000	A090505T	0,46	0,75
MI5SF25V0.125/1000	B090506T	0,5	0,82
MI5SF25V0.16/1000	C090507T	0,57	0,93
MI5SF25V0.2/1000	D090508T	0,67	1,10
MI5SF25V0.25/1000	E090509T	0,7	1,15
MI5SF25V0.315/1000	F090510T	0,87	1,43
MI5SF25V0.4/1000	G090511T	0,96	1,57
MI5SF25V0.5/1000	H090512T	0,72	1,18
MI5SF25V0.63/1000	J090513T	0,77	1,26
MI5SF25V0.8/1000	K090514T	0,36	0,59
MI5SF25V1/1000	L090515T	0,28	0,46
MI5SF25V1.25/1000	M090516T	0,46	0,75
MI5SF25V1.6/1000	N090517T	0,49	0,80
MI5SF25V2/1000	P090518T	0,61	1,00
MI5SF25V2.5/1000	Q090519T	0,76	1,25
MI5SF25V3.15/1000	R090520T	0,84	1,38
MI5SF25V4/1000	S090521T	0,88	1,44
MI5SF25V5/1000	T090522T	1,79	2,93
MI5SF25V6.3/1000	V090523T	1,62	2,66
MI5SF25V8/1000	W090524T	1,86	3,05
MI5SF25V10/1000	X090525T	2,21	3,62

5X20 Fast Action 5SF - Assortment Box			
Commercial number	**Reference**	**Power (W)**	**Extrapolation factor**
MIBOX5HF	**B229863**		
MI5SF25V0.08	**Z090504**	0,47	0,77
MI5SF25V0.1	A090505	0,46	0,75
MI5SF25V0.125	**B090506**	0,5	0,82
MI5SF25V0.16	C090507	0,57	0,93
MI5SF25V0.2	**D090508**	0,67	1,10
MI5SF25V0.25	E090509	0,7	1,15
MI5SF25V0.315	**F090510**	0,87	1,43
MI5SF25V0.4	G090511	0,96	1,57
MI5SF25V0.5	**H090512**	0,72	1,18
MI5SF25V0.63	J090513	0,77	1,26
MI5SF25V0.8	**K090514**	0,36	0,59
MI5SF25V1	L090515	0,28	0,46
MI5SF25V1.25	**M090516**	0,46	0,75
MI5SF25V1.6	N090517	0,49	0,80
MI5SF25V2	**P090518**	0,61	1,00
MI5SF25V2.5	W233446	0,76	1,25
MI5SF25V3.15	**R090520**	0,84	1,38
MI5SF25V4	S090521	0,88	1,44
MI5SF25V6.3	V090523	1,62	2,66

Fuses 5x20 - 6X32 – Quick acting SF - HF

6x32 Fast action 3SF - Set of 50			
Commercial number	**Reference**	**Power (W)**	**Extrapolation factor**
MI6SF25V0.315	**P090564**	1,36	2,23
MI6SF25V0.5	R090566	1,59	2,61
MI6SF25V0.63	S090567	0,21	0,34
MI6SF25V1	V090569	0,39	0,64
MI6SF25V1.25	W090570	0,38	0,62
MI6SF25V1.6	X090571	0,43	0,70
MI6SF25V2	Y090572	0,7	1,15
MI6SF15V2,5	Z090573	0,67	1,10
MI6SF15V3,15	A090574	1,2	1,97
MI6SF15V4	B090575	1,08	1,77
MI6SF6V5	C090576	1,47	2,41
MI6SF6V6,3	D090577	1,85	3,03
MI6SF6V8	E090578	2,14	3,51
MI6SF6V10	F090579	2,36	3,87

