

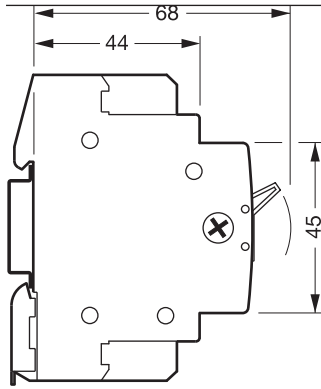




280 Isolating Switches
281 HRC Fuse Carriers
282 Isolators 40A-160A
283 Isolators up to 1600A
284 Switch Disconnectors

286 Technical Data

Isolating Switches



Description
for use as a switch
disconnecter in all types of
circuit.

Complies with :
- IEC 60947-3 (In 16 to 100A)
- EN 669.1 (In 16 to 63A)

Technical data
In : 16, 25, 32A
AC 21A duty specification
connection capacity:
10□ rigid cables
6□ flexible cables

In : 40, 63, 80A (1 pole)
AC 22B duty specification
connection capacity:
25□ rigid cables
16□ flexible cables

In : 80A (2 to 4 poles), 100A
AC 22B duty specification
connection capacity:
50□ rigid cables
35□ flexible cables

Designation	Characteristics	Width in 17.5mm	Pack qty.	Cat. ref.
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SB 140

Designation	Characteristics	Width in 17.5mm	Pack qty.	Cat. ref.
Single pole 	1 x 16A 250V~	1	12	SB 116
	1 x 16A 250V~ with pilot light	1	1	SB 116V
	1 x 25A 250V~	1	12	SB 125
	1 x 25A 250V~ with pilot light	1	1	SB 125V
	1 x 32A 250V~	1	1	SB 132
	1 x 32A 250V~ with pilot light	1	1	SB 132V
	1 x 40A 250V~	1	1	SB 140
	1 x 63A 250V~	1	1	SB 163
	1 x 80A 250V~	1	12	SB 180
	1 x 100A 250V~	1	1	SB 199



SB 232

Designation	Characteristics	Width in 17.5mm	Pack qty.	Cat. ref.
Double pole 	2 x 16A 250V~	1	1	SB 216
	2 x 16A 250V~ with pilot light	1	1	SB 216V
	2 x 25A 250V~	1	12	SB 225
	2 x 25A 250V~ with pilot light	1	1	SB 225V
	2 x 32A 250V~	1	1	SB 232
	2 x 32A 250V~ with pilot light	1	1	SB 232V
	2 x 40A 250V~	1	1	SB 240
	2 x 63A 250V~	1	6	SB 263
	2 x 80A 250V~	1	1	SB 280
	2 x 100A 250V~	1	1	SB 299



SB 240

Designation	Characteristics	Width in 17.5mm	Pack qty.	Cat. ref.
Triple pole 	3 x 16A 400V~	2	1	SB 316
	3 x 25A 400V~	2	1	SB 325
	3 x 32A 400V~	2	1	SB 332
	3 x 32A 400V~ large terminals	3	1	SB 332Q
	3 x 40A 400V~	3	1	SB 340
	3 x 63A 400V~	3	1	SB 363
	3 x 80A 400V~	3	1	SB 380
	3 x 100A 400V~	3	1	SB 399



SB 399

Designation	Characteristics	Width in 17.5mm	Pack qty.	Cat. ref. neutral right	Cat. ref. neutral left
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Four pole 	4 x 16A 400V~	2	1	SB 416	SB 416F
	4 x 25A 400V~	2	1	SB 425	SB 425F
	4 x 32A 400V~	2	1	SB 432	SB 432F
	4 x 40A 400V~	4	1	SB 440	SB 440F
	4 x 63A 400V~	4	1	SB 463	SB 463F
	4 x 80A 400V~	4	1	SB 480	SB 480F
	4 x 100A 400V~	4	1	SB 499	SB 499F

HRC fuse carrier range - L58

Description
Protection and control of circuits against overloads and short-circuits in commercial and industrial distribution systems.

