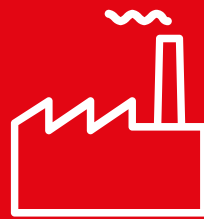
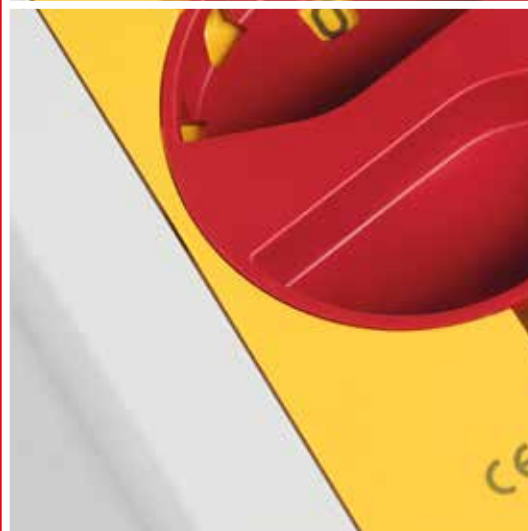


SELECTION



SWITCHGEARS

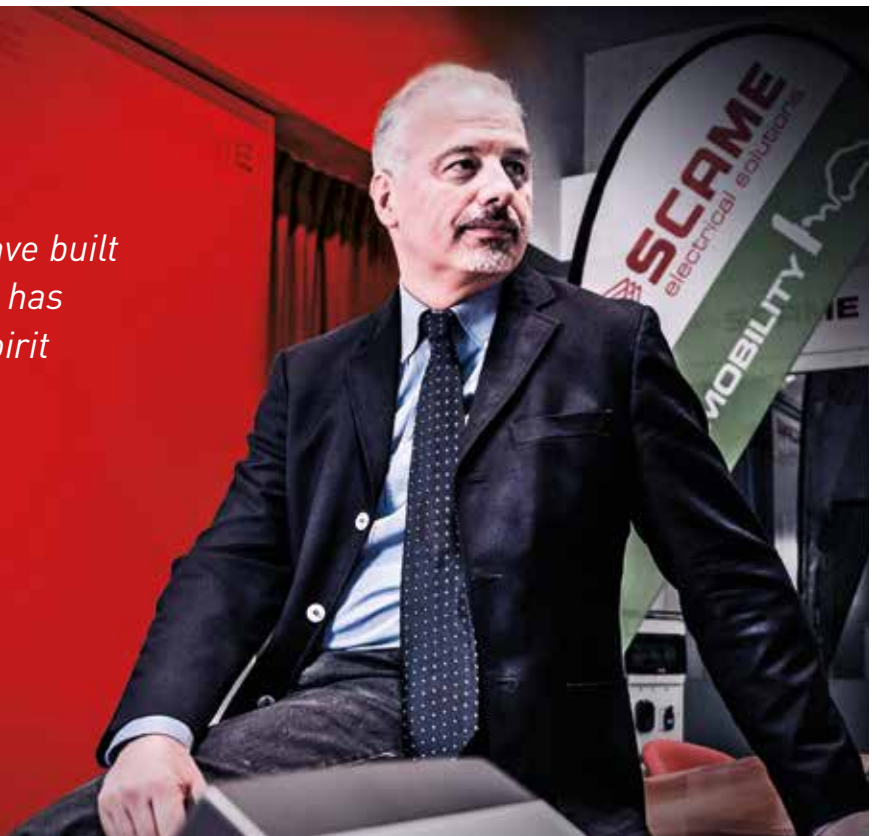




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*“In over **fifty years** we have built an **industrial reality** that has always maintained the spirit of its **origins.**”*

Stefano Scainelli CEO



SCAME PARRE S.p.A., head of the SCAME group, is a manufacturer of components and systems for electrical installations in the civil, services and industrial sector, born and raised in the mountains of the upper Val Seriana, in the Province of Bergamo, Northern Italy. Since 1963, the year of its foundation, in more than half a century of activity, SCAME has never betrayed the spirit of the origins made of attention to the environment and the person, as well as continuous research to provide an innovation that is never an end in itself, but which translates into total quality and real benefits for the user.

Already a pioneer in the field of the solutions dedicated to electric vehicles charging, for which it has created a specific business

division and is today considered an absolute benchmark, the continuous search for new markets has led SCAME to develop also an articulated range of ATEX IECEx products for installation in hazardous areas, without neglecting its traditional offer based on products for domestic and industrial applications, even heavy ones. A catalogue able to meet any installation requirement, a product quality guaranteed by compliance with national and international Standards, a rapid customer service able to support every choice and an high level of service, have enabled SCAME to affirm its presence not only nationally, but also internationally through a network of 17 branches and a consolidated network of distributors in over 80 countries on 5 continents.

Italy Parre (Bergamo)





SCAME PARRE S.P.A.

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United Kingdom Tewkesbury (Gloucestershire)

SCAME-UY

Uruguay Montevideo

SOBEM SCAME

France Sainte Marie Sur Ouche (Dijon)



THE CONCEPT OF QUALITY IS AN INTEGRAL PART OF OUR CULTURE IN ALL ASPECTS AND EVERY ACTIVITY OF OUR WORK.





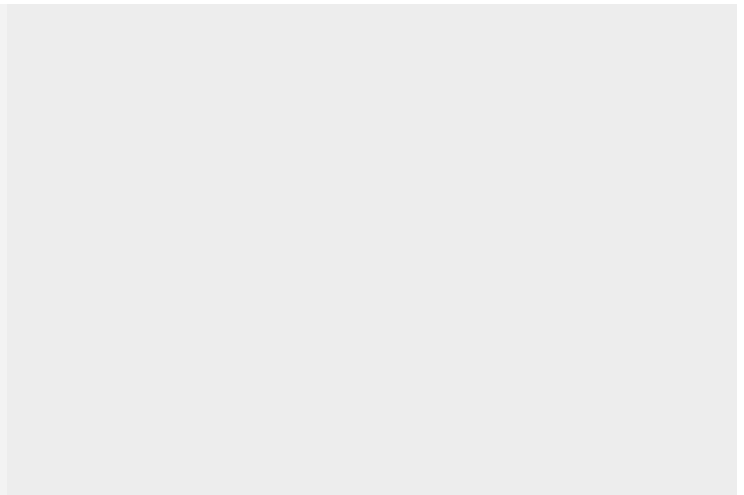
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SWITCHGEARS





ISOLATORS-TP SERIES

p. 10

Enclosed switch-disconnectors in thermoplastic enclosure



ISOLATORS-HD SERIES

p. 20

Enclosed switch-disconnectors in heavy duty thermoplastic enclosure



SWITCH-DISCONNECTORS

ISOLATORS-AL SERIES

p. 22

Enclosed switch-disconnectors in die-cast aluminium enclosure



ISOLATORS-MS SERIES

p. 30

Enclosed switch-disconnectors in mild steel enclosure



ISOLATORS-INOX SERIES

p. 34

Enclosed switch-disconnectors in stainless steel enclosure



ISOLATORS-HR SERIES

p. 38

Enclosed switch-disconnectors in metal enclosure with hinged door



ISOLATORS-FR SERIES

p. 42

Fire Rated enclosed switch-disconnectors



ISOLATORS-PH SERIES

p. 52

Enclosed switch-disconnectors in Direct Current for photovoltaic application



ACCESSORIES

p. 53

Installation accessories






ISOLATORS-TP Series

ISOLATORS-TP is a complete range of switch-disconnectors with highly resistant thermoplastic enclosure and is suitable for most industrial and tertiary applications, thanks to the high degree of protection IP66/IP69 which allows it to be installed even in the presence of water jets high pressure and high temperature.

The high-visibility, fully recessed knob of extra large dimensions ensures an always optimal grip and prevents damage caused by any accidental impacts.

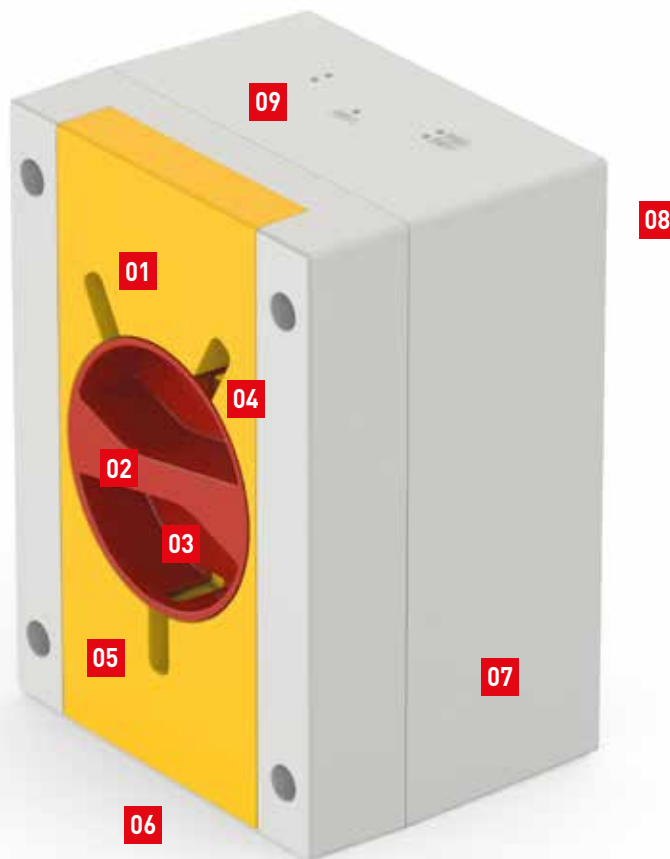
The base is reversible with threaded inlets or drilling centers.

The large internal wiring space and the external fixing points ensure easy and error-proof installation.

 technical sheet p. 114

Technical information

Main characteristics



- 01** Door locking with handle in the ON position
- 02** Recessed XXL handle to prevent breakage due to accidental impacts
- 03** AC23 switch with the possibility of double auxiliary contact
- 04** Handle padlockable in the OFF (emergency use) and ON and OFF (general use) position

- 05** High visibility handle and plate
- 06** Knockout cable entries
- 07** Reversible base
- 08** External and integrated fixing points
- 09** Blank side with drilling point marks

■ 20A÷40A OMNIA ENCLOSURE >> FOR GENERAL USE - FLUSH MOUNTING



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	Y1	IP65	136x125mm		590.GR2002	1/12
	3P	Y1	IP65	136x125mm		590.GR2003	1/12
	4P	Y1	IP65	136x125mm		590.GR2004	1/12
	3P+N	Y1	IP65	136x125mm		590.GR2005	1/12
32A	2P	Y1	IP65	136x125mm		590.GR3202	1/12
	3P	Y1	IP65	136x125mm		590.GR3203	1/12
	4P	Y1	IP65	136x125mm		590.GR3204	1/12
	3P+N	Y1	IP65	136x125mm		590.GR3205	1/12
40A	2P	Y1	IP65	136x125mm		590.GR4002	1/12
	3P	Y1	IP65	136x125mm		590.GR4003	1/12
	4P	Y1	IP65	136x125mm		590.GR4004	1/12
	3P+N	Y1	IP65	136x125mm		590.GR4005	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
With panel mounting version (R) switch

■ 20A÷40A OMNIA ENCLOSURE >> FOR EMERGENCY USE - FLUSH MOUNTING



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	Y1	IP65	136x125mm		590.ER2002	1/12
	3P	Y1	IP65	136x125mm		590.ER2003	1/12
	4P	Y1	IP65	136x125mm		590.ER2004	1/12
	3P+N	Y1	IP65	136x125mm		590.ER2005	1/12
32A	2P	Y1	IP65	136x125mm		590.ER3202	1/12
	3P	Y1	IP65	136x125mm		590.ER3203	1/12
	4P	Y1	IP65	136x125mm		590.ER3204	1/12
	3P+N	Y1	IP65	136x125mm		590.ER3205	1/12
40A	2P	Y1	IP65	136x125mm		590.ER4002	1/12
	3P	Y1	IP65	136x125mm		590.ER4003	1/12
	4P	Y1	IP65	136x125mm		590.ER4004	1/12
	3P+N	Y1	IP65	136x125mm		590.ER4005	1/12

With panel mounting version (R) switch
Handle padlockable in OFF position only (3 padlocks)



SWITCHGEARS

Switch-disconnectors

16A÷40A OMNIA ENCLOSURE >> ACCESSORIES



Description	Dimensions	IP	Flange	Notes	Code	
FRAME	174x163x19mm	IP55	160X149MM	OMNIA 16-32A	572.0220	6/60

IP55 when assembled together with the relevant component.
To be used in conjunction with flush-mounted boxes



Description	Dimensions	IP	Flange	Notes	Code	
COUPLING INSERT				OMNIA 16-32A	572.0210	6/60



Description	Dimensions	IP	Flange	Notes	Code	
BOX	136x125x70mm	IP67	136X125MM	16-32A	572.0310	6

When joined with consumer unit (product 572.0120) [10W]
Not suitable for items 400.2416, 405.2416 and 32A fuse version.
Blank side with drilling point marks
IP67 when assembled together with the relevant component.



Description	Dimensions	IP	Flange	Notes	Code	
BOX	160x149x72mm			OMNIA 16-32A	572.0200	6

Complete with coupling insert
Suitable for being walled up in buried systems



Description	Dimensions	IP	Flange	Notes	Code	
BOX FOR PLASTERBOARD WALLS	160x149x75mm			OMNIA 16-32A	572.0205	6

■ 16A÷40A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66/IP69	160x220x115mm		590.GE1606	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.GE1608	1/5
20A	2P	Y1	IP66/IP69	110x150x87mm		590.GE2012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.GE2013	1/12
	4P	Y1	IP66/IP69	110x150x87mm		590.GE2014	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.GE2015	1/12
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.GE2012.SN ¹⁾	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.GE2015.SN ¹⁾	1/12
	25A	6P	Y3	IP66/IP69	160x220x115mm		590.GE2506
8P		Y3	IP66/IP69	160x220x115mm		590.GE2508	1/5
32A	2P	Y1	IP66/IP69	110x150x87mm		590.GE3212	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.GE3213	1/12
	4P	Y1	IP66/IP69	110x150x87mm		590.GE3214	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.GE3215	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.GE3206	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.GE3208	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.GE3212.SN ¹⁾	1/12
40A	3P+SN	Y1	IP66/IP69	110x150x87mm		590.GE3215.SN ¹⁾	1/12
	2P	Y1	IP66/IP69	110x150x87mm		590.GE4012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.GE4013	1/12
	4P	Y1	IP66/IP69	110x150x87mm		590.GE4014	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.GE4015	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.GE4006	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.GE4008	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.GE4012.SN ¹⁾	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.GE4015.SN ¹⁾	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Blank side with drilling point marks on top side base
 Break-through cable entries on bottom side base
 Reversible base

¹⁾Unswitched neutral (solid neutral terminal block)



SWITCHGEARS

Switch-disconnectors

■ 16A÷40A >> FOR GENERAL USE - SPECIAL



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66/IP69	160x220x115mm		590.EL1606	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EL1608	1/5
20A	2P	Y1	IP66/IP69	110x150x87mm		590.EL2012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EL2013	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EL2015	1/12
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EL2012.SN ¹⁾	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EL2015.SN ¹⁾	1/12
	25A	6P	Y3	IP66/IP69	160x220x115mm		590.EL2506
25A	8P	Y3	IP66/IP69	160x220x115mm		590.EL2508	1/5
	2P	Y1	IP66/IP69	110x150x87mm		590.EL3212	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EL3213	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EL3215	1/12
32A	6P	Y3	IP66/IP69	160x220x115mm		590.EL3206	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EL3208	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EL3212.SN ¹⁾	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EL3215.SN ¹⁾	1/12
40A	2P	Y1	IP66/IP69	110x150x87mm		590.EL4012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EL4013	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EL4015	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.EL4006	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EL4008	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EL4012.SN ¹⁾	1/12
40A	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EL4015.SN ¹⁾	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

Blank side with drilling point marks on top side base

Break-through cable entries on bottom side base

Reversible base

¹⁾ Unswitched neutral (solid neutral terminal block)

■ 16A÷40A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66/IP69	160x220x115mm		590.EM1606	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EM1608	1/5
20A	2P	Y1	IP66/IP69	110x150x87mm		590.EM2012	1/12
	3P	Y1	IP66/IP69	110x150x87mm		590.EM2013	1/12
	4P	Y1	IP66/IP69	110x150x87mm		590.EM2014	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EM2015	1/12
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EM2012.SN ¹⁾	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EM2015.SN ¹⁾	1/12
	25A	6P	Y3	IP66/IP69	160x220x115mm		590.EM2506
8P		Y3	IP66/IP69	160x220x115mm		590.EM2508	1/5
2P		Y1	IP66/IP69	110x150x87mm		590.EM3212	1/12
3P		Y1	IP66/IP69	110x150x87mm		590.EM3213	1/12
32A	4P	Y1	IP66/IP69	110x150x87mm		590.EM3214	1/12
	3P+N	Y1	IP66/IP69	110x150x87mm		590.EM3215	1/12
	6P	Y3	IP66/IP69	160x220x115mm		590.EM3206	1/5
	8P	Y3	IP66/IP69	160x220x115mm		590.EM3208	1/5
	1P+SN	Y1	IP66/IP69	110x150x87mm		590.EM3212.SN ¹⁾	1/12
	3P+SN	Y1	IP66/IP69	110x150x87mm		590.EM3215.SN ¹⁾	1/12
	40A	2P	Y1	IP66/IP69	110x150x87mm		590.EM4012
3P		Y1	IP66/IP69	110x150x87mm		590.EM4013	1/12
4P		Y1	IP66/IP69	110x150x87mm		590.EM4014	1/12
3P+N		Y1	IP66/IP69	110x150x87mm		590.EM4015	1/12
6P		Y3	IP66/IP69	160x220x115mm		590.EM4006	1/5
8P		Y3	IP66/IP69	160x220x115mm		590.EM4008	1/5
1P+SN		Y1	IP66/IP69	110x150x87mm		590.EM4012.SN ¹⁾	1/12
3P+SN		Y1	IP66/IP69	110x150x87mm		590.EM4015.SN ¹⁾	1/12

Handle padlockable in OFF position only (3 padlocks)
 Blank side with drilling point marks on top side base
 Break-through cable entries on bottom side base
 Reversible base

¹⁾Unswitched neutral (solid neutral terminal block)



SWITCHGEARS

Switch-disconnectors

■ 63A÷160A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66/IP69	160x220x115mm		590.GE6302	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.GE6303	1/5
	4P	Y2	IP66/IP69	160x220x115mm		590.GE6304	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.GE6305	1/5
	6P	Y4	IP65	228x308x128mm		590.GE6306 ²⁾	1
	8P	Y4	IP65	228x308x128mm		590.GE6308 ²⁾	1
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.GE6302.SN ¹⁾	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.GE6305.SN ¹⁾	1/5
80A	2P	Y2	IP66/IP69	160x220x115mm		590.GE8002	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.GE8003	1/5
	4P	Y2	IP66/IP69	160x220x115mm		590.GE8004	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.GE8005	1/5
	6P	Y4	IP65	228x308x128mm		590.GE8006 ²⁾	1
	8P	Y4	IP65	228x308x128mm		590.GE8008 ²⁾	1
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.GE8002.SN ¹⁾	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.GE8005.SN ¹⁾	1/5
100A	3P	Y4	IP66/IP69	160x220x115mm		590.GE10003	1/5
	3P+N	Y4	IP66/IP69	160x220x115mm		590.GE10005	1/5
	6P	Y4	IP65	228x308x128mm		590.GE10006 ²⁾	1
	8P	Y4	IP65	228x308x128mm		590.GE10008 ²⁾	1
	3P+SN	Y4	IP66/IP69	160x220x115mm		590.GE10005.SN ¹⁾	1/5
125A	3P	Y5	IP55	228x308x128mm		590.GE12503 ²⁾	1
	3P+N	Y5	IP55	228x308x128mm		590.GE12505 ²⁾	1
	6P	Y5	IP65	308x388x128mm		590.GE12506 ²⁾	1
	8P	Y5	IP65	308x388x128mm		590.GE12508 ²⁾	1
	3P+SN	Y5	IP55	228x308x128mm		590.GE12505.SN ^{1) 2)}	1
160A	3P	Y5	IP55	308x388x128mm		590.GE16003 ²⁾	1
	3P+N	Y5	IP55	308x388x128mm		590.GE16005 ²⁾	1
	6P	Y5	IP65	308x388x128mm		590.GE16006 ²⁾	1
	8P	Y5	IP65	308x388x128mm		590.GE16008 ²⁾	1
	3P+SN	Y5	IP55	308x388x128mm		590.GE16005.SN ^{1) 2)}	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Blank side with drilling point marks on top side base
 Break-through cable entries on bottom side base
 Reversible base

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Blank sides

■ 63A÷100A >> FOR GENERAL USE - SPECIAL



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66/IP69	160x220x115mm		590.EL6302	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.EL6303	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.EL6305	1/5
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.EL6302.SN ¹⁾	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.EL6305.SN ¹⁾	1/5
80A	2P	Y2	IP66/IP69	160x220x115mm		590.EL8002	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.EL8003	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.EL8005	1/5
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.EL8002.SN ¹⁾	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.EL8005.SN ¹⁾	1/5
100A	3P	Y4	IP66/IP69	160x220x115mm		590.EL10003	1/5
	3P+N	Y4	IP66/IP69	160x220x115mm		590.EL10005	1/5
	3P+SN	Y4	IP66/IP69	160x220x115mm		590.EL10005.SN ¹⁾	1/5

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Blank side with drilling point marks on top side base
 Break-through cable entries on bottom side base
 Reversible base

¹⁾ Unswitched neutral (solid neutral terminal block)

■ 63A÷160A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66/IP69	160x220x115mm		590.EM6302	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.EM6303	1/5
	4P	Y2	IP66/IP69	160x220x115mm		590.EM6304	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.EM6305	1/5
	6P	Y4	IP55	228x308x128mm		590.EM6306 ²⁾	1
	8P	Y4	IP55	228x308x128mm		590.EM6308 ²⁾	1
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.EM6302.SN ¹⁾	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.EM6305.SN ¹⁾	1/5
80A	2P	Y2	IP66/IP69	160x220x115mm		590.EM8002	1/5
	3P	Y2	IP66/IP69	160x220x115mm		590.EM8003	1/5
	4P	Y2	IP66/IP69	160x220x115mm		590.EM8004	1/5
	3P+N	Y2	IP66/IP69	160x220x115mm		590.EM8005	1/5
	6P	Y4	IP55	228x308x128mm		590.EM8006 ²⁾	1
	8P	Y4	IP55	228x308x128mm		590.EM8008 ²⁾	1
	1P+SN	Y2	IP66/IP69	160x220x115mm		590.EM8002.SN ¹⁾	1/5
	3P+SN	Y2	IP66/IP69	160x220x115mm		590.EM8005.SN ¹⁾	1/5
100A	3P	Y4	IP66/IP69	160x220x115mm		590.EM10003	1/5
	3P+N	Y4	IP66/IP69	160x220x115mm		590.EM10005	1/5
	6P	Y4	IP55	228x308x128mm		590.EM10006 ²⁾	1
	8P	Y4	IP55	228x308x128mm		590.EM10008 ²⁾	1
	3P+SN	Y4	IP66/IP69	160x220x115mm		590.EM10005.SN ¹⁾	1
125A	3P	Y5	IP55	228x308x128mm		590.EM12503 ²⁾	1
	3P+N	Y5	IP55	228x308x128mm		590.EM12505 ²⁾	1
	6P	Y5	IP55	308x388x128mm		590.EM12506 ²⁾	1
	8P	Y5	IP55	308x388x128mm		590.EM12508 ²⁾	1
	3P+SN	Y5	IP55	228x308x128mm		590.EM12505.SN ^{1) 2)}	1
160A	3P	Y5	IP55	308x388x128mm		590.EM16003 ²⁾	1
	3P+N	Y5	IP55	308x388x128mm		590.EM16005 ²⁾	1
	6P	Y5	IP55	308x388x128mm		590.EM16006 ²⁾	1
	8P	Y5	IP55	308x388x128mm		590.EM16008 ²⁾	1
	3P+SN	Y5	IP55	308x388x128mm		590.EM16005.SN ^{1) 2)}	1

Handle padlockable in OFF position only (3 padlocks)
 Blank side with drilling point marks on top side base
 Break-through cable entries on bottom side base
 Reversible base

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Blank sides

■ 160A÷250A >> FOR GENERAL USE - HIGH RATINGS



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
160A	3P	K2	IP65	460x520x245mm		590.GE16013	1
	3P+N	K2	IP65	460x520x245mm		590.GE16015	1
	3P+SN	K2	IP65	460x520x245mm		590.GE16015.SN ¹⁾	1
200A	3P	K2	IP65	460x520x245mm		590.GE20003	1
	3P+N	K2	IP65	460x520x245mm		590.GE20005	1
	3P+SN	K2	IP65	460x520x245mm		590.GE20005.SN ¹⁾	1
250A	3P	K2	IP65	460x520x245mm		590.GE25003	1
	3P+N	K2	IP65	460x520x245mm		590.GE25005	1
	3P+SN	K2	IP65	460x520x245mm		590.GE25005.SN ¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Blank sides

¹⁾ Unswitched neutral (solid neutral terminal block)



SWITCHGEARS

Switch-disconnectors

■ 160A÷250A >> FOR EMERGENCY USE - HIGH RATINGS



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
160A	3P	K2	IP65	460x520x245mm		590.EM16013	1
	3P+N	K2	IP65	460x520x245mm		590.EM16015	1
	3P+SN	K2	IP65	460x520x245mm		590.EM16015.SN¹⁾	1
200A	3P	K2	IP65	460x520x245mm		590.EM20003	1
	3P+N	K2	IP65	460x520x245mm		590.EM20005	1
	3P+SN	K2	IP65	460x520x245mm		590.EM20005.SN¹⁾	1
250A	3P	K2	IP65	460x520x245mm		590.EM25003	1
	3P+N	K2	IP65	460x520x245mm		590.EM25005	1
	3P+SN	K2	IP65	460x520x245mm		590.EM25005.SN¹⁾	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides

¹⁾ Unswitched neutral (solid neutral terminal block)

■ 1P+SN >> FOR GENERAL USE



Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	1P+SN	Y01	IP65	82x120x69mm		590.GE2022.SN	1/12
32A	1P+SN	Y01	IP65	82x120x69mm		590.GE3222.SN	1/12
40A	1P+SN	Y01	IP65	82x120x69mm		590.GE4022.SN	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Unswitched neutral (solid neutral terminal block)
 Break-through cable entries
 Suitable to switch single phase motor loads or other inductive loads

Type: GENERAL

■ 1P+SN >> FOR GENERAL USE - SPECIAL



Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	1P+SN	Y01	IP65	82x120x69mm		590.EL2022.SN	1/12
32A	1P+SN	Y01	IP65	82x120x69mm		590.EL3222.SN	1/12
40A	1P+SN	Y01	IP65	82x120x69mm		590.EL4022.SN	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Unswitched neutral (solid neutral terminal block)
 Break-through cable entries
 Suitable to switch single phase motor loads or other inductive loads

Type: GENERAL

■ 1P+SN >> FOR EMERGENCY USE



Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	1P+SN	Y01	IP65	82x120x69mm		590.EM2022.SN	1/12
32A	1P+SN	Y01	IP65	82x120x69mm		590.EM3222.SN	1/12
40A	1P+SN	Y01	IP65	82x120x69mm		590.EM4022.SN	1/12

Handle padlockable in OFF position only (3 padlocks)
 Unswitched neutral (solid neutral terminal block)
 Break-through cable entries
 Suitable to switch single phase motor loads or other inductive loads

Type: EMERGENCY





ISOLATORS-HD Series

ISOLATORS-HD is a complete range of switch-disconnectors with enclosure made of a special shockproof and self-extinguishing thermoplastic material which guarantees extreme resistance to impact (IK10), heat and fire (GW 960 ° C as required by EN 60695-2-1), as well as atmospheric agents (from -40 ° C to + 60 ° C).