5X20 Fast Acting 5HF - Set of 100			
Commercial number	**Reference**	**Power (W)**	**Extrapolation factor**
MI5HF25V0.1/100	**G095548Q**	0,44	0,33
MI5HF25V0.125/100	H095549Q	0,57	0,42
MI5HF25V0.16/100	J095550Q	0,55	0,41
MI5HF25V0.2/100	Q095556Q	0,62	0,46
MI5HF25V0.25/100	R095557Q	0,73	0,54
MI5HF25V0.315/100	S095558Q	0,83	0,62
MI5HF25V0.4/100	T095559Q	0,88	0,66
MI5HF25V0.5/100	V095560Q	0,2	0,15
MI5HF25V0.63/100	W095561Q	1,65	1,23
MI5HF25V0.8/100	X095562Q	1,52	1,13
MI5HF25V1/100	Y095563Q	0,99	0,74
MI5HF25V1.25/100	C095567Q	0,72	0,54
MI5HF25V1.6/100	D095568Q	1,19	0,89
MI5HF25V2/100	E095569Q	1,17	0,87
MI5HF25V2.5/100	F095570Q	1,55	1,15
MI5HF25V3.15/100	G095571Q	1,89	1,41
MI5HF25V4/100	H095572Q	1,94	1,45
MI5HF25V5/100	J095573Q	2,16	1,61
MI5HF25V6.3/100	K095574Q	1,81	1,35
MI5HF25V8/100	J085407Q	3,08	2,30
MI5HF25V10/100	K085408Q	3,06	2,28
MI5HF25V12.5	G210341	3,22	2,40
MI5HF25V16	H210342	2,9	2,16
MI5HF25V20	J210343	3,1	2,31

Fuses 5x20 - 6X32 – Quick acting SF - HF

5X20 Fast Acting 5HF - Set of 1000			
Commercial number	**Reference**	**Power (W)**	**Extrapolation factor**
MI5HF25V0.16/1000	**J095550T**	0,55	0,41
MI5HF25V0.25/1000	R095557T	0,732	0,55
MI5HF25V0.315/1000	R095557T	0,829	0,62

5X20 Fast Action 5HF - Assortment Box			
Commercial number	**Reference**	**Power (W)**	**Extrapolation factor**
MIBOX5HF	**B229863**		
MI5HF25V0.1	**G095548**	0,44	0,33
MI5HF25V0.125	H095549	0,57	0,42
MI5HF25V0.16	**J095550**	0,55	0,41
MI5HF25V0.2	Q095556	0,62	0,46
MI5HF25V0.25	**R095557**	0,73	0,54
MI5HF25V0.315	S095558	0,83	0,62
MI5HF25V0.4	**T095559**	0,88	0,66
MI5HF25V0.5	V095560	0,2	0,15
MI5HF25V0.63	**W095561**	1,65	1,23
MI5HF25V0.8	X095562	1,52	1,13
MI5HF25V1	**Y095563**	0,99	0,74
MI5HF25V1.25	C095567	0,72	0,54
MI5HF25V1.6	**D095568**	1,19	0,89
MI5HF25V2	E095569	1,17	0,87
MI5HF25V2.5	**F095570**	1,55	1,15
MI5HF25V3.15	G095571	1,89	1,41
MI5HF25V4	**H095572**	1,94	1,45
MI5HF25V6.3	K095574	1,81	1,35

POTENTIAL RECYCLABILITY

End of life of the product	Rate (%)
Recyclable component	**41,84%**
Incinerated components	**5,73%**
Waste	**52,43%**

This estimation has been calculated with EIME© v6.3.0 software with the Eco'DEEE methodology.

CHECKS

Registration N° : MERS-00087-V01.01-EN	**Drafting rules :** PCR-ed4-EN-2021 09 06 Supplemented by PSR-0005-ed3.1-FR-2023 12 08
Verifier accreditation N° : VH32	**Information and reference documentation :** www.pep-ecopassport.org
Date of issue : 07/2025	**Validity period :** 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 ☐ internal ☒ external	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)	
PEP are compliant with XP C08-100-1 :2016 or EN 50693 :2019 or NF E38-500 The elements of the present PEP cannot be compared with elements from another program.	
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Déclarations environnementales de Type III"	