

お取引先 各位

件名：生産終了と代替品への切替えのご案内

拝啓 貴社益々ご清栄のこととお慶び申し上げます。
また平素は弊社機器をご愛顧頂きまして、厚く御礼申し上げます。
さて標記の件以下の通り連絡致しますので、内容ご確認の上ご理解頂きますよう宜しくお願い申し上げます。

敬具

- | | | |
|---|----------------|-----------------------------------|
| 1 | 対象製品 | FI型漏電ブレーカ |
| 2 | 対象型式 | FI-** |
| 3 | 代替品型式 | FRCmM-** |
| | | 置換え型式詳細につきましては弊社営業担当にお問合せ下さい。 |
| 4 | 生産終了品と代替品の仕様比較 | 添付資料参照下さい。 |
| 5 | 生産中止理由 | 生産機種見直しによる製品統廃合の為 |
| 6 | 代替品の注文 | 既に可能 |
| 7 | 現行品の注文 | 2020年3月31日まで受付け |
| 8 | 添付資料 | 生産終了品 : FI関係資料
代替品 : FRCmM関係資料 |
| 9 | その他 | その他、本切替えに関するご不明点は弊社営業担当までお問合せ下さい。 |

			PKNM	FIM	AZFIMP	FI ≤ 100 A	FI 125 A and Type B
Electrical							
Standards and regulations			IEC/EN 61009	IEC/EN 61009	IEC/EN 60947-2	IEC/EN 61008	IEC/EN 61008
Tripping		A	250 (8/20 μs) non-delayed surge resistant			Non-delayed, S	
Rated operational voltage	U_e	V AC	230	230/400	230/400	230/400	230/400
Operating limit values		V AC	196 - 253	196 - 440	196 - 440	184 - 440	184 - 440
Rated frequency	f	Hz	50				
Rated fault currents	$I_{\Delta n}$	mA	30, 300	30, 300	30, 300	30, 100, 300, 500	30, 100, 300, 500
Rated non-tripping current			$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$	$0.5 \times I_{\Delta n}$
Rated fault switching capacity	$I_{\Delta n}$	A	-	-	-	$I_n = 16-40$ A: 500 $I_n = 63$ A: 630 $I_n = 80$ A: 800 $I_n = 100$ A: 1000	$I_n = 125$ A: 1250 for type B: 60, 80 A: 800 40 A: 500 125 A: 1250
	230 V	kA	6	-	-	-	-
	400 V	kA	3	-	-	-	-
Sensitivity			DC and pulsed current				Pulsed current and AC/DC
Rated switching capacity	I_{cn}	kA	10	As fitted FAZ	As fitted AZ	10	10
Operational switching capacity	I_{cs}	kA	-	As fitted FAZ	-	-	-
Rated ultimate breaking capacity	I_{cu}		-	As fitted AZ	As fitted AZ	-	-
Rated short-circuit switching capacity			-	-	= I_{cu}	-	-
Rated operational current	I_e	A	6 - 40	40, 63	80, 125	16 - 100	40 - 125
Rated impulse withstand voltage	U_{imp}	kV	6 (1.2/50 μs)	-	4 (1.2/50 μs)	6	6
Characteristic			B, C	-	-	-	-
Maximum back-up fuse as short-circuit protective device		A gL	100	-	-	$I_n = 16 - 63$ A: 63 $I_n = 80$ A: 80 $I_n = 100$ A: 100	$I_n = 125$ A: 125 for type B: $I_n \leq 80$: 100 $I_n = 125$: 125
Selectivity class			3	-	-	-	-
Lifespan							
Electrical	Operations		> 4000	-	> 1500	> 4000	> 2000
Mechanical	Operations		-	-	> 10000	> 20000	> 5000
Mechanical							
Standard front dimension	mm		45	45	45	45	45
Device height	mm		80	90	90	80	85
Terminal protection			Busbar tag shroud to BGV A2				
Mounting width	mm		35 (2 SU)	70 (2 pole), 125 (4 pole)	95 (5.5 SU)	35 (2 space unit), 70 (4 space units)	70 (4 SU)
Mounting			-	Permanently screw-connected to FAZ	Screwed on to AZ (2 to 4 pole)	IEC/EN 60715 top-hat rail	IEC/EN 60715 top-hat rail
Protection type							
Circuit-breaker			IP20	-	-	-	-
Enclosed			IP40	IP40	IP40	IP40	IP40
Terminals top and bottom			Twin-purpose terminals	Lift terminals	Lift terminals	Twin-purpose terminals	Twin-purpose terminals
Terminal capacity							
Solid	mm ²		1 x 25	1 x (1 - 25)	2.5 - 50	1.5 - 35	1.5 - 50
Flexible	mm ²		-	1 x (0.75 - 16)	-	2 x 16	2 x (1.5 - 16)
Thickness of busbar material	mm		0.8 - 2	0.8 - 2	-	0.8 - 2	0.8 - 2
Admissible ambient temperature range	°C		-25 - +40	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Climatic proofing			IEC/EN 61009	IEC/EN 61009	IEC/EN 60068-2	IEC/EN 61008	IEC/EN 61008

