RESIDUAL CURRENT RELEASE RELAY FIR


MC900001


MC900002


MC900003

SCHRACK INFO

- Residual current release relay in combination with external core-balance transformers. Switch-off can be achieved with undervoltage- and shunt voltage releases or a contactor.
- For dimensions, see page 712.

TECHNICAL DATA

Version corresponds to:	IEC 947-2, IEC 755, IEC 1008, IEC 1009			
Sensitivity:	Pulse current sensitive, type A			
Rated control supply voltage U_s (V):	230 +/- 20% (50/60 Hz)			
Rated operational power P_e (W):	3			
Relay contacts:	1 CO integrated			
Rated voltage of relay contacts:	250 V AC			
	100 V DC			
Rated current of the relay contacts:	6 A			
Rated residual currents:	FIR-003	$I_{\Delta n}$	A	0.03
	FIR-03	$I_{\Delta n}$	A	0.3
	FIR-5	$I_{\Delta n}$	A	0.03 – 0.1 – 0.3 – 0.5 – 1 – 3 – 5
Time delay:	FIR-003	t_v	s	0.02 (non-delayed)
	FIR-03	t_v	s	0.02 (non-delayed)
	FIR-5	t_v	s	0.02 – 0.1 – 0.3 – 0.5 – 1 – 3 – 5
Residual current warning with FIR-5	0.5 Hz: 25% – 50% $I_{\Delta n}$ (every 2 s)			
by flashing red LED, flashing frequency:	1 Hz: 50% – 75% $I_{\Delta n}$ (every 1 s)			
	2 Hz: 75% – <100% $I_{\Delta n}$ (2 x per second)			

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
RESIDUAL CURRENT RELEASE RELAY				
Rated residual current I_n = 0.03 A pulse current sensitive	FIR–003	9004840421538		MC900001
Rated residual current I_n = 0.3 A pulse current sensitive	FIR–03	9004840421545		**MC900002**
Rated residual current I_n = 0.03...5 A pulse current sensitive	FIR–5	9004840421552		**MC900003**
RESIDUAL CURRENT RELEASE RELAY WITH DISPLAY				
Rated residual current I_n = 0.03...3 A pulse current sensitive	FIRD–3			on request
Rated residual current I_n = 0.03...30 A pulse current sensitive	FIRD–30			on request

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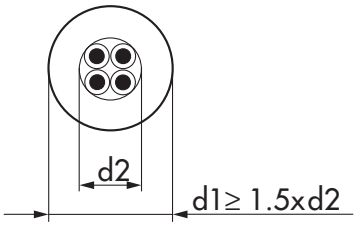
CORE-BALANCE TRANSFORMER FIR-WS, FIR-W, FIR-WR


MC900070


MC910305



d1 ... Internal diameter of transformer
d2 ... External diameter of cable

SCHRACK INFO

- The internal diameter of the transformer d1 must be 1.5x larger than the total diameter d2 of the inserted conductors.
- For load circuits with inrush current . 4 x I_n, magnetic shielding is required.
- For dimensions, see page 712.

Core-balance transformer, round

Maximum nominal current		Diameter	
Energy distribution (A)	Motor/capacitor (A)	Transformer type FIR-W-... d1(mm)	Maximum wire diameter d2 (mm)
50	50	20	13
150	100	30	20
150	100	35	23
400	200	70	47
600	250	105	70
1200	630	140	93
1800	800	210	140

DESCRIPTION	TYPE	EAN CODE	AVAILABLE	ORDER NO.
CORE-BALANCE TRANSFORMER, ROUND				
Inner diameter 20 mm	FIR-WS-20	9004840421569		MC900020
Inner diameter 30 mm	FIR-WS-30	9004840421576		**MC900030**
Inner diameter 35 mm	FIR-W-35	9004840421583		**MC900035**
Inner diameter 70 mm	FIR-W-70	9004840421590		**MC900070**
Inner diameter 105 mm	FIR-W-105	9004840421606		**MC900105**
Inner diameter 140 mm	FIR-W-140	9004840421613		**MC900140**
Inner diameter 210 mm	FIR-W-210	9004840421620		MC900210
CORE-BALANCE TRANSFORMER, RECTANGULAR				
70x175 mm (inner opening)	FIR-WR-175	9004840421637		**MC910175**
115x305 mm (inner opening)	FIR-WR-305	9004840421644		MC910305
150x350 mm (inner opening)	FIR-WR-350	9004840421651		MC910350
SHIELDING FOR ROUND CORE-BALANCE TRANSFORMER				
For FIR-W-35		9004840465471		MC900010
For FIR-W-70		9004840465488		MC900011
For FIR-W-105		9004840465495		MC900012
For FIR-W-140		9004840465501		MC900013
For FIR-W-210		9004840465518		MC900014