



RCCB's - Residual current circuit breakers

IEC 61008

Series EHF1	For pulsating DC and AC fault currents
Series EFI/DFI	For sinusoidal AC fault currents
Series ESHFI	Time delayed trip for pulsating DC and AC fault currents
Series EFI...S	For sinusoidal AC fault currents. Operates at -25°C
Series EHF1...i	High immunity for pulsating DC and AC fault current
Series EHSFI...i	High immunity time delayed trip for pulsating DC and AC fault current

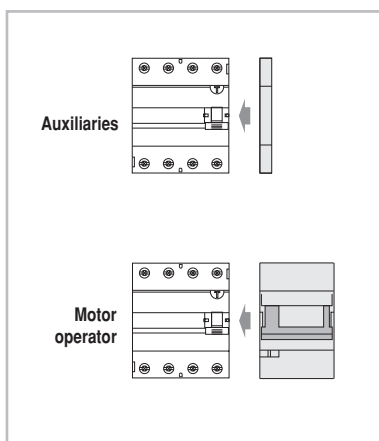
Applications



Approval / Marking



Add-on devices



- Auxiliary contacts ● pg A.24
- Shunt trip ● pg A.24
- Undervoltage release ● pg A.24
- Panel board switch ● pg A.24
- Motor operator ● pg A.24

- Busbars ● chapter C
- Dimensions ● pg B.10

Performances

Thermal setting I_n	(A)	16, 25, 40, 63, 80, 100
Residual current $I_{\Delta n}$	(mA)	10, 30, 100, 300, 500
Rated voltage AC U_n	(V)	2P: 240 4P: 240/415
Minimum operating voltage U_{Bmin}	(V)	2P: 117 4P: 205
Mechanical/electrical endurance		20000/10000
Tropicalisation acc.to IEC 60068-2-28/2-30 and DIN 40046		95%RH at 55°C
Terminal capacity flexible/rigid cable (mm²)		35-50 ⁽¹⁾
Poles		2, 4
Nuisance tripping resistance		Type A, AC: 250A 8/20μs; 200A 0.5μs - 100kHz Type S: 3000A 8/20μs Type Ai: 3000A 8/20μs Type Si: 5000A 8/20μs
Ambient temperature	(°C)	Type AC: -5 upto 40 Type A: -25 upto 40
Weight	(g)	2P: 220 4P: 385

(1) Series DFI: 25-35 mm²

Short-circuit capacity

Acc. to IEC 61008

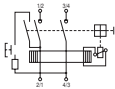
Making and breaking capacity	$I_m=500A$
Residual making and breaking capacity	$I_{\Delta m} \geq 500A$ from 16 upto 40A $I_{\Delta m}=10I_n$ from 63 upto 100A
Short-circuit capacity	$I_{nc}=10000A$ at 240/415V fuse 80A gG

Series EHF1 - EFI - ESHFI

Resistance to surge currents up to 250A

2P

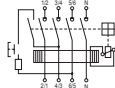
127-230V



Rated current [A]	Rated fault current [mA]	EHF1 Type A		EFI Type AC		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
16	10	EHF16/010-2	604941	EFI16/010-2	604446	6
25	30	EHF25/030-2	604942	DFI25/030-2	607130	6
40	30	EHF40/030-2	604943	DFI40/030-2	607131	6
63	30	EHF63/030-2	604944	EFI63/030-2	604449	6
80	30	EHF80/030-2	604945	EFI80/030-2	604450	6
100	30	EHF100/030-2	604946	EFI100/030-2	604451	6
25	100	EHF25/100-2	604947	EFI25/100-2	604455	6
40	100	EHF40/100-2	604948	EFI40/100-2	604456	6
63	100	EHF63/100-2	604949	EFI63/100-2	604457	6
80	100	EHF80/100-2	604950	EFI80/100-2	604458	6
100	100	EHF100/100-2	604951	EFI100/100-2	604459	6
25	300	EHF25/300-2	604416	DFI25/300-2	607132	6
40	300	EHF40/300-2	604417	DFI40/300-2	607133	6
63	300	EHF63/300-2	604418	EFI63/300-2	604465	6
80	300	EHF80/300-2	604419	EFI80/300-2	604466	6
100	300	EHF100/300-2	604420	EFI100/300-2	604467	6
25	500	EHF25/500-2	604426	EFI25/500-2	604468	6
40	500	EHF40/500-2	604427	EFI40/500-2	604469	6
63	500	EHF63/500-2	604428	EFI63/500-2	604470	6
80	500	EHF80/500-2	604429	EFI80/500-2	604471	6
100	500	EHF100/500-2	604430	EFI100/500-2	604472	6

4P

230-400V

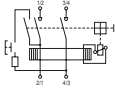


25	30	EHF25/030-4	604478	EFI25/030-4	604523	3
40	30	EHF40/030-4	604479	EFI40/030-4	604524	3
63	30	EHF63/030-4	604480	EFI63/030-4	604525	3
80	30	EHF80/030-4	604481	EFI80/030-4	604526	3
100	30	EHF100/030-4	604482	EFI100/030-4	604527	3
25	100	EHF25/100-4	604483	EFI25/100-4	604531	3
40	100	EHF40/100-4	604484	EFI40/100-4	604532	3
63	100	EHF63/100-4	604485	EFI63/100-4	604533	3
80	100	EHF80/100-4	604486	EFI80/100-4	604534	3
100	100	EHF100/100-4	604487	EFI100/100-4	604535	3
25	300	EHF25/300-4	604493	EFI25/300-4	604539	3
40	300	EHF40/300-4	604494	EFI40/300-4	604540	3
63	300	EHF63/300-4	604495	EFI63/300-4	604541	3
80	300	EHF80/300-4	604496	EFI80/300-4	604542	3
100	300	EHF100/300-4	604497	EFI100/300-4	604543	3
25	500	EHF25/500-4	604503	EFI25/500-4	604544	3
40	500	EHF40/500-4	604504	EFI40/500-4	604545	3
63	500	EHF63/500-4	604505	EFI63/500-4	604546	3
80	500	EHF80/500-4	604506	EFI80/500-4	604547	3
100	500	EHF100/500-4	604507	EFI100/500-4	604548	3

Resistance to surge currents up to 500A

2P

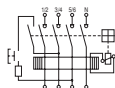
127-230V



		ESHFI Type S				
25	300	ESHFI25/300-2	604421	-	-	6
40	300	ESHFI40/300-2	604422	-	-	6
63	300	ESHFI63/300-2	604423	-	-	6
80	300	ESHFI80/300-2	604424	-	-	6
100	300	ESHFI100/300-2	604425	-	-	6
25	500	ESHFI25/500-2	604431	-	-	6
40	500	ESHFI40/500-2	604432	-	-	6
63	500	ESHFI63/500-2	604433	-	-	6
80	500	ESHFI80/500-2	604434	-	-	6
100	500	ESHFI100/500-2	604435	-	-	6

4P

230-400V



25	300	ESHFI25/300-4	604498	-	-	3
40	300	ESHFI40/300-4	604499	-	-	3
63	300	ESHFI63/300-4	604500	-	-	3
80	300	ESHFI80/300-4	604501	-	-	3
100	300	ESHFI100/300-4	604502	-	-	3
25	500	ESHFI25/500-4	604508	-	-	3
40	500	ESHFI40/500-4	604509	-	-	3
63	500	ESHFI63/500-4	604510	-	-	3
80	500	ESHFI80/500-4	604511	-	-	3
100	500	ESHFI100/500-4	604512	-	-	3

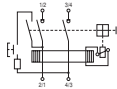
Series EHF...i - EHSF...i

High immunity
to surge currents



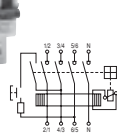
2P

127-240V



4P

240-400V



Rated current [A]	Rated fault current [mA]	EHFI Type Ai		EHSFI Type Si		Pack.
		Cat. No.	Ref. No.	Cat. No.	Ref. No.	
25	30	EHFI 25/030-2i	605120	-	-	6
40	30	EHFI 40/030-2i	605121	-	-	6
63	30	EHFI 63/030-2i	605122	-	-	6
25	300	-	-	ESHFI 25/300-2i	605185	6
40	300	-	-	ESHFI 40/300-2i	605186	6
63	300	-	-	ESHFI 63/300-2i	605187	6
80	300	-	-	ESHFI 80/300-2i	605188	6
100	300	-	-	ESHFI 100/300-2i	605189	6
25	30	EHFI 25/030-4i	605123	-	-	3
40	30	EHFI 40/030-4i	605124	-	-	3
63	30	EHFI 63/030-4i	605125	-	-	3
25	300	-	-	ESHFI 25/300-4i	605205	3
40	300	-	-	ESHFI 40/300-4i	605206	3
63	300	-	-	ESHFI 63/300-4i	605207	3
80	300	-	-	ESHFI 80/300-4i	605208	3
100	300	-	-	ESHFI 100/300-4i	605209	3

				EFI...S Type AC		
Operates at -25°C						
25	30	-	-	DFI25/030-2S	607155	6
40	30	-	-	DFI40/030-2S	607156	6
63	30	-	-	EFI63/030-2S	604567	6
25	300	-	-	DFI25/300-2S	607157	6
40	300	-	-	DFI40/300-2S	607158	6
63	300	-	-	EFI63/300-2S	604570	6
25	30	-	-	EFI25/030-4S	604571	3
40	30	-	-	EFI40/030-4S	604572	3
63	30	-	-	EFI63/030-4S	604573	3
25	300	-	-	EFI25/300-4S	604574	3
40	300	-	-	EFI40/300-4S	604575	3
63	300	-	-	EFI63/300-4S	604576	3

Dimensions