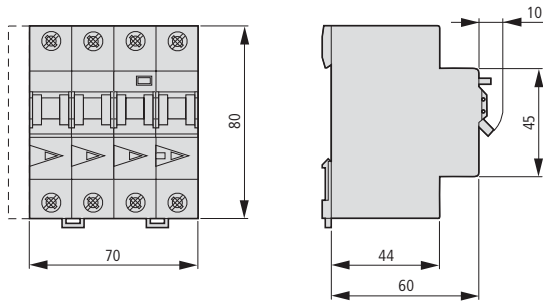


生産終了品：FI

Miniature circuit-breakers, residual-current circuit-breakers
mRB, FI, dRCM, Z-CC/2CO, PDIM

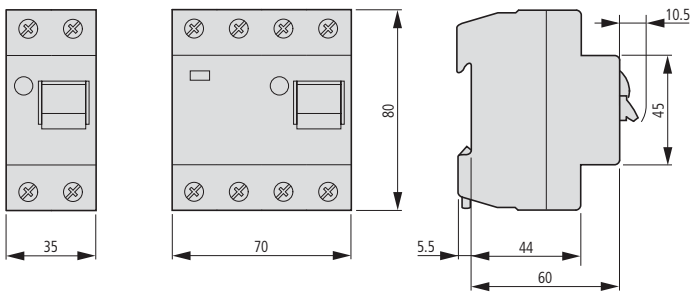
Combination FI/LS switches

mRB6..., mRB4...

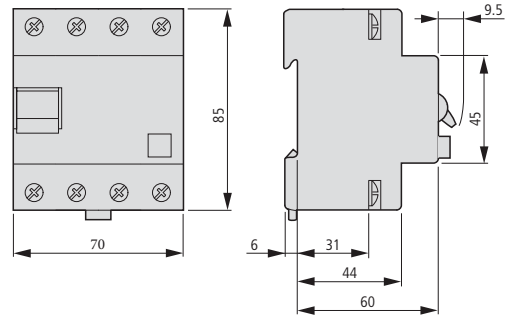


Residual-current devices

FI...

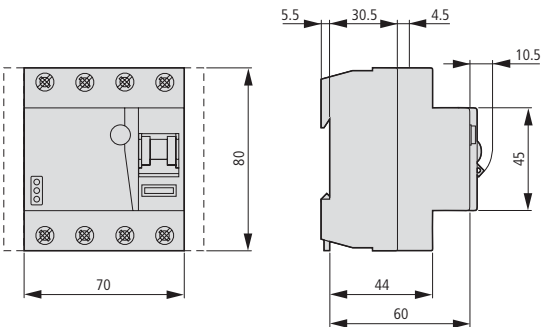


FI-125/4**



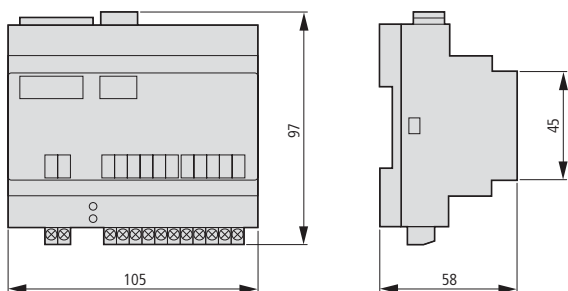
Residual-current devices

dRCM...



