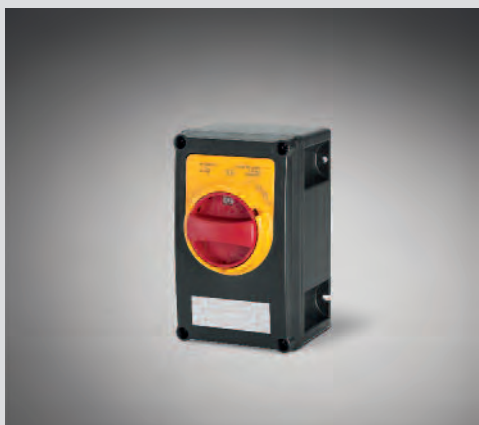


# ISOLATORS-HD Series



## HEAVY DUTY ENGINEERING THERMOPLASTIC INSULATED ENCLOSURE 20A-40A



### VERSION



Surface mounting

## 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.

## TECHNICAL CHARACTERISTICS

Polarity:	<b>2P-3P-3P+N</b>
Rated current:	<b>20A-32A-40A</b>
Protection degree:	<b>IP66</b>
Operating ambient temperature according to the reference standard:	<b>-5°C +40°C</b>
Min-Max. operating ambient temperature:	<b>-40°C +60°C</b>
Material:	<b>High performance engineering thermoplastic</b>
IK degree:	<b>IK10</b>
Glow wire test:	<b>960°C (enclosure and switch)</b>
Self extinguishing UL94:	<b>5VA</b>
Colour:	<b>Grey RAL7004</b>
Insulation class:	<b>Class II (double insulation) <input checked="" type="checkbox"/></b>

3P+N with late break early make neutral pole.  
Padlockable handle.  
Equipped with door locking.

Outstanding resistance to UV radiation, exceptional reliability under environmental stress and use at both low and high ambient temperatures (-40°C +60°C).

### RESISTANCE TO ATMOSPHERIC AGENTS

The structure and materials used also make HD ISOLATOR a product suited for the most extreme environmental conditions. The special silicon gasket and the IP65 degree guarantees an excellent seal against the entry of solid objects or liquids into the casings even after a long term installation.

### 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	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

## CABLE INLETS

Heavy duty engineering plastic insulated enclosure 2P, 3P, 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
1	20-32-40	2-3-4	190x115x128	Top	-	Blank side (*)
				Bottom	-	Blank side (*)
				Rear	-	Blank side (*)

(\*) Perforated or threaded entries on request.

## TECHNICAL DATA SWITCH-DISCONNECTORS 2P,3P,3P+N

		20A	32A	40A		
Rated insulation voltage	<b>Ui</b>	VAC	690	690	690	
Rated impulse withstand voltage	<b>Uimp</b>	kV	4	4	4	
Thermal current	<b>Ith/Ithe</b>	A	30	40	40	
Rated operational current - Ie	<b>AC21A</b> Resistive loads, including moderate overloads	415V	A	20	32	40
		500V	A	20	32	32
		690V	A	20	32	32
	<b>AC22A</b> Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40
		500V	A	20	32	32
		690V	A	20	32	32
	<b>AC23A</b> Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	415V	A	20	32	35
		500V	A	20	25	25
		690V	A	20	25	25
	<b>AC23A</b> Rated operational power	415V	kW	9	15	18.5
		<b>AC3</b> Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	400V	A	-	28.5
	690V		A	12	20	20
Rated short time withstand current	<b>Icw</b> (1s)	A	400	400	400	
Conditional short circuit current	<b>Ipc</b>	KAeff	10	10	10	
Associate fuse size for conditional short circuit current - Type gG	A	20	32	40		
Flexible wire	mm <sup>2</sup>	1.5-10	1.5-10	1.5-10		
Rigid wire	mm <sup>2</sup>	1.5-16	1.5-16	1.5-16		

This values are given for guidance and may vary according to the specifics provided by the motor manufacturer.

## APPLICATION EXAMPLES

