

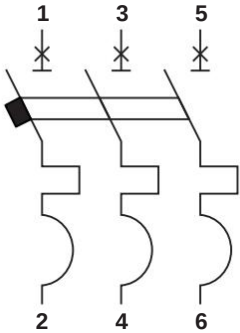
FMC circuit breakers



Specifications

Type	FMC1/3U	FMC2/3U	FMC3/3U	FMC4/3U	FMC5/3U	FMC6/3U	FMC7/3U
Compliance with the standard	IEC 60947-2						
Nominal current of the disconnector In, A	10, 16, 20, 25, 32, 40, 50, 63	16, 20, 25, 32, 40, 50, 63, 75, 80,100,125	63,80,100, 125, 140, 150,160, 175, 180, 200, 225,250	225, 250, 300, 315, 320, 350, 400	400 450 500 630	600 630 700 800	800 1000 1250 1600
Time-current characteristic	3-5In, 5-10In, 8-12In						
Nominal frequency f, Hz		50/60					
Nominal insulation voltage Ui, V Nominal	500	800					
operating voltage Un, V	400	690					
Nominal impulse voltage Uimp, V	8000						
Number of poles	3	3	3	3	3	3	3
Nominal operating breaking capacity Ics,kA (AC 380/415V)	17.5	17.5	25	25	25	35	40
Limit operating breaking capacity Icu, kA (AC 380/415V)	35	35	50	50	50	70	80
Front connection with tires	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rear connection with tires	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation of an independent disconnector	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation of the minimum voltage release	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Establishing an additional contact	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Establishing a signal contact	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation of a manual drive	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation of the remote control unit	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Switching wear resistance (number of on/off cycles)	electric	6,000	6,000	2,500	1,500	1,000	1,000
	mechanical	10,000	10,000	8,500	5,000	4,000	4,000
Type of release	electromagnetic/thermal						
Connecting switches	tip/bush						
Net weight, kg	0.85	1.14	1.80	4.90	6.70	8.20	17.75 19.55

Schematic diagram



FMC circuit breakers

3-5In	Code order	Full name	Nominal current In, A	Packaging, pcs		Gross weight, kg		
				Packaging Box		Unit Packaging Box		
FMC1/3U	FMC13U0010/5	Automatic circuit breaker FMC1/3U 3P 10A 35kA (3-5In)	10	1	12	0.950	0.950	11,400
	FMC13U0016/5	Automatic circuit breaker FMC1/3U 3P 16A 35kA (3-5In)	16	1	12	0.950	0.950	11,400
	FMC13U0020/5	Automatic circuit breaker FMC1/3U 3P 20A 35kA (3-5In)	20	1	12	0.950	0.950	11,400
	FMC13U0025/5	Automatic circuit breaker FMC1/3U 3P 25A 35kA (3-5In)	25	1	12	0.950	0.950	11,400
	FMC13U0032/5	Automatic circuit breaker FMC1/3U 3P 32A 35kA (3-5In)	32	1	12	0.950	0.950	11,400
	FMC13U0040/5	Automatic circuit breaker FMC1/3U 3P 40A 35kA (3-5In)	40	1	12	0.950	0.950	11,400
	FMC13U0050/5	Automatic circuit breaker FMC1/3U 3P 50A 35kA (3-5In)	50	1	12	0.950	0.950	11,400
	FMC13U0063/5	Automatic circuit breaker FMC1/3U 3P 63A 35kA (3-5In)	63	1	12	0.950	0.950	11,400
FMC2/3U	FMC23U0016/5	Automatic circuit breaker FMC2/3U 3P 16A 35kA (3-5In)	16	1	12	1,240	1,240	14,880
	FMC23U0020/5	Automatic circuit breaker FMC2/3U 3P 20A 35kA (3-5In)	20	1	12	1,240	1,240	14,880
	FMC23U0025/5	Automatic circuit breaker FMC2/3U 3P 25A 35kA (3-5In)	25	1	12	1,240	1,240	14,880
	FMC23U0032/5	Automatic circuit breaker FMC2/3U 3P 32A 35kA (3-5In)	32	1	12	1,240	1,240	14,880
	FMC23U0040/5	Automatic circuit breaker FMC2/3U 3P 40A 35kA (3-5In)	40	1	12	1,240	1,240	14,880