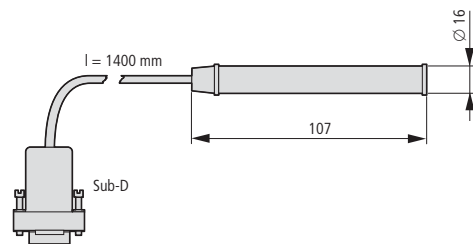
Remote monitoring unit

Z-CC/2CO



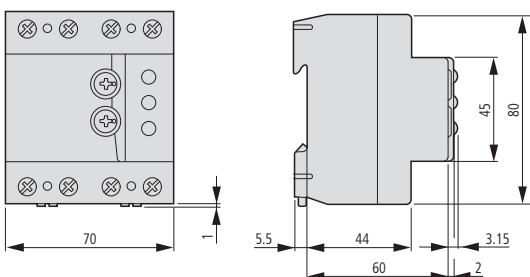
Temperature sensor

Z-CC/2CO-SE



Leakage current meter

PDIM



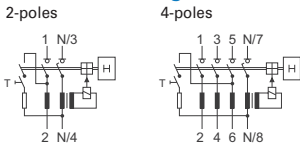
Technical Data

		FRCmM
Electrical		
Design according to		IEC/EN 61008 Type G acc. to ÖVE E 8601
Current test marks as printed onto the device		
Tripping		instantaneous
Type G , R		10 ms delay @ 50 Hz
Type S		40 ms delay @ 50 Hz - with selective disconnecting function
Type U (only 30 mA)		10 ms delay @ 50 Hz
Type U (except 30 mA)		40 ms delay @ 50 Hz - with selective disconnecting function
Rated voltage	U_n	240/415 V AC 50 Hz and/or 60 Hz – see individual article for operating frequency
Limits operation voltage test circuit		
2-poles		196 - 264 V~
4-poles 30 mA		196 - 264 V~
4-poles 30 mA -400		353 - 456 V~
4-poles 100, 300, 500 mA		196 - 456 V~
Rated tripping current	$I_{\Delta n}$	30, 100, 300, 500 mA
Sensitivity		AC and pulsating DC
Rated insulation voltage	U_i	440 V
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50 μ s)
Rated short circuit capacity	I_{cn}	10 kA with back-up fuse
Peak withstand current		
Type AC, A		250 A (8/20 μ s) surge current-proof
Type G, G/A		3 kA (8/20 μ s) surge current-proof, 10 ms delay
Type S, S/A		5 kA (8/20 μ s) surge current-proof, 40 ms delay
Rated breaking capacity or rated fault breaking capacity	I_m $I_{\Delta m}$	
$I_n = 16-40$ A		500 A
$I_n = 63$ A		630 A
$I_n = 80$ A		800 A
$I_n = 100$ A		1,000 A
Endurance		
electrical components		$\geq 4,000$ operating cycles
mechanical components		$\geq 20,000$ operating cycles
Mechanical		
Frame size		45 mm
Device height		80 mm
Device width		35 mm (2MU), 70 mm (4MU)
Mounting		quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715
Degree of protection, built-in		IP40
Degree of protection in moisture-proof enclosure		IP54
Upper and lower terminals		open mouthed/lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity		1.5 - 35 mm ² single wire 2 x 16 mm ² multi wire
Terminal screw		M5 (with slotted screw acc. to EN ISO 4757-Z2, Pozidriv PZ2)
Terminal torque		2 - 2.4 Nm
Busbar thickness		0.8 - 2 mm
Operation temperature		-25°C to +40°C (for higher values see table on ambient temperature)
Storage- and transport temperature		-35°C to +60°C
Resistance to climatic conditions		acc. to IEC/EN 61008
Contact position indicator		red / green
Tripping indicator		white / blue

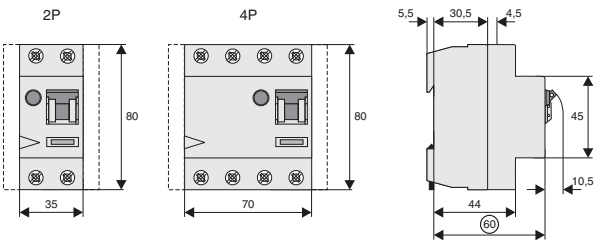
代替品：FRCmM

FRCmM- Technical Data

Connection diagram



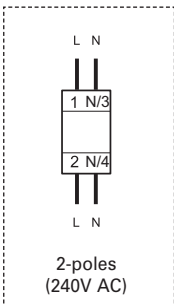
Dimensions (mm)



Correct connection

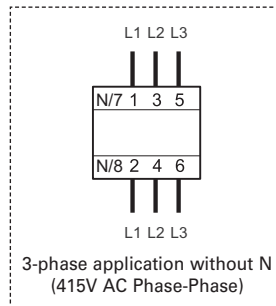
2-poles

30, 100, 300, 500mA Types:



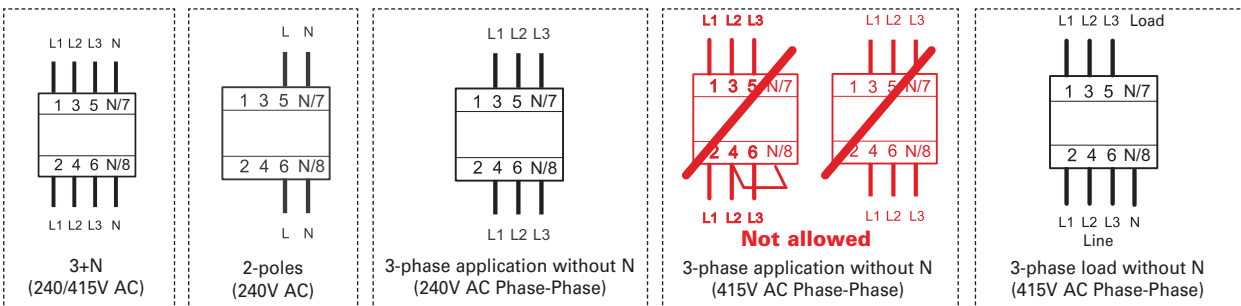
4-poles

30mA -400 Types:



4-poles

30mA Types:



100, 300, 500mA Types:

