

ISOLATORS-HR Series

■ HIGH RATING HINGED SHEET STEEL ENCLOSURE - 200A-1600A

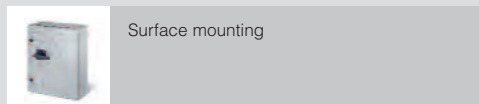


■ REFERENCE STANDARDS

EN 60947-3
Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.

EN 60529
Degrees of protection provided by enclosure.

■ VERSIONS



Surface mounting

■ TECHNICAL CHARACTERISTICS

Polarity:	3P-3P+N
Rated current:	160A-200A-250A-315A-400A 500A-630A-800A-1000A 1250A-1600A (*)
Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-5°C +40°C
Min-Max. operating ambient temperature:	-25°C +60°C
Material:	Sheet steel
IK degree:	IK10
Finishing/colour:	Polyester powder grey RAL7032

3P+N with late break early make neutral pole.
Padlockable handle.
Equipped with door locking.
Full current neutral pole up to 1250A.
(*) Neutral pole 1250A
Full current neutral pole available on request.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

■ CABLE INLETS

Hinged sheet steel enclosure 3P, 3P+N top/bottom entries

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries	
				Top	Gland plate
1	200-250	3-3P+N	500x300x150	Bottom	Gland plate
				Top	Gland plate
2	315-400-500-630	3-3P+N	600x400x200	Bottom	Gland plate
				Top	Gland plate
3	800-1000-1250	3-3P+N	700x500x250	Bottom	Gland plate
				Top	Gland plate
4	1600	3-3P+N	1000x600x300	Bottom	Gland plate
				Top	Gland plate

Perforated or threaded entries on request.

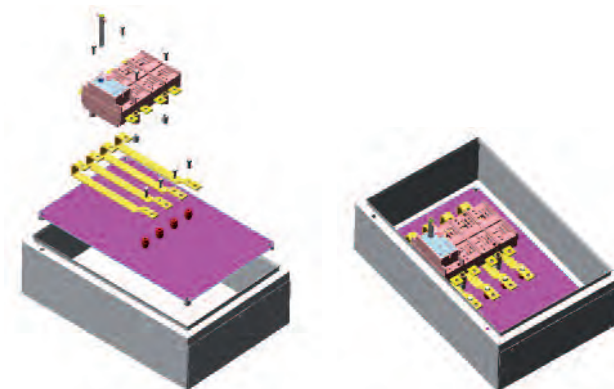
Hinged sheet steel enclosure 3P, 3P+N bottom/bottom entries

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries	
				Top	Gland plate
1	200-250	3-3P+N	500x300x150	Bottom	Gland plate
				Bottom	Gland plate
2	315-400	3-3P+N	600x400x200	Bottom	Gland plate
				Bottom	Gland plate
3	500	3-3P+N	700x500x250	Bottom	Gland plate
				Bottom	Gland plate
4	630-800	3-3P+N	800x800x300	Bottom	Gland plate
				Bottom	Gland plate
5	1000-1250-1600	3-3P+N	1000x1000x800	Bottom	Gland plate
				Bottom	Gland plate

■ CONNECTIONS

BOTTOM/BOTTOM ENTRIES

Equipped with an insulated bar system which allows the wiring both incoming and outgoing cables from the bottom side without cable bending.



■ APPLICATION EXAMPLES



■ TECHNICAL DATA HIGH RATING SWITCH DISCONNECTORS 3P AND 3P+N

		160A	200A	250A	315A	400A	500A	630A	800A	1000A	1250A	1600A(*)		
Rated insulation voltage	Ui	(V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Rated impulse withstand voltage	Uimp	(kV)	12	12	12	12	12	12	12	12	12	12		
Thermal current	Ith/Ithe	(A)	160	200	250	315	400	500	630	800	1000	1250	1600(*)	
Rated operational current – Ie	AC21A	415V (A)	160	200	250	315	400	500	630	800	1000	1250	1600	
	Resistive loads, including moderate overloads	500V (A)	160	200	250	315	400	500	630	800	1000	1250	1600	
		690V (A)	160	200	250	315	400	500	630	800	1000	1250	1250	
		AC22A	415V (A)	160	200	250	315	400	500	630	800	1000	1250	1600
	Mixed resistive and inductive loads, including moderate overloads	500V (A)	160	200	250	315	400	400	630	800	1000	1250	1250	
		690V (A)	160	200	250	315	400	400	630	800	1000	1250	400	
	AC23A	415V (A)	160	200	250	315	400	500	630	800	1000	1250	1250	
		Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	500V (A)	125	125	200	250	315	315	500	800	800	800	800
			690V (A)	100	160	160	200	250	250	400	400	400	400	400
	AC23A Rated operational power	415V kW	85	105	130	165	200	210	330	420	525	630	630	
Rated making capacity	415V AC23 (A)	1600	2000	2500	3150	4000	4000	6300	6300	6300	6300	6300		
Rated breaking capacity	415V AC23 (A)	1280	1600	2000	2520	3200	3200	5040	5040	5040	5040	5040		
Short circuit withstand current 1sec	(kA)	8	8	8	13	13	13	26.5	26.5	26.5	26.5	26.5		
Short circuit withstand current 0.25 sec	(kA)	16	16	16	26	26	26	53	53	53	53	53		
Short circuit making capacity	415V (kA)	13.5	13.5	13.5	26	26	26	30	30	30	30	30		
Rated fuse short-circuit current	Back up fuse	(A)	160	200	250	315	400	400	630	800	1000	1000	-	
	R.M.S value	(kA)	100	50	50	50	50	50	50	100	100	100	-	
	Peak value	(kA)	16	20	25	25	30	30	40	70	90	100	-	
	Cable section	mm ²	120	120	120	185	2x150	2x150	2x185	2x240	-	-	-	
	Bars dimension	mm	20x5	20x5	20x5	2x (25x4)	2x (25x4)	2x (25x4)	2x (32x6)	2x (50x5)	2x (50x6)	2x (50x8)	2x (80x102)	

(*) Neutral pole 1250A.
Full current neutral pole available on request.

■ AUXILIARY CONTACTS

		590.PL00400x	590.PL005	590.PL0060xx
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	1A	1A

Break before main contacts switches.