	FMC23U0050/5	Automatic circuit breaker FMC2/3U 3P 50A 35kA (3-5In)	50	1	12	1,240	1,240	14,880
	FMC23U0063/5	Automatic circuit breaker FMC2/3U 3P 63A 35kA (3-5In)	63	1	12	1,240	1,240	14,880
	FMC23U0080/5	Automatic circuit breaker FMC2/3U 3P 80A 35kA (3-5In)	80	1	12	1,240	1,240	14,880
	FMC23U0100/5	Automatic circuit breaker FMC2/3U 3P 100A 35kA (3-5In)	100	1	12	1,240	1,240	14,880
	FMC23U0125/5	Automatic circuit breaker FMC2/3U 3P 125A 35kA (3-5In)	125	1	12	1,240	1,240	14,880
FMC3/3U	FMC33U0063/5	Automatic circuit breaker FMC3/3U 3P 63A 50kA (3-5In)	63	1	8	1,900	1,900	15,200
	FMC33U0080/5	Automatic circuit breaker FMC3/3U 3P 80A 50kA (3-5In)	80	1	8	1,900	1,900	15,200
	FMC33U0100/5	Automatic circuit breaker FMC3/3U 3P 100A 50kA (3-5In)	100	1	8	1,900	1,900	15,200
	FMC33U0125/5	Automatic circuit breaker FMC3/3U 3P 125A 50kA (3-5In)	125	1	8	1,900	1,900	15,200
	FMC33U0140/5	Automatic circuit breaker FMC3/3U 3P 140A 50kA (3-5In)	140	1	8	1,900	1,900	15,200
	FMC33U0160/5	Automatic circuit breaker FMC3/3U 3P 160A 50kA (3-5In)	160	1	8	1,900	1,900	15,200
	FMC33U0175/5	Automatic circuit breaker FMC3/3U 3P 175A 50kA (3-5In)	175	1	8	1,900	1,900	15,200
	FMC33U0180/5	Automatic circuit breaker FMC3/3U 3P 180A 50kA (3-5In)	180	1	8	1,900	1,900	15,200
	FMC33U0200/5	Automatic circuit breaker FMC3/3U 3P 200A 50kA (3-5In)	200	1	8	1,900	1,900	15,200
	FMC33U0225/5	Automatic circuit breaker FMC3/3U 3P 225A 50kA (3-5In)	225	1	8	1,900	1,900	15,200
	FMC33U0250/5	Automatic circuit breaker FMC3/3U 3P 250A 50kA (3-5In)	250	1	8	1,900	1,900	15,200
FMC4/3U	FMC43U0225/5	Automatic circuit breaker FMC4/3U 3P 225A 50kA (3-5In)	225	1	2	5,150	5,150	10,300
	FMC43U0250/5	Automatic circuit breaker FMC4/3U 3P 250A 50kA (3-5In)	250	1	2	5,150	5,150	10,300
	FMC43U0300/5	Automatic circuit breaker FMC4/3U 3P 300A 50kA (3-5In)	300	1	2	5,150	5,150	10,300
	FMC43U0315/5	Automatic circuit breaker FMC4/3U 3P 315A 50kA (3-5In)	315	1	2	5,150	5,150	10,300
	FMC43U0320/5	Automatic circuit breaker FMC4/3U 3P 320A 50kA (3-5In)	320	1	2	5,150	5,150	10,300
	FMC43U0350/5	Automatic circuit breaker FMC4/3U 3P 350A 50kA (3-5In)	350	1	2	5,150	5,150	10,300
	FMC43U0400/5	Automatic circuit breaker FMC4/3U 3P 400A 50kA (3-5In)	400	1	2	5,150	5,150	10,300
FMC5/3U	FMC53U0400/5	Automatic circuit breaker FMC5/3U 3P 400A 50kA (3-5In)	400	1	2	7,200	7,200	14,400
	FMC53U0500/5	Automatic circuit breaker FMC5/3U 3P 500A 50kA (3-5In)	500	1	2	7,200	7,200	14,400
	FMC53U0630/5	Automatic circuit breaker FMC5/3U 3P 630A 50kA (3-5In)	630	1	2	7,200	7,200	14,400
FMC6/3U	FMC63U0600/5	Automatic circuit breaker FMC6/3U 3P 600A 70kA (3-5In)	600	1	1	8,950	8,950	8,950
	FMC63U0630/5	Automatic circuit breaker FMC6/3U 3P 630A 70kA (3-5In)	630	1	1	8,950	8,950	8,950
	FMC63U0700/5	Automatic circuit breaker FMC6/3U 3P 700A 70kA (3-5In)	700	1	1	8,950	8,950	8,950
	FMC63U0800/5	Automatic circuit breaker FMC6/3U 3P 800A 70kA (3-5In)	800	1	1	8,950	8,950	8,950
FMC7/3U	FMC73U0800/5	Automatic circuit breaker FMC7/3U 3P 800A 80kA (3-5In)	800	1	1	20,350	20,350	20,350
	FMC73U1000/5	Automatic circuit breaker FMC7/3U 3P 100A 80kA (3-5In)	1000	1	1	20,350	20,350	20,350
	FMC73U1250/5	Automatic circuit breaker FMC7/3U 3P 1250A 80kA (3-5In)	1250	1	1	20,350	20,350	20,350
	FMC73U1600/5	Automatic circuit breaker FMC7/3U 3P 1600A 80kA (3-5In) 1600		1	1	22,200	22,200	22,200

FMC circuit breakers

5-10In	Code order	Full name	Nominal current In, A	Packaging, pcs		Gross weight, kg		
				Packaging Box		Unit Packaging Box		
FMC1/3U	FMC13U0010/10	Automatic circuit breaker FMC1/3U 3P 10A 35kA (5-10In)	10	1	12	0.950	0.950	11,400
	FMC13U0016/10	Automatic circuit breaker FMC1/3U 3P 16A 35kA (5-10In)	16	1	12	0.950	0.950	11,400
	FMC13U0020/10	Automatic circuit breaker FMC1/3U 3P 20A 35kA (5-10In)	20	1	12	0.950	0.950	11,400
	FMC13U0025/10	Automatic circuit breaker FMC1/3U 3P 25A 35kA (5-10In)	25	1	12	0.950	0.950	11,400
	FMC13U0032/10	Automatic circuit breaker FMC1/3U 3P 32A 35kA (5-10In)	32	1	12	0.950	0.950	11,400
	FMC13U0040/10	Automatic circuit breaker FMC1/3U 3P 40A 35kA (5-10In)	40	1	12	0.950	0.950	11,400
	FMC13U0050/10	Automatic circuit breaker FMC1/3U 3P 50A 35kA (5-10In)	50	1	12	0.950	0.950	11,400
	FMC13U0063/10	Automatic circuit breaker FMC1/3U 3P 63A 35kA (5-10In)	63	1	12	0.950	0.950	11,400
FMC2/3U	FMC23U0016/10	Automatic circuit breaker FMC2/3U 3P 16A 35kA (5-10In)	16	1	12	1,240	1,240	14,880
	FMC23U0020/10	Automatic circuit breaker FMC2/3U 3P 20A 35kA (5-10In)	20	1	12	1,240	1,240	14,880
	FMC23U0025/10	Automatic circuit breaker FMC2/3U 3P 25A 35kA (5-10In)	25	1	12	1,240	1,240	14,880
	FMC23U0032/10	Automatic circuit breaker FMC2/3U 3P 32A 35kA (5-10In)	32	1	12	1,240	1,240	14,880
	FMC23U0040/10	Automatic circuit breaker FMC2/3U 3P 40A 35kA (5-10In)	40	1	12	1,240	1,240	14,880
	FMC23U0050/10	Automatic circuit breaker FMC2/3U 3P 50A 35kA (5-10In)	50	1	12	1,240	1,240	14,880
	FMC23U0063/10	Automatic circuit breaker FMC2/3U 3P 63A 35kA (5-10In)	63	1	12	1,240	1,240	14,880
	FMC23U0080/10	Automatic circuit breaker FMC2/3U 3P 80A 35kA (5-10In)	80	1	12	1,240	1,240	14,880
	FMC23U0100/10	Automatic circuit breaker FMC2/3U 3P 100A 35kA (5-10In)	100	1	12	1,240	1,240	14,880
	FMC23U0125/10	Automatic circuit breaker FMC2/3U 3P 125A 35kA (5-10In)	125	1	12	1,240	1,240	14,880
FMC3/3U	FMC33U0063/10	Automatic circuit breaker FMC3/3U 3P 63A 50kA (5-10In)	63	1	8	1,900	1,900	15,200
	FMC33U0080/10	Automatic circuit breaker FMC3/3U 3P 80A 50kA (5-10In)	80	1	8	1,900	1,900	15,200
	FMC33U0100/10	Automatic circuit breaker FMC3/3U 3P 100A 50kA (5-10In)	100	1	8	1,900	1,900	15,200
	FMC33U0125/10	Automatic circuit breaker FMC3/3U 3P 125A 50kA (5-10In)	125	1	8	1,900	1,900	15,200
	FMC33U0140/10	Automatic circuit breaker FMC3/3U 3P 140A 50kA (5-10In)	140	1	8	1,900	1,900	15,200
	FMC33U0160/10	Automatic circuit breaker FMC3/3U 3P 160A 50kA (5-10In)	160	1	8	1,900	1,900	15,200
	FMC33U0180/10	Automatic circuit breaker FMC3/3U 3P 180A 50kA (5-10In)	180	1	8	1,900	1,900	15,200
	FMC33U0200/10	Automatic circuit breaker FMC3/3U 3P 200A 50kA (5-10In)	200	1	8	1,900	1,900	15,200
	FMC33U0225/10	Automatic circuit breaker FMC3/3U 3P 225A 50kA (5-10In)	225	1	8	1,900	1,900	15,200
	FMC33U0250/10	Automatic circuit breaker FMC3/3U 3P 50kA (5-10In)	250	1	8	1,900	1,900	15,200
FMC4/3U	FMC43U0225/10	Automatic circuit breaker FMC4/3U 3P 225A 50kA (5-10In)	225	1	2	5,150	5,150	10,300
	FMC43U0250/10	Automatic circuit breaker FMC4/3U 3P 250A 50kA (5-10In)	250	1	2	5,150	5,150	10,300
	FMC43U0315/10	Automatic circuit breaker FMC4/3U 3P 315A 50kA (5-10In)	315	1	2	5,150	5,150	10,300
	FMC43U0320/10	Automatic circuit breaker FMC4/3U 3P 320A 50kA (5-10In)	320	1	2	5,150	5,150	10,300
	FMC43U0350/10	Automatic circuit breaker FMC4/3U 3P 350A 50kA (5-10In)	350	1	2	5,150	5,150	10,300
	FMC43U0400/10	Automatic circuit breaker FMC4/3U 3P 400A 50kA (5-10In)	400	1	2	5,150	5,150	10,300
FMC5/3U	FMC53U0400/10	Automatic circuit breaker FMC5/3U 3P 400A 50kA (5-10In)	400	1	2	7,200	7,200	14,400
	FMC53U0450/10	Automatic circuit breaker FMC5/3U 3P 450A 50kA (5-10In)	450	1	2	7,200	7,200	14,400
	FMC53U0500/10	Automatic circuit breaker FMC5/3U 3P 500A 50kA (5-10In)	500	1	2	7,200	7,200	14,400
	FMC53U0630/10	Automatic circuit breaker FMC5/3U 3P 630A 50kA (5-10In)	630	1	2	7,200	7,200	14,400
FMC6/3U	FMC63U0630/10	Automatic circuit breaker FMC6/3U 3P 630A 70kA (5-10In)	630	1	1	8,950	8,950	8,950
	FMC63U0700/10	Automatic circuit breaker FMC6/3U 3P 700A 70kA (5-10In)	700	1	1	8,950	8,950	8,950
	FMC63U0800/10	Automatic circuit breaker FMC6/3U 3P 800A 70kA (5-10In)	800	1	1	8,950	8,950	8,950
FMC7/3U	FMC73U0800/10	Automatic circuit breaker FMC7/3U 3P 800A 80kA (5-10In)	800	1	1	20,350	20,350	20,350
	FMC73U1000/10	Automatic circuit breaker FMC7/3U 3P 1000A 80kA (5-10In)	1000	1	1	20,350	20,350	20,350
	FMC73U1250/10	Automatic circuit breaker FMC7/3U 3P 1250A 80kA (5-10In)	1250	1	1	20,350	20,350	20,350
	FMC73U1600/10	Circuit breaker FMC7/3U 3P 1600A 80kA (5-10In) 1600		1	1	22,200	22,200	22,200

FMC circuit breakers

8-12In			Packaging, pcs			Gross weight, kg		
	Code order	Full name	Nominal current In, A	Packaging Box		Unit Packaging Box		
FMC1/3U	FMC13U0010	Automatic circuit breaker FMC1/3U 3P 10A 35kA (8-12In)	10	1	12	0.950	0.950	11,400
	FMC13U0016	Automatic circuit breaker FMC1/3U 3P 16A 35kA (8-12In)	16	1	12	0.950	0.950	11,400
	FMC13U0020	Automatic circuit breaker FMC1/3U 3P 20A 35kA (8-12In)	20	1	12	0.950	0.950	11,400
	FMC13U0025	Automatic circuit breaker FMC1/3U 3P 25A 35kA (8-12In)	25	1	12	0.950	0.950	11,400
	FMC13U0032	Automatic circuit breaker FMC1/3U 3P 32A 35kA (8-12In)	32	1	12	0.950	0.950	11,400
	FMC13U0040	Automatic circuit breaker FMC1/3U 3P 40A 35kA (8-12In)	40	1	12	0.950	0.950	11,400
	FMC13U0050	Automatic circuit breaker FMC1/3U 3P 50A 35kA (8-12In)	50	1	12	0.950	0.950	11,400
	FMC13U0063	Automatic circuit breaker FMC1/3U 3P 63A 35kA (8-12In)	63	1	12	0.950	0.950	11,400
FMC2/3U	FMC23U0010	Automatic circuit breaker FMC2/3U 3P 10A 35kA (8-12In)	10	1	12	1,240	1,240	14,880
	FMC23U0016	Automatic circuit breaker FMC2/3U 3P 16A 35kA (8-12In)	16	1	12	1,240	1,240	14,880
	FMC23U0020	Automatic circuit breaker FMC2/3U 3P 20A 35kA (8-12In)	20	1	12	1,240	1,240	14,880
	FMC23U0025	Automatic circuit breaker FMC2/3U 3P 25A 35kA (8-12In)	25	1	12	1,240	1,240	14,880
	FMC23U0032	Automatic circuit breaker FMC2/3U 3P 32A 35kA (8-12In)	32	1	12	1,240	1,240	14,880
	FMC23U0040	Automatic circuit breaker FMC2/3U 3P 40A 35kA (8-12In)	40	1	12	1,240	1,240	14,880
	FMC23U0050	Automatic circuit breaker FMC2/3U 3P 50A 35kA (8-12In)	50	1	12	1,240	1,240	14,880
	FMC23U0063	Automatic circuit breaker FMC2/3U 3P 63A 35kA (8-12In)	63	1	12	1,240	1,240	14,880
	FMC23U0075	Automatic circuit breaker FMC2/3U 3P 75A 35kA (8-12In)	75	1	12	1,240	1,240	14,880
	FMC23U0080	Automatic circuit breaker FMC2/3U 3P 80A 35kA (8-12In)	80	1	12	1,240	1,240	14,880
	FMC23U0100	Automatic circuit breaker FMC2/3U 3P 100A 35kA (8-12In)	100	1	12	1,240	1,240	14,880
	FMC23U0125	Automatic circuit breaker FMC2/3U 3P 125A 35kA (8-12In)	125	1	12	1,240	1,240	14,880
FMC3/3U	FMC33U0063	Automatic circuit breaker FMC3/3U 3P 63A 50kA (8-12In)	63	1	8	1,900	1,900	15,200
	FMC33U0080	Automatic circuit breaker FMC3/3U 3P 80A 50kA (8-12In)	80	1	8	1,900	1,900	15,200
	FMC33U0100	Automatic circuit breaker FMC3/3U 3P 100A 50kA (8-12In)	100	1	8	1,900	1,900	15,200
	FMC33U0125	Automatic circuit breaker FMC3/3U 3P 125A 50kA (8-12In)	125	1	8	1,900	1,900	15,200
	FMC33U0140	Automatic circuit breaker FMC3/3U 3P 140A 50kA (8-12In)	140	1	8	1,900	1,900	15,200
	FMC33U0150	Automatic circuit breaker FMC3/3U 3P 150A 50kA (8-12In)	150	1	8	1,900	1,900	15,200
	FMC33U0160	Automatic circuit breaker FMC3/3U 3P 160A 50kA (8-12In)	160	1	8	1,900	1,900	15,200
	FMC33U0175	Automatic circuit breaker FMC3/3U 3P 175A 50kA (8-12In)	175			1,900	0.000	0.000
	FMC33U0180	Automatic circuit breaker FMC3/3U 3P 180A 50kA (8-12In)	180	1	8	1,900	1,900	15,200
	FMC33U0200	Automatic circuit breaker FMC3/3U 3P 200A 50kA (8-12In)	200	1	8	1,900	1,900	15,200
	FMC33U0225	Automatic circuit breaker FMC3/3U 3P 225A 50kA (8-12In)	225	1	8	1,900	1,900	15,200
	FMC33U0250	Automatic circuit breaker FMC3/3U 3P 250A 50kA (8-12In)	250	1	8	1,900	1,900	15,200
FMC4/3U	FMC43U0225	Automatic circuit breaker FMC4/3U 3P 225A 50kA (8-12In)	225	1	2	5,150	5,150	10,300
	FMC43U0250	Automatic circuit breaker FMC4/3U 3P 250A 50kA (8-12In)	250	1	2	5,150	5,150	10,300
	FMC43U0300	Automatic circuit breaker FMC4/3U 3P 300A 50kA (8-12In)	300	1	2	5,150	5,150	10,300
	FMC43U0315	Automatic circuit breaker FMC4/3U 3P 315A 50kA (8-12In)	315	1	2	5,150	5,150	10,300
	FMC43U0320	Automatic circuit breaker FMC4/3U 3P 320A 50kA (8-12In)	320	1	2	5,150	5,150	10,300
	FMC43U0350	Automatic circuit breaker FMC4/3U 3P 350A 50kA (8-12In)	350	1	2	5,150	5,150	10,300
	FMC43U0400	Automatic circuit breaker FMC4/3U 3P 400A 50kA (8-12In)	400	1	2	5,150	5,150	10,300
FMC5/3U	FMC53U0400	Automatic circuit breaker FMC5/3U 3P 400A 50kA (8-12In)	400	1	2	7,200	7,200	14,400
	FMC53U0450	Automatic circuit breaker FMC5/3U 3P 450A 50kA (8-12In)	450	1	2	7,200	7,200	14,400
	FMC53U0500	Automatic circuit breaker FMC5/3U 3P 500A 50kA (8-12In)	500	1	2	7,200	7,200	14,400
	FMC53U0630	Automatic circuit breaker FMC5/3U 3P 630A 50kA (8-12In)	630	1	2	7,200	7,200	14,400
FMC6/3U	FMC63U0600	Automatic circuit breaker FMC6/3U 3P 600A 70kA (8-12In)	600	1	1	8,950	8,950	8,950
	FMC63U0630	Automatic circuit breaker FMC6/3U 3P 630A 70kA (8-12In)	630	1	1	8,950	8,950	8,950
	FMC63U0700	Automatic circuit breaker FMC6/3U 3P 700A 70kA (8-12In)	700	1	1	8,950	8,950	8,950
	FMC63U0800	Automatic circuit breaker FMC6/3U 3P 800A 70kA (8-12In)	800	1	1	8,950	8,950	8,950
FMC7/3U	FMC73U0800	Automatic circuit breaker FMC7/3U 3P 800A 80kA (8-12In)	800	1	1	20,350	20,350	20,350
	FMC73U1000	Automatic circuit breaker FMC7/3U 3P 1000A 80kA (8-12In)	1000	1	1	20,350	20,350	20,350
	FMC73U1250	Automatic circuit breaker FMC7/3U 3P 1250A 80kA (8-12In)	1250	1	1	20,350	20,350	20,350
	FMC73U1600	Automatic circuit breaker FMC7/3U 3P 1600A 80kA (8-12In)	1600	1	1	22,200	22,200	22,200

