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FMC8A air circuit breakers

max 2000A

Air automatic circuit breakers of the FMCўў series
used in low-voltage switchboard equipment for distribution and protection against overload currents, short circuits, as well as single-phase earth faults.



Specifications

Type				FMC8A			
Compliance with the standard				IES 60947-2			
Compliance with insulation requirements				IES 60947-2			
Design of the executive mechanism				switch button/coil			
Type of drive mechanism				manual / motorized spring loaded actuator			
Number of poles				3R			
Nominal current In, A	630	800	1,000	1,250	1,600	2,000	
Current regulation limits				0.4 - 1In			
Network type				variable			
Nominal frequency f, Hz				50/60			
Nominal operating voltage Un, V				690			
Nominal insulation voltage Ui, V				1,000			
Impulse voltage Uimp, V				8,000			
The nominal operating breaking capacity is at 400V / , Ics							
nominal value, kA				50			
- at 690V / nominal value, kA				40			
Nominal ultimate breaking capacity - at 400V / nominal , Icu							
value, kA				80			
- at 690V / nominal value, kA				50			
Turn-on time t, ms				30-40			
Disconnection time t, ms				23-32			
Power loss per pole, W Short-term	16.7	23.3	57.3	89.3	146.6	176.6	
current Icw:							
- limited to 1s (400V) / nominal value, kA				50			
- limited to 1s (690V) / nominal value, kA				40			
The value of the operating current:							
- at 40 °C / nominal value, A	630	800	1,000	1,250	1,600	2,000	
- at 50 °C / nominal value, A	630	800	1,000	1,250	1,500	1,900	
- at 55 °C / nominal value, A	630	800	1,000	1,250	1,500	1,800	
- at 60 °C / nominal value, A	610	800	1,000	1 150	1,300	1,700	
- at 65 °C / nominal value, A	610	800	1,000	1 150	1,300	1,650	
- at 70 °C / nominal value, A	473	640	750	938	1,200	1,400	
Regulated triggering current:							
- short-term delayed release short circuit / initial value, A	630	800	1,000	1,250	1,600	2,000	
- short-term delayed release short circuit / final value, A	5,040	6,400	8,000	10,000	12,800	16,000	
Splitter type				electronic			
Display type				monochrome			
Type of electrical connection for the main current circuit				connection of tires			
Location of tires				horizontally			
Execution type				retractable, stationary			
The method of mounting tires				horizontally			
The presence of a voltage indicator				yes, on/off indication			
Mechanical wear resistance (number of on/off cycles)				15,000 without maintenance 30,000 with maintenance			
Switching wear resistance (number of on/off cycles)				6,500			
Possibility of sealing adjustments Degree of				Yes			
protection				IP20 according to IEC 60529			
Degree of pollution				3 according to EN/IEC 60947-2			
Net weight, kg pull-out	66	66	70	70	70	79	
Net weight, kg stationary	40	40	41	41	41	42	

FMC

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FMC9A air circuit breakers

max 3200A

Air automatic circuit breakers of the FMCÿÿ series used in low-voltage switchboard equipment for distribution and protection against overload currents, short circuits, as well as single-phase earth faults.



Specifications

Type		FMC9A		
Compliance with the standard		IES 60947-2		
Compliance with insulation requirements		IES 60947-2		
Design of the executive mechanism		switch button/coil		
Type of drive mechanism		manual / motorized spring loaded actuator		
Number of poles		3R		
Nominal current In, A		2,000	2,500	3,200
Current regulation limits		0.4 - 1In		
Network type		variable		
Nominal frequency f, Hz		50/60		
Nominal operating voltage Un, V		690		
Nominal insulation voltage Ui, V		1,000		
Impulse voltage Uimp, V		8,000		
The nominal operating breaking capacity is at 400V / , Ics				
nominal value, kA		65		
- at 690V / nominal value, kA		55		
Nominal ultimate breaking capacity - at 400V / nominal , Icu				
value, kA		80		
- at 690V / nominal value, kA		65		
Turn-on time t, ms		30-40		
Disconnection time t, ms		23-32		
Power loss per pole, W stationary / extendable		186 / 320	270 / 520	410 / 710
Short-term current Icw:				
- limited to 1s (400V) / nominal value, kA		65		
- limited to 1s (690V) / nominal value, kA		55		
The value of the operating current:				
- at 40 °C / nominal value, A		2,000	2,500	3,200
- at 50 °C / nominal value, A		2,000	2,500	3,200
- at 55 °C / nominal value, A		1,900	2,500	3,200
- at 60 °C / nominal value, A		1,800	2 440	3 120
- at 65 °C / nominal value, A		1,700	2 330	3,020
- at 70 °C / nominal value, A		1,550	2,280	2,870
Regulated triggering current:				
- short-term delayed release short circuit / initial value, A		2,000	2,500	3,200
- short-term delayed release short circuit / final value, A		16,000	20,000	25,600
Splitter type		electronic		
Display type		monochrome		
Type of electrical connection for the main current circuit		connection of tires		
Location of tires		horizontally		
Execution type		retractable, stationary		
The method of mounting tires		horizontally		
The presence of a voltage indicator		yes, on/off indication		
Mechanical wear resistance (number of on/off cycles)		10,000 without maintenance 20,000 with maintenance		
Switching wear resistance (number of on/off cycles)		3,000		
Possibility of sealing adjustments Degree of		Yes		
protection		IP20 according to IEC 60529		
Degree of contamination		3 according to EN/IEC 60947-2		
Net weight, kg	pull-out	86	86	89
	stationary	52	52	54

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FMC10A air circuit breakers

max 4000A

Air automatic circuit breakers of the FMCxA series are used in low-voltage switchboard equipment for distribution and protection against overload currents, short circuits, and also for single-phase earth faults.