Technical data
For cylindrical fuses
22 x 58mm
125A- 690V AC
50-60 Hz

Complies with IEC947-3

Fuse carriers type LS 7xx can be equipped with following accessories :
- indicating light : for indication of the fuse status.
- auxiliary switch : for indication of fuse blown condition

LR type will not accept accessories

Connection capacity :
50□ rigid cables
35□ flexible cables

□ For technical details see page 286



LS 701



LS 703



LS 770



LS 672



L 065

Designation	Description	Width in 17.5mm	Pack qty.	LR 7xx cat.ref.	LS 7xx cat.ref.
Single pole carrier	1 phase	2	1	LR 701	LS 701
Two pole carrier	2 phases	4	1	LR 702	LS 702
	1 phase + neutral link	4	1	LR 712	LS 712
Three pole carrier	3 phases	6	1	LR 703	LS 703
Four pole carrier	3 phases +neutral link	8	1	LR 704	LS 704
Auxiliary switch	for fuses 22 x 58 with striker pins	5A - 250V ~ 1 c/o contact single pole	1		LS 770
	for fuses 22 x 58 with striker pins	three pole	1		LS 771
Indicating light	230V ~ indication of blown or missing fuse link		1		LS 672
Adaptor for assymetric rails for series L51 and L58			20		L 065

- Modular Isolators for DIN Rail or mounting plate
- Handle directly on the device, lockable when OFF
- I_n : 40 to 160 A
- IP Rating: IP 20
- certified to turn OFF and ON under load and has a safety function in all electrical surge circuits

Characteristics:

- double disconnection per phase
- 40, 63 A with visible status display
- 80 bis 160 A visible disconnection

Application:

- in all Hager boards and cabinets
- Accessories:
- Handle on cabinet door
 - Auxilliary switch

Norm:


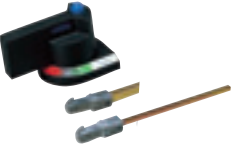

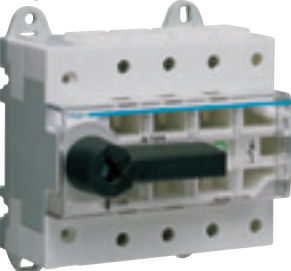




EN 60 947-3 / DIN VDE 0660 Part 107

Copy of documents on request

Connection:

Cage Terminals
 40 A: max. 16 mm²
 63 A: max. 35 mm²
 80 to 125 A: max. 50 mm² massiv
 Connection with lugs for HA307 (160A)
 Cage Terminals HZ072 in accessories for max. 70 mm² massiv

For further technical details, see page 288

	Description	Characteristics	Width in mm	Modular spaces	Pack qty.	Cat. ref.
 HA302	3 Pole isolator with visible disconnection AC 22 - 690 V~	I_n 40 A Insulation Voltage Ui: 800 V~	36	2	1	HA302
		I_n 63 A Insulation Voltage Ui: 800 V~	54	3	1	HA303
 HZ001	Handle for mounting on the cabinet door	for I_n 40 A to 63 A Included in delivery: - Axial extension, 200 mm - Handle with frame for door mounting			1	HZ001
 HZ021	Auxilliary switch 1 open, 1 close	I_n 10 A - 690 V~ for isolator 40 to 63 A			1	HZ021
 HA305	3 Pole Isolator with visible disconnection AC 22 - 400 V~	I_n 80 A Insulation Voltage Ui: 690 V~	108	6	1	HA304
		I_n 100 A Insulation Voltage Ui: 690 V~	108	6	1	HA305
		I_n 125 A Insulation Voltage Ui: 690 V~	108	6	1	HA306
		I_n 160 A Insulation Voltage Ui: 750 V~	142	8,5	1	HA307
 HZ072	Cage terminals for HA307 solid/flexible with cable lugs from 10-95 mm ²	1 Set = 3 pcs.			1	HZ072
 HZ062	Terminal covers for HA307				1	HZ062
 HZ022	Rotary drive for assembly on cabinet door	for I_n 80 A to 160 A Included in delivery: - Axial extension, 200 mm - Handle with frame for door mounting			1	HZ002
 HZ022	Auxiliary contact 1 open, 1 close	I_n 5 A - 250 V~ für Lasttrennschalter 80 bis 160 A			1	HZ022

- Isolators ready for fitting into Univers N system (see Univers Chapter)
- Rotary drive directly on device
- I_n : 160 to 1600 A
- certified to switch on and disconnect under load and a safety disconnection function for all low voltage circuits