Additional devices for FMC circuit breakers

Additional F/AX contact

- The additional F/AX contact is used to enable or disable auxiliary devices.
- Monitoring of the state of the device - whether its main contacts are closed or open (regardless of the reasons that caused the opening).

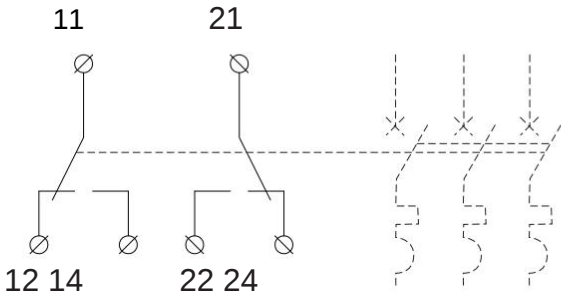
Algorithm of operation of additional contact

Closing normally open contacts - when turning on the automatic switch manually;
opening contacts - when disconnecting the automatic circuit breaker manually or during emergency shutdown.



Type	F/AX	
Compliance with the standard	IEC/EN 60947-5-1	
Switching current, A	10	
Nominal current (at a voltage of ~400V) In, A	1	
Nominal current (at a voltage of ~230V) In, A	0.4	
Nominal frequency f, Hz	50/60	
Nominal voltage Un, V	230/400	
Number of contact groups	FMC1/3U- FMC3/3U 1 C/O	FMC4/3U- FMC7/3U 2 C/O
Wire length in	200 mm	
Connection side Working position	from the left/right side any	

Schematic diagram



Code order	Full name	Packaging, pcs		Unit	Gross weight, kg	
		Packaging	Box		Packaging	Box
F/AX1L	Contact additional F/AX1 (left) to FMC1 1NO+1NC	1	1	0.050	0.050	0.050
F/AX1R	Contact additional F/AX1 (right) to FMC1 1NO+1NC	1	1	0.050	0.050	0.050
F/AX2L	Contact additional F/AX2 (left) to FMC2 1NO+1NC	1	1	0.050	0.050	0.050
F/AX2R	Contact additional F/AX2 (right) to FMC2 1NO+1NC	1	1	0.050	0.050	0.050
F/AX3L	Contact additional F/AX3 (left) to FMC3 1NO+1NC	1	1	0.050	0.050	0.050
F/AX3R	Contact additional F/AX3 (right) to FMC3 1NO+1NC	1	1	0.050	0.050	0.050
F/AX4L	Contact additional F/AX4 (left) to FMC4 2NO+2NC	1	1	0.050	0.050	0.050
F/AX4R	Contact additional F/AX4 (right) to FMC4 2NO+2NC	1	1	0.050	0.050	0.050
F/AX5L	Contact additional F/AX5 (left) to FMC5 2NO+2NC	1	1	0.050	0.050	0.050
F/AX5R	Contact additional F/AX5 (right) to FMC5 2NO+2NC	1	1	0.050	0.050	0.050
F/AX6L	Contact additional F/AX6 (left) to FMC6 2NO+2NC	1	1	0.050	0.050	0.050
F/AX6R	Contact additional F/AX6 (right) to FMC6 2NO+2NC	1	1	0.050	0.050	0.050
F/AX7L	Contact additional F/AX7 (left) to FMC7 2NO+2NC	1	1	0.050	0.050	0.050
F/AX7R	Contact additional F/AX7 (right) to FMC7 2NO+2NC	1	1	0.050	0.050	0.050



Signal contact F/AL

- Signal contact F/AL**
is used to signal the state of the automatic circuit breaker during emergency shutdown.

When the switch is on or off, if there was no emergency shutdown, the signal contact is off.

In the event of emergency operation of the switch or pressing the "TEST" button the signal contact turns on.

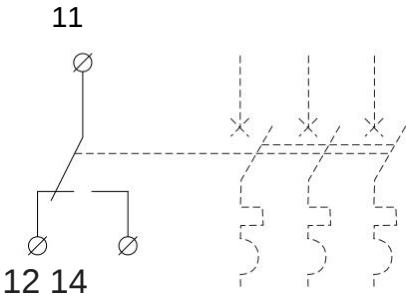
After cocking the switch mechanism, the signal contact turns off (returns to the initial state).



FMC

Type	F/AL
Compliance with the standard	IEC/EN 60947-5-1
Switching current, A Nominal	10
current (at a voltage of ~400V), A	1
Nominal current (at a voltage of ~230V), A	0.4
Nominal frequency f, Hz	50/60
Nominal voltage Un, V	230/400
Number of contact groups	1 C/O
Wire length	200 mm
Connection side Working position	from the left/right side any

Schematic diagram



Code order	Full name	Packaging, pcs		Unit	Gross weight, kg	
		Packaging	Box		Packaging	Box
F/AL1L	Signal contact F/AL1L to FMC1 (left)	1	1	0.040	0.040	0.040
F/AL1R	Signal contact F/AL1R to FMC1 (right)	1	1	0.040	0.040	0.040
F/AL2L	Signal contact F/AL2L to FMC2 (left)	1	1	0.040	0.040	0.040
F/AL2R	Signal contact F/AL2R to FMC2 (right)	1	1	0.040	0.040	0.040
F/AL3L	Signal contact F/AL3L to FMC3 (left)	1	1	0.040	0.040	0.040
F/AL3R	Signal contact F/AL3R to FMC3 (right)	1	1	0.040	0.040	0.040
F/AL4L	Signal contact F/AL4L to FMC4 (left)	1	1	0.040	0.040	0.040
F/AL4R	Signal contact F/AL4R to FMC4 (right)	1	1	0.040	0.040	0.040
F/AL5L	Signal contact F/AL5L to FMC5 (left)	1	1	0.040	0.040	0.040
F/AL5R	Signal contact F/AL5R to FMC5 (right)	1	1	0.040	0.040	0.040
F/AL6L	Signal contact F/AL6L to FMC6 (left)	1	1	0.040	0.040	0.040
F/AL6R	Signal contact F/AL6R to FMC6 (right)	1	1	0.040	0.040	0.040
F/AL7L	Signal contact F/AL7L to FMC7 (left)	1	1	0.040	0.040	0.040
F/AL7R	Signal contact F/AL7R to FMC7 (right)	1	1	0.040	0.040	0.040

Additional devices for FMC circuit breakers
The decoupler is independent of F/SH

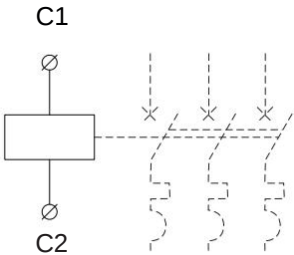
- The independent F/SH release is used for remote disconnection of the circuit breaker.

Algorithm of the work of the independent disconnecter:
When the specified voltage is applied to the independent disconnecter, the automatic switch is activated.



Type	F/SH
Compliance with the standard	IEC/EN 60947-5-1
Nominal frequency f, Hz	50/60
Nominal voltage Un, V	230/400
Operating range Ui	70-135%
Wire length	150 mm
Connection side	from the left/right side

Schematic diagram



FMC

	Code order	Full name Disconnecter	Nominal current In, A	Packaging, pcs		Gross weight, kg		
				Packaging Box		Unit Packaging Box		
FMC1	F/SH1230L	independent F/SH1 (left) to FMC1 AC230V 230		1	1	0.090	0.090	0.090
	F/SH1400L	Disconnecter independent F/SH1 (left) to FMC1 AC400V 400		1	1	0.090	0.090	0.090
	F/SH1230R	Disconnecter independent F/SH1 (right) to FMC1 AC230V 230		1	1	0.090	0.090	0.090
	F/SH1400R	Disconnecter independent F/SH1 (right) to FMC1 AC400V 400		1	1	0.090	0.090	0.090
FMC2	F/SH2230L	Disconnecter independent F/SH2 (left) to FMC2 AC230V 230		1	1	0.090	0.090	0.090
	F/SH2400L	Disconnecter independent F/SH2 (left) to FMC2 AC400V 400		1	1	0.090	0.090	0.090
	F/SH2230R	Disconnecter independent F/SH2 (right) to FMC2 AC230V 230		1	1	0.090	0.090	0.090
	F/SH2400R	Disconnecter independent F/SH2 (right) to FMC2 AC400V 400		1	1	0.090	0.090	0.090
FMC3	F/SH3230L	Disconnecter independent F/SH3 (left) to FMC3 AC230V 230		1	1	0.090	0.090	0.090
	F/SH3400L	Disconnecter independent F/SH3 (left) to FMC3 AC400V 400		1	1	0.090	0.090	0.090
	F/SH3230R	Disconnecter independent F/SH3 (right) to FMC3 AC230V 230		1	1	0.090	0.090	0.090
	F/SH3400R	Disconnecter independent F/SH3 (right) to FMC3 AC400V 400		1	1	0.090	0.090	0.090
FMC4	F/SH4230L	Disconnecter independent F/SH4 (left) to FMC4 AC230V 230		1	1	0.090	0.090	0.090
	F/SH4400L	Disconnecter independent F/SH4 (left) to FMC4 AC400V 400		1	1	0.090	0.090	0.090
	F/SH4230R	Disconnecter independent F/SH4 (right) to FMC4 AC230V 230		1	1	0.090	0.090	0.090
	F/SH4400R	Disconnecter independent F/SH4 (right) to FMC4 AC400V 400		1	1	0.090	0.090	0.090
FMC5	F/SH5230L	Disconnecter independent F/SH5 (left) to FMC5 AC230V 230		1	1	0.090	0.090	0.090
	F/SH5400L	Disconnecter independent F/SH5 (left) to FMC5 AC400V 400		1	1	0.090	0.090	0.090
	F/SH5230R	Disconnecter independent F/SH5 (right) to FMC5 AC230V 230		1	1	0.090	0.090	0.090
	F/SH5400R	Disconnecter independent F/SH5 (right) to FMC5 AC400V 400		1	1	0.090	0.090	0.090
FMC6	F/SH6230L	Disconnecter independent F/SH6 (left) to FMC6 AC230V 230		1	1	0.090	0.090	0.090
	F/SH6400L	Disconnecter independent F/SH6 (left) to FMC6 AC400V 400		1	1	0.090	0.090	0.090
	F/SH6230R	Disconnecter independent F/SH6 (right) to FMC6 AC230V 230		1	1	0.090	0.090	0.090
	F/SH6400R	Disconnecter independent F/SH6 (right) to FMC6 AC400V 400		1	1	0.090	0.090	0.090
FMC7	F/SH7230L	Disconnecter independent F/SH7 (left) to FMC7 AC230V 230		1	1	0.090	0.090	0.090
	F/SH7400L	Disconnecter independent F/SH7 (left) to FMC7 AC400V 400		1	1	0.090	0.090	0.090
	F/SH7230R	Disconnecter independent F/SH7 (right) to FMC7 AC230V 230		1	1	0.090	0.090	0.090
	F/SH7400R	Disconnecter independent F/SH7 (right) to FMC7 AC400V 400		1	1	0.090	0.090	0.090

Additional devices for FMC circuit breakers
F/UV undervoltage release

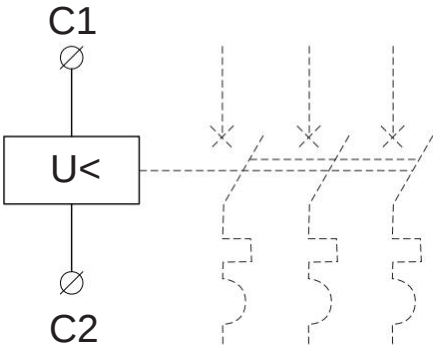
- F/UV undervoltage release
used to control voltage drop.



Type	F/UV
Compliance with the standard	IEC/EN 60947-5-1
Nominal voltage Un, V	230
Nominal frequency f, Hz	50/60
Normal operating mode Un, V	85-110%
Disconnection zone Un, V	35-70%
Prohibition on the inclusion of Un, V	ÿ35%
Connection side	from the left/right side

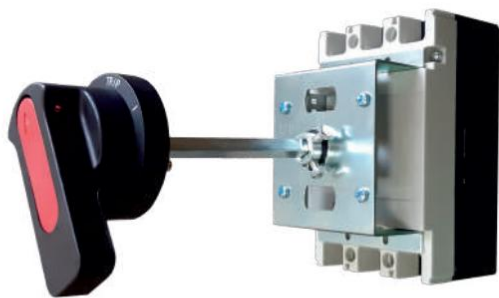
Schematic diagram

FMC



Code order	Full name	Packaging, pcs		Unit	Gross weight, kg	
		Packaging	Box		Packaging	Box
F/UV1230	Minimum voltage release F/UV1 to FMC1 AC230V230	1	1	0.200	0.200	0.200
F/UV2230	Minimum voltage release F/UV2 to FMC2 AC230V400	1	1	0.200	0.200	0.200
F/UV3230	Minimum voltage release F/UV3 to FMC3 AC230V230	1	1	0.200	0.200	0.200
F/UV4230	Minimum voltage release F/UV4 to FMC4 AC230V400	1	1	0.200	0.200	0.200
F/UV5230	Minimum voltage release F/UV5 to FMC5 AC230V230	1	1	0.200	0.200	0.200
F/UV6230	Minimum voltage release F/UV6 to FMC6 AC230V400	1	1	0.200	0.200	0.200
F/UV7230	Minimum voltage release F/UV7 to FMC7 AC230V230	1	1	0.200	0.200	0.200

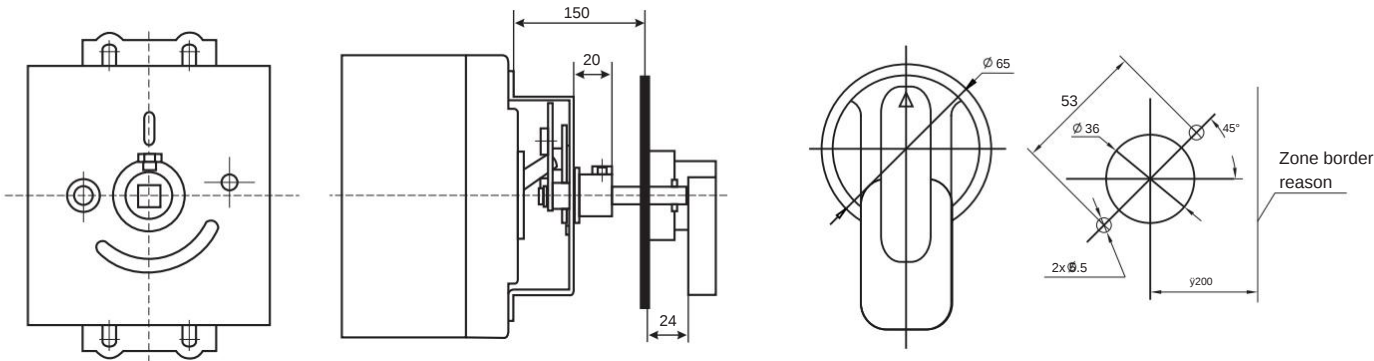
Manual remote-rotary drive F/HB



FMC switches can be used with a manual remote-rotary drive (F/HB). The handle of the manual drive is mounted on the door of the switchgear and through the lever is kinematically connected to the handle of the switch, which allows you to turn on and off the switch when the door of the switchgear is closed.

The length of the metal rod is 150 mm. It is possible to manufacture a rod of non-standard length to order, which is agreed individually with the customer.