Specifications

Type	FMC10A
Compliance with the standard	IES 60947-2
Compliance with insulation requirements	IES 60947-2
Construction of the executive mechanism	button/coil activation manual / motorized
Type of drive mechanism	drive with charged spring
Number of poles	3R
Rated current In, A Current	4,000
regulation limits Network type Rated	0.4 - 1In
frequency f, Hz	variable
Rated operating voltage Un, V	50/60
Rated insulation voltage Ui, V Impulse voltage	690
Uimp, V Rated operating breaking capacity -	1,000
at 400V / rated value, kA - at 690V /	8,000
rated value , kA Nominal breaking capacity - at 400V / , Ics	
nominal value, kA - at 690V / nominal value, kA	80
	65
, Icu	
	100
	80
Switch-on time t, ms Switch-	30-40
off time t, ms Power loss per	23-32
pole, W stationary / extendable Short-term current Icw:	520 / 810
- limited to 1s (400V) / nominal value, kA - limited to 1s (690V) /	80
nominal value, kA Operating current value: - at 40 °C / nominal	65
value, A - at 50 °C / nominal value, A	
- at 55 ° C / nominal value, A - at 60 °C / nominal	4,000
value, A - at 65 °C / nominal value, A - at 70 °C /	4,000
nominal value, A	4,000
	3,950
	3,900
	2,850
Regulated tripping current: - short-time delayed short-	
circuit release / initial value, A	4,000
- of the short-time delayed short-circuit release / final value, A	32,000
Type of release Type of display Type of electrical connection	
for the main current circuit	electronic
Bus arrangement	monochrome bus
	connection
	horizontally
Execution type	retractable, stationary
The method of mounting	horizontally yes, on/
tires. The presence of a voltage indicator	off indication 10,000 without
Mechanical wear resistance (number of on/off cycles)	maintenance 20,000 with maintenance 1,500
Switching wear resistance (number of on/off cycles) Possibility of sealing	
adjustments Degree of protection Degree of	Yes
contamination	IP20 according to IEC 60529 3 according
	to EN/IEC 60947-2 133
Net weight, kg retractable	
stationary	85

FMC

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FMC11A air circuit breakers

max 5000A

Air automatic circuit breakers of the FMCxA series are used in low-voltage switchboard equipment for distribution and protection against overload currents, short circuits, and also for single-phase earth faults.

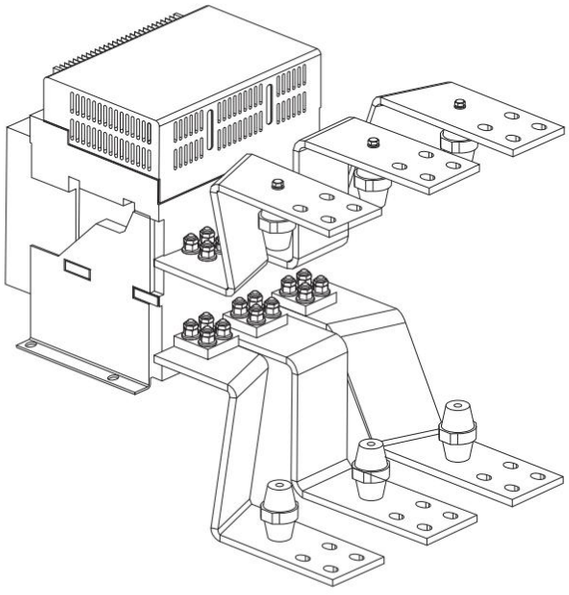


Specifications

Type	FMC11A	
Compliance with the standard	IES 60947-2	
Compliance with insulation requirements	IES 60947-2	
Construction of the executive mechanism	button/coil activation manual / motorized	
Type of drive mechanism	drive with charged spring	
Number of poles Rated	3R	
current In, A Limits of current	4,000	5,000
adjustment Network type Rated	0.4 - 1In	
frequency f, Hz	variable	
Rated operating voltage Un, V	50/60	
Rated insulation voltage Ui, V	690	
	1,000	
Impulse voltage Uimp, V Nominal	8,000	
operating breaking capacity - at 400V / nominal value, kA - , Ics		
at 690V / nominal value, kA Nominal limiting breaking	100	
capacity - at 400V / nominal value, kA - at 690V /	80	
nominal value, kA , Icu		
	120	
	100	
Switch-on time t, ms Switch-	30-40	
off time t, ms Power loss per	23-32	
pole, W Short-time current Icw: - limited to	1050	
1s (400V) / nominal value, kA -		
limited to 1s (690V) / nominal value, kA Operating current value: -	100	
at 40 ° C / nominal value, A - at 50 °C / nominal value, A - at 55 °C /	80	
nominal value, A - at 60 °C / nominal		
value, A - at 65 °C / nominal value, A - at 70 ° C /	4,000	5,000
nominal value, A Regulated tripping current: - short-	4,000	5,000
time delayed short-circuit release / initial value, A	4,000	5,000
	3,950	4,900
	3,900	4,800
	2,850	4,750
- short-time delayed short-circuit release / final value, A	4,000 32,000	4,000 32,000
Decoder type Display type	electronic	
	monochrome bus	
Type of electrical connection for the main current circuit Busbar location	connection	
	horizontally	
Execution type	pull-out	
The method of mounting the	horizontally yes, on/	
tires. The presence of a voltage indicator	off indication 10,000 without	
Mechanical wear resistance (number of on/off cycles)	maintenance 20,000 with maintenance 1,500	
Switching wear resistance (number of on/off cycles) Possibility of sealing		
adjustments Degree of protection Degree of pollution	Yes	
Net weight, kg	IP20 according to IEC 60529 3 according	
	to EN/IEC 60947-2	
pull-out	203	

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A set of transitional connecting buses



To replace old-type automatic switches (AVM, AV2M, "Electron" and similar series), our company manufactures to order,
a set of transitional connecting buses
for a specific electrical installation, with the help of which it is possible to carry out reconstruction, without changing the approach buses, in the shortest possible time and with minimal costs.

The technical parameters of the adaptation kit are agreed with the customer individually.

FMCxA air automatic switches

Code order	Full name	Nominal current In, A	Packaging, pcs		Gross weight, kg
			Packaging Box	Unit Packaging Box	
FMC8A FMC80630AD	Air automatic circuit breaker FMC8A (retractable) 3P 630A	630	1	1	78,000 78,000 78,000
FMC80630AF	Air circuit breaker FMC8A (stationary) 3P 630A	630	1	1	49,000 49,000 49,000
FMC80800AD	Air automatic circuit breaker FMC8A (retractable) 3P 800A	800	1	1	78,000 78,000 78,000
FMC80800AF	Air circuit breaker FMC8A (stationary) 3P 800A	800	1	1	49,000 49,000 49,000
FMC81000AD	Air circuit breaker FMC8A (retractable) 3P 1000A	1000	1	1	78,000 78,000 78,000
FMC81000AF	Air circuit breaker FMC8A (stationary) 3P 1000A	1000	1	1	49,000 49,000 49,000
FMC81250AD	Air circuit breaker FMC8A (retractable) 3P 1250A	1250	1	1	78,000 78,000 78,000
FMC81250AF	Air circuit breaker FMC8A (stationary) 3P 1250A	1250	1	1	49,000 49,000 49,000
FMC81600AD	Air automatic circuit breaker FMC8A (retractable) 3P 1600A	1600	1	1	78,000 78,000 78,000
FMC81600AF	Air circuit breaker FMC8A (stationary) 3P 1600A	1600	1	1	49,000 49,000 49,000
FMC82000AD	Air automatic circuit breaker FMC8A (retractable) 3P 2000A	2000	1	1	87,000 87,000 87,000
FMC82000AF	Air circuit breaker FMC8A (stationary) 3P 2000A	2000	1	1	50,000 50,000 50,000
FMC9A FMC92000AD	Air automatic circuit breaker FMC9A (retractable) 3P 2000A	2000	1	1	96,000 96,000 96,000
FMC92000AF	Air circuit breaker FMC9A (stationary) 3P 2000A	2000	1	1	60,000 60,000 60,000
FMC92500AD	Air circuit breaker FMC9A (retractable) 3P 2500A	2500	1	1	96,000 96,000 96,000
FMC92500AF	FMC9A air circuit breaker (stationary) 3P 2500A	2500	1	1	60,000 60,000 60,000
FMC93200AD	Air automatic circuit breaker FMC9A (retractable) 3P 3200A	3200	1	1	99,000 99,000 99,000
FMC93200AF	FMC9A air circuit breaker (stationary) 3P 3200A	3200	1	1	64,000 64,000 64,000
FMC10A FMC104000AD	Air circuit breaker FMC10A (retractable) 3P 4000A	4000	1	1	145,000 145,000 145,000
FMC104000AF	Air circuit breaker FMC10A (stationary) 3P 4000A	4000	1	1	95,000 95,000 95,000
FMC11A FMC114000AD	Air automatic circuit breaker FMC11A (retractable) 3P 4000A	4000	1	1	216,000 216,000 216,000
FMC115000AD	Air automatic circuit breaker FMC11A (retractable) 3P 5000A	5000	1	1	216,000 216,000 216,000
FMC116300AD	Air circuit breaker FMC11A (retractable) 3P 6300ÿ	6300	1	1	216,000 216,000 216,000