

**SWITCHGEAR**

**FUSED SWITCH DISCONNECTORS M11 - M21**

**Technical information**

According IEC / EN 60947-3				M11			
				32	63	100	
Fuses <sup>*(1)</sup>	BS			A1	A2 - A3 <sup>*(1) *(2)</sup>	A2 - A3	
Rated insulation voltage	<b>Ui</b>		V	800	800	800	
Rated dielectric strenght		50 Hz, 1 min	V	5000	5000	6000	
Rated impulse withstand voltage	<b>Uimp</b>		kV	8	8	8	
Rated thermal current	<b>Ith</b>	in ambient at	40 °C	A	32	63	100
Rated thermal current in enclosure	<b>Ithe</b>			A	-	63	-
Power dissipation with fuse links <sup>*(6)</sup>			W	2,8	5,1 <sup>*(3)</sup> / 6,6 <sup>*(4)</sup>	8,5	
AC rated operational current <sup>*(7)</sup> (Rated frequency 50 / 60 Hz)	<b>Ie</b>	400 V	AC21A	A	32	63	100
		400 V	AC22A	A	32	63	100
		400 V	AC23A	A	32	63	100
		500 V	AC21A	A	32	63	100
		500 V	AC22A	A	32	63	100
		500 V	AC23A	A	32	63	100
		690 V	AC21A	A	32	63	100
		690 V	AC22A	A	32	63	100
		690 V	AC23A	A	32	50	80
		800 V	AC20A	A	32	63	100
AC rated operational power <sup>*(8)</sup>	<b>Pe</b>	3x400 V	AC23A	kW	15	30	55
		3x500 V	AC23A	kW	18	42	65
		3x690 V	AC23A	kW	25	42	80
Rated capacitor power		400 V		kVAr	15	25	42
Rated breaking capacity		400 V; cos φ = 0,35±0,45		A	260	504	800
Rated making capacity		400 V; cos φ = 0,45		A	320	800	1000
<b>Conditional short - circuit current</b>							
Short - circuit withstand current (rms value) <sup>*(10)</sup>			kA rms	100	100	100	
Short - circuit making current (rms value) <sup>*(10)</sup>			kA rms	50	50	50	
Maximum cut - off current (peak value)			kA	13	13	17	
Maximum power dissipation (I <sup>2</sup> t)			A <sup>2</sup> s (x 10 <sup>3</sup> )	76	76	190	
Minimum number of mechanical operations <sup>*(9)</sup>			Cycles	10000	10000	10000	
Minimum number of electrical operations <sup>*(9)</sup>	400 Vac 23		Cycles	1500	1500	1500	
Maximum weight (3 / 4 poles)			kg	1,1 / 1,5	1,1 / 1,5	1,7 / 2,2	
<b>Connecting capacity</b>							
Rigid cable (Cu)		max	mm <sup>2</sup>	35	35	95	
Bar (Thickness / Width)		max	mm	-	-	3 / 25	
Tightening torque			Nm	3	3	4 <sup>*(11)</sup> / 13 <sup>*(12)</sup>	

<sup>\*(1)</sup> See acceptable fuse - links dimensions.

<sup>\*(2)</sup> For fuse links with bmax = 24.

<sup>\*(3)</sup> DIN - type fuses.

<sup>\*(4)</sup> BS - type fuses.

<sup>\*(5)</sup> NFC - type fuses.

<sup>\*(6)</sup> Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation.

<sup>\*(7)</sup> Other voltages and / or utilization categories; please consult us.

<sup>\*(8)</sup> Indicative values: current values depend on the motor manufacturer.

<sup>\*(9)</sup> Please consult us for more operations.

<sup>\*(10)</sup> With a protective device limiting the cut - off current and the joule integral to the indicated values.

<sup>\*(11)</sup> Pillar type terminal.

<sup>\*(12)</sup> Lug type terminal.