complies with norm:
EN 60947-3 / DIN VDE 0660 Part 107
Documentation on request

Application:
fitting into Univers N kit system
Pack quantity 1

for technical details see page 292



HA358



HZ023



HZ003



HZ033



HZ053



HZ074



HZ184

Description	Characteristics	I_n/A	Cat. ref. 3-pole	Cat. ref. 4-pole		
Isolator manually used	Insulation voltage U_i : 750 V~ für HA352, HA354 800 V~ für HA357 1000 V~ für HA358	160 250	HA352 HA354	HA452 HA454		
	AC 23 - 400 V~ 3 pole or 4 pole HA357, AC 22 - 400 V~ Screw connection: I_n 160 A: 95 mm ² max. I_n 250 A: 150 mm ² max. I_n 400 A: 240 mm ² max. I_n 630 A: 2 x 150 mm ² min. 2 x 300 mm ² max.	1 Lockable handle, fastening screws and nuts, Assembly in univers kits: HA352 in UK21R1 HA354/357 in UK21S1 HA358 in UK42T1	400 630 800 1250 1600	HA357 HA358 HA360 HA362 HA364	HA457 HA458 	
	Auxiliary contact 2 changeover	for HA352 to HA364 I_n 16 A - 250 V~ $\cos \varphi = 0,8$ mechanical life span: 10^7 switches			HZ023	
	Rotary Drive for cabinet door univers N	for HA352 - HA358, 20 mm for HA360 - HA364 longer shaft for HZ003, 320 mm longer shaft for HZ004, 320 mm			HZ003 HZ004 HZ013 HZ014	
	Protective cover for range of HA switches for top and bottom	- HA352		HZ033	HZ043	
		- HA354, HA357		HZ034	HZ044	
- HA358			HZ035	HZ045		
- HA360			HZ036	HZ046		
- HA362, HA364			HZ037	HZ047		
Terminal Covers to protect the connections (IP2X), for top and bottom	HA352	top bottom	HZ053 HZ053B	HZ063		
	HA354, HA357	top bottom	HZ054 HZ054B	HZ064		
	HA358	top	HZ055	HZ065		
		bottom	HZ055B			
Description	I_n/A	Connection cross section solid [mm²]	Cat. ref.			
			Cage terminals 3 pole meant for Al and Cu	160 250 400 630	16 - 95 16 - 185 50 - 240 70 - 300	HZ073 HZ074 HZ075 HZ076
			Double terminal set makes connection of 2 cage terminals per pole possible	160 250 400 630	16 - 95 16 - 185 50 - 300 70 - 300	HZ183 HZ184 HZ185 HZ186

Functions:

The HFD Series of Hager isolators are manually operated multipolar fuse combination switches. They break or switch off on load and provide safety isolation and protection against over current for any low voltage electrical circuit.

- Double break by phase (top and bottom of fuse)
- Protection against overcurrent by fuse circuit-breakers with high breaking capacity (100 kA eff.)
- IP2 protection with terminal shrouds
- Compact
- TEST position for testing control circuits without power using U type auxiliary contacts.

Complies with standards:

- IEC 60947-3
- IEC 60269-1
- IEC 60269-2
- EN 60947-3
- DIN 43620
- VDE 0636-10
- VDE 0660 Part 107



HFD312

<i>Description</i>	<i>No. poles</i>	<i>I_n/A</i>	<i>Fuse sizes</i>	<i>Length in mm</i>	<i>Modules 17.5mm</i>	<i>Cat. ref.</i>
3 pole	3	63	000	120	min. 24	HFD306
	3	125	00	120	min. 24	HFD312
	34	160	000	120	min. 24	HFD316
	3	250	1	120	min. 72	HFD325
	3	400	2	120	min. 72	HFD340
	3	630	3	120	min. 96	HFD363
4 pole	4	63	000	120	min. 24	HFD406
	4	125	00	120	min. 24	HFD412
	4	160	00	120	min. 24	HFD416
	4	250	1	120	min. 72	HFD425
	4	400	2	120	min. 72	HFD440
	4	630	3	120	min. 96	HFD463

Description	Details	Cat.ref.
Shaft extension	200 mm - 63 to 400 A	HZC101
	320 mm - 63 to 400 A	HZC102
	200 mm - 630 A	HZF102

Description	Switch type	Colour	Cat.ref.
Interlocked handle	63 A	black	HZC001
	100 to 400 A	black	HZC002
	630 A	black	HZF001



HZC001



HZC002

Description	Type	Cat.ref.
Auxiliary contacts	NO	HZF301
	suitable for switches 63 to 630A	NC HZF302

Description	No. poles	I_n/A	Cat.ref.
Set of IP20 Terminal Shrouds top or bottom	3	100 to 160 A	HZF202
	4		HZF203
	3	250 to 400 A	HZF204
	4		HZF205
	3	630 A	HZF206
	4		HZF207

Description	No. poles	I_n/A	Cat.ref.
Neutral Link	3	63 A	HZF501
	4	125 A / 160 A	HZF502
	3	250 A	HZF503
	4	400 A	HZF504
	4	630 A	HZF505

Neozed switch fuses

Description	Technical data	Module spaces	Pack qty.	Cat.ref.
Neozed Switch fuse sealable with switch lock and screw cap up to 35 mm ² max.	1 x 63 A	1.5	1	L71H
	3 x 63 A	4.5	1	L73H



L73H