Overall dimensions F/HB



Code order	Full name	Packaging, pcs		Unit	Gross weight, kg	
		Packaging	Box		Packaging	Box
F/HB1	F/HB1 manual remote rotary actuator for FMC 1	1	1	0.540	0.540	0.540
F/HB2	F/HB2 manual remote rotary actuator for FMC 2	1	1	0.600	0.600	0.600
F/HB3	F/HB3 manual remote rotary actuator for FMC 3	1	1	0.600	0.600	0.600
F/HB4	F/HB4 manual remote rotary actuator for FMC 4	1	1	1,300	1,300	1,300
F/HB5	F/HB5 manual remote rotary actuator for FMC 5	1	1	1,500	1,500	1,500
F/HB6	F/HB6 manual remote rotary actuator for FMC 6	1	1	1,700	1,700	1,700
F/HB7	F/HB7 manual remote rotary actuator for FMC 7	1	1	3,200	3,200	3,200

Additional devices for FMC circuit breakers

MROM remote control unit

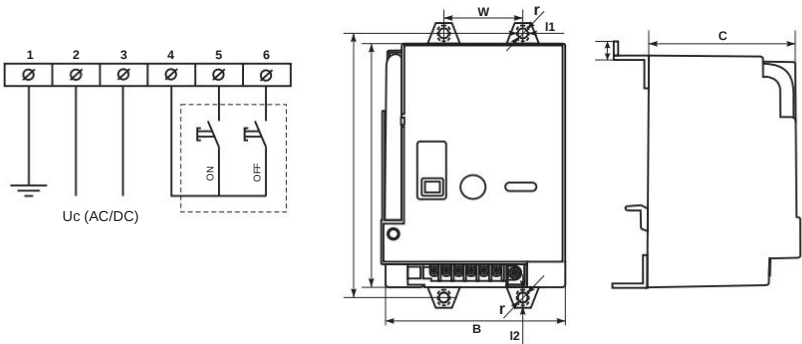
- Degree of protection: IP40.
- The possibility of quick installation on an automatic switch.
- Convenience of connecting control circuits and protection against contact with live parts.
- Increased safety of operation, provides manual and remote control of the switch.
- Remote control units are used in automatic control and automation systems work processes.



FMC

Switch type	Control voltage driven by Uc, V	Wear resistance (number of on/off cycles)	The value of the current for drive control, A	Consumed power, W
FMC1 FMC2 FMC3	AC 110-220V DC 100-220V DC 24V	14,000	0.5	14
FMC4 FMC5	AC 230V, AC 110V DC 220V, DC 110V DC 24V	6,000	2	35
FMC6 FMC7	AC 230/400V	6,000	7.5	200

Schematic diagram



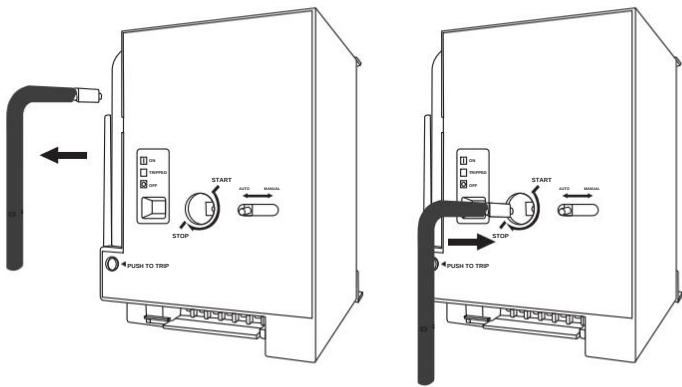
Overall dimensions of MROM

Type switch	Dimensions, mm									
	A	B	C	E	H	L	W	r	l1	l2
FMC1	100	72	77	117	10	17	25	5	4	6
FMC2	115	90	77	133	12	14	30			
FMC3	115	90	77	135	14	15	33	10	5	6
FMC4	173	126	113	196	25	20	45	7		
FMC5	174	127	113	200	22	20	57	7		
FMC6	174	127	113	243	40	40	70			
FMC7	175	127	114	305	20	35	67		6	5

Code order	Full name	Packaging, pcs		Unit	Gross weight, kg	
		Packaging	Box		Packaging	Box
MROM31	Remote control unit MROM 3/1 for FMC 1	1	1	0.960	0.960	0.960
MROM32	Remote control unit MROM 3/2 for FMC 2	1	1	1,450	1,450	1,450
MROM33	MROM 3/3 remote control unit for FMC 3	1	1	1,500	1,500	1,500
MROM34	MROM 3/4 remote control unit for FMC 4	1	1	3,890	3,890	3,890
MROM35	MROM 3/5 remote control unit for FMC 5	1	1	4,200	4,200	4,200
MROM36	MROM 3/6 remote control unit for FMC 6	1	1	4,300	4,300	4,300
MROM37	Remote control unit MROM 3/7 for FMC 7	1	1	4,700	4,700	4,700

Additional devices for FMC circuit breakers

MROM remote control unit

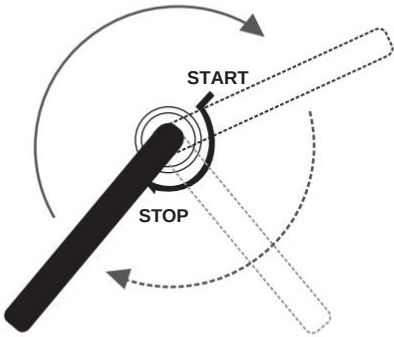


Automatic (remote) control mode: Turn the "manual/auto" switch to the "manual" position and control the switch using the control buttons.

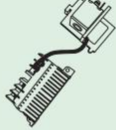
Manual control mode: Turn the "manual/auto" switch to the "auto" position and use the handle applied to the drive to turn the switch on or off.

Status indication: 0
- disabled; 1 -
enabled or disabled automatically.

 ON  OFF



Additional FMC circuit breaker devices are available

Types internal devices		FMC1 FMC2 FMC3	FMC4 FMC5	FMC6	FMC7
Additional contact F/AX		from the right/left sides	from the right/left sides	from the right/left sides	from the right/left sides
Additional contact (two blocks) F/AX		from the right/left sides	from the right/left sides	from the right/left sides	from the right/left sides
Signal contact F/AL		from the right/left sides	from the right/left sides	from the right/left sides	from the right/left sides
The release is independent F/SH		from the right/left sides	from the right/left sides	from the right/left sides	from the right/left sides
The uncoupling is minimal voltage F/UV		from the right side	from the right side	on the left side	from the right side

- Additional contact F/AX, signal contact F/AL, independent release F/SH, minimum voltage release F/UV **are installed when ordering** automatic switch.
- F/HB manual remote rotary actuator, MROM remote control unit is installed at **the installation site independently**. After all stages of installation, the automatic
- switch is sealed with a 3-year warranty.