For this reason, the ISOLATORS-HD are particularly suitable for applications in harsh environments as an alternative to the metal casing.

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Technical information

Main characteristics



- 01** High visibility handle and plate
- 02** Door locking with handle in the ON position
- 03** Handle padlockable in the OFF (emergency use) and ON and OFF (general use) position
- 04** AC23 switch with the possibility of double auxiliary contact
- 05** High-resistance engineering plastic enclosure
- 06** External fixing points
- 07** Blank sides with drilling point marks

Applications examples



Heavy industry



Port - Container terminal



■ FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	Y1	IP66	115x190x128mm		590.JGE2002	1/12
	3P	Y1	IP66	115x190x128mm		590.JGE2003	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JGE2005	1/12
32A	2P	Y1	IP66	115x190x128mm		590.JGE3202	1/12
	3P	Y1	IP66	115x190x128mm		590.JGE3203	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JGE3205	1/12
40A	2P	Y1	IP66	115x190x128mm		590.JGE4002	1/12
	3P	Y1	IP66	115x190x128mm		590.JGE4003	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JGE4005	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank side with drilling point marks

■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	Y1	IP66	115x190x128mm		590.JEM2002	1/12
	3P	Y1	IP66	115x190x128mm		590.JEM2003	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JEM2005	1/12
32A	2P	Y1	IP66	115x190x128mm		590.JEM3202	1/12
	3P	Y1	IP66	115x190x128mm		590.JEM3203	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JEM3205	1/12
40A	2P	Y1	IP66	115x190x128mm		590.JEM4002	1/12
	3P	Y1	IP66	115x190x128mm		590.JEM4003	1/12
	3P+N	Y1	IP66	115x190x128mm		590.JEM4005	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank side with drilling point marks





ISOLATORS-AL Series

ISOLATORS-AL is a complete range of switch-disconnectors with die-cast aluminum enclosure protected with polyurethane epoxy paints. For this reason, it is particularly suitable for applications where high resistance to chemicals, humidity and dust (IP66) is required, as well as maximum mechanical resistance to stress (IK10).

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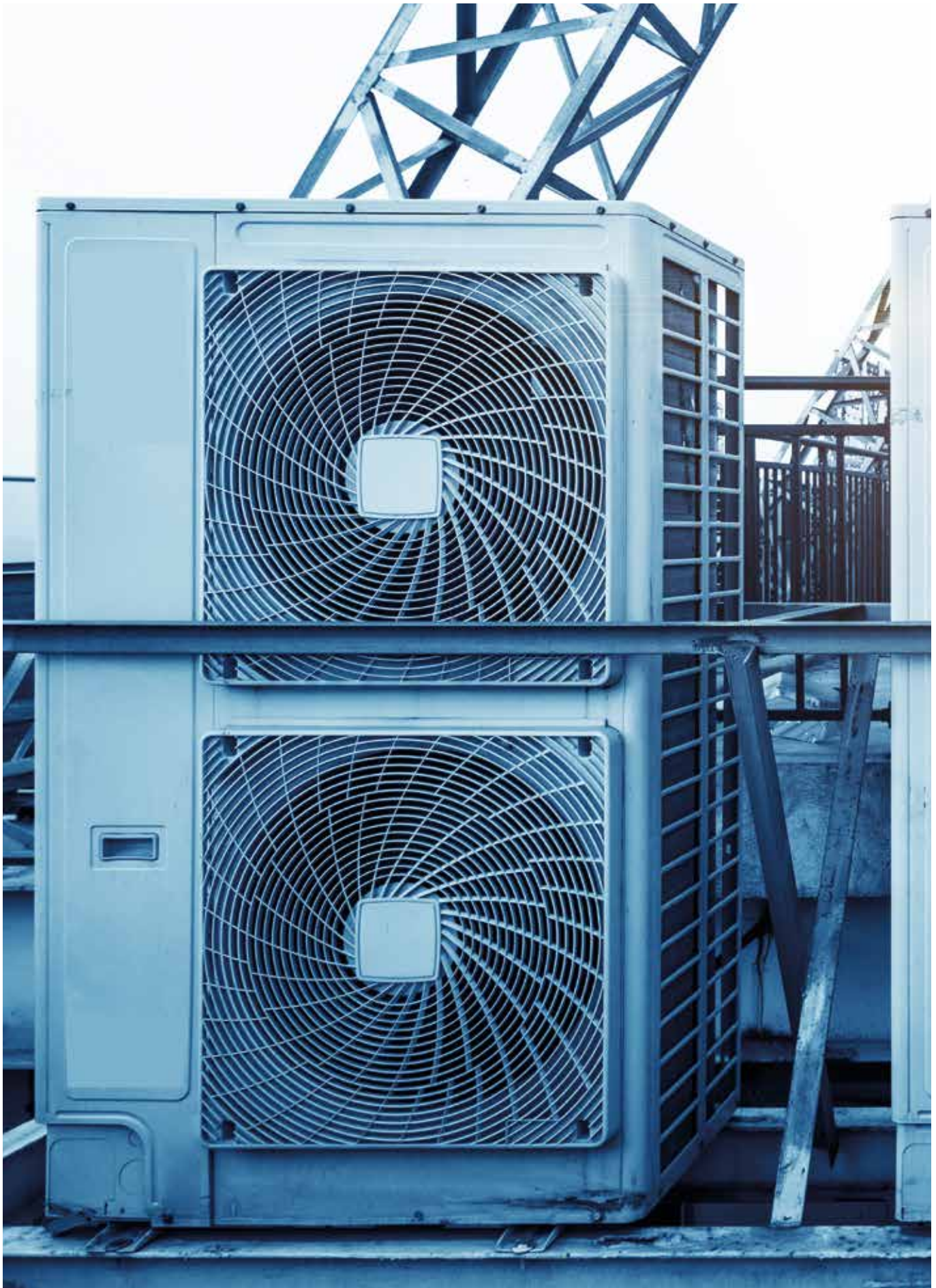
Technical information

Main characteristics



- 01** High visibility handle and plate
- 02** Door locking with handle in the ON position
- 03** AC23 switch with the possibility of double auxiliary contact
- 04** Handle padlockable in the OFF (emergency use) and ON and OFF (general use) position
- 05** Aluminium epoxy polyurethane painted enclosure with high resistance to atmospheric agents
- 06** Open threaded cable entries with IP66 caps
- 07** External and integrated fixing points
- 08** Open threaded cable entries with IP66 caps

Applications examples



SWITCHGEARS

Switch-disconnectors

■ 16A÷40A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66	150x210x107mm		590.HGE1606 ²⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HGE1608 ²⁾	1/5
20A	2P	Y1	IP66	105x150x82mm		590.HGE2002 ³⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HGE2003 ³⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HGE2004 ³⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HGE2005 ³⁾	1/12
	1P+SN	Y1	IP66	105x150x82mm		590.HGE2002.SN ^{1) 3)}	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HGE2005.SN ^{1) 3)}	1/12
	25A	6P	Y3	IP66	150x210x107mm		590.HGE2506 ²⁾
8P		Y3	IP66	150x210x107mm		590.HGE2508 ²⁾	1/5
32A	2P	Y1	IP66	105x150x82mm		590.HGE3202 ³⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HGE3203 ³⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HGE3204 ³⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HGE3205 ³⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HGE3206 ²⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HGE3208 ²⁾	1/5
	1P+SN	Y1	IP66	105x150x82mm		590.HGE3202.SN ^{1) 3)}	1/12
40A	3P+SN	Y1	IP66	105x150x82mm		590.HGE3205.SN ^{1) 3)}	1/12
	2P	Y1	IP66	105x150x82mm		590.HGE4002 ³⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HGE4003 ³⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HGE4004 ³⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HGE4005 ³⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HGE4006 ²⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HGE4008 ²⁾	1/5
	1P+SN	Y1	IP66	105x150x82mm		590.HGE4002.SN ^{1) 3)}	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HGE4005.SN ^{1) 3)}	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Blank sides

³⁾ Open threaded cable entry with cap / cable sleeve

■ 16A÷40A >> FOR GENERAL USE - SPECIAL



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66	150x210x107mm		590.HEL1606 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEL1608 ¹⁾	1/5
20A	2P	Y1	IP66	105x150x82mm		590.HEL2002 ²⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEL2003 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEL2005 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEL2506 ¹⁾	1/5
25A	8P	Y3	IP66	150x210x107mm		590.HEL2508 ¹⁾	1/5
	2P	Y1	IP66	105x150x82mm		590.HEL3202 ²⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEL3203 ²⁾	1/12
32A	3P+N	Y1	IP66	105x150x82mm		590.HEL3205 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEL3206 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEL3208 ¹⁾	1/5
	2P	Y1	IP66	105x150x82mm		590.HEL4002 ²⁾	1/12
40A	3P	Y1	IP66	105x150x82mm		590.HEL4003 ²⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEL4005 ²⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEL4006 ¹⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEL4008 ¹⁾	1/5
	2P	Y1	IP66	105x150x82mm		590.HEL4002 ²⁾	1/12

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

¹⁾Blank sides

²⁾Open threaded cable entry with cap / cable sleeve

■ 16A÷40A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66	150x210x107mm		590.HEM1606 ²⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEM1608 ²⁾	1/5
20A	2P	Y1	IP66	105x150x82mm		590.HEM2002 ³⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEM2003 ³⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HEM2004 ³⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEM2005 ³⁾	1/12
	1P+SN	Y1	IP66	105x150x82mm		590.HEM2002.SN ^{1) 3)}	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HEM2005.SN ^{1) 3)}	1/12
	6P	Y3	IP66	150x210x107mm		590.HEM2506 ²⁾	1/5
25A	8P	Y3	IP66	150x210x107mm		590.HEM2508 ²⁾	1/5
	2P	Y1	IP66	105x150x82mm		590.HEM3202 ³⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEM3203 ³⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HEM3204 ³⁾	1/12
32A	3P+N	Y1	IP66	105x150x82mm		590.HEM3205 ³⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEM3206 ²⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEM3208 ²⁾	1/5
	1P+SN	Y1	IP66	105x150x82mm		590.HEM3202.SN ^{1) 3)}	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HEM3205.SN ^{1) 3)}	1/12
40A	2P	Y1	IP66	105x150x82mm		590.HEM4002 ³⁾	1/12
	3P	Y1	IP66	105x150x82mm		590.HEM4003 ³⁾	1/12
	4P	Y1	IP66	105x150x82mm		590.HEM4004 ³⁾	1/12
	3P+N	Y1	IP66	105x150x82mm		590.HEM4005 ³⁾	1/12
	6P	Y3	IP66	150x210x107mm		590.HEM4006 ²⁾	1/5
	8P	Y3	IP66	150x210x107mm		590.HEM4008 ²⁾	1/5
	1P+SN	Y1	IP66	105x150x82mm		590.HEM4002.SN ^{1) 3)}	1/12
	3P+SN	Y1	IP66	105x150x82mm		590.HEM4005.SN ^{1) 3)}	1/12

Handle padlockable in OFF position only (3 padlocks)

¹⁾Unswitched neutral (solid neutral terminal block)

²⁾Blank sides

³⁾Open threaded cable entry with cap / cable sleeve



SWITCHGEARS

Switch-disconnectors

■ 63A÷160A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66	150x210x107mm		590.HGE6302 ³⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HGE6303 ³⁾	1/5
	4P	Y2	IP66	150x210x107mm		590.HGE6304 ³⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HGE6305 ³⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HGE6306	1
	8P	Y4	IP65	264x315x122mm		590.HGE6308	1
	1P+SN	Y2	IP66	150x210x107mm		590.HGE6302.SN ^{1) 3)}	1/5
	3P+SN	Y2	IP66	150x210x107mm		590.HGE6305.SN ^{1) 3)}	1/5
80A	2P	Y2	IP66	150x210x107mm		590.HGE8002 ³⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HGE8003 ³⁾	1/5
	4P	Y2	IP66	150x210x107mm		590.HGE8004 ³⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HGE8005 ³⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HGE8006 ²⁾	1
	8P	Y4	IP65	264x315x122mm		590.HGE8008 ²⁾	1
	1P+SN	Y2	IP66	150x210x107mm		590.HGE8002.SN ^{1) 3)}	1/5
3P+SN	Y2	IP66	150x210x107mm		590.HGE8005.SN ^{1) 3)}	1/5	
100A	3P	Y4	IP66	150x210x107mm		590.HGE10003 ³⁾	1/5
	3P+N	Y4	IP66	150x210x107mm		590.HGE10005 ³⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HGE10006 ²⁾	1
	8P	Y4	IP65	264x315x122mm		590.HGE10008 ²⁾	1
	3P+SN	Y4	IP66	150x210x107mm		590.HGE10005.SN ^{1) 3)}	1/5
125A	3P	Y5	IP65	264x315x122mm		590.HGE12503 ²⁾	1
	3P+N	Y5	IP65	264x315x122mm		590.HGE12505 ²⁾	1
	6P	Y5	IP65	315x410x150mm		590.HGE12506 ²⁾	1
	8P	Y5	IP65	315x410x150mm		590.HGE12508 ²⁾	1
	3P+SN	Y5	IP65	264x315x122mm		590.HGE12505.SN ^{1) 2)}	1
160A	3P	Y5	IP65	315x410x150mm		590.HGE16003 ²⁾	1
	3P+N	Y5	IP65	315x410x150mm		590.HGE16005 ²⁾	1
	6P	Y5	IP65	315x410x150mm		590.HGE16006 ²⁾	1
	8P	Y5	IP65	315x410x150mm		590.HGE16008 ²⁾	1
	3P+SN	Y5	IP65	315x410x150mm		590.HGE16005.SN ^{1) 2)}	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Blank sides

³⁾ Open threaded cable entry with cap / cable sleeve

■ 63A÷160A >> FOR GENERAL USE - SPECIAL



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66	150x210x107mm		590.HEL6302 ²⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HEL6303 ²⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HEL6305 ²⁾	1/5
80A	2P	Y2	IP66	150x210x107mm		590.HEL8002 ²⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HEL8003 ²⁾	1/5
100A	3P+N	Y2	IP66	150x210x107mm		590.HEL8005 ²⁾	1/5
	3P	Y4	IP66	150x210x107mm		590.HEL10003 ¹⁾	1/5
	3P+N	Y4	IP66	150x210x107mm		590.HEL10005 ¹⁾	1/5

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

¹⁾ Blank sides

²⁾ Open threaded cable entry with cap / cable sleeve

■ 63A÷160A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
63A	2P	Y2	IP66	150x210x107mm		590.HEM6302 ³⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HEM6303 ³⁾	1/5
	4P	Y2	IP66	150x210x107mm		590.HEM6304 ³⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HEM6305 ³⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HEM6306 ²⁾	1
	8P	Y4	IP66	264x315x122mm		590.HEM6308 ²⁾	1
	1P+SN	Y2	IP66	150x210x107mm		590.HEM6302.SN ^{1) 3)}	1/5
	3P+SN	Y2	IP66	150x210x107mm		590.HEM6305.SN ^{1) 3)}	1/5
80A	2P	Y2	IP66	150x210x107mm		590.HEM8002 ³⁾	1/5
	3P	Y2	IP66	150x210x107mm		590.HEM8003 ³⁾	1/5
	4P	Y2	IP66	150x210x107mm		590.HEM8004 ³⁾	1/5
	3P+N	Y2	IP66	150x210x107mm		590.HEM8005 ³⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HEM8006 ²⁾	1
	8P	Y4	IP66	264x315x122mm		590.HEM8008 ²⁾	1
	1P+SN	Y2	IP66	150x210x107mm		590.HEM8002.SN ^{1) 3)}	1/5
	3P+SN	Y2	IP66	150x210x107mm		590.HEM8005.SN ^{1) 3)}	1/5
100A	3P	Y4	IP66	150x210x107mm		590.HEM10003 ³⁾	1/5
	3P+N	Y4	IP66	150x210x107mm		590.HEM10005 ³⁾	1/5
	6P	Y4	IP65	264x315x122mm		590.HEM10006 ²⁾	1
	8P	Y4	IP66	264x315x122mm		590.HEM10008 ²⁾	1
	3P+SN	Y4	IP66	150x210x107mm		590.HEM10005.SN ^{1) 3)}	1/5
125A	3P	Y5	IP65	264x315x122mm		590.HEM12503 ²⁾	1
	3P+N	Y5	IP65	264x315x122mm		590.HEM12505 ²⁾	1
	6P	Y5	IP65	315x410x150mm		590.HEM12506 ²⁾	1
	8P	Y5	IP65	315x410x150mm		590.HEM12508 ²⁾	1
	3P+SN	Y5	IP65	264x315x122mm		590.HEM12505.SN ^{1) 2)}	1
160A	3P	Y5	IP65	315x410x150mm		590.HEM16003 ²⁾	1
	3P+N	Y5	IP65	315x410x150mm		590.HEM16005 ²⁾	1
	6P	Y5	IP65	315x410x150mm		590.HEM16006 ²⁾	1
	8P	Y5	IP65	315x410x150mm		590.HEM16008 ²⁾	1
	3P+SN	Y5	IP65	315x410x150mm		590.HEM16005.SN ^{1) 2)}	1

Handle padlockable in OFF position only (3 padlocks)

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Blank sides

³⁾ Open threaded cable entry with cap / cable sleeve



SWITCHGEARS

Switch-disconnectors

■ 16A÷160A HIGH WIRING CAPACITY >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y1	IP66	264x315x122mm		590.HGE1606.W ²⁾	1
	8P	Y1	IP66	264x315x122mm		590.HGE1608.W ²⁾	1
20A	2P	Y1	IP66	150x210x107mm		590.HGE2002.W ³⁾	1/5
	3P	Y1	IP66	150x210x107mm		590.HGE2003.W ³⁾	1/5
	3P+N	Y1	IP66	150x210x107mm		590.HGE2005.W ³⁾	1/5
	1P+SN	Y1	IP66	150x210x107mm		590.HGE2002.WSN ^{1) 3)}	1/5
	3P+SN	Y1	IP66	150x210x107mm		590.HGE2005.WSN ^{1) 3)}	1/5
25A	6P	Y1	IP66	264x315x122mm		590.HGE2506.W ²⁾	1
	8P	Y1	IP66	264x315x122mm		590.HGE2508.W ²⁾	1
	2P	Y1	IP66	150x210x107mm		590.HGE3202.W ³⁾	1/5
32A	3P	Y1	IP66	150x210x107mm		590.HGE3203.W ³⁾	1/5
	3P+N	Y1	IP66	150x210x107mm		590.HGE3205.W ³⁾	1/5
	6P	Y1	IP66	264x315x122mm		590.HGE3206.W ²⁾	1
	8P	Y1	IP66	264x315x122mm		590.HGE3208.W ²⁾	1
	1P+SN	Y1	IP66	150x210x107mm		590.HGE3202.WSN ^{1) 3)}	1/5
40A	3P+SN	Y1	IP66	150x210x107mm		590.HGE3205.WSN ^{1) 3)}	1/5
	2P	Y1	IP66	150x210x107mm		590.HGE4002.W ³⁾	1/5
	3P	Y1	IP66	150x210x107mm		590.HGE4003.W ³⁾	1/5
	3P+N	Y1	IP66	150x210x107mm		590.HGE4005.W ³⁾	1/5
	6P	Y1	IP66	264x315x122mm		590.HGE4006.W ²⁾	1
63A	8P	Y1	IP66	264x315x122mm		590.HGE4008.W ²⁾	1
	1P+SN	Y1	IP66	150x210x107mm		590.HGE4002.WSN ^{1) 3)}	1/5
	3P+SN	Y1	IP66	150x210x107mm		590.HGE4005.WSN ^{1) 3)}	1/5
	2P	Y2	IP65	264x315x112mm		590.HGE6302.W ²⁾	1
	3P	Y2	IP65	264x315x112mm		590.HGE6303.W ²⁾	1
80A	3P+N	Y2	IP65	264x315x112mm		590.HGE6305.W ²⁾	1
	6P	Y2	IP65	315x410x150mm		590.HGE6306.W ²⁾	1
	8P	Y2	IP65	315x410x150mm		590.HGE6308.W ²⁾	1
	1P+SN	Y2	IP65	264x315x112mm		590.HGE6302.WSN ^{1) 2)}	1
	3P+SN	Y2	IP65	264x315x112mm		590.HGE6305.WSN ^{1) 2)}	1
100A	2P	Y2	IP65	264x315x112mm		590.HGE8002.W ²⁾	1
	3P	Y2	IP65	264x315x112mm		590.HGE8003.W ²⁾	1
	3P+N	Y2	IP65	264x315x112mm		590.HGE8005.W ²⁾	1
	6P	Y2	IP65	315x410x150mm		590.HGE8006.W ²⁾	1
	8P	Y2	IP65	315x410x150mm		590.HGE8008.W ²⁾	1
125A	1P+SN	Y2	IP65	264x315x112mm		590.HGE8002.WSN ^{1) 2)}	1
	3P+SN	Y2	IP65	264x315x112mm		590.HGE8005.WSN ^{1) 2)}	1
	3P	K1	IP65	315x410x150mm		590.HGE10003.W ²⁾	1
	3P+N	K1	IP65	315x410x150mm		590.HGE10005.W ²⁾	1
	6P	Y2	IP65	315x410x150mm		590.HGE10006.W ²⁾	1
160A	8P	Y2	IP65	315x410x150mm		590.HGE10008.W ²⁾	1
	3P+SN	K1	IP65	315x410x150mm		590.HGE10005.WSN ^{1) 2)}	1
	3P	K1	IP65	315x410x150mm		590.HGE12503.W ²⁾	1
125A	3P+N	K1	IP65	315x410x150mm		590.HGE12505.W ²⁾	1
	3P+SN	K1	IP65	315x410x150mm		590.HGE12505.WSN ^{1) 2)}	1
160A	3P	K2	IP65	315x410x150mm		590.HGE16003.W ²⁾	1
	3P+N	K2	IP65	315x410x150mm		590.HGE16005.W ²⁾	1
160A	3P+SN	K2	IP65	315x410x150mm		590.HGE16005.WSN ^{1) 2)}	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Blank sides

³⁾ Open threaded cable entry with cap / cable sleeve

■ 16A÷160A HIGH WIRING CAPACITY >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y1	IP66	264x315x122mm		590.HEM1606.W ²⁾	1
	8P	Y1	IP66	264x315x122mm		590.HEM1608.W ²⁾	1
20A	2P	Y1	IP66	150x210x107mm		590.HEM2002.W ³⁾	1/5
	3P	Y1	IP66	150x210x107mm		590.HEM2003.W ³⁾	1/5
	3P+N	Y1	IP66	150x210x107mm		590.HEM2005.W ³⁾	1/5
	1P+SN	Y1	IP66	150x210x107mm		590.HEM2002.WSN ^{1) 3)}	1/5
	3P+SN	Y1	IP66	150x210x107mm		590.HEM2005.WSN ^{1) 3)}	1/5
25A	6P	Y1	IP66	264x315x122mm		590.HEM2506.W ²⁾	1
	8P	Y1	IP66	264x315x122mm		590.HEM2508.W ²⁾	1
	2P	Y1	IP66	150x210x107mm		590.HEM3202.W ³⁾	1/5
	3P	Y1	IP66	150x210x107mm		590.HEM3203.W ³⁾	1/5
32A	3P+N	Y1	IP66	150x210x107mm		590.HEM3205.W ³⁾	1/5
	6P	Y1	IP66	264x315x122mm		590.HEM3206.W ²⁾	1
	8P	Y1	IP66	264x315x122mm		590.HEM3208.W ²⁾	1
	1P+SN	Y1	IP66	150x210x107mm		590.HEM3202.WSN ^{1) 3)}	1/5
	3P+SN	Y1	IP66	150x210x107mm		590.HEM3205.WSN ^{1) 3)}	1/5
40A	2P	Y1	IP66	150x210x107mm		590.HEM4002.W ³⁾	1/5
	3P	Y1	IP66	150x210x107mm		590.HEM4003.W ³⁾	1/5
	3P+N	Y1	IP66	150x210x107mm		590.HEM4005.W ³⁾	1/5
	6P	Y1	IP66	264x315x122mm		590.HEM4006.W ²⁾	1
	8P	Y1	IP66	264x315x122mm		590.HEM4008.W ²⁾	1
63A	1P+SN	Y1	IP66	150x210x107mm		590.HEM4002.WSN ^{1) 3)}	1/5
	3P+SN	Y1	IP66	150x210x107mm		590.HEM4005.WSN ^{1) 3)}	1/5
	2P	Y2	IP65	264x315x112mm		590.HEM6302.W ²⁾	1
	3P	Y2	IP65	264x315x112mm		590.HEM6303.W ²⁾	1
	3P+N	Y2	IP65	264x315x112mm		590.HEM6305.W ²⁾	1
	6P	Y2	IP65	315x410x150mm		590.HEM6306.W ²⁾	1
	8P	Y2	IP65	315x410x150mm		590.HEM6308.W ²⁾	1
	1P+SN	Y2	IP65	264x315x112mm		590.HEM6302.WSN ^{1) 2)}	1
	3P+SN	Y2	IP65	264x315x112mm		590.HEM6305.WSN ^{1) 2)}	1
	80A	2P	Y2	IP65	264x315x112mm		590.HEM8002.W ²⁾
3P		Y2	IP65	264x315x112mm		590.HEM8003.W ²⁾	1
3P+N		Y2	IP65	264x315x112mm		590.HEM8005.W ²⁾	1
6P		Y2	IP65	315x410x150mm		590.HEM8006.W ²⁾	1
8P		Y2	IP65	315x410x150mm		590.HEM8008.W ²⁾	1
1P+SN		Y2	IP65	264x315x112mm		590.HEM8002.WSN ^{1) 2)}	1
100A	3P+SN	Y2	IP65	264x315x112mm		590.HEM8005.WSN ^{1) 2)}	1
	3P	K1	IP65	315x410x150mm		590.HEM10003.W ²⁾	1
	3P+N	K1	IP65	315x410x150mm		590.HEM10005.W ²⁾	1
125A	3P+SN	K1	IP65	315x410x150mm		590.HEM10005.WSN ^{1) 2)}	1
	3P	K1	IP65	315x410x150mm		590.HEM12503.W ²⁾	1
	3P+N	K1	IP65	315x410x150mm		590.HEM12505.W ²⁾	1
160A	3P+SN	K1	IP65	315x410x150mm		590.HEM12505.WSN ^{1) 2)}	1
	3P	K2	IP65	315x410x150mm		590.HEM16003.W ²⁾	1
	3P+N	K2	IP65	315x410x150mm		590.HEM16005.W ²⁾	1
160A	3P+SN	K2	IP65	315x410x150mm		590.HEM16005.WSN ^{1) 2)}	1

Handle padlockable in OFF position only (3 padlocks)

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Blank sides

³⁾ Open threaded cable entry with cap / cable sleeve






ISOLATORS-MS Series

ISOLATORS-MS is a complete range of switch-disconnectors in mild steel enclosure with "Double Layer Protection" treatment.

The first layer of cathodic electrophoresis paint with epoxy resin ensures a protective barrier against the corrosion, while the subsequent finishing topcoat of epoxy-polyester thermosetting powder confers resistance to UV rays.

The wide internal room of the enclosures allows comfortable cable accommodation and use of big size of cable gland able to accept big cable size.

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Technical information

Main characteristics



- 01** Blank sides
- 02** Highly manoeuvrable handle
- 03** Door locking with handle in the ON position
- 04** Handle padlockable in the OFF position
- 05** AC23 switch with the possibility of double auxiliary contact
- 06** Cathodic electrophoresis painted mild steel enclosure
- 07** Wall mounting via fixing holes or via external brackets

Applications examples



















































SWITCHGEARS

Switch-disconnectors

■ FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP65	150x210x107mm		590.MGE1606	1
	8P	Y3	IP65	150x210x107mm		590.MGE1608	1
20A	2P	Y1	IP65	150x210x107mm		590.MGE2002	1
	3P	Y1	IP65	150x210x107mm		590.MGE2003	1
	3P+N	Y1	IP65	150x210x107mm		590.MGE2005	1
	1P+SN	Y1	IP65	150x210x107mm		590.MGE2002.SN ¹⁾	1
	3P+SN	Y1	IP65	150x210x107mm		590.MGE2005.SN ¹⁾	1
25A	6P	Y3	IP65	150x210x107mm		590.MGE2506	1
	8P	Y3	IP65	150x210x107mm		590.MGE2508	1
	2P	Y1	IP65	150x210x107mm		590.MGE3202	1
32A	3P	Y1	IP65	150x210x107mm		590.MGE3203	1
	3P+N	Y1	IP65	150x210x107mm		590.MGE3205	1
	6P	Y3	IP65	150x210x107mm		590.MGE3206	1
	8P	Y3	IP65	150x210x107mm		590.MGE3208	1
	1P+SN	Y1	IP65	150x210x107mm		590.MGE3202.SN ¹⁾	1
	3P+SN	Y1	IP65	150x210x107mm		590.MGE3205.SN ¹⁾	1
40A	2P	Y1	IP65	150x210x107mm		590.MGE4002	1
	3P	Y1	IP65	150x210x107mm		590.MGE4003	1
	3P+N	Y1	IP65	150x210x107mm		590.MGE4005	1
	6P	Y3	IP65	150x210x107mm		590.MGE4006	1
	8P	Y3	IP65	150x210x107mm		590.MGE4008	1
63A	1P+SN	Y1	IP65	150x210x107mm		590.MGE4002.SN ¹⁾	1
	3P+SN	Y1	IP65	150x210x107mm		590.MGE4005.SN ¹⁾	1
	2P	Y2	IP65	150x210x107mm		590.MGE6302	1
	3P	Y2	IP65	150x210x107mm		590.MGE6303	1
	3P+N	Y2	IP65	150x210x107mm		590.MGE6305	1
	6P	Y4	IP65	200x300x120mm		590.MGE6306	1
	8P	Y4	IP65	200x300x120mm		590.MGE6308	1
	1P+SN	Y2	IP65	150x210x107mm		590.MGE6302.SN ¹⁾	1
	3P+SN	Y2	IP65	150x210x107mm		590.MGE6305.SN ¹⁾	1
	80A	2P	Y2	IP65	150x210x107mm		590.MGE8002
3P		Y2	IP65	150x210x107mm		590.MGE8003	1
3P+N		Y2	IP65	150x210x107mm		590.MGE8005	1
6P		Y4	IP65	200x300x120mm		590.MGE8006	1
8P		Y4	IP65	200x300x120mm		590.MGE8008	1
100A	1P+SN	Y2	IP65	150x210x107mm		590.MGE8002.SN ¹⁾	1
	3P+SN	Y2	IP65	150x210x107mm		590.MGE8005.SN ¹⁾	1
	3P	Y4	IP65	200x300x120mm		590.MGE10003	1
	3P+N	Y4	IP65	200x300x120mm		590.MGE10005	1
	6P	Y4	IP65	300x400x120mm		590.MGE10006	1
125A	8P	Y4	IP65	300x400x120mm		590.MGE10008	1
	3P+SN	Y4	IP65	200x300x120mm		590.MGE10005.SN ¹⁾	1
	3P	Y5	IP65	200x300x120mm		590.MGE12503	1
	3P+N	Y5	IP65	200x300x120mm		590.MGE12505	1
	6P	Y5	IP65	300x400x120mm		590.MGE12506	1
	8P	Y5	IP65	300x400x120mm		590.MGE12508	1
	3P+SN	Y5	IP65	200x300x120mm		590.MGE12505.SN ¹⁾	1

Handle padlockable in OFF position only (3 padlocks)
Blank sides

¹⁾ Unswitched neutral (solid neutral terminal block)

■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP65	150x210x107mm		590.MEM1606	1
	8P	Y3	IP65	150x210x107mm		590.MEM1608	1
20A	2P	Y1	IP65	150x210x107mm		590.MEM2002	1
	3P	Y1	IP65	150x210x107mm		590.MEM2003	1
	3P+N	Y1	IP65	150x210x107mm		590.MEM2005	1
	1P+SN	Y1	IP65	150x210x107mm		590.MEM2002.SN ¹⁾	1
	3P+SN	Y1	IP65	150x210x107mm		590.MEM2005.SN ¹⁾	1
25A	6P	Y3	IP65	150x210x107mm		590.MEM2506	1
	8P	Y3	IP65	150x210x107mm		590.MEM2508	1
	2P	Y1	IP65	150x210x107mm		590.MEM3202	1
	3P	Y1	IP65	150x210x107mm		590.MEM3203	1
32A	3P+N	Y1	IP65	150x210x107mm		590.MEM3205	1
	6P	Y3	IP65	150x210x107mm		590.MEM3206	1
	8P	Y3	IP65	150x210x107mm		590.MEM3208	1
	1P+SN	Y1	IP65	150x210x107mm		590.MEM3202.SN ¹⁾	1
	3P+SN	Y1	IP65	150x210x107mm		590.MEM3205.SN ¹⁾	1
40A	2P	Y1	IP65	150x210x107mm		590.MEM4002	1
	3P	Y1	IP65	150x210x107mm		590.MEM4003	1
	3P+N	Y1	IP65	150x210x107mm		590.MEM4005	1
	6P	Y3	IP65	150x210x107mm		590.MEM4006	1
	8P	Y3	IP65	150x210x107mm		590.MEM4008	1
63A	1P+SN	Y1	IP65	150x210x107mm		590.MEM4002.SN ¹⁾	1
	3P+SN	Y1	IP65	150x210x107mm		590.MEM4005.SN ¹⁾	1
	2P	Y2	IP65	150x210x107mm		590.MEM6302	1
	3P	Y2	IP65	150x210x107mm		590.MEM6303	1
	3P+N	Y2	IP65	150x210x107mm		590.MEM6305	1
80A	6P	Y4	IP65	200x300x120mm		590.MEM6306	1
	8P	Y4	IP65	200x300x120mm		590.MEM6308	1
	1P+SN	Y2	IP65	150x210x107mm		590.MEM6302.SN ¹⁾	1
	3P+SN	Y2	IP65	150x210x107mm		590.MEM6305.SN ¹⁾	1
100A	2P	Y2	IP65	150x210x107mm		590.MEM8002	1
	3P	Y2	IP65	150x210x107mm		590.MEM8003	1
	3P+N	Y2	IP65	150x210x107mm		590.MEM8005	1
	6P	Y4	IP65	200x300x120mm		590.MEM8006	1
	8P	Y4	IP65	200x300x120mm		590.MEM8008	1
125A	1P+SN	Y2	IP65	150x210x107mm		590.MEM8002.SN ¹⁾	1
	3P+SN	Y2	IP65	150x210x107mm		590.MEM8005.SN ¹⁾	1
	3P	Y4	IP65	200x300x120mm		590.MEM10003	1
	3P+N	Y4	IP65	200x300x120mm		590.MEM10005	1
100A	6P	Y4	IP65	300x400x120mm		590.MEM10006	1
	8P	Y4	IP65	300x400x120mm		590.MEM10008	1
	3P+SN	Y4	IP65	200x300x120mm		590.MEM10005.SN ¹⁾	1
125A	3P	Y5	IP65	200x300x120mm		590.MEM12503	1
	3P+N	Y5	IP65	200x300x120mm		590.MEM12505	1
	6P	Y5	IP65	300x400x120mm		590.MEM12506	1
125A	8P	Y5	IP65	300x400x120mm		590.MEM12508	1
	3P+SN	Y5	IP65	200x300x120mm		590.MEM12505.SN ¹⁾	1

Handle padlockable in OFF position only (3 padlocks)
Blank sides

¹⁾Unswitched neutral (solid neutral terminal block)






ISOLATORS-INOX Series

ISOLATORS-INOX is a complete range of switch-disconnectors with AISI304L stainless steel casing (on request AISI316L) and specific solutions to prevent the accumulation of dirt, thus guaranteeing mechanical and environmental performance unaltered over time.

ISOLATORS-INOX are the best choice where maximum hygiene is required together with excellent resistance to corrosion due to aggressive detergents such as in the food and pharmaceutical industries, or to high salt or chemical concentrations such as in ports and in particular industrial environments or, again, in the presence of chlorine as in swimming pools.

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Technical information

Main characteristics



- 01** Blank sides
- 02** Ergonomic XXL handle
- 03** Enclosure in AISI 304 stainless steel (AISI 316 on request)
- 04** AC23 switch with the possibility of double auxiliary contact
- 05** Handle padlockable in the OFF (emergency use) and ON and OFF (general use) position
- 06** Door locking with handle in the ON position
- 07** Wall fixing by means of cantilevered brackets to prevent dirt deposits

■ FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP65	250x280x120mm		590.SGE1606	1
	8P	Y3	IP65	250x280x120mm		590.SGE1608	1
20A	2P	Y1	IP65	100x160x90mm		590.SGE2002	1
	3P	Y1	IP65	100x160x90mm		590.SGE2003	1
	3P+N	Y1	IP65	100x160x90mm		590.SGE2005	1
	1P+SN	Y1	IP65	100x160x90mm		590.SGE2002.SN ¹⁾	1
	3P+SN	Y1	IP65	100x160x90mm		590.SGE2005.SN ¹⁾	1
25A	6P	Y3	IP65	250x280x120mm		590.SGE2506	1
	8P	Y3	IP65	250x280x120mm		590.SGE2508	1
	2P	Y1	IP65	100x160x90mm		590.SGE3202	1
32A	3P	Y1	IP65	100x160x90mm		590.SGE3203	1
	3P+N	Y1	IP65	100x160x90mm		590.SGE3205	1
	6P	Y3	IP65	250x280x120mm		590.SGE3206	1
	8P	Y3	IP65	250x280x120mm		590.SGE3208	1
	1P+SN	Y1	IP65	100x160x90mm		590.SGE3202.SN ¹⁾	1
	3P+SN	Y1	IP65	100x160x90mm		590.SGE3205.SN ¹⁾	1
40A	2P	Y1	IP65	100x160x90mm		590.SGE4002	1
	3P	Y1	IP65	100x160x90mm		590.SGE4003	1
	3P+N	Y1	IP65	100x160x90mm		590.SGE4005	1
	6P	Y3	IP65	250x280x120mm		590.SGE4006	1
	8P	Y3	IP65	250x280x120mm		590.SGE4008	1
63A	1P+SN	Y1	IP65	100x160x90mm		590.SGE4002.SN ¹⁾	1
	3P+SN	Y1	IP65	100x160x90mm		590.SGE4005.SN ¹⁾	1
	3P	Y4	IP65	150x220x120mm		590.SGE6303	1
	3P+N	Y4	IP65	150x220x120mm		590.SGE6305	1
	6P	Y4	IP65	250x280x120mm		590.SGE6306	1
	8P	Y4	IP65	250x280x120mm		590.SGE6308	1
	3P+SN	Y4	IP65	150x220x120mm		590.SGE6305.SN ¹⁾	1
	3P	Y4	IP65	150x220x120mm		590.SGE8003	1
80A	3P+N	Y4	IP65	150x220x120mm		590.SGE8005	1
	6P	Y4	IP65	250x280x120mm		590.SGE8006	1
	8P	Y4	IP65	250x280x120mm		590.SGE8008	1
	3P+SN	Y4	IP65	150x220x120mm		590.SGE8005.SN ¹⁾	1
	3P	Y4	IP65	150x220x120mm		590.SGE10003	1
100A	3P+N	Y4	IP65	150x220x120mm		590.SGE10005	1
	6P	Y4	IP65	250x280x120mm		590.SGE10006	1
	8P	Y4	IP65	250x280x120mm		590.SGE10008	1
	3P+SN	Y4	IP65	150x220x120mm		590.SGE10005.SN ¹⁾	1
125A	3P	Y5	IP65	300x400x150mm		590.SGE12503	1
	3P+N	Y5	IP65	300x400x150mm		590.SGE12505	1
	6P	Y5	IP65	300x400x150mm		590.SGE12506	1
	8P	Y5	IP65	300x400x150mm		590.SGE12508	1
	3P+SN	Y5	IP65	300x400x150mm		590.SGE12505.SN ¹⁾	1
160A	3P	Y5	IP65	300x400x150mm		590.SGE16003	1
	3P+N	Y5	IP65	300x400x150mm		590.SGE16005	1
	6P	Y5	IP65	300x400x150mm		590.SGE16006	1
	8P	Y5	IP65	300x400x150mm		590.SGE16008	1
	3P+SN	Y5	IP65	300x400x150mm		590.SGE16005.SN ¹⁾	1

Handle padlockable in OFF position only (3 padlocks)
Blank sides

¹⁾ Unswitched neutral (solid neutral terminal block)



SWITCHGEARS

Switch-disconnectors

■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP65	250x280x120mm		590.SEM1606	1
	8P	Y3	IP65	250x280x120mm		590.SEM1608	1
20A	2P	Y1	IP65	100x160x90mm		590.SEM2002	1
	3P	Y1	IP65	100x160x90mm		590.SEM2003	1
	3P+N	Y1	IP65	100x160x90mm		590.SEM2005	1
	1P+SN	Y1	IP65	100x160x90mm		590.SEM2002.SN ¹⁾	1
	3P+SN	Y1	IP65	100x160x90mm		590.SEM2005.SN ¹⁾	1
25A	6P	Y3	IP65	250x280x120mm		590.SEM2506	1
	8P	Y3	IP65	250x280x120mm		590.SEM2508	1
	2P	Y1	IP65	100x160x90mm		590.SEM3202	1
32A	3P	Y1	IP65	100x160x90mm		590.SEM3203	1
	3P+N	Y1	IP65	100x160x90mm		590.SEM3205	1
	6P	Y3	IP65	250x280x120mm		590.SEM3206	1
	8P	Y3	IP65	250x280x120mm		590.SEM3208	1
	1P+SN	Y1	IP65	100x160x90mm		590.SEM3202.SN ¹⁾	1
	3P+SN	Y1	IP65	100x160x90mm		590.SEM3205.SN ¹⁾	1
40A	2P	Y1	IP65	100x160x90mm		590.SEM4002	1
	3P	Y1	IP65	100x160x90mm		590.SEM4003	1
	3P+N	Y1	IP65	100x160x90mm		590.SEM4005	1
	6P	Y3	IP65	250x280x120mm		590.SEM4006	1
	8P	Y3	IP65	250x280x120mm		590.SEM4008	1
63A	1P+SN	Y1	IP65	100x160x90mm		590.SEM4002.SN ¹⁾	1
	3P+SN	Y1	IP65	100x160x90mm		590.SEM4005.SN ¹⁾	1
	3P	Y4	IP65	150x220x120mm		590.SEM6303	1
	3P+N	Y4	IP65	150x220x120mm		590.SEM6305	1
	6P	Y4	IP65	250x280x120mm		590.SEM6306	1
	8P	Y4	IP65	250x280x120mm		590.SEM6308	1
	3P+SN	Y4	IP65	150x220x120mm		590.SEM6305.SN ¹⁾	1
80A	3P	Y4	IP65	150x220x120mm		590.SEM8003	1
	3P+N	Y4	IP65	150x220x120mm		590.SEM8005	1
	6P	Y4	IP65	250x280x120mm		590.SEM8006	1
	8P	Y4	IP65	250x280x120mm		590.SEM8008	1
	3P+SN	Y4	IP65	150x220x120mm		590.SEM8005.SN ¹⁾	1
100A	3P	Y4	IP65	150x220x120mm		590.SEM10003	1
	3P+N	Y4	IP65	150x220x120mm		590.SEM10005	1
	6P	Y4	IP65	250x280x120mm		590.SEM10006	1
	8P	Y4	IP65	250x280x120mm		590.SEM10008	1
125A	3P+SN	Y4	IP65	150x220x120mm		590.SEM10005.SN ¹⁾	1
	3P	Y5	IP65	300x400x150mm		590.SEM12503	1
	3P+N	Y5	IP65	300x400x150mm		590.SEM12505	1
	6P	Y5	IP65	300x400x150mm		590.SEM12506	1
	8P	Y5	IP65	300x400x150mm		590.SEM12508	1
160A	3P+SN	Y5	IP65	300x400x150mm		590.SEM12505.SN ¹⁾	1
	3P	Y5	IP65	300x400x150mm		590.SEM16003	1
	3P+N	Y5	IP65	300x400x150mm		590.SEM16005	1
	6P	Y5	IP65	300x400x150mm		590.SEM16006	1
	8P	Y5	IP65	300x400x150mm		590.SEM16008	1
	3P+SN	Y5	IP65	300x400x150mm		590.SEM16005.SN ¹⁾	1

Handle padlockable in OFF position only (3 padlocks)
Blank sides

¹⁾Unswitched neutral (solid neutral terminal block)

■ FOR GENERAL USE - HIGH WIRING CAPACITY



Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	3P	Y1	IP65	150x160x90mm		590.SGE2003.W	1
	3P+N	Y1	IP65	150x160x90mm		590.SGE2005.W	1
32A	3P	Y1	IP65	150x160x90mm		590.SGE3203.W	1
	3P+N	Y1	IP65	150x160x90mm		590.SGE3205.W	1
40A	3P	Y1	IP65	150x160x90mm		590.SGE4003.W	1
	3P+N	Y1	IP65	150x160x90mm		590.SGE4005.W	1

Handle padlockable in OFF position only (3 padlocks)
Blank sides

Type: GENERAL



SWITCH-DISCONNECTORS
ISOLATORS-INOX SERIES

Applications examples



Food industry



Chemical industry



Pharma industry



ISOLATORS-HR Series

ISOLATORS-HR (High Rating) is a complete range of switch-disconnectors with painted sheet steel enclosure with hinged door. The width of the enclosure allows the wiring of cables of large sections, necessary for high power applications and with long power lines, while the high electrical performance guarantees absolute resistance to short circuits caused by high currents.

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Technical information

Main characteristics



- 01** Blank sides
- 02** Highly manoeuvrable handle
- 03** Door locking with handle in the ON position
- 04** Handle padlockable in the OFF position
- 05** AC23 switch with the possibility of double auxiliary contact

- 06** Cathaphoresis painted metal enclosure
- 07** Removable cable gland plate
- 08** BOTTOM-BOTTOM version with busbar system for the connection of cables
- 09** Wall mounting via external brackets
- 10** Reinforced stainless steel hinges

■ FOR GENERAL USE - TOP/BOTTOM



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
100A	6P	K1	IP65	400x500x200mm	■	590.KGE10006	1
	8P	K1	IP65	400x500x200mm	■	590.KGE10008	1
125A	6P	K1	IP65	400x500x200mm	■	590.KGE12506	1
	8P	K1	IP65	400x500x200mm	■	590.KGE12508	1
160A	3P	K2	IP65	300x500x200mm	■	590.KGE16003	1
	3P+N	K2	IP65	300x500x200mm	■	590.KGE16005	1
	6P	K2	IP65	500x700x250mm	■	590.KGE16006	1
	8P	K2	IP65	500x700x250mm	■	590.KGE16008	1
	3P+SN	K2	IP65	300x500x200mm	■	590.KGE16005.SN ¹⁾	1
200A	3P	K2	IP65	300x500x200mm	■	590.KGE20003	1
	3P+N	K2	IP65	300x500x200mm	■	590.KGE20005	1
	6P	K2	IP65	600x800x300mm	■	590.KGE20006	1
	8P	K2	IP65	600x800x300mm	■	590.KGE20008	1
	3P+SN	K2	IP65	300x500x200mm	■	590.KGE20005.SN ¹⁾	1
250A	3P	K2	IP65	300x500x200mm	■	590.KGE25003	1
	3P+N	K2	IP65	300x500x200mm	■	590.KGE25005	1
	6P	K2	IP65	600x800x300mm	■	590.KGE25006	1
	8P	K2	IP65	600x800x300mm	■	590.KGE25008	1
	3P+SN	K2	IP65	300x500x200mm	■	590.KGE25005.SN ¹⁾	1
315A	3P	K3	IP65	400x600x200mm	■	590.KGE31503	1
	3P+N	K3	IP65	400x600x200mm	■	590.KGE31505	1
	6P	K3	IP65	800x800x300mm	■	590.KGE31506	1
	8P	K3	IP65	800x800x300mm	■	590.KGE31508	1
	3P+SN	K3	IP65	400x600x200mm	■	590.KGE31505.SN ¹⁾	1
400A	3P	K3	IP65	400x600x200mm	■	590.KGE40003	1
	3P+N	K3	IP65	400x600x200mm	■	590.KGE40005	1
	6P	K3	IP65	800x800x300mm	■	590.KGE40006	1
	8P	K3	IP65	800x800x300mm	■	590.KGE40008	1
	3P+SN	K3	IP65	400x600x200mm	■	590.KGE40005.SN ¹⁾	1
500A	3P	K3	IP65	500x700x250mm	■	590.KGE50003	1
	3P+N	K3	IP65	500x700x250mm	■	590.KGE50005	1
	6P	K3	IP65	800x800x300mm	■	590.KGE50006	1
	8P	K3	IP65	800x800x300mm	■	590.KGE50008	1
	3P+SN	K3	IP65	500x700x250mm	■	590.KGE50005.SN ¹⁾	1
630A	3P	K4	IP65	500x700x250mm	■	590.KGE63003	1
	3P+N	K4	IP65	500x700x250mm	■	590.KGE63005	1
	6P	K4	IP65	1000x1000x300mm	■	590.KGE63006	1
	8P	K4	IP65	1000x1000x300mm	■	590.KGE63008	1
	3P+SN	K4	IP65	500x700x250mm	■	590.KGE63005.SN ¹⁾	1
800A	3P	K5	IP65	600x1000x300mm	■	590.KGE80003	1
	3P+N	K5	IP65	600x1000x300mm	■	590.KGE80005	1
	3P+SN	K5	IP65	600x1000x300mm	■	590.KGE80005.SN ¹⁾	1
1000A	3P	K5	IP65	600x1000x300mm	■	590.KGE100003	1
	3P+N	K5	IP65	600x1000x300mm	■	590.KGE100005	1
	3P+SN	K5	IP65	600x1000x300mm	■	590.KGE100005.SN ¹⁾	1
1250A	3P	K5	IP65	600x1000x300mm	■	590.KGE125003	1
	3P+N	K5	IP65	600x1000x300mm	■	590.KGE125005	1
	3P+SN	K5	IP65	600x1000x300mm	■	590.KGE125005.SN ¹⁾	1
1600A	3P	K6	IP65	600x1000x300mm	■	590.KGE160003 ²⁾	1
	3P+N	K6	IP65	600x1000x300mm	■	590.KGE160005 ²⁾	1
	3P+SN	K6	IP65	600x1000x300mm	■	590.KGE160005.SN ^{1) 2)}	1

Handle padlockable in OFF position only (3 padlocks)

TOP/BOTTOM = Top/Bottom connection

Gland plate cable entry on bottom side

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Neutral pole 1250A. Full current neutral pole on request.





































SWITCHGEARS

Switch-disconnectors

■ FOR GENERAL USE - BOTTOM/BOTTOM



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
160A	3P	K2	IP65	300x500x200mm		590.KGE16003B	1
	3P+N	K2	IP65	300x500x200mm		590.KGE16005B	1
	3P+SN	K2	IP65	300x500x200mm		590.KGE16005BSN ¹⁾	1
200A	3P	K2	IP65	300x500x200mm		590.KGE20003B	1
	3P+N	K2	IP65	300x500x200mm		590.KGE20005B	1
	3P+SN	K2	IP65	300x500x200mm		590.KGE20005BSN ¹⁾	1
250A	3P	K2	IP65	300x500x200mm		590.KGE25003B	1
	3P+N	K2	IP65	300x500x200mm		590.KGE25005B	1
	3P+SN	K2	IP65	300x500x200mm		590.KGE25005BSN ¹⁾	1
315A	3P	K3	IP65	400x600x200mm		590.KGE31503B	1
	3P+N	K3	IP65	400x600x200mm		590.KGE31505B	1
	3P+SN	K3	IP65	400x600x200mm		590.KGE31505BSN ¹⁾	1
400A	3P	K3	IP65	400x600x200mm		590.KGE40003B	1
	3P+N	K3	IP65	400x600x200mm		590.KGE40005B	1
	3P+SN	K3	IP65	400x600x200mm		590.KGE40005BSN ¹⁾	1
500A	3P	K3	IP65	500x700x250mm		590.KGE50003B	1
	3P+N	K3	IP65	500x700x250mm		590.KGE50005B	1
	3P+SN	K3	IP65	500x700x250mm		590.KGE50005BSN ¹⁾	1
630A	3P	K4	IP65	800x800x300mm		590.KGE63003B	1
	3P+N	K4	IP65	800x800x300mm		590.KGE63005B	1
	3P+SN	K4	IP65	800x800x300mm		590.KGE63005BSN ¹⁾	1
800A	3P	K5	IP65	800x800x300mm		590.KGE80003B	1
	3P+N	K5	IP65	800x800x300mm		590.KGE80005B	1
	3P+SN	K5	IP65	800x800x300mm		590.KGE80005BSN ¹⁾	1
1000A	3P	K5	IP65	1000x1000x300mm		590.KGE100003B	1
	3P+N	K5	IP65	1000x1000x300mm		590.KGE100005B	1
	3P+SN	K5	IP65	1000x1000x300mm		590.KGE100005BSN ¹⁾	1
1250A	3P	K5	IP65	1000x1000x300mm		590.KGE125003B	1
	3P+N	K5	IP65	1000x1000x300mm		590.KGE125005B	1
	3P+SN	K5	IP65	1000x1000x300mm		590.KGE125005BSN ¹⁾	1
1600A	3P	K6	IP65	1000x1000x300mm		590.KGE160003B ²⁾	1
	3P+N	K6	IP65	1000x1000x300mm		590.KGE160005B ²⁾	1
	3P+SN	K6	IP65	1000x1000x300mm		590.KGE160005BSN ^{1) 2)}	1

Handle padlockable in OFF position only (3 padlocks)

Gland plate cable entry on bottom side

BOTTOM/BOTTOM = Bottom/Bottom connection with busbar

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Neutral pole 1250A. Full current neutral pole on request.

■ FOR EMERGENCY USE - TOP/BOTTOM



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
100A	6P	K1	IP65	400x500x200mm		590.KEM10006	1
	8P	K1	IP65	400x500x200mm		590.KEM10008	1
125A	6P	K1	IP65	400x500x200mm		590.KEM12506	1
	8P	K1	IP65	400x500x200mm		590.KEM12508	1
160A	3P	K2	IP65	300x500x200mm		590.KEM16003	1
	3P+N	K2	IP65	300x500x200mm		590.KEM16005	1
	6P	K2	IP65	500x700x250mm		590.KEM16006	1
	8P	K2	IP65	500x700x250mm		590.KEM16008	1
	3P+SN	K2	IP65	300x500x200mm		590.KEM16005.SN ¹⁾	1
200A	3P	K2	IP65	300x500x200mm		590.KEM20003	1
	3P+N	K2	IP65	300x500x200mm		590.KEM20005	1
	6P	K2	IP65	600x800x300mm		590.KEM20006	1
	8P	K2	IP65	600x800x300mm		590.KEM20008	1
	3P+SN	K2	IP65	300x500x200mm		590.KEM20005.SN ¹⁾	1
250A	3P	K2	IP65	300x500x200mm		590.KEM25003	1
	3P+N	K2	IP65	300x500x200mm		590.KEM25005	1
	6P	K2	IP65	600x800x300mm		590.KEM25006	1
	8P	K2	IP65	600x800x300mm		590.KEM25008	1
	3P+SN	K2	IP65	300x500x200mm		590.KEM25005.SN ¹⁾	1
315A	3P	K3	IP65	400x600x200mm		590.KEM31503	1
	3P+N	K3	IP65	400x600x200mm		590.KEM31505	1
	6P	K3	IP65	800x800x300mm		590.KEM31506	1
	8P	K3	IP65	800x800x300mm		590.KEM31508	1
	3P+SN	K3	IP65	400x600x200mm		590.KEM31505.SN ¹⁾	1
400A	3P	K3	IP65	400x600x200mm		590.KEM40003	1
	3P+N	K3	IP65	400x600x200mm		590.KEM40005	1
	6P	K3	IP65	800x800x300mm		590.KEM40006	1
	8P	K3	IP65	800x800x300mm		590.KEM40008	1
	3P+SN	K3	IP65	400x600x200mm		590.KEM40005.SN ¹⁾	1
500A	3P	K3	IP65	500x700x250mm		590.KEM50003	1
	3P+N	K3	IP65	500x700x250mm		590.KEM50005	1
	6P	K3	IP65	800x800x300mm		590.KEM50006	1
	8P	K3	IP65	800x800x300mm		590.KEM50008	1
	3P+SN	K3	IP65	500x700x250mm		590.KEM50005.SN ¹⁾	1
630A	3P	K4	IP65	500x700x250mm		590.KEM63003	1
	3P+N	K4	IP65	500x700x250mm		590.KEM63005	1
	6P	K4	IP65	1000x1000x300mm		590.KEM63006	1
	8P	K4	IP65	1000x1000x300mm		590.KEM63008	1
	3P+SN	K4	IP65	500x700x250mm		590.KEM63005.SN ¹⁾	1
800A	3P	K5	IP65	600x1000x300mm		590.KEM80003	1
	3P+N	K5	IP65	600x1000x300mm		590.KEM80005	1
	3P+SN	K5	IP65	600x1000x300mm		590.KEM80005.SN ¹⁾	1
1000A	3P	K5	IP65	600x1000x300mm		590.KEM100003	1
	3P+N	K5	IP65	600x1000x300mm		590.KEM100005	1
	3P+SN	K5	IP65	600x1000x300mm		590.KEM100005.SN ¹⁾	1
1250A	3P	K5	IP65	600x1000x300mm		590.KEM125003	1
	3P+N	K5	IP65	600x1000x300mm		590.KEM125005	1
1600A	3P+SN	K5	IP65	600x1000x300mm		590.KEM125005.SN ¹⁾	1
	3P	K6	IP65	600x1000x300mm		590.KEM160003 ²⁾	1
	3P+N	K6	IP65	600x1000x300mm		590.KEM160005 ²⁾	1
	3P+SN	K6	IP65	600x1000x300mm		590.KEM160005.SN ^{1) 2)}	1

Handle padlockable in OFF position only (3 padlocks)

TOP/BOTTOM = Top/Bottom connection

Gland plate cable entry on bottom side

¹⁾ Unswitched neutral (solid neutral terminal block)

²⁾ Neutral pole 1250A. Full current neutral pole on request.





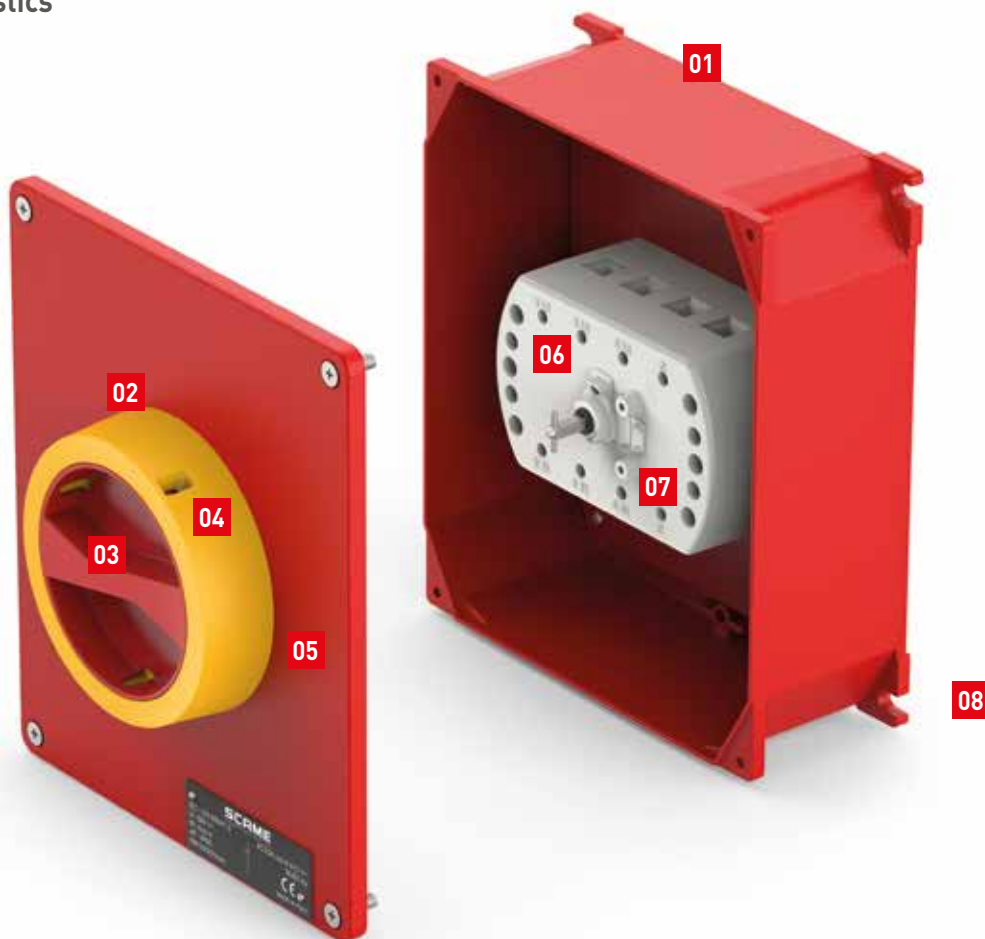
ISOLATORS-FR Series

ISOLATORS-FR is a range of fire rated switch-disconnectors able to withstand, depending on the version, a temperature of 400°C (F400) or 200°C (F200) for 120 minutes, guaranteeing the operation of the smoke extraction systems as required by the EN 12101-3 (2002) Standard. The enclosure, in die-cast aluminum for sizes from 20 to 160A or in sheet metal with hinged door for versions from 200 to 630A, is equipped with a door lock mechanism in the ON position while the handles can be padlocked in the ON and OFF position.

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Technical information

Main characteristics F400



- 01** Blank sides
- 02** High visibility ergonomic XXL handle
- 03** Handle padlockable in the ON and OFF position (both for general and emergency use)
- 04** Door locking with handle in the ON position
- 05** Die-cast aluminium epoxy polyurethane painted enclosure with high resistance to atmospheric agents. Sheet steel versions cataphoresis painted
- 06** Switch made entirely of thermosetting GRP material with high heat resistance
- 07** AC23 switch with the possibility of double auxiliary contact
- 08** Slotted external fixing points

Application examples



Basement parking



Emergency evacuation exit

■ F200 >> ALUMINIUM VERSION - 16A÷160A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66	150x210x107mm		590.F2GE1606	1
	2P	Y1	IP66	105x150x82mm		590.F2GE2002	1
20A	3P	Y1	IP66	105x150x82mm		590.F2GE2003	1
	3P+N	Y1	IP66	105x150x82mm		590.F2GE2005	1
25A	6P	Y3	IP66	150x210x107mm		590.F2GE2506	1
	2P	Y1	IP66	105x150x82mm		590.F2GE3202	1
32A	3P	Y1	IP66	105x150x82mm		590.F2GE3203	1
	3P+N	Y1	IP66	105x150x82mm		590.F2GE3205	1
	6P	Y3	IP66	150x210x107mm		590.F2GE3206	1
40A	2P	Y1	IP66	105x150x82mm		590.F2GE4002	1
	3P	Y1	IP66	105x150x82mm		590.F2GE4003	1
	3P+N	Y1	IP66	105x150x82mm		590.F2GE4005	1
63A	6P	Y3	IP66	150x210x107mm		590.F2GE4006	1
	2P	Y2	IP66	150x210x107mm		590.F2GE6302	1
	3P	Y2	IP66	150x210x107mm		590.F2GE6303	1
	3P+N	Y2	IP66	150x210x107mm		590.F2GE6305	1
80A	6P	Y4	IP65	264x315x122mm		590.F2GE6306	1
	2P	Y2	IP66	150x210x107mm		590.F2GE8002	1
	3P	Y2	IP66	150x210x107mm		590.F2GE8003	1
	3P+N	Y2	IP66	150x210x107mm		590.F2GE8005	1
100A	6P	Y4	IP65	264x315x122mm		590.F2GE8006	1
	3P	Y4	IP66	150x210x107mm		590.F2GE10003	1
	3P+N	Y4	IP66	150x210x107mm		590.F2GE10005	1
125A	6P	Y4	IP65	264x315x122mm		590.F2GE10006	1
	3P	Y5	IP65	264x315x122mm		590.F2GE12503	1
	3P+N	Y5	IP65	264x315x122mm		590.F2GE12505	1
160A	6P	Y5	IP65	315x410x150mm		590.F2GE12506	1
	3P	Y5	IP65	315x410x150mm		590.F2GE16003	1
	3P+N	Y5	IP65	315x410x150mm		590.F2GE16005	1
	6P	Y5	IP65	315x410x150mm		590.F2GE16006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides

SWITCHGEARS

Switch-disconnectors

■ F200 >> ALUMINIUM VERSION - 16A÷160A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	6P	Y3	IP66	150x210x107mm		590.F2EM1606	1
	2P	Y1	IP66	105x150x82mm		590.F2EM2002	1
20A	3P	Y1	IP66	105x150x82mm		590.F2EM2003	1
	3P+N	Y1	IP66	105x150x82mm		590.F2EM2005	1
25A	6P	Y3	IP66	150x210x107mm		590.F2EM2506	1
	2P	Y1	IP66	105x150x82mm		590.F2EM3202	1
32A	3P	Y1	IP66	105x150x82mm		590.F2EM3203	1
	3P+N	Y1	IP66	105x150x82mm		590.F2EM3205	1
	6P	Y3	IP66	150x210x107mm		590.F2EM3206	1
40A	2P	Y1	IP66	105x150x82mm		590.F2EM4002	1
	3P	Y1	IP66	105x150x82mm		590.F2EM4003	1
	3P+N	Y1	IP66	105x150x82mm		590.F2EM4005	1
63A	6P	Y3	IP66	150x210x107mm		590.F2EM4006	1
	2P	Y2	IP66	150x210x107mm		590.F2EM6302	1
	3P	Y2	IP66	150x210x107mm		590.F2EM6303	1
80A	3P+N	Y2	IP66	150x210x107mm		590.F2EM6305	1
	6P	Y4	IP65	264x315x122mm		590.F2EM6306	1
	2P	Y2	IP66	150x210x107mm		590.F2EM8002	1
100A	3P	Y2	IP66	150x210x107mm		590.F2EM8003	1
	3P+N	Y2	IP66	150x210x107mm		590.F2EM8005	1
	6P	Y4	IP65	264x315x122mm		590.F2EM8006	1
125A	3P	Y4	IP66	150x210x107mm		590.F2EM10003	1
	3P+N	Y4	IP66	150x210x107mm		590.F2EM10005	1
	6P	Y4	IP65	264x315x122mm		590.F2EM10006	1
160A	3P	Y5	IP65	264x315x122mm		590.F2EM12503	1
	3P+N	Y5	IP65	264x315x122mm		590.F2EM12505	1
	6P	Y5	IP65	315x410x150mm		590.F2EM12506	1
160A	3P	Y5	IP65	315x410x150mm		590.F2EM16003	1
	3P+N	Y5	IP65	315x410x150mm		590.F2EM16005	1
	6P	Y5	IP65	315x410x150mm		590.F2EM16006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides

■ F200 >> METAL VERSION (HR) >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
200A	3P	K2	IP65	300x500x200mm		590.F2GE20003	1
	3P+N	K2	IP65	300x500x200mm		590.F2GE20005	1
	6P	K2	IP65	600x800x300mm		590.F2GE20006	1
250A	3P	K2	IP65	300x500x200mm		590.F2GE25003	1
	3P+N	K2	IP65	300x500x200mm		590.F2GE25005	1
	6P	K2	IP65	600x800x300mm		590.F2GE25006	1
315A	3P	K3	IP65	400x600x200mm		590.F2GE31503	1
	3P+N	K3	IP65	400x600x200mm		590.F2GE31505	1
	6P	K3	IP65	800x800x300mm		590.F2GE31506	1
400A	3P	K3	IP65	400x600x200mm		590.F2GE40003	1
	3P+N	K3	IP65	400x600x200mm		590.F2GE40005	1
	6P	K3	IP65	800x800x300mm		590.F2GE40006	1
500A	3P	K3	IP65	500x700x250mm		590.F2GE50003	1
	3P+N	K3	IP65	500x700x250mm		590.F2GE50005	1
	6P	K3	IP65	800x800x300mm		590.F2GE50006	1
630A	3P	K4	IP65	500x700x250mm		590.F2GE63003	1
	3P+N	K4	IP65	500x700x250mm		590.F2GE63005	1
	6P	K4	IP65	1000x1000x300mm		590.F2GE63006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Blank sides
 Gland plate cable entry on bottom side

■ F200 >> METAL VERSION (HR) >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
200A	3P	K2	IP65	300x500x200mm		590.F2EM20003	1
	3P+N	K2	IP65	300x500x200mm		590.F2EM20005	1
	6P	K2	IP65	600x800x300mm		590.F2EM20006	1
250A	3P	K2	IP65	300x500x200mm		590.F2EM25003	1
	3P+N	K2	IP65	300x500x200mm		590.F2EM25005	1
	6P	K2	IP65	600x800x300mm		590.F2EM25006	1
315A	3P	K3	IP65	400x600x200mm		590.F2EM31503	1
	3P+N	K3	IP65	400x600x200mm		590.F2EM31505	1
	6P	K3	IP65	800x800x300mm		590.F2EM31506	1
400A	3P	K3	IP65	400x600x200mm		590.F2EM40003	1
	3P+N	K3	IP65	400x600x200mm		590.F2EM40005	1
	6P	K3	IP65	800x800x300mm		590.F2EM40006	1
500A	3P	K3	IP65	500x700x250mm		590.F2EM50003	1
	3P+N	K3	IP65	500x700x250mm		590.F2EM50005	1
	6P	K3	IP65	800x800x300mm		590.F2EM50006	1
630A	3P	K4	IP65	500x700x250mm		590.F2EM63003	1
	3P+N	K4	IP65	500x700x250mm		590.F2EM63005	1
	6P	K4	IP65	1000x1000x300mm		590.F2EM63006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Blank sides
 Gland plate cable entry on bottom side




SWITCHGEARS

Switch-disconnectors

■ F400 >> ALUMINIUM VERSION - 20A÷160A >> FOR GENERAL USE



Type: GENERAL


Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	FR1	IP65	168x192x80mm	■	590.FGE2002	1
	3P	FR1	IP65	168x192x80mm	■	590.FGE2003	1
	3P+N	FR1	IP65	168x192x80mm	■	590.FGE2005	1
32A	6P	FR1	IP65	217x253x93mm	■	590.FGE2006	1
	2P	FR1	IP65	168x192x80mm	■	590.FGE3202	1
	3P	FR1	IP65	168x192x80mm	■	590.FGE3203	1
40A	3P+N	FR1	IP65	168x192x80mm	■	590.FGE3205	1
	6P	FR1	IP65	217x253x93mm	■	590.FGE3206	1
	2P	FR1	IP65	168x192x80mm	■	590.FGE4002	1
63A	3P	FR1	IP65	168x192x80mm	■	590.FGE4003	1
	3P+N	FR1	IP65	168x192x80mm	■	590.FGE4005	1
	6P	FR1	IP65	217x253x93mm	■	590.FGE4006	1
80A	2P	FR2	IP65	217x253x93mm	■	590.FGE6302	1
	3P	FR2	IP65	217x253x93mm	■	590.FGE6303	1
	3P+N	FR2	IP65	217x253x93mm	■	590.FGE6305	1
100A	6P	FR2	IP65	264x315x122mm	■	590.FGE6306	1
	2P	FR2	IP65	217x253x93mm	■	590.FGE8002	1
	3P	FR2	IP65	217x253x93mm	■	590.FGE8003	1
125A	3P+N	FR2	IP65	217x253x93mm	■	590.FGE8005	1
	6P	FR2	IP65	264x315x122mm	■	590.FGE8006	1
	2P	FR2	IP65	217x253x93mm	■	590.FGE10002	1
160A	3P	FR2	IP65	217x253x93mm	■	590.FGE10003	1
	3P+N	FR2	IP65	217x253x93mm	■	590.FGE10005	1
	6P	FR2	IP65	264x315x122mm	■	590.FGE10006	1
125A	3P	FR3	IP65	315x410x150mm	■	590.FGE12503	1
	3P+N	FR3	IP65	315x410x150mm	■	590.FGE12505	1
160A	3P	FR3	IP65	315x410x150mm	■	590.FGE16003	1
	3P+N	FR3	IP65	315x410x150mm	■	590.FGE16005	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides

■ F400 >> METAL VERSION - 125A÷160A >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
125A	6P	FR3	IP65	400x500x200mm	■	590.FGE12506	1
160A	6P	FR3	IP65	400x500x200mm	■	590.FGE16006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides
Gland plate cable entry on bottom side

■ F400 >> ALUMINIUM VERSION - 20A÷160A >> FOR EMERGENCY USE



SWITCH-DISCONNECTORS
ISOLATORS-FR SERIES



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	FR1	IP65	168x192x80mm		590.FEM2002	1
	3P	FR1	IP65	168x192x80mm		590.FEM2003	1
	3P+N	FR1	IP65	168x192x80mm		590.FEM2005	1
32A	6P	FR1	IP65	217x253x93mm		590.FEM2006	1
	2P	FR1	IP65	168x192x80mm		590.FEM3202	1
	3P	FR1	IP65	168x192x80mm		590.FEM3203	1
40A	3P+N	FR1	IP65	168x192x80mm		590.FEM3205	1
	6P	FR1	IP65	217x253x93mm		590.FEM3206	1
	2P	FR1	IP65	168x192x80mm		590.FEM4002	1
63A	3P	FR1	IP65	168x192x80mm		590.FEM4003	1
	3P+N	FR1	IP65	168x192x80mm		590.FEM4005	1
	6P	FR1	IP65	217x253x93mm		590.FEM4006	1
80A	2P	FR2	IP65	217x253x93mm		590.FEM6302	1
	3P	FR2	IP65	217x253x93mm		590.FEM6303	1
	3P+N	FR2	IP65	217x253x93mm		590.FEM6305	1
100A	6P	FR2	IP65	264x315x122mm		590.FEM6306	1
	2P	FR2	IP65	217x253x93mm		590.FEM8002	1
	3P	FR2	IP65	217x253x93mm		590.FEM8003	1
125A	3P+N	FR2	IP65	217x253x93mm		590.FEM8005	1
	6P	FR2	IP65	264x315x122mm		590.FEM8006	1
	2P	FR2	IP65	217x253x93mm		590.FEM10002	1
160A	3P	FR2	IP65	217x253x93mm		590.FEM10003	1
	3P+N	FR2	IP65	217x253x93mm		590.FEM10005	1
	6P	FR2	IP65	264x315x122mm		590.FEM10006	1
125A	3P	FR3	IP65	315x410x150mm		590.FEM12503	1
	3P+N	FR3	IP65	315x410x150mm		590.FEM12505	1
160A	3P	FR3	IP65	315x410x150mm		590.FEM16003	1
	3P+N	FR3	IP65	315x410x150mm		590.FEM16005	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides

■ F400 >> METAL VERSION - 125A÷160A >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
125A	6P	FR3	IP65	400x500x200mm		590.FEM12506	1
160A	6P	FR3	IP65	400x500x200mm		590.FEM16006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides
Gland plate cable entry on bottom side

SWITCHGEARS

Switch-disconnectors

■ F400 >> ALUMINIUM VERSION - 20A÷160A - WITH AUXILIARY CONTACTS >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	FR1	IP65	168x192x80mm	■	590.FGE2002.U	1
	3P	FR1	IP65	168x192x80mm	■	590.FGE2003.U	1
	3P+N	FR1	IP65	168x192x80mm	■	590.FGE2005.U	1
32A	6P	FR1	IP65	217x253x93mm	■	590.FGE2006.U	1
	2P	FR1	IP65	168x192x80mm	■	590.FGE3202.U	1
	3P	FR1	IP65	168x192x80mm	■	590.FGE3203.U	1
	3P+N	FR1	IP65	168x192x80mm	■	590.FGE3205.U	1
40A	6P	FR1	IP65	217x253x93mm	■	590.FGE3206.U	1
	2P	FR1	IP65	168x192x80mm	■	590.FGE4002.U	1
	3P	FR1	IP65	168x192x80mm	■	590.FGE4003.U	1
	3P+N	FR1	IP65	168x192x80mm	■	590.FGE4005.U	1
63A	6P	FR1	IP65	217x253x93mm	■	590.FGE4006.U	1
	2P	FR2	IP65	217x253x93mm	■	590.FGE6302.U	1
	3P	FR2	IP65	217x253x93mm	■	590.FGE6303.U	1
	3P+N	FR2	IP65	217x253x93mm	■	590.FGE6305.U	1
80A	6P	FR2	IP65	264x315x122mm	■	590.FGE6306.U	1
	2P	FR2	IP65	217x253x93mm	■	590.FGE8002.U	1
	3P	FR2	IP65	217x253x93mm	■	590.FGE8003.U	1
	3P+N	FR2	IP65	217x253x93mm	■	590.FGE8005.U	1
100A	6P	FR2	IP65	264x315x122mm	■	590.FGE8006.U	1
	2P	FR2	IP65	217x253x93mm	■	590.FGE10002.U	1
	3P	FR2	IP65	217x253x93mm	■	590.FGE10003.U	1
	3P+N	FR2	IP65	217x253x93mm	■	590.FGE10005.U	1
125A	6P	FR2	IP65	264x315x122mm	■	590.FGE10006.U	1
	3P	FR3	IP65	315x410x150mm	■	590.FGE12503.U	1
	3P+N	FR3	IP65	315x410x150mm	■	590.FGE12505.U	1
160A	3P	FR3	IP65	315x410x150mm	■	590.FGE16003.U	1
	3P+N	FR3	IP65	315x410x150mm	■	590.FGE16005.U	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides
Equipped with NO/NC auxiliary contacts

■ F400 >> METAL VERSION - 125A÷160A - WITH AUXILIARY CONTACTS >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
125A	6P	FR3	IP65	400x500x200mm	■	590.FGE12506.U	1
160A	6P	FR3	IP65	400x500x200mm	■	590.FGE16006.U	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides
Gland plate cable entry on bottom side
Equipped with NO/NC auxiliary contacts

■ F400 >> ALUMINIUM VERSION - 20A÷160A - WITH AUXILIARY CONTACTS >> FOR EMERGENCY USE



SWITCH-DISCONNECTORS
ISOLATORS-FR SERIES



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
20A	2P	FR1	IP65	168x192x80mm		590.FEM2002.U	1
	3P	FR1	IP65	168x192x80mm		590.FEM2003.U	1
	3P+N	FR1	IP65	168x192x80mm		590.FEM2005.U	1
32A	6P	FR1	IP65	217x253x93mm		590.FEM2006.U	1
	2P	FR1	IP65	168x192x80mm		590.FEM3202.U	1
	3P	FR1	IP65	168x192x80mm		590.FEM3203.U	1
40A	3P+N	FR1	IP65	168x192x80mm		590.FEM3205.U	1
	6P	FR1	IP65	217x253x93mm		590.FEM3206.U	1
	2P	FR2	IP65	217x253x93mm		590.FEM4002.U	1
63A	3P	FR2	IP65	217x253x93mm		590.FEM4003.U	1
	3P+N	FR2	IP65	217x253x93mm		590.FEM4005.U	1
	6P	FR2	IP65	217x253x93mm		590.FEM4006.U	1
80A	2P	FR2	IP65	264x315x122mm		590.FEM6302.U	1
	3P	FR2	IP65	217x253x93mm		590.FEM6303.U	1
	3P+N	FR2	IP65	217x253x93mm		590.FEM6305.U	1
100A	6P	FR2	IP65	264x315x122mm		590.FEM6306.U	1
	2P	FR2	IP65	217x253x93mm		590.FEM8002.U	1
	3P	FR2	IP65	217x253x93mm		590.FEM8003.U	1
125A	3P+N	FR2	IP65	217x253x93mm		590.FEM8005.U	1
	6P	FR2	IP65	264x315x122mm		590.FEM8006.U	1
	2P	FR2	IP65	217x253x93mm		590.FEM10002.U	1
160A	3P	FR2	IP65	217x253x93mm		590.FEM10003.U	1
	3P+N	FR2	IP65	217x253x93mm		590.FEM10005.U	1
	6P	FR2	IP65	264x315x122mm		590.FEM10006.U	1
125A	3P	FR3	IP65	315x410x150mm		590.FEM12503.U	1
	3P+N	FR3	IP65	315x410x150mm		590.FEM12505.U	1
160A	3P	FR3	IP65	315x410x150mm		590.FEM16003.U	1
	3P+N	FR3	IP65	315x410x150mm		590.FEM16005.U	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides
Equipped with NO/NC auxiliary contacts

■ F400 >> METAL VERSION - 125A÷160A - WITH AUXILIARY CONTACTS >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
125A	6P	FR3	IP65	400x500x200mm		590.FEM12506.U	1
160A	6P	FR3	IP65	400x500x200mm		590.FEM16006.U	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Blank sides
Gland plate cable entry on bottom side
Equipped with NO/NC auxiliary contacts











SWITCHGEARS

Switch-disconnectors

■ F400 >> METAL VERSION (HR) >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
200A	3P	FR4	IP65	500x700x200mm		590.FGE20003	1
	3P+N	FR4	IP65	500x700x200mm		590.FGE20005	1
	6P	FR4	IP65	600x800x300mm		590.FGE20006	1
250A	3P	FR4	IP65	500x700x200mm		590.FGE25003	1
	3P+N	FR4	IP65	500x700x200mm		590.FGE25005	1
	6P	FR4	IP65	600x800x300mm		590.FGE25006	1
315A	3P	FR5	IP65	500x700x250mm		590.FGE31503	1
	3P+N	FR5	IP65	500x700x250mm		590.FGE31505	1
	6P	FR5	IP65	800x800x300mm		590.FGE31506	1
400A	3P	FR5	IP65	500x700x250mm		590.FGE40003	1
	3P+N	FR5	IP65	500x700x250mm		590.FGE40005	1
	6P	FR5	IP65	800x800x300mm		590.FGE40006	1
630A	3P	FR6	IP65	800x800x300mm		590.FGE63003	1
	3P+N	FR6	IP65	800x800x300mm		590.FGE63005	1
	6P	FR6	IP65	800x1000x300mm		590.FGE63006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Gland plate cable entry on bottom side

■ F400 >> METAL VERSION (HR) >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
200A	3P	FR4	IP65	500x700x200mm		590.FEM20003	1
	3P+N	FR4	IP65	500x700x200mm		590.FEM20005	1
	6P	FR4	IP65	600x800x300mm		590.FEM20006	1
250A	3P	FR4	IP65	500x700x200mm		590.FEM25003	1
	3P+N	FR4	IP65	500x700x200mm		590.FEM25005	1
	6P	FR4	IP65	600x800x300mm		590.FEM25006	1
315A	3P	FR5	IP65	500x700x250mm		590.FEM31503	1
	3P+N	FR5	IP65	500x700x250mm		590.FEM31505	1
	6P	FR5	IP65	800x800x300mm		590.FEM31506	1
400A	3P	FR5	IP65	500x700x250mm		590.FEM40003	1
	3P+N	FR5	IP65	500x700x250mm		590.FEM40005	1
	6P	FR5	IP65	800x800x300mm		590.FEM40006	1
630A	3P	FR6	IP65	800x800x300mm		590.FEM63003	1
	3P+N	FR6	IP65	800x800x300mm		590.FEM63005	1
	6P	FR6	IP65	800x1000x300mm		590.FEM63006	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
Gland plate cable entry on bottom side

■ F400 >> METAL VERSION (HR) - WITH AUXILIARY CONTACTS >> FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
200A	3P	FR4	IP65	500x700x200mm		590.FGE20003.U	1
	3P+N	FR4	IP65	500x700x200mm		590.FGE20005.U	1
	6P	FR4	IP65	600x800x300mm		590.FGE20006.U	1
250A	3P	FR4	IP65	500x700x200mm		590.FGE25003.U	1
	3P+N	FR4	IP65	500x700x200mm		590.FGE25005.U	1
	6P	FR4	IP65	600x800x300mm		590.FGE25006.U	1
315A	3P	FR5	IP65	500x700x250mm		590.FGE31503.U	1
	3P+N	FR5	IP65	500x700x250mm		590.FGE31505.U	1
	6P	FR5	IP65	800x800x300mm		590.FGE31506.U	1
400A	3P	FR5	IP65	500x700x250mm		590.FGE40003.U	1
	3P+N	FR5	IP65	500x700x250mm		590.FGE40005.U	1
	6P	FR5	IP65	800x800x300mm		590.FGE40006.U	1
630A	3P	FR6	IP65	800x800x300mm		590.FGE63003.U	1
	3P+N	FR6	IP65	800x800x300mm		590.FGE63005.U	1
	6P	FR6	IP65	800x1000x300mm		590.FGE63006.U	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Gland plate cable entry on bottom side
 Equipped with NO/NC auxiliary contacts

■ F400 >> METAL VERSION (HR) - WITH AUXILIARY CONTACTS >> FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
200A	3P	FR4	IP65	500x700x200mm		590.FEM20003.U	1
	3P+N	FR4	IP65	500x700x200mm		590.FEM20005.U	1
	6P	FR4	IP65	600x800x300mm		590.FEM20006.U	1
250A	3P	FR4	IP65	500x700x200mm		590.FEM25003.U	1
	3P+N	FR4	IP65	500x700x200mm		590.FEM25005.U	1
	6P	FR4	IP65	600x800x300mm		590.FEM25006.U	1
315A	3P	FR5	IP65	500x700x250mm		590.FEM31503.U	1
	3P+N	FR5	IP65	500x700x250mm		590.FEM31505.U	1
	6P	FR5	IP65	800x800x300mm		590.FEM31506.U	1
400A	3P	FR5	IP65	500x700x250mm		590.FEM40003.U	1
	3P+N	FR5	IP65	500x700x250mm		590.FEM40005.U	1
	6P	FR5	IP65	800x800x300mm		590.FEM40006.U	1
630A	3P	FR6	IP65	800x800x300mm		590.FEM63003.U	1
	3P+N	FR6	IP65	800x800x300mm		590.FEM63005.U	1
	6P	FR6	IP65	800x1000x300mm		590.FEM63006.U	1

Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position
 Gland plate cable entry on bottom side
 Equipped with NO/NC auxiliary contacts

SWITCH-DISCONNECTORS
ISOLATORS-FR SERIES



ISOLATORS-PH Series

ISOLATORS-PH is a complete range of switch-disconnectors with thermoplastic enclosure and an exclusively black knob. They are used in photovoltaic applications, where the IEC 60364-7-712 standard prescribes the need to isolate the photovoltaic panel from the rest of the system.

This is made possible by disconnectors that operate in DC current, thus ensuring higher performance than those in AC alternating current.

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■ FOR GENERAL USE - DC



Current	Poles	Switch size	IP	Dimensions	Colour	Code	
15A	DC	D3	IP65	105x150x127mm		590.DCGE0815 ^{1) 3)}	1/10
16A	DC	D1	IP66/IP69	110x150x87mm		590.DCGE0416 ^{1) 5)}	1/12
20A	DC	D3	IP65	105x150x127mm		590.DCGE0820 ^{1) 3)}	1/10
25A	DC	D3	IP66/IP69	160x220x115mm		590.DCGE0825 ^{1) 5)}	1/5
30A	DC	D3	IP66/IP69	160x220x115mm		590.DCGE0830 ^{1) 5)}	1/5
40A	DC	D5	IP55	228x308x173mm		590.DCGE0840 ^{2) 4)}	1

¹⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

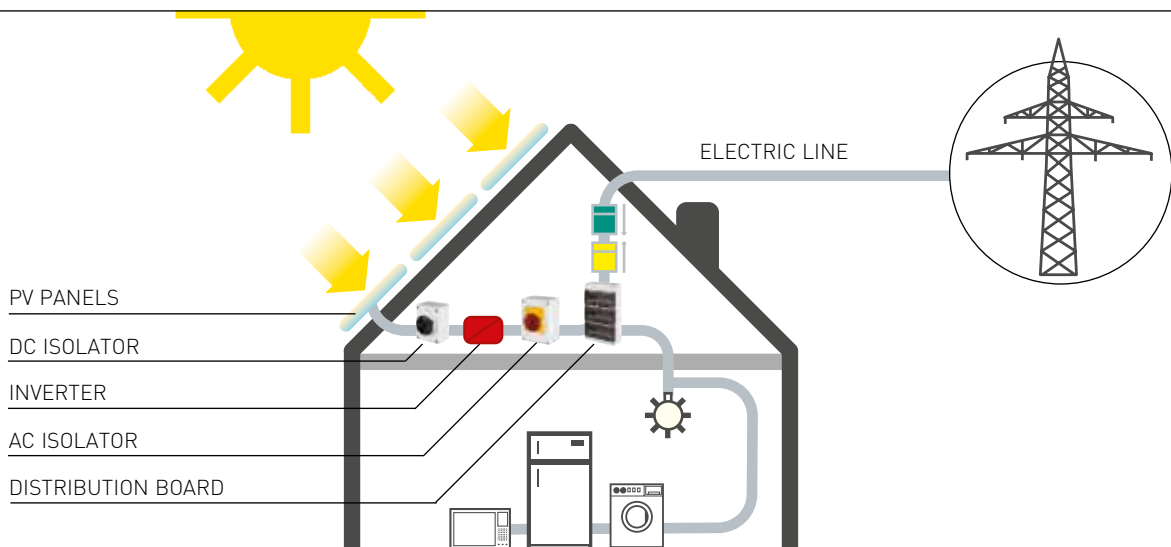
²⁾ Handle padlockable in OFF position only (3 padlocks)

³⁾ Blank side with drilling point marks

⁴⁾ Blank sides

⁵⁾ Break-through cable entries

Type: GENERAL



Accessories

Auxiliary contacts are useful addons to ISOLATORS Series of switch-disconnectors.



CONTACT BLOCKS



Description	Colour	Switch size	Code	
NC CONTACT		F1 Y1 D1	590.PL004001 ^{1) 2)}	10/60
		Y2	590.PL004003 ^{1) 2)}	10
NO CONTACT		F1 Y1 D1	590.PL004002 ^{1) 3)}	10/60
		Y2	590.PL004004 ^{1) 3)}	10
AUXILIARY CONTACT 1NO+1NC		KF1 KF2 K1 K2	590.PL006011 ⁴⁾	10
		KF3 KF5 K3 K5 K6	590.PL006012 ⁴⁾	10
		KF4 K4	590.PL006013 ⁴⁾	10
CHANGE OVER CONTACT		F1 Y3 Y4 Y5 C1 C2 C3 D3 D5	590.PL005 ⁴⁾	50
		Y1	590.PL004005 ⁴⁾	10
		Y2	590.PL004006 ⁴⁾	10
AUXILIARY CONTACT 2NO+2NC		FR1 FR2 FR3	590.PL004008 ⁴⁾	5
		KF1 KF2 K1 K2	590.PL006021 ⁴⁾	10
		KF3 KF5 K3 K5 K6	590.PL006022 ⁴⁾	10
	KF4 K4	590.PL006023 ⁴⁾	10	

¹⁾ Snap catch

²⁾ NC=Normally closed

³⁾ NO=Normally open

⁴⁾ Break before main contacts

SWITCHGEARS

Fuse switch-disconnectors



FUSE SWITCH-DISCONNECTORS

ISOLATORS-TP SERIES

p. 56

Enclosed fuse switch-disconnectors in thermoplastic enclosure



ISOLATORS-AL SERIES

p. 58

Enclosed fuse switch-disconnectors in die-cast aluminium enclosure



ISOLATORS-HR SERIES

p. 60

Enclosed fuse switch-disconnectors in metal enclosure with hinged door



ACCESSORIES

p. 63

Installation accessories





ISOLATORS-TP Series

ISOLATORS-TP is a complete range of fuse switch-disconnectors with highly resistant thermoplastic enclosure and is suitable for most industrial and tertiary applications, thanks to the high degree of protection IP55.

The high-visibility knob ensures an always optimal grip.

The large internal wiring space ensures easy wiring operations.

The fuse switch-disconnectors are a compact solution for protection against overloads and short circuits, which adds to the characteristics of disconnection and operation under load.

technical sheet p. 120

■ FOR GENERAL USE



Type: **GENERAL**

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
16A	2P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF1602 ¹⁾	1
	3P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF1603 ¹⁾	1
	4P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF1604 ¹⁾	1
	3P+N	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF1605 ¹⁾	1
32A	2P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF3202 ¹⁾	1
	3P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF3203 ¹⁾	1
	4P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF3204 ¹⁾	1
	3P+N	F1	gG 10,3x38mm	IP55	190x240x125mm		590.GEF3205 ¹⁾	1
63A	3P	KF1	DIN-NH	IP55	300x380x170mm		590.GED6303 ²⁾	1
	3P	KF1	BS	IP55	300x380x170mm		590.GEB6303 ²⁾	1
	3P+N	KF1	DIN-NH	IP55	300x380x170mm		590.GED6305 ²⁾	1
	3P+N	KF1	BS	IP55	300x380x170mm		590.GEB6305 ²⁾	1
80A	3P	KF1	DIN-NH	IP55	300x380x170mm		590.GED8003 ²⁾	1
	3P	KF1	BS	IP55	300x380x170mm		590.GEB8003 ²⁾	1
	3P+N	KF1	DIN-NH	IP55	300x380x170mm		590.GED8005 ²⁾	1
	3P+N	KF1	BS	IP55	300x380x170mm		590.GEB8005 ²⁾	1
100A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.GED10003 ²⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.GEB10003 ²⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.GED10005 ²⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.GEB10005 ²⁾	1
125A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.GED12503 ²⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.GEB12503 ²⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.GED12505 ²⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.GEB12505 ²⁾	1
160A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.GED16003 ²⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.GEB16003 ²⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.GED16005 ²⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.GEB16005 ²⁾	1

Blank sides
Fuses not supplied

¹⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

²⁾ Handle padlockable in OFF position only (3 padlocks)

■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
16A	2P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF1602 ¹⁾	1
	3P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF1603 ¹⁾	1
	4P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF1604 ¹⁾	1
	3P+N	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF1605 ¹⁾	1
32A	2P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF3202 ¹⁾	1
	3P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF3203 ¹⁾	1
	4P	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF3204 ¹⁾	1
	3P+N	F1	gG 10,3x38mm	IP55	190x240x125mm		590.EMF3205 ¹⁾	1
63A	3P	KF1	DIN-NH	IP55	300x380x170mm		590.EMD6303 ²⁾	1
	3P	KF1	BS	IP55	300x380x170mm		590.EMB6303 ²⁾	1
	3P+N	KF1	DIN-NH	IP55	300x380x170mm		590.EMD6305 ²⁾	1
	3P+N	KF1	BS	IP55	300x380x170mm		590.EMB6305 ²⁾	1
80A	3P	KF1	DIN-NH	IP55	300x380x170mm		590.EMD8003 ²⁾	1
	3P	KF1	BS	IP55	300x380x170mm		590.EMB8003 ²⁾	1
	3P+N	KF1	DIN-NH	IP55	300x380x170mm		590.EMD8005 ²⁾	1
	3P+N	KF1	BS	IP55	300x380x170mm		590.EMB8005 ²⁾	1
100A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.EMD10003 ²⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.EMB10003 ²⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.EMD10005 ²⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.EMB10005 ²⁾	1
125A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.EMD12503 ²⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.EMB12503 ²⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.EMD12505 ²⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.EMB12505 ²⁾	1
160A	3P	KF2	DIN-NH	IP55	370x450x180mm		590.EMD16003 ²⁾	1
	3P	KF2	BS	IP55	370x450x180mm		590.EMB16003 ²⁾	1
	3P+N	KF2	DIN-NH	IP55	370x450x180mm		590.EMD16005 ²⁾	1
	3P+N	KF2	BS	IP55	370x450x180mm		590.EMB16005 ²⁾	1

Blank sides
Fuses not supplied

¹⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

²⁾ Handle padlockable in OFF position only (3 padlocks)



SWITCHGEARS

Fuse switch-disconnectors



ISOLATORS-AL Series

ISOLATORS-AL is a complete range of fuse switch-disconnectors with die-cast aluminum enclosure protected with polyurethane epoxy paints.

For this reason, it is particularly suitable for applications where high resistance to chemicals, humidity and dust (IP65) is required, as well as maximum mechanical resistance to stress (IK10).

The fuse switch-disconnectors are a compact solution for protection against overloads and short circuits, which adds to the characteristics of disconnection and operation under load.

technical sheet p. 77

■ FOR GENERAL USE



Type: GENERAL

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
16A	2P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF1602 ¹⁾	1
	3P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF1603 ¹⁾	1
	4P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF1604 ¹⁾	1
	3P+N	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF1605 ¹⁾	1
32A	2P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF3202 ¹⁾	1
	3P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF3203 ¹⁾	1
	4P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF3204 ¹⁾	1
	3P+N	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HGEF3205 ¹⁾	1
63A	3P	KF1	DIN-NH	IP65	315x410x150mm		590.HGED6303 ²⁾	1
	3P	KF1	BS	IP65	315x410x150mm		590.HGEB6303 ²⁾	1
	3P+N	KF1	DIN-NH	IP65	315x410x150mm		590.HGED6305 ²⁾	1
	3P+N	KF1	BS	IP65	315x410x150mm		590.HGEB6305 ²⁾	1
80A	3P	KF1	DIN-NH	IP65	315x410x150mm		590.HGED8003 ²⁾	1
	3P	KF1	BS	IP65	315x410x150mm		590.HGEB8003 ²⁾	1
	3P+N	KF1	DIN-NH	IP65	315x410x150mm		590.HGED8005 ²⁾	1
	3P+N	KF1	BS	IP65	315x410x150mm		590.HGEB8005 ²⁾	1

Blank sides
Fuses not supplied

¹⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

²⁾ Handle padlockable in OFF position only (3 padlocks)

■ FOR EMERGENCY USE



Type: EMERGENCY

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
16A	2P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF1602 ¹⁾	1
	3P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF1603 ¹⁾	1
	4P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF1604 ¹⁾	1
	3P+N	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF1605 ¹⁾	1
32A	2P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF3202 ¹⁾	1
	3P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF3203 ¹⁾	1
	4P	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF3204 ¹⁾	1
	3P+N	F1	gG 10,3x38mm	IP65	217x253x93mm		590.HEMF3205 ¹⁾	1
63A	3P	KF1	DIN-NH	IP65	315x410x150mm		590.HEMD6303 ²⁾	1
	3P	KF1	BS	IP65	315x410x150mm		590.HEMB6303 ²⁾	1
	3P+N	KF1	DIN-NH	IP65	315x410x150mm		590.HEMD6305 ²⁾	1
	3P+N	KF1	BS	IP65	315x410x150mm		590.HEMB6305 ²⁾	1
80A	3P	KF1	DIN-NH	IP65	315x410x150mm		590.HEMD8003 ²⁾	1
	3P	KF1	BS	IP65	315x410x150mm		590.HEMB8003 ²⁾	1
	3P+N	KF1	DIN-NH	IP65	315x410x150mm		590.HEMD8005 ²⁾	1
	3P+N	KF1	BS	IP65	315x410x150mm		590.HEMB8005 ²⁾	1

Blank sides

Fuses not supplied

¹⁾ Handle padlockable in OFF (3 padlocks) and ON (1 padlock) position

²⁾ Handle padlockable in OFF position only (3 padlocks)





ISOLATORS-HR Series

ISOLATORS-HR (High Rating) is a complete range of fuse switch-disconnectors with painted sheet steel enclosure with hinged door.

The width of the enclosure allows the wiring of cables of large sections, necessary for high power applications and with long power lines, while the high electrical performance guarantees absolute resistance to short circuits caused by high currents.

The fuse switch-disconnectors are a compact solution for protection against overloads and short circuits, which adds to the characteristics of disconnection and operation under load.

technical sheet p. 95

■ FOR GENERAL USE - TOP/BOTTOM



Type: GENERAL

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
100A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED10003	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB10003	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED10005	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB10005	1
125A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED12503	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB12503	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED12505	1
160A	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB12505	1
	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED16003	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB16003	1
200A	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED16005	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB16005	1
	3P	KF3	DIN-NH	IP65	400x600x200mm		590.KGED20003	1
	3P	KF3	BS	IP65	400x600x200mm		590.KGEB20003	1
250A	3P+N	KF3	DIN-NH	IP65	400x600x200mm		590.KGED20005	1
	3P+N	KF3	BS	IP65	400x600x200mm		590.KGEB20005	1
	3P	KF3	DIN-NH	IP65	400x600x200mm		590.KGED25003	1
	3P	KF3	BS	IP65	400x600x200mm		590.KGEB25003	1
315A	3P+N	KF3	DIN-NH	IP65	400x600x200mm		590.KGED25005	1
	3P+N	KF3	BS	IP65	400x600x200mm		590.KGEB25005	1
	3P	KF4	DIN-NH	IP65	500x700x250mm		590.KGED31503	1
	3P	KF4	BS	IP65	500x700x250mm		590.KGEB31503	1
400A	3P+N	KF4	DIN-NH	IP65	500x700x250mm		590.KGED31505	1
	3P+N	KF4	BS	IP65	500x700x250mm		590.KGEB31505	1
	3P	KF4	DIN-NH	IP65	500x700x250mm		590.KGED40003	1
	3P	KF4	BS	IP65	500x700x250mm		590.KGEB40003	1
630A	3P+N	KF4	DIN-NH	IP65	500x700x250mm		590.KGED40005	1
	3P+N	KF4	BS	IP65	500x700x250mm		590.KGEB40005	1
	3P	KF5	DIN-NH	IP65	600x800x300mm		590.KGED63003	1
	3P	KF5	BS	IP65	600x800x300mm		590.KGEB63003	1
630A	3P+N	KF5	DIN-NH	IP65	600x800x300mm		590.KGED63005	1
	3P+N	KF5	BS	IP65	600x800x300mm		590.KGEB63005	1

Handle padlockable in OFF position only (3 padlocks)

TOP/BOTTOM = Top/Bottom connection


















Gland plate cable entry on bottom side

Fuses not supplied

■ FOR GENERAL USE - BOTTOM/BOTTOM



Type: GENERAL

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
100A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED10003B	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB10003B	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED10005B	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB10005B	1
125A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED12503B	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB12503B	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED12505B	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB12505B	1
160A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KGED16003B	1
	3P	KF2	BS	IP65	300x500x200mm		590.KGEB16003B	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KGED16005B	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KGEB16005B	1
200A	3P	KF3	DIN-NH	IP65	400x600x250mm		590.KGED20003B	1
	3P	KF3	BS	IP65	400x600x250mm		590.KGEB20003B	1
	3P+N	KF3	DIN-NH	IP65	400x600x250mm		590.KGED20005B	1
	3P+N	KF3	BS	IP65	400x600x250mm		590.KGEB20005B	1
250A	3P	KF3	DIN-NH	IP65	400x600x250mm		590.KGED25003B	1
	3P	KF3	BS	IP65	400x600x250mm		590.KGEB25003B	1
	3P+N	KF3	DIN-NH	IP65	400x600x250mm		590.KGED25005B	1
	3P+N	KF3	BS	IP65	400x600x250mm		590.KGEB25005B	1

Handle padlockable in OFF position only (3 padlocks)
 Gland plate cable entry on bottom side
 BOTTOM/BOTTOM = Bottom/Bottom connection with busbar
 Fuses not supplied



SWITCHGEARS

Fuse switch-disconnectors

■ FOR EMERGENCY USE - TOP/BOTTOM



Type: EMERGENCY

Current	Poles	Switch size	Fuse type	IP	Dimensions	Colour	Code	
100A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD10003	1
	3P	KF2	BS	IP65	300x500x200mm		590.KEMB10003	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD10005	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KEMB10005	1
125A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD12503	1
	3P	KF2	BS	IP65	300x500x200mm		590.KEMB12503	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD12505	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KEMB12505	1
160A	3P	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD16003	1
	3P	KF2	BS	IP65	300x500x200mm		590.KEMB16003	1
	3P+N	KF2	DIN-NH	IP65	300x500x200mm		590.KEMD16005	1
	3P+N	KF2	BS	IP65	300x500x200mm		590.KEMB16005	1
200A	3P	KF3	DIN-NH	IP65	400x600x200mm		590.KEMD20003	1
	3P	KF3	BS	IP65	400x600x200mm		590.KEMB20003	1
	3P+N	KF3	DIN-NH	IP65	400x600x200mm		590.KEMD20005	1
	3P+N	KF3	BS	IP65	400x600x200mm		590.KEMB20005	1
250A	3P	KF3	DIN-NH	IP65	400x600x200mm		590.KEMD25003	1
	3P	KF3	BS	IP65	400x600x200mm		590.KEMB25003	1
	3P+N	KF3	DIN-NH	IP65	400x600x200mm		590.KEMD25005	1
	3P+N	KF3	BS	IP65	400x600x200mm		590.KEMB25005	1
315A	3P	KF4	DIN-NH	IP65	500x700x250mm		590.KEMD31503	1
	3P	KF4	BS	IP65	500x700x250mm		590.KEMB31503	1
	3P+N	KF4	DIN-NH	IP65	500x700x250mm		590.KEMD31505	1
	3P+N	KF4	BS	IP65	500x700x250mm		590.KEMB31505	1
400A	3P	KF4	DIN-NH	IP65	500x700x250mm		590.KEMD40003	1
	3P	KF4	BS	IP65	500x700x250mm		590.KEMB40003	1
	3P+N	KF4	DIN-NH	IP65	500x700x250mm		590.KEMD40005	1
	3P+N	KF4	BS	IP65	500x700x250mm		590.KEMB40005	1
630A	3P	KF5	DIN-NH	IP65	600x800x300mm		590.KEMD63003	1
	3P	KF5	BS	IP65	600x800x300mm		590.KEMB63003	1
	3P+N	KF5	DIN-NH	IP65	600x800x300mm		590.KEMD63005	1
	3P+N	KF5	BS	IP65	600x800x300mm		590.KEMB63005	1

Handle padlockable in OFF position only (3 padlocks)

TOP/BOTTOM = Top/Bottom connection

Gland plate cable entry on bottom side

Fuses not supplied



Accessories

Auxiliary contacts are useful addons to ISOLATORS Series of switch-disconnectors.

CONTACT BLOCKS



Description	Colour	Switch size	Code	
NC CONTACT		F1 Y1 D1	590.PL004001 ^{1) 2)}	10/60
NO CONTACT		F1 Y1 D1	590.PL004002 ^{1) 3)}	10/60
AUXILIARY CONTACT 1NO+1NC		KF1 KF2 K1 K2	590.PL006011 ⁴⁾	10
		KF3 KF5 K3 K5 K6	590.PL006012 ⁴⁾	10
		KF4 K4	590.PL006013 ⁴⁾	10
AUXILIARY CONTACT 2NO+2NC		KF1 KF2 K1 K2	590.PL006021 ⁴⁾	10
		KF3 KF5 K3 K5 K6	590.PL006022 ⁴⁾	10
		KF4 K4	590.PL006023 ⁴⁾	10

¹⁾ Snap catch

²⁾ NC=Normally closed

³⁾ NO=Normally open

⁴⁾ Break before main contacts

SWITCHGEARS
Change-over switches



CHANGE-OVER SWITCHES

ISOLATORS-TP SERIES

p. 66

Enclosed change-over switches I-0-II in thermoplastic enclosure



ISOLATORS-AL SERIES

p. 67

Enclosed change-over switches I-0-II in die-cast aluminium enclosure



ISOLATORS-INOX SERIES

p. 68

Enclosed change-over switches I-0-II in stainless steel enclosure



ISOLATORS-HR SERIES

p. 69

Enclosed change-over switches I-0-II in metal enclosure with hinged door



ACCESSORIES

p. 70

Installation accessories






ISOLATORS-TP Series

ISOLATORS-TP is a complete range of I-0-II change-over switches with highly resistant thermoplastic enclosure and is suitable for most industrial and tertiary applications, thanks to the high IP degree of protection.

The high-visibility knob ensures an always optimal grip.

The large internal wiring space ensures easy wiring operations.




















The enclosed I-0-II change-over switches offer the possibility of managing normal and/or emergency lines, as well as the possibility of reversing the motors.

 technical sheet **p. 123**

■ FOR GENERAL USE - I-0-II



Type: **GENERAL**

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	3P	C1	IP65	155x210x107mm		590.GE1603-C	1/5
	3P+N	C1	IP65	155x210x107mm		590.GE1605-C	1/5
25A	3P	C1	IP65	155x210x107mm		590.GE2503-C	1/5
	3P+N	C1	IP65	155x210x107mm		590.GE2505-C	1/5
32A	3P	C1	IP65	155x210x107mm		590.GE3203-C	1/5
	3P+N	C1	IP65	155x210x107mm		590.GE3205-C	1/5
40A	3P	C1	IP65	155x210x107mm		590.GE4003-C	1/5
	3P+N	C1	IP65	155x210x107mm		590.GE4005-C	1/5
63A	3P	C2	IP55	228x308x128mm		590.GE6303-C	1
	3P+N	C2	IP55	228x308x128mm		590.GE6305-C	1
80A	3P	C2	IP55	228x308x128mm		590.GE8003-C	1
	3P+N	C2	IP55	228x308x128mm		590.GE8005-C	1
100A	3P	C2	IP55	228x308x128mm		590.GE10003-C	1
	3P+N	C2	IP55	228x308x128mm		590.GE10005-C	1
125A	3P	C3	IP55	308x388x128mm		590.GE12503-C	1
	3P+N	C3	IP55	308x388x128mm		590.GE12505-C	1
160A	3P	C3	IP55	308x388x128mm		590.GE16003-C	1
	3P+N	C3	IP55	308x388x128mm		590.GE16005-C	1

Handle padlockable in OFF position only (3 padlocks)
Blank sides



ISOLATORS-AL Series

ISOLATORS-AL is a complete range of enclosed I-0-II change-over switches with die-cast aluminum enclosure protected with polyurethane epoxy paints.

For this reason, it is particularly suitable for applications where high resistance to chemicals, humidity and dust (IP 65 or IP66) is required, as well as maximum mechanical resistance to stress (IK10).

The enclosed I-0-II change-over switches offer the possibility of managing normal and/or emergency lines, as well as the possibility of reversing the motors.

technical sheet p. 80

■ FOR GENERAL USE - I-0-II



Type: GENERAL


Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	3P	C1	IP66	150x210x107mm		590.HGE1603-C	1/5
	3P+N	C1	IP66	150x210x107mm		590.HGE1605-C	1/5
25A	3P	C1	IP66	150x210x107mm		590.HGE2503-C	1/5
	3P+N	C1	IP66	150x210x107mm		590.HGE2505-C	1/5
32A	3P	C1	IP66	150x210x107mm		590.HGE3203-C	1/5
	3P+N	C1	IP66	150x210x107mm		590.HGE3205-C	1/5
40A	3P	C1	IP66	150x210x107mm		590.HGE4003-C	1/5
	3P+N	C1	IP66	150x210x107mm		590.HGE4005-C	1/5
63A	3P	C2	IP65	264x315x122mm		590.HGE6303-C	1
	3P+N	C2	IP65	264x315x122mm		590.HGE6305-C	1
80A	3P	C2	IP65	264x315x122mm		590.HGE8003-C	1
	3P+N	C2	IP65	264x315x122mm		590.HGE8005-C	1
100A	3P	C2	IP65	264x315x122mm		590.HGE10003-C	1
	3P+N	C2	IP65	264x315x122mm		590.HGE10005-C	1
125A	3P	C3	IP65	315x410x150mm		590.HGE12503-C	1
	3P+N	C3	IP65	315x410x150mm		590.HGE12505-C	1
160A	3P	C3	IP65	315x410x150mm		590.HGE16003-C	1
	3P+N	C3	IP65	315x410x150mm		590.HGE16005-C	1

Handle padlockable in OFF position only (3 padlocks)
 Blank sides
 Gland plate cable entry on bottom side



ISOLATORS-INOX Series




















ISOLATORS-INOX is a complete range of enclosed I-O-II change-over switches with AISI304L stainless steel casing (on request AISI316L) and specific solutions to prevent the accumulation of dirt, thus guaranteeing mechanical and environmental performance unaltered over time. ISOLATORS-INOX are the best choice where maximum hygiene is required together with excellent resistance to corrosion due to aggressive detergents such as in the food and pharmaceutical industries, or to high salt or chemical concentrations such as in ports and in particular industrial environments or, again, in the presence of chlorine as in swimming pools. The enclosed I-O-II change-over switches offer the possibility of managing normal and/or emergency lines, as well as the possibility of reversing the motors.

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■ FOR GENERAL USE - I-O-II



Type: **GENERAL**

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
16A	3P	C1	IP65	250x280x120mm		590.SGE1603-C	1
	3P+N	C1	IP65	250x280x120mm		590.SGE1605-C	1
25A	3P	C1	IP65	250x280x120mm		590.SGE2503-C	1
	3P+N	C1	IP65	250x280x120mm		590.SGE2505-C	1
32A	3P	C1	IP65	250x280x120mm		590.SGE3203-C	1
	3P+N	C1	IP65	250x280x120mm		590.SGE3205-C	1
40A	3P	C1	IP65	250x280x120mm		590.SGE4003-C	1
	3P+N	C1	IP65	250x280x120mm		590.SGE4005-C	1
63A	3P	C2	IP65	250x280x120mm		590.SGE6303-C	1
	3P+N	C2	IP65	250x280x120mm		590.SGE6305-C	1
80A	3P	C2	IP65	250x280x120mm		590.SGE8003-C	1
	3P+N	C2	IP65	250x280x120mm		590.SGE8005-C	1
100A	3P	C2	IP65	250x280x120mm		590.SGE10003-C	1
	3P+N	C2	IP65	250x280x120mm		590.SGE10005-C	1
125A	3P	C3	IP65	300x400x150mm		590.SGE12503-C	1
	3P+N	C3	IP65	300x400x150mm		590.SGE12505-C	1
160A	3P	C3	IP65	300x400x150mm		590.SGE16003-C	1
	3P+N	C3	IP65	300x400x150mm		590.SGE16005-C	1

Handle padlockable in OFF position only (3 padlocks)
Blank sides



ISOLATORS-HR Series

ISOLATORS-HR (High Rating) is a complete range of enclosed I-0-II change-over switches with painted sheet steel enclosure with hinged door.

The width of the enclosure allows the wiring of cables of large sections, necessary for high power applications and with long power lines, while the high electrical performance guarantees absolute resistance to short circuits caused by high currents.

The enclosed I-0-II change-over switches offer the possibility of managing normal and/or emergency lines, as well as the possibility of reversing the motors.

technical sheet p. 98



CHANGE-OVER SWITCHES
ISOLATORS-INOX SERIES - ISOLATORS-HR SERIES

■ FOR GENERAL USE - I-0-II



Type: GENERAL

Current	Poles	Switch size	IP	Dimensions	Colour	Code	
100A	3P	KA1	IP65	400x500x200mm		590.KGE10003-C	1
	3P+N	KA1	IP65	400x500x200mm		590.KGE10005-C	1
125A	3P	KA1	IP65	400x500x200mm		590.KGE12503-C	1
	3P+N	KA1	IP65	400x500x200mm		590.KGE12505-C	1
160A	3P	KA2	IP65	500x700x250mm		590.KGE16003-C	1
	3P+N	KA2	IP65	500x700x250mm		590.KGE16005-C	1
200A	3P	KA2	IP65	600x800x300mm		590.KGE20003-C	1
	3P+N	KA2	IP65	600x800x300mm		590.KGE20005-C	1
250A	3P	KA2	IP65	600x800x300mm		590.KGE25003-C	1
	3P+N	KA2	IP65	600x800x300mm		590.KGE25005-C	1
315A	3P	KA3	IP65	800x800x300mm		590.KGE31503-C	1
	3P+N	KA3	IP65	800x800x300mm		590.KGE31505-C	1
400A	3P	KA3	IP65	800x800x300mm		590.KGE40003-C	1
	3P+N	KA3	IP65	800x800x300mm		590.KGE40005-C	1
500A	3P	KA3	IP65	800x800x300mm		590.KGE50003-C	1
	3P+N	KA3	IP65	800x800x300mm		590.KGE50005-C	1
630A	3P	KA4	IP65	1000x1000x300mm		590.KGE63003-C	1
	3P+N	KA4	IP65	1000x1000x300mm		590.KGE63005-C	1

Handle padlockable in OFF position only (3 padlocks)
Blank sides



Accessories

Auxiliary contacts are useful addons to ISOLATORS Series of switch-diconnectors.

CONTACT BLOCKS



Description	Switch size	Code	
AUXILIARY CONTACT 1NO+1NC	KA1 KA2 KS1 KS2 KA3 KA4 KA5 KA6 KS3 KS4 KS5 KS6	590.PL006011-C 590.PL006012-C	1/10 1/10
CHANGE OVER CONTACT	F1 Y3 Y4 Y5 C1 C2 C3 D3 D5	590.PL005	50
AUXILIARY CONTACT 2NO+2NC	KA1 KA2 KS1 KS2 KA3 KA4 KA5 KA6 KS3 KS4 KS5 KS6	590.PL006021-C 590.PL006022-C	1/10 1/10

Break before main contacts



INFORMATION

ISOLATORS-AL SERIES

ENCLOSED SWITCH-DISCONNECTORS IN DIE-CAST ALUMINIUM ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

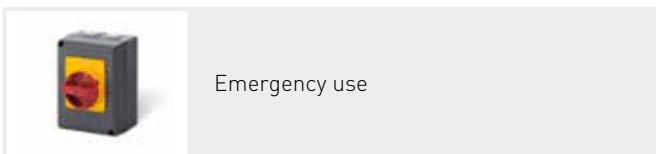
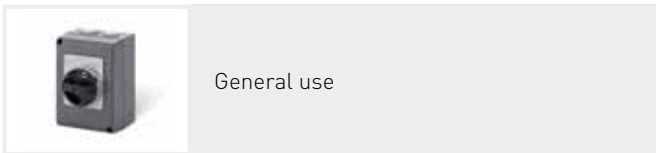
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A-25A ¹⁾ -32A-40A-63A 80A-100A-125A-160A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P, 6P, 8P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	16A÷100A IP66 - 125A÷160A IP65
Installation temperature:	-25°C +60°C
Material:	Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Colour:	Grey RAL 7015
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	20÷100A IK10 - 125÷160A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock) ²⁾
Max diameter of the padlock arch:	8mm

2P, 3P+N and 8P versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral and solid neutral terminal block.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 and 8 poles.

²⁾ Only general use versions.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P	105x150x82	Top/bottom	1xM20 + 1xM25	Threaded open entries
			Rear	-	Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P	160x220x107	Top/bottom	2xM32	Threaded open entries
			Rear	-	Blank side
125	3P, 3P+SN, 3P+N	264x315x122	Top/bottom	-	Blank side
			Rear	-	Blank side
160	3P, 3P+SN, 3P+N	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.
Threaded caps supplied.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 6P, 8P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
16-25-32-40	6P, 8P	150x210x107	Top/bottom	2xM32	Blank side
			Rear	-	Blank side
63-80-100	6P, 8P	264x315x122	Top/Bottom	-	Blank side
			Rear	-	Blank side
63-80-100	6P, 8P	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 1P+SN, 2P, 3P, 3P+SN, 3P+N
High wiring capacity

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N	150x210x107	Top/bottom	2xM32	Threaded open entries
			Rear	-	Blank side
63-80-100	3P, 3P+SN, 3P+N	264x315x122	Top/bottom	-	Blank side
			Rear	-	Blank side
100-125-160	3P, 3P+SN, 3P+N	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 6P, 8P
High wiring capacity

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
20-32-40	6P, 8P	264x315x122	Top/bottom	-	Blank side
			Rear	-	Blank side
63-80-100-125-160	6P, 8P	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.



ISOLATORS-AL SERIES

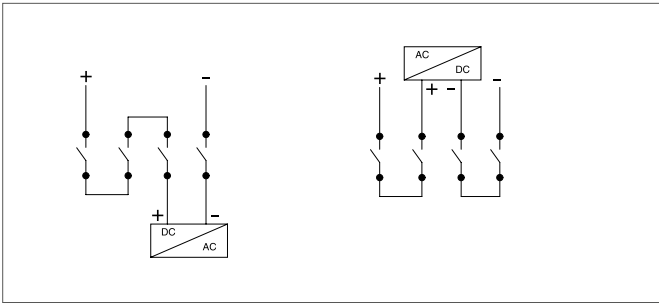
■ TECHNICAL CHARACTERISTICS 20A÷160A 1P+SN, 2P, 3P, 3P+N, 4P

Switch size			Y1			Y2		Y4	Y5			
Rated current In			20A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage		Ui	VAC	690	690	690	690	690	800	800	800	
Rated impulse withstand voltage		Uimp	kV	4	4	4	4	4	8	8	8	
Rated thermal current		Ithe	A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	67	100	125	160
			500V	A	20	25	25	40	67	-	125	125
			690V	A	20	25	25	30	38	-	100	100
	AC23A¹⁾	Rated operational power	415V	Kw	9	15	18.5	33	37	46	55	69
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	40	55	-	-	-
			690V	A	12	18	20	25	32	-	-	-
DC22A²⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	25	32	32	63	-	-	-	-	
		600V	A	10	10	10	-	-	-	-	-	
Short circuit withstand current		Icw (1s)	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current			kAeff	10	10	10	10	10	30	50	50	
Associate fuse size for conditional short circuit current - type gG			A	20	32	40	63	80	100	125	125	
Flexible wires			mm ²	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70	
Rigid wires			mm ²	1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

²⁾ 4P versions with poles in series.

■ 4P VERSIONS POLES CONNECTION IN SERIES FOR USE IN DC



■ TECHNICAL CHARACTERISTICS 16A÷160A 6P, 8P

Switch size			Y3				Y4			Y5			
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8		
Rated thermal current	Ithe	A	16	25	32	40	63	80	100	125	160		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	160	80	125	160	
		690V	A	16	25	32	40	63	160	80	125	160	
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A¹⁾	Rated operational power	415V	Kw	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current		kAeff	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.



ISOLATORS-AL SERIES

■ TECHNICAL CHARACTERISTICS 100A-125A-160A 3P, 3P+SN, 3P+N, 6P, 8P – HIGH WIRING CAPACITY

Switch size			K1		K2	
Rated current In			100A	125A	160A	
Rated insulation voltage	Ui	(V)	1000	1000	1000	
Rated impulse withstand voltage	Uimp	(kV)	8	8	12	
Rated thermal current	Ithe	(A)	100	125	160	
Rated operational current Ie	AC21A/B	Resistive loads, including moderate overloads	415V (A)	100	125	160
		500V (A)	100	125	160	
		690V (A)	100	125	160	
	AC22A/B	Mixed resistive and inductive loads, including moderate overloads	415V (A)	100	125	160
		500V (A)	100	125	160	
		690V (A)	100	125	160	
	AC23A/B	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V (A)	100	125	160
		500V (A)	80	100	125	
		690V (A)	63	80	100	
	AC23A ¹⁾	Rated operational power	415V kW	52	65	85
Short circuit withstand current 1sec		(kA)	5	5	8	
Conditional short circuit current		(kA)	50	50	50	
Associate fuse size for conditional short circuit current		(A)	100	125	160	
Terminal bolt size		mm	M6	M6	M8	
Palm width		mm	15	15	21	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL004001 590.PL004002	590.PL004005	590.PL004003 590.PL004004	590.PL004006	590.PL005	590.PL006011 590.PL0060021
Switch type	Y1		Y2		Y3-Y4-Y5	K1-K2
Contact type	NC NO	NO/NC	NC NO	NO/NC	NO/NC	NO/NC
Break activation	Simultaneous	Break before main contacts	Simultaneous	Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	16A	10A	10A
	250V	16A	16A	16A	16A	16A
Rated operational current AC15	400V	4.5A		4.5A	-	
	250V	6A		6A	-	

ENCLOSED FUSE SWITCH-DISCONNECTORS IN DIE-CAST ALUMINIUM ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

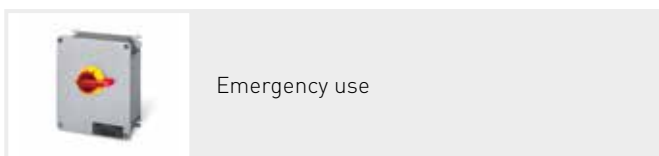
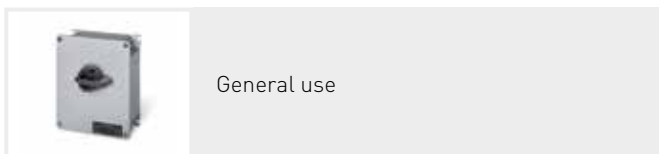
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-80A
Polarity:	2P, 3P, 3P+N, 4P ¹⁾
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Material:	Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Colour:	Grey RAL 9006
Self extinguishing degree (GWT):	960°C (switch)
Protection degree:	IP65
Impact resistance:	IK08
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷630A 8mm

2P and 3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾Only 16A and 32A rated currents.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



ISOLATORS-AL SERIES

ENCLOSURE DIMENSIONS AND CABLE ENTRIES 2P, 3P, 3P+N, 4P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
16-32	2P, 3P,3P+N, 4P	253x217x93	Top/Bottom	Blank side
			Rear	Blank side
63-80	3P, 3P+N	410x315x128	Top/Bottom	Blank side
			Rear	Blank side

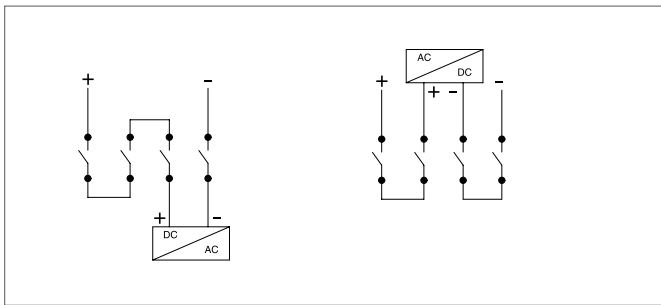
Special drillings on request.

TECHNICAL CHARACTERISTICS 16A÷80A 2P, 3P, 3P+N, 4P

Switch size			F1		KF1			
Rated current In			16A	32A	63A	80A		
Rated insulation voltage	Ui	VAC	690	690	1000	1000		
		VDC	400	400	1500	1500		
Rated impulse withstand voltage	Uimp	kV	4	4	8	8		
Rated thermal current	Ithe	A	16	32	63	80		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	32	63	80
			500V	A	16	32	63	80
			690V	A	16	32	63	80
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32	63	80
			500V	A	16	32	63	80
			690V	A	16	32	63	80
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32	63	80
			500V	A	16	32	45	63
			690V	A	16	25	32	45
	DC21A	Resistive loads, including moderate overloads	220V	A	25	32	63	80
			400V	A	-	-	-	-
			600V	A	-	-	-	-
	DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	220V	A	20	32	63	80
			400V	A	-	-	-	-
600V			A	-	-	-	-	
DC23A ¹⁾	Switching of motor loads or other highly inductive loads (ie. motors in series)	220V	A	-	-	50	50	
		400V	A	-	-	-	-	
Conditional short circuit current		kAeff	10	10	100	100		
Associate fuse size for conditional short circuit current		A	16	32	63	80		
Fuse type			gG	gG	DIN/BS	DIN/BS		
Flexible wires		mm ²	1,5-10	1,5-10	-	-		
Rigid wires		mm ²	1,5-16	1,5-16	-	-		
Terminal bolt size		mm			M6	M6		
Palm width		mm			15	15		

¹⁾ 4P versions with poles in series (16A-32A).

■ 4P VERSIONS POLES CONNECTION IN SERIES FOR USE IN DC



■ FUSES TYPE

Rated current	16A	32A	63A	80A
DIN type fuses	-	-	NH C00	NH C00
BS type fuses	-	-	A2-A3	OSD
Cylindrical fuses (gG)	10.3x38	10.3x38	-	-

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL0060011 590.PL0060021
Switch type		F1	F1	KF1
Contact type		NO NC	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	-	-



ISOLATORS-AL SERIES

ENCLOSED CHANGE-OVER SWITCHES I-0-II IN DIE-CAST ALUMINIUM ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

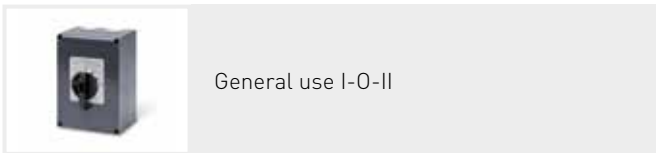
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-25A-32A-40A-63A-80A 100A-125A-160A
Polarity:	3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	16A÷40A IP66 63A÷160A IP65
Installation temperature:	-25°C +60°C
Material:	Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Colour:	Grey RAL 7015
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	16A÷40A IK10 63A÷160A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)°
Max diameter of the padlock arch:	16A÷160A 8mm

3P+N and 8P versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 3P, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
			Top/bottom	2xM32	Threaded caps supplied
16-25-32-40	3P, 3P+N	150x210x107	Top/bottom	2xM32	Threaded caps supplied
			Rear	-	-
63-80-100	3P, 3P+N	264x315x122	Top/bottom	-	Blank side
			Rear	-	Blank side
125-160	3P, 3P+N	315x410x153	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 16A÷160A 3P, 3P+N

Switch size			C1				C2			C3			
Rated current I _n			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	U_i	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	U_{imp}	kV	8	8	8	8	8	8	8	8	8		
Rated thermal current	I_{the}	A	16	25	32	40	63	80	100	125	160		
Rated operational current I _e	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A¹⁾	Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	I_{cw}	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current		kA _{eff}	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL005	
Switch type	C1-C2-C3	
Contact type	NO/NC	
Break activation	Break before main contacts	
Rated thermal current	400V	10A
	250V	16A

ISOLATORS-FR SERIES

■ FIRE RATED ENCLOSED SWITCH-DISCONNECTORS F200



■ REFERENCE STANDARDS

IEC EN 60947-3

BS EN 12101-3

EN 60529

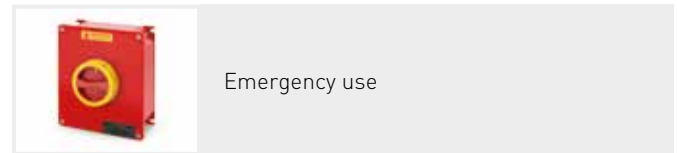
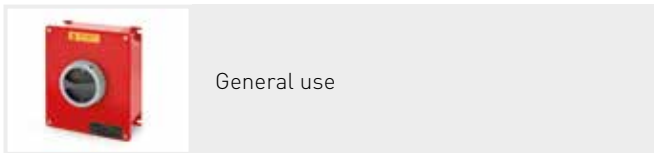
■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



■ TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A- 25A ¹⁾ - 32A-40A-63A 80A-100A- 125A-160A-200A 315A-500A-630A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 6P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	16A÷100A IP66 125A÷630A IP65
Installation temperature:	-25°C +60°C
Material:	16A÷160A Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Material:	200A÷630A Sheet steel

Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Red RAL 3020
Self extinguishing degree (GWT):	960°C (switch)
Fire rated classification:	F200 (200°C for 120min.)
Impact resistance:	16÷100A IK10 125÷160A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	8mm

2P and 3P+N versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral (solid neutral terminal block).
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 poles.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - ALUMINIUM ENCLOSURE

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - SHEET STEEL ENCLOSURE

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Aluminium enclosure 20A÷160A 1P+SN, 2P, 3P, 3P+SN, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N	105x150x82	Top/bottom	Blank side
			Rear	Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N	150x210x107	Top/bottom	Blank side
			Rear	Blank side
125	3P, 3P+SN, 3P+N	264x315x122	Top/bottom	Blank side
			Rear	Blank side
160	3P, 3P+SN, 3P+N	315x410x150	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Aluminium enclosure 16A÷160A 6P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
16-25-32-40	6P	150x210x107	Top/bottom	Blank side
			Rear	Blank side
63-80-100	6P	264x315x122	Top/bottom	Blank side
			Rear	Blank side
125-160	6P	315x410x150	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Sheet steel enclosures 200A÷630A 3P, 3P+SN, 3P+N, 6P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
200-250	3P, 3P+SN, 3P+N	300x500x200	Top	Blank side
			Bottom	Gland plate
	6P	600x800x300	Top	Blank side
			Bottom	Gland plate
315-400	3P, 3P+SN, 3P+N	400x600x200	Top	Blank side
			Bottom	Gland plate
	6P	800x800x300	Top	Blank side
			Bottom	Gland plate
500-630	3P, 3P+SN, 3P+N	500x700x250	Top	Blank side
			Bottom	Gland plate
	6P	1000x1000x300	Top	Blank side
			Bottom	Gland plate

Special drillings on request.

ISOLATORS-FR SERIES

■ TECHNICAL CHARACTERISTICS 20A÷160A 2P, 3P, 3P+N

Switch size			Y1			Y2		Y4	Y5		
Rated current In			20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	690	690	690	690	690	800	800	800	
Rated impulse withstand voltage	Uimp	kV	4	4	4	4	4	8	8	8	
Rated thermal current	Ithe	A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
		500V	A	20	32	32	63	80	100	125	160
		690V	A	20	32	32	63	80	100	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
		500V	A	20	32	32	63	80	100	125	160
		690V	A	20	32	32	63	80	100	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	67	100	125	160
		500V	A	20	25	25	40	67	-	125	125
		690V	A	20	25	25	30	38	-	100	100
	AC23A¹⁾ Rated operational power	415V	Kw	9	15	18.5	33	37	46	55	69
	AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	40	55	-	-	-
		690V	A	12	18	20	25	32	-	-	-
Short circuit withstand current	Icw (1s)	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff	10	10	10	10	10	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	20	32	40	63	80	100	125	125	
Flexible wires		mm ²	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70	
Rigid wires		mm ²	1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 16A÷160A -6P

Switch size			Y3				Y4			Y5		
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800	
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8	
Rated thermal current	Ithe	A	16	25	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	63	160	80	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	40	40	40	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	63	63	125	125
		690V	A	16	25	25	25	32	32	32	100	100
	AC23A ¹⁾	Rated operational power	415V	Kw	7,5	11	15	18,5	35	37	46	55
Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125	
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 200A÷630A 3P, 3P+N, 6P

Switch size			K2		K3			K4	
Rated current In			200	250	315	400	500	630	
Rated insulation voltage	Ui	(V)	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage	Uimp	kV)	12	12	12	12	12	12	
Rated thermal current	Ithe	(A)	200	250	315	400	500	800	
Rated operational current Ie	AC21A/B Resistive loads, including moderate overloads	415V	(A)	200	250	315	400	500	630/800
		500V	(A)	200	250	315	400	500	630/800
		690V	(A)	200	250	315	400	500	630/800
	AC22A/B Mixed resistive and inductive loads, including moderate overloads	415V	(A)	200	250	315	400	500	630/800
		500V	(A)	200	250	315	400	400	630
		690V	(A)	200	250	315	400	400	630
	AC23A/B Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	(A)	200	250	315	400	500	630
		500V	(A)	160	200	250	315	315	500
		690V	(A)	125	160	200	250	250	400
	AC23A ¹⁾	Rated operational power	415V	kW	105	130	165	200	210
Short circuit withstand current 1sec		(kA)	8	8	13	13	13	26.5	
Conditional short circuit current		(kA)	50	50	50	50	50	50	
Associate fuse size for conditional short circuit current - type gG		(A)	200	250	315	400	400	630	
Terminal bolt size		mm ²	M8	M8	M10	M10	M10	M12	
Palm width		mm	21	21	25	25	25	30	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

ISOLATORS-FR SERIES

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL004003 590.PL004004	590.PL004006	590.PL005
Switch type		Y1		Y2		Y3-Y4-Y5
Contact type		NC NO	NO/NC	NC NO	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	16A	10A	10A
	250V	16A	16A	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	4.5A	-	-
	250V	6A	-	6A	-	-

■ AUXILIARY CONTACTS

Code		590.PL004012 590.PL004022	590.PL004013 590.PL004023	590.PL006011 590.PL006021
Switch type		K2	K3	K4
Contact type		NO/NC	NO/NC	NO/NC
Break activation		Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	10A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	-	-	-
	250V	-	-	-

■ FIRE RATED ENCLOSED SWITCH-DISCONNECTORS F400



■ REFERENCE STANDARDS

IEC EN 60947-3
BS EN 12101-3
EN 60529

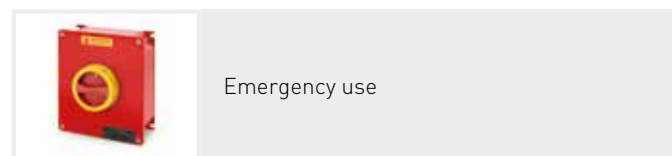
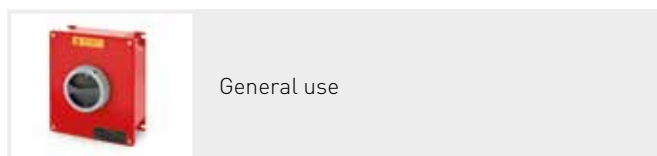
■ MARKINGS AND DIRECTIVES



■ QUALITY MARKS



■ VERSIONS



■ TECHNICAL CHARACTERISTICS

Rated current:	20A-32A-40A-63A-80A-100A 125A-160A-200A-315A-400A-630A
Polarity:	2P, 3P, 3P+N, 6P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	20A÷160A Die-cast aluminium
Finishing:	Painting with thermosetting powder based on saturated carboxylated polyester resins with high resistance to UV rays and atmospheric agents
Material:	200A÷630A Sheet steel

Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Rosso RAL 3020
Self extinguishing degree (GWT):	960°C (switch)
Fire rated classification:	F400 (400°C for 120min.)
Impact resistance:	20÷160A IK08 200A÷630A IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷630A 8mm

2P and 3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - ALUMINIUM ENCLOSURE

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - SHEET STEEL ENCLOSURE

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Aluminium enclosure 20A÷160A all polarities and 160A 6P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
20-32-40	2P, 3P, 3P+N	168x192x80	Top/bottom	Blank side
			Rear	Blank side
	6P	217x253x93	Top/bottom	Blank side
			Rear	Blank side
63-80-100	2P, 3P, 3P+N	217x253x93	Top/bottom	Blank side
			Rear	Blank side
	6P	264x315x122	Top/bottom	Blank side
			Rear	Blank side
125-160	3P, 3P+N	315x410x150	Top/bottom	Blank side
			Rear	Blank side
125-160	6P	400x500x200 ¹⁾	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

¹⁾ Sheet steel enclosure with hinged door.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Sheet steel enclosure with hinged door 160A 6P and 200A÷630A 3P, 3P+N, 6P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
160	6P	400x500x200	Top/bottom	Gland plate
			Rear	Blank side
200-250	3P, 3P+N	500x700x200	Top/bottom	Gland plate
			Rear	Blank side
	6P	600x800x300	Top/bottom	Gland plate
			Rear	Blank side
315-400	3P, 3P+N	500x700x250	Top/bottom	Gland plate
			Rear	Blank side
	6P	800x800x300	Top/bottom	Gland plate
			Rear	Blank side
630	3P, 3P+N	800x800x300	Top/bottom	Gland plate
			Rear	Blank side
	6P	800x1000x300	Top/bottom	Gland plate
			Rear	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 20A÷160A 2P, 3P, 3P+N, 6P

Switch size				FR1			FR2			FR3		
Rated current In				20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage		Ui	VAC	690	690	690	800	800	800	800	800	
Rated impulse withstand voltage		Uimp	kV	6	6	6	8	8	8	8	8	
Rated thermal current		Ithe	A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	80	100	125	10
	AC23A¹⁾	Rated operational power	415V	kW	9	15	18.5	35	37	46	55	69
Short circuit withstand current		Icw	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current			kAeff	10	10	10	30	30	30	50	50	
Associate fuse size for conditional short circuit current - type gG			A	16	32	40	63	80	100	125	125	
Flexible wires			mm ²	1.5-10	1.5-10	1.5-10	10-50	10-50	10-50	10-70	10-70	
Rigid wires			mm ²	1.5-16	1.5-16	1.5-16	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 200A÷630A 3P, 3P+N, 6P

Switch size				FR4		FR5		FR6	
Rated current In				200A	250A	315A	400A	630A	
Rated insulation voltage		Ui	VAC	1000	1000	1000	1000	1000	
Rated impulse withstand voltage		Uimp	kV	8	8	8	8	8	
Rated thermal current		Ith/Ithe	A	200	250	315	400	630	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	200	250	315	400	630
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	200	250	315	400	630
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	200	250	315	400	630
	AC23A¹⁾	Rated operational power	415V	kW	105	130	165	210	330
Short circuit withstand current		Icw (1s)	A	13	13	13	13	13	
Conditional short circuit current			kAeff	50	50	50	50	50	
Associate fuse size for conditional short circuit current - type gG			A	200	250	315	400	630	
Terminal bolt size			mm ²	M8 ²⁾ /M10	M10	M10	M10	M12	
Palm width			mm ²	25	25	25	25	30	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

²⁾ For versions 6P.

ISOLATORS-HD SERIES

ENCLOSED SWITCH-DISCONNECTORS IN HEAVY DUTY THERMOPLASTIC ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

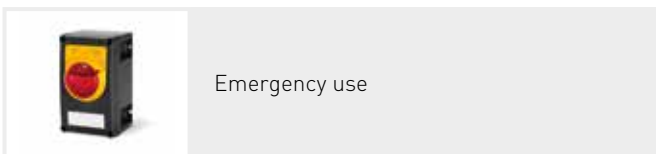
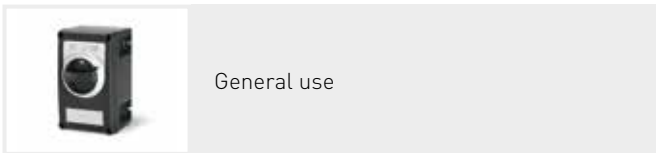
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	20A-32A-40A
Polarity:	2P, 3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP66
Installation temperature:	-25°C +60°C
Material:	Heavy duty thermoplastic
Colour:	Grey RAL 7016
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	960°C (body) 960°C (switch)
Impact resistance at -40°C:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Padlock arch diameter to be used:	6mm

2P and 3P+N versions with early make late break neutral pole.

Earth conductor connection terminal.

Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 2P, 3P,3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
20-32-40	2P, 3P,3P+N	115x190x128	Top	Blank side
			Bottom	Blank side ¹⁾
			Rear	Blank side

Special drillings on request.

¹⁾Blank side with drilling point marks.

■ TECHNICAL CHARACTERISTICS 20A÷40A 2P, 3P, 3P+N

Switch size				Y1			
Rated current I _n				20A	32A	40A	
Rated insulation voltage		U_i	VAC	690	690	690	
Rated impulse withstand voltage		U_{imp}	kV	4	4	4	
Rated thermal current		I_{the}	A	20	32	40	
Rated operational current I _e	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40
			500V	A	20	32	32
			690V	A	20	32	32
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40
			500V	A	20	32	32
			690V	A	20	32	32
	AC23A	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
	AC23A¹⁾	Rated operational power	415V	Kw	9	15	18.5
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5
			690V	A	12	18	20
Short circuit withstand current		I_{cw} (1s)		A	400	400	400
Conditional short circuit current				kA _{eff}	10	10	10
Associate fuse size for conditional short circuit current - type gG				A	20	32	40
Flexible wires				mm ²	1.5-10	1.5-10	1.5-10
Rigid wires				mm ²	1.5-16	1.5-16	1.5-16

¹⁾This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL004001 590.PL004002	590.PL004005	
Switch type			
Y1			
Contact type	NC NO	NO/NC	
Break activation	Simultaneous	Break before main contacts	
Rated thermal current	400V	16A	10A
	250V	16A	16A
Rated operational current AC15	400V	4.5A	
	250V	6A	

ISOLATORS-HR SERIES

ENCLOSED SWITCH-DISCONNECTORS IN METAL ENCLOSURE WITH HINGED DOOR



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

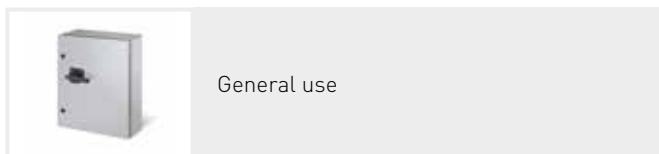
MARKINGS AND DIRECTIVES



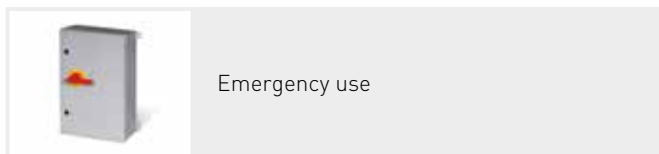
QUALITY MARKS



VERSIONS



General use



Emergency use

TECHNICAL CHARACTERISTICS

Rated current:	100A-125A-160A-200A-250A-315A 400A-500A-630A-800A-1000A 1250A-1600A
Polarity:	3P, 3P+SN, 3P+N, 6P, 8P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	1000Vac - 1500Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Sheet steel
Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	RAL 7035
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Max diameter of the padlock arch:	8mm

3P+N and 8P versions with early make late break neutral pole.
3P+SN versions with unswitched neutral (solid neutral terminal block).
Earth conductor connection threaded bar.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

3P, 3P+SN, 3P+N sheet steel enclosures with hinged door and top/bottom cable entries.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Blank side
160-200-250	3P, 3P+SN, 3P+N	300x500x200	Bottom	Gland plate
			Top	Blank side
315-400	3P, 3P+SN, 3P+N	400x600x200	Bottom	Gland plate
			Top	Blank side
500-630	3P, 3P+SN, 3P+N	500x700x250	Bottom	Gland plate
			Top	Blank side
800-1000-1250-1600	3P, 3P+SN, 3P+N	600x1000x300	Bottom	Gland plate
			Top	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

3P, 3P+SN, 3P+N sheet steel enclosures with hinged door and bottom/bottom cable entries equipped with connection bar system.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Blank side
160-200-250	3P, 3P+SN, 3P+N	300x500x200	Bottom	Gland plate
			Top	Blank side
315-400	3P, 3P+SN, 3P+N	400x600x200	Bottom	Gland plate
			Top	Blank side
500	3P, 3P+SN, 3P+N	500x700x250	Bottom	Gland plate
			Top	Blank side
630-800	3P, 3P+SN, 3P+N	800x800x300	Bottom	Gland plate
			Top	Blank side
1000-1250-1600	3P, 3P+SN, 3P+N	1000x1000x300	Bottom	Gland plate
			Top	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

6P and 8P sheet steel enclosures with hinged door and top/bottom cable entries.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Blank side
100-125	6P, 8P	400x500x200	Bottom	Gland plate
			Top	Blank side
160	6P, 8P	500x700x250	Bottom	Gland plate
			Top	Blank side
200-250	6P, 8P	600x800x300	Bottom	Gland plate
			Top	Blank side
315-400-500	6P, 8P	800x800x300	Bottom	Gland plate
			Top	Blank side
630	6P, 8P	1000x1000x300	Bottom	Gland plate
			Top	Blank side

Special drillings on request.

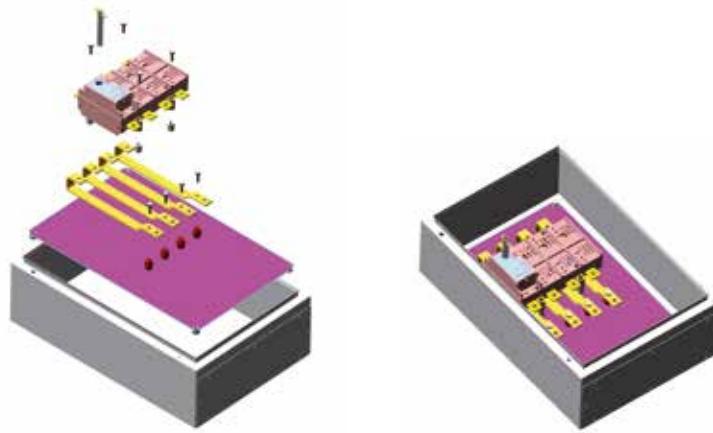


ISOLATORS-HR SERIES

■ BOTTOM/BOTTOM ENTRY VERSIONS

CONNECTION BAR SYSTEM FOR BOTTOM/BOTTOM ENTRIES

Insulated bar system which allows the wiring of both incoming and outgoing cables from the bottom side only, without cable bending.



■ TECHNICAL CHARACTERISTICS 100A÷1600A 3P, 3P+SN, 3P+N, 6P, 8P

Switch size			K1		K2			K3		K4	K5		K6			
Rated current In			100	125	160	200	250	315	400	500	630	800	1000	1250	1600 ²⁾	
Rated insulation voltage	Ui	[V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage	Uimp	[kV]	8	8	12	12	12	12	12	12	12	12	12	12	12	
Rated thermal current	Ithe	[A]	100	125	160	200	250	315	400	500	800	800	1000	1250	1600	
Rated operational current Ie	AC21A/B	Resistive loads, including moderate overloads	415V [A]	100	125	160	200	250	315	400	500	630/800	800	1000	1250	1600
			500V [A]	100	125	160	200	250	315	400	500	630/800	800	1000	1250	1600
			690V [A]	100	125	160	200	250	315	400	500	630/800	800	1000	1250	1250
	AC22A/B	Mixed resistive and inductive loads, including moderate overloads	415V [A]	100	125	160	200	250	315	400	500	630/800	800	1000	1250	1600
			500V [A]	100	125	160	200	250	315	400	400	630	800	1000	1250	1250
			690V [A]	100	125	160	200	250	315	400	400	630	800	1000	1250	400
	AC23A/B	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V [A]	100	125	160	200	250	315	400	500	630	800	1000	1250	1250
			500V [A]	80	100	125	160	200	250	315	315	500	800	800	800	800
			690V [A]	63	80	100	125	160	200	250	250	400	400	400	400	400
	AC23A¹⁾	Rated operational power	415V kW	52	65	85	105	130	165	200	210	330	420	525	600	630
	Short circuit withstand current 1sec		[kA]	5	5	8	8	8	13	13	13	26.5	35	35	35	60
	Conditional short circuit current		[kA]	50	50	50	50	50	50	50	50	50	100	100	100	-
Associate fuse size for conditional short circuit current - type gG		[A]	100	125	160	200	250	315	400	400	630	800	1000	1000	-	
Terminal bolt size		mm ²	M6	M6	M8	M8	M8	M10	M10	M10	M12	M16	M16	M16	2xM14	
Palm width		mm	15	15	21	21	21	25	25	25	30	50	50	50	60	

Full current neutral pole available on request.

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

²⁾ 1250A rated neutral pole.

■ AUXILIARY CONTACTS

Code		590.PL006011 590.PL006021	590.PL006012 590.PL006022	590.PL006013 590.PL006023
Switch type		K1-K2	K3-K5-K6	K4
Contact type		NO/NC	NO/NC	NO/NC
Break activation		Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	10A	10A	10A
	250V	16A	16A	16A

ENCLOSED FUSE SWITCH-DISCONNECTORS WITH HINGED DOOR



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

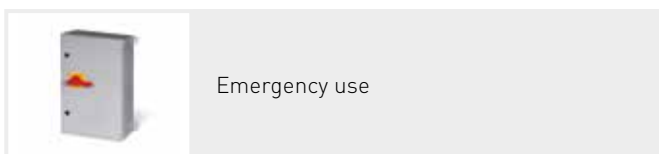
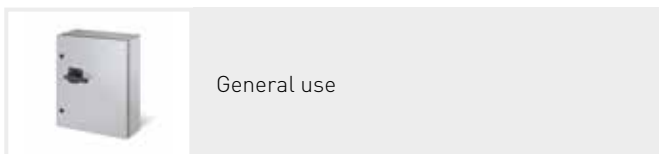
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	100A-125A-160A-200A-250A 315A-400A-630A
Polarity:	3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	1000Vac - 1500Vdc
Installation temperature:	-25°C +60°C
Material:	Sheet steel
Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Grey RAL 7035
Self extinguishing degree (GWT):	960°C (switch)
Protection degree:	IP65
Impact resistance (IK degree):	IK10
Handle lock (with padlock):	OFF (3 padlocks)
Auxiliary contacts:	Max 2 auxiliary contacts
Max diameter of the padlock arch:	8mm

3P+N versions with early make late break neutral pole.
Earth conductor connection threaded bar.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

ISOLATORS-HR SERIES

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 3P, 3P+N with top/bottom cable entries

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
100-125-160	3P, 3P+N	300x500x200	Top	Gland plate
			Bottom	Blank side
200-250	3P, 3P+N	400x600x200	Top	Gland plate
			Bottom	Blank side
315-400	3P, 3P+N	500x700x250	Top	Gland plate
			Bottom	Blank side
630	3P, 3P+N	600x800x300	Top	Gland plate
			Bottom	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 3P, 3P+N with bottom/bottom cable entries equipped with connection bar system

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
100-125-160	3P, 3P+N	300x500x200	Top	Gland plate
			Bottom	Blank side
200-250	3P, 3P+N	400x600x250	Top	Gland plate
			Bottom	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 100A÷630A 3P, 3P+N

Switch size				KF2			KF3		KF4		KF5	
Rated current In				100A	125A	160A	200A	250A	315A	400A	630A	
Rated insulation voltage	Ui	VAC		1000	1000	1000	1000	1000	1000	1000	1000	
		VDC		1500	1500	1500	1500	1500	1500	1500	1500	
Rated impulse withstand voltage	Uimp	kV		12	12	12	12	12	12	12	12	
Rated thermal current	Ithe	A		100	125	160	200	250	315	400	630	
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	100	125	160	200	250	315	400	630
			500V	A	100	125	160	200	250	315	400	630
			690V	A	100	125	160	200	250	315	400	630
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	100	125	160	200	250	315	400	630
			500V	A	100	125	160	200	250	315	400	630
			690V	A	100	125	160	200	250	315	400	630
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	100	125	160	200	250	315	400	630
			500V	A	80	100	125	160	200	250	315	500
			690V	A	63	80	100	125	160	200	250	400
	DC21A	Resistive loads, including moderate overloads	220V	A	100	125	160	200	250	315	400	630
			400V	A	100	125	160	200	250	315	400	630
			600V	A	-	-	-	-	-	315	400	630
Conditional short circuit current			kAeff	50	50	50	50	50	50	50	50	
Associate fuse size for conditional short circuit current			A	100	125	160	200	250	315	400	630	
Fuse type				DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS	
Flexible wires			mm ²	-	-	-	-	-	-	-	-	
Rigid wires			mm ²	-	-	-	-	-	-	-	-	
Terminal bolt size			mm	M8	M8	M8	M10	M10	M12	M12	M16	
Palm width			mm	21	21	21	25	25	30	30	50	

■ FUSES TYPE

Rated current (A)	100A	125A	160A	200A	250A	315A	400A	630A
DIN type fuses	NH 00	NH 00	NH 00	NH 1	NH 1	NH 2	NH 2	NH 3
BS type fuses	A4	DEO	DEO	B1-B2	B1-B3	B1-B3	B1-B4	C2
Cylindrical fuses (gG)	-	-	-	-	-	-	-	-

■ AUXILIARY CONTACTS

Code		590.PL006011 590.PL006021	590.PL006012 590.PL006022	590.PL006013 590.PL006023
Switch type		KF2	KF3-KF5	KF4
Contact type		NO/NC	NO/NC	NO/NC
Break activation		Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	10A	10A	10A
	250V	16A	16A	16A

ISOLATORS-HR SERIES

ENCLOSED CHANGE-OVER SWITCHES I-0-II IN METAL ENCLOSURE WITH HINGED DOOR



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



General use

TECHNICAL CHARACTERISTICS

Rated current:	100A-125A-160A-200A-250A 315A-400A-500A-630A
Polarity:	3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	1000Vac - 1000Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Sheet steel
Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	Grey RAL 7035
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Max diameter of the padlock arch:	8mm

3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 100A÷630A 3P, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top	Blank side
100-125	3P, 3P+N	400x500x200	Bottom	Gland plate
			Top	Blank side
160	3P, 3P+N	500x700x250	Bottom	Gland plate
			Top	Blank side
200-250	3P, 3P+N	600x800x300	Bottom	Gland plate
			Top	Blank side
315-400-500	3P, 3P+N	800x800x300	Bottom	Gland plate
			Top	Blank side
630	3P, 3P+N	1000x1000x300	Bottom	Gland plate
			Top	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 100A÷630A 3P, 3P+N

Switch size				KA1		KA2			KA3		KA4		
Rated current In				100	125	160	200	250	315	400	500	630	
Rated insulation voltage		Ui	(V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Rated impulse withstand voltage		Uimp	(kV)	8	8	12	12	12	12	12	12	12	
Rated thermal current		Ithe	(A)	100	125	160	200	250	315	400	500	800	
Rated operational current Ie	AC21A/B	Resistive loads, including moderate overloads	415V	(A)	100	125	160	200	250	315	400	500	630/800
			500V	(A)	100	125	160	200	250	315	400	500	630/800
			690V	(A)	100	125	160	200	250	315	400	500	630/800
	AC22A/B	Mixed resistive and inductive loads, including moderate overloads	415V	(A)	100	125	160	200	250	315	400	500	630/800
			500V	(A)	100	125	160	200	250	315	400	400	630
			690V	(A)	100	125	160	200	250	315	400	400	630
	AC23A/B	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	(A)	100	125	160	200	250	315	400	500	630
			500V	(A)	80	100	125	160	200	250	315	315	500
			690V	(A)	63	80	100	125	160	200	250	250	400
	AC23A ¹⁾	Rated operational power	415V	kW	52	65	85	105	130	165	200	210	330
	Short circuit withstand current 1sec			(kA)	5	5	8	8	8	13	13	13	26.5
	Conditional short circuit current			(kA)	50	50	50	50	50	50	50	50	50
Associate fuse size for conditional short circuit current - type gG			(A)	100	125	160	200	250	315	400	400	630	
Terminal bolt size			mm ²	M6	M6	M8	M8	M8	M10	M10	M10	M12	
Palm width			mm	15	15	21	21	21	25	25	25	30	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL006011 590.PL006021	590.PL006012 590.PL006022	590.PL006013 590.PL006023
Switch type	KA1-KA2	KA3	KA4
Contact type	NO/NC	NO/NC	NO/NC
Break activation	Break before main contacts	Break before main contacts	Break before main contacts
Rated thermal current	400V	10A	10A
	250V	16A	16A

ISOLATORS-INOX SERIES

ENCLOSED SWITCH-DISCONNECTORS IN STAINLESS STEEL ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

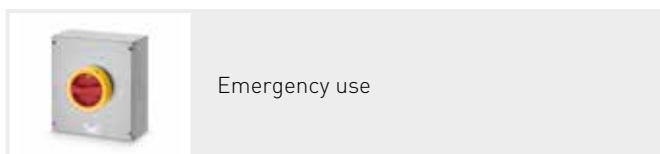
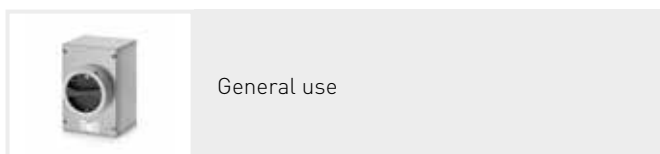
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A-25A ¹⁾ -32A-40A-63A 80A-100A-125A-160A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 6P, 8P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Stainless steel AISI 304L ²⁾
Surface finishing:	Fine satin medium Scotch-Brite type
Impact resistance:	IK10
Self extinguishing degree (GWT):	960°C (switch)
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷160A 8mm

2P, 3P+N and 8P versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral (solid neutral terminal block).

Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 and 8 poles.

²⁾ Special versions in stainless steel AISI 316L on request.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 1P+SN, 2P, 3P, 3P+SN, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/bottom	Blank side
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N	100x160x90	Top/bottom	Blank side
			Rear	Blank side
20-32-40 High wiring capacity	3P, 3P+N	150x160x90	Top/bottom	Blank side
			Rear	Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N	150x220x120	Top/bottom	Blank side
			Rear	Blank side
125-160	3P, 3P+SN, 3P+N	300x400x150	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 6P, 8P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/Bottom	Blank side
16-25-32-40 63-80-100	6P, 8P	250x280x120	Top/Bottom	Blank side
			Rear	Blank side
125-160	6P, 8P	300x400x150	Top/Bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 1P+SN

Switch size				Y01			
Rated current I _n				20A	32A	40A	
Rated insulation voltage	U_i	VAC		250	250	250	
Rated impulse withstand voltage	U_{imp}	kV		4	4	4	
Rated thermal current	I_{the}	A		20	32	40	
Rated operational current I _e	AC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	40
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	250V	A	20	22	25
Short circuit withstand current	I_{cw}	A		480	480	480	
Conditional short circuit current		kA _{eff}		10	10	10	
Associate fuse size for conditional short circuit current - type gG		A		20	32	40	
Flexible wires		mm ²		1.5-6	1.5-6	1.5-6	
Rigid wires		mm ²		1.5-6	1.5-6	1.5-6	

ISOLATORS-INOX SERIES

■ TECHNICAL CHARACTERISTICS 20A÷160A 1P+SN, 2P, 3P, 3P+N

Switch size			Y1			Y2			Y5		
Rated current In			20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	690	690	690	800	800	800	800	800	
Rated impulse withstand voltage	Uimp	kV	4	4	4	8	8	8	8	8	
Rated thermal current	Ith/Ithe	A	20	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
		500V	A	20	32	32	63	80	100	125	160
		690V	A	20	32	32	63	80	100	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
		500V	A	20	32	32	63	80	100	125	160
		690V	A	20	32	32	63	80	100	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	80	100	125	160
		500V	A	20	25	25	63	63	63	125	125
		690V	A	20	25	25	32	32	32	100	100
	AC23A¹⁾ Rated operational power	415V	Kw	9	15	18.5	35	37	46	55	69
	AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	-	-	-	-	-
		690V	A	12	18	20	-	-	-	-	-
Short circuit withstand current	Icw (1s)	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff	10	10	10	30	30	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	20	32	40	63	80	100	125	125	
Flexible wires		mm ²	1.5-10	1.5-10	1.5-10	10-50	10-50	10-50	10-70	10-70	
Rigid wires		mm ²	1.5-16	1.5-16	1.5-16	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 16A÷160A 6P, 8P

Switch size			Y3				Y4			Y5		
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800	
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8	
Rated thermal current	Ithe	A	16	25	32	40	63	80	100	125	160	
Rated operational current Ie	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	63	160	80	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	40	40	40	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	63	63	125	125
		690V	A	16	25	25	25	32	32	32	100	100
	AC23A¹⁾ Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
Conditional short circuit current		kAeff	50	50	50	50	30	30	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125	
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL005
Switch type		Y1		Y3-Y4-Y5
Contact type		NC NO	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	-	-

ISOLATORS-INOX SERIES

ENCLOSED CHANGE-OVER SWITCHES I-0-II IN STAINLESS STEEL ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

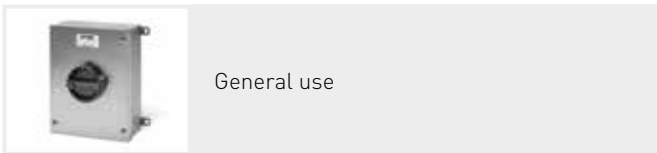
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-25A- 32A-40A-63A-80A 100A-125A -160A
Polarity:	3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Stainless steel AISI 304L ¹⁾
Surface finishing:	Fine satin medium Scotch-Brite type
Impact resistance:	IK10
Self extinguishing degree (GWT):	960°C (switch)
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	8mm

3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾ Special versions in stainless steel AISI 316L on request.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 3P, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/bottom	Blank side
16-25-32-40 63-80-100	3P,3P+N	250x280x120	Top/bottom	Blank side
			Rear	Blank side
125-160	3P,3P+N	300x400x150	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 16A÷160A 3P, 3P+N

Switch size			C1				C2			C3			
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	8		
Rated thermal current	Ithe	A	16	25	32	40	63	80	100	125	160		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A¹⁾	Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	Icw	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current		kAeff	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

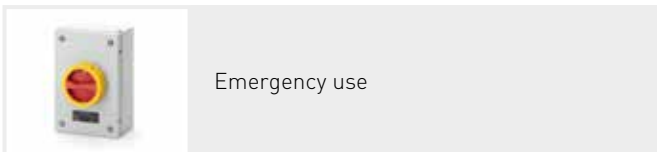
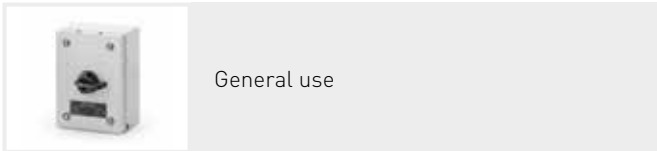
Code	590.PL005	
Switch type	C1-C2-C3	
Contact type	NO/NC	
Break activation	Break before main contacts	
Rated thermal current	400V	10A
	250V	16A

ISOLATORS-MS SERIES

ENCLOSED SWITCH-DISCONNECTORS IN MILD STEEL ENCLOSURE



VERSIONS



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A-25A ¹⁾ -32A-40A-63A-80A-100A-125A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 6P, 8P
Rated voltage:	690Vac - 600Vdc
Frequency	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Sheet steel
Finishing:	Painting by cathodic electrophoresis with epoxy resin and finishing with thermosetting epoxy polyester powders
Colour:	RAL 7035
Self extinguishing degree (GWT):	960°C (switch)
Impact resistance:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	16A ÷ 40A 6mm 63A ÷ 80A 8mm

2P, 3P+N and 8P versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral (solid neutral terminal block).
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾Only for 6 and 8 poles.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 1P+SN, 2P, 3P, 3P+SN, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/Bottom	Blank side
20-32-40-63-80	1P+SN, 2P, 3P, 3P+SN, 3P+N	150x210x107	Top/Bottom	Blank side
			Rear	Blank side
100-125	3P, 3P+SN, 3P+N	200x300x120	Top/Bottom	Blank side
			Rear	Blank side

Special drillings on request.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 6P, 8P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/Bottom	Blank side
16-25-32-40	6P, 8P	150x210x107	Top/Bottom	Blank side
			Rear	Blank side
63-80	6P, 8P	200x300x120	Top/Bottom	Blank side
			Rear	Blank side
100-125	6P, 8P	300x400x120	Top/Bottom	Blank side
			Rear	Blank side

Special drillings on request.



ISOLATORS-MS SERIES

■ TECHNICAL CHARACTERISTICS 20A-125A 1P+SN, 2P, 3P, 3P+SN, 3P+N

Switch size			Y1			Y2		Y4	Y5		
Rated current I _n			20A	32A	40A	63A	80A	100A	125A		
Rated insulation voltage	U_i	VAC	690	690	690	690	690	800	800		
Rated impulse withstand voltage	U_{imp}	kV	4	4	4	4	4	8	8		
Rated thermal current	I_{the}	A	20	32	40	63	80	100	125		
Rated operational current I _e	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125
			500V	A	20	32	32	63	80	100	125
			690V	A	20	32	32	63	80	100	125
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125
			500V	A	20	32	32	63	80	100	125
			690V	A	20	32	32	63	80	100	125
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	67	100	125
			500V	A	20	25	25	40	67	-	125
			690V	A	20	25	25	30	38	-	100
	AC23A¹⁾	Rated operational power	415V	Kw	9	15	18.5	33	37	46	55
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	40	55	-	-
			690V	A	12	18	20	25	32	-	-
Short circuit withstand current	I_{cw} (1s)	A	400	400	400	1500	1500	1500	3000		
Conditional short circuit current		kA _{eff}	10	10	10	10	10	30	50		
Associate fuse size for conditional short circuit current - type gG		A	20	32	40	63	80	100	125		
Flexible wires		mm ²	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70		
Rigid wires		mm ²	1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ TECHNICAL CHARACTERISTICS 16A-125A 6P, 8P

Switch size			Y3				Y4			Y5		
Rated current In			16A	25A	32A	40A	63A	80A	100A	125A		
Rated insulation voltage	Ui	VAC	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8		
Rated thermal current	Ithe	A	16	25	32	40	63	80	100	125		
Rated operational current Ie	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125
		500V	A	16	25	32	40	63	160	80	125	
		690V	A	16	25	32	40	63	160	80	125	
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125
		500V	A	16	25	32	40	63	160	80	125	
		690V	A	16	25	32	40	40	40	40	125	
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125
		500V	A	16	25	32	40	63	63	63	125	
		690V	A	16	25	25	25	32	32	32	100	
	AC23A ¹⁾	Rated operational power	415V	Kw	7,5	11	15	18,5	35	37	46	55
Short circuit withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000		
Conditional short circuit current		kAeff	50	50	50	50	50	50	30	50		
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL004003 590.PL004004	590.PL004006	590.PL005
Switch type		Y1		Y2		Y3-Y4-Y5
Contact type		NC NO	NO/NC	NC NO	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Simultaneous	Break before main contacts	Simultaneous
Rated thermal current	400V	16A	10A	16A	10A	10A
	250V	16A	16A	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	4.5A	-	-
	250V	6A	-	6A	-	-

ISOLATORS-PH SERIES

ENCLOSED SWITCH-DISCONNECTORS IN DIRECT CURRENT FOR PHOTOVOLTAIC APPLICATION



VERSIONS



General use

REFERENCE STANDARDS

IEC EN 60947-3

IEC 60364-7-712

EN 60529

MARKINGS AND DIRECTIVES



QUALITY MARKS



TECHNICAL CHARACTERISTICS

Rated current:	15A-16A-20A-25A-30A-40A
Polarity:	4P, 5P, 6P, 8P
Rated voltage:	16A 450Vdc 15A-20A-30A-40A 800Vdc
Insulating voltage:	16A 690V 15A-20A-30A-40A 1500V
Protection degree:	16A IP66/IP69 15A-20A-30A-40A IP65
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grigi RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	16A IK09 15A-20A-30A-40A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Padlock arch diameter to be used:	16A 6mm 15A-20A-30A-40A 8mm

Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Rated current (A)	Tensione nominale (V)	Nr of poles in series	Enclosure dimensions (mm)	Cable entries		
16	450	4P	110x150x86	Top/bottom	2xM25	Knock-outs/Blank side ¹⁾
				Rear	2xM25	Sfondabile/Blank side ¹⁾
15-20	800	4P, 5P	105x150x100	Top/bottom	-	Blank side ²⁾
				Rear	-	Blank side
25-30	800	6P, 8P	160x220x114	Top/bottom	2xM32	Knock-outs/Blank side ¹⁾
				Rear	1xM32	Sfondabile/Blank side ¹⁾
40	800	8P	228x308x128	Top/bottom	-	Blank side

Special drillings on request.

¹⁾ Reversible base, blank sides with drilling point marks.

²⁾ Blank sides with drilling point marks.

■ TECHNICAL CHARACTERISTICS 15A÷40A

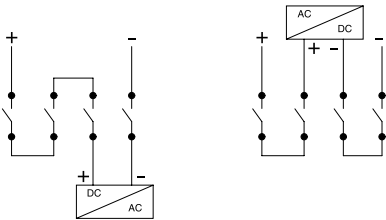
Switch size			D1	D3				D5		
Rated current In			16A	15A	20A	25A	30A	40A		
Rated insulation voltage	Ui	VAC	690	1500	1500	1500	1500	1500		
Rated impulse withstand voltage	Uimp	kV	4	8	8	8	8	8		
Rated thermal current	Ithe	A	30	63	63	63	63	125		
Nr of poles in series			4	4	5	6	8	8		
Rated operational current Ie	AC21A/B	Resistive loads, including moderate overloads	300V DC	A	32	-	-	-	-	
			400V DC	A	-	30	35	40	60	80
			450V DC	A	16	-	-	-	-	-
			500V DC	A	-	30	35	40	45	65
			600V DC	A	-	20	25	40	40	60
			750V DC	A	-	15	20	25	30	40
			800V DC	A	-	15	20	25	30	40
Short circuit withstand current	Icw (1s)	A	400	1100	1100	1100	1100	3000		
Flexible wires		mm ²	1.5-10	16	16	16	16	70		
Rigid wires		mm ²	1.5-10	16	16	35	16	70		

ISOLATORS-PH SERIES

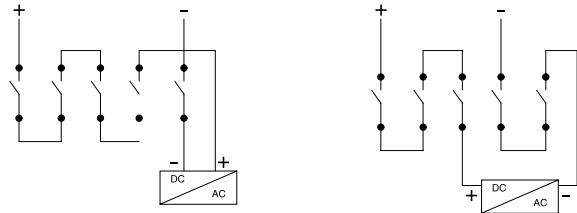
■ SWITCH LINKING

In order to make easier the work of the installer, it is possible to choose the manner of wiring of the poles in series. In this way the incoming and the outgoing can be varied both on the top side and on the bottom side. In the packaging jumpers are supplied to cover the chosen configuration.

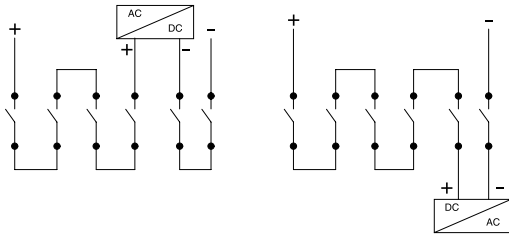
**590.DCGE0815 - 590.DCGE0416 -
(4 POLES IN SERIES) - 3 JUMPERS SUPPLIED**



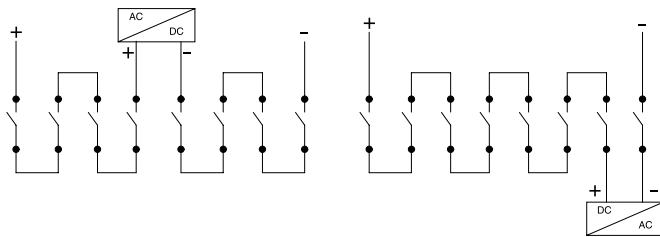
**590.DCGE0820 - (5 POLES IN SERIES) -
4 JUMPERS SUPPLIED**



590.DCGE0825 - (6 POLES IN SERIES) - 5 JUMPERS SUPPLIED



590.DCGE0830 - 590.DCGE0840 - (8 POLES IN SERIES) - 8 JUMPERS SUPPLIED



■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL005
Switch type		D1		D3-D5
Contact type		NC NO	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	-	-



ISOLATORS-TP SERIES

ENCLOSED SWITCH-DISCONNECTORS IN THERMOPLASTIC ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

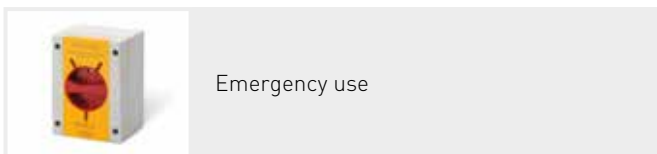
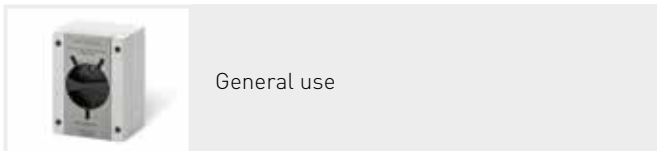
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A ¹⁾ -20A-25A ¹⁾ -32A-40A-63A 80A-100A-125A-160A
Polarity:	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P, 6P, 8P
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz-d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	16A÷100A IP66/IP69 125A÷160A IP55 Flush mounting version 20A-40A IP55
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	20A÷100A IK09 125A÷160A IK08 Flush mounting version 20A-40A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock) ²⁾
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷160A 8mm

2P, 3P+N and 8P versions with early make late break neutral pole.
1P+SN and 3P+SN versions with unswitched neutral (solid neutral terminal block).

Terminal/threaded bar earth conductor connection.

Equipped with door locking with the switch in ON position.

¹⁾ Only for 6 and 8 poles.

²⁾ Only general use versions.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Enclosure in thermoplastic insulation material 1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
			Top/bottom	Rear	Blank side
20-32-40	1P+SN	82x120x69	Top/bottom	1xM20+1xM25	Knock-outs
			Rear	2xM20	Knock-outs
20-32-40	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P	110x150x86	Top/bottom	2xM25	Knock-outs/Blank side ¹⁾
			Rear	2xM25	Knock-outs/Blank side
63-80-100	1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P	160x220x114	Top/bottom	2xM32	Knock-outs/Blank side ¹⁾
			Rear	2xM32	Knock-outs/Blank side ¹⁾
125	3P, 3P+SN, 3P+N	228x308x128	Top	-	Blank side
			Bottom	-	Blank side
			Rear	-	Blank side
160	3P, 3P+SN, 3P+N	308x338x128	Top	-	Blank side
			Bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

¹⁾ Reversible base, blank sides with drilling point marks.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Enclosure in thermoplastic insulation material 6P, 8P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
			Top/bottom	Rear	Blank side
16-25-32-40	6P-8P	160x220x114	Top/bottom	2xM32	Knock-outs o Blank side ¹⁾
			Rear	2xM32	Knock-outs o Blank side ¹⁾
63-80-100	6P-8P	228x308x128	Top	-	Blank side
			Bottom	-	Blank side
			Rear	-	Blank side
125-160	6P-8P	308x338x128	Top	-	Blank side
			Bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

¹⁾ Reversible base, blank sides with drilling point marks.



ISOLATORS-TP SERIES

■ TECHNICAL CHARACTERISTICS 20A-40A 1P+SN

Switch size				Y01			
Rated current I _n				20A	32A	40A	
Rated insulation voltage	U_i	VAC		250	250	250	
Rated impulse withstand voltage	U_{imp}	kV		4	4	4	
Rated thermal current	I_{the}	A		20	32	40	
Rated operational current I _e	AC22A	Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	40
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	250V	A	20	22	25
Short circuit withstand current	I_{cw} (1s)	A		480	480	480	
Conditional short circuit current		kA _{eff}		10	10	10	
Associate fuse size for conditional short circuit current - type gG		A		20	32	40	
Flexible wires		mm ²		1.5 - 6	1.5 - 6	1.5 - 6	
Rigid wires		mm ²		1.5 - 6	1.5 - 6	1.5 - 6	

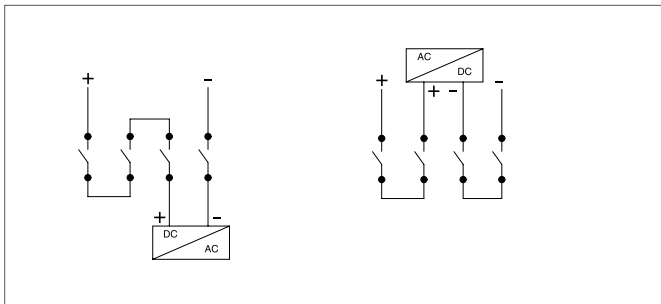
■ TECHNICAL CHARACTERISTICS 20A÷160A 1P+SN, 2P, 3P, 3P+SN, 3P+N, 4P

Switch size				Y1			Y2		Y4	Y5		
Rated current I _n				20A	32A	40A	63A	80A	100A	125A	160A	
Rated insulation voltage	U_i	VAC		690	690	690	690	690	800	800	800	
Rated impulse withstand voltage	U_{imp}	kV		4	4	4	4	4	8	8	8	
Rated thermal current	I_{the}	A		20	32	40	63	80	100	125	160	
Rated operational current I _e	AC21A	Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160
			500V	A	20	32	32	63	80	100	125	160
			690V	A	20	32	32	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	20	32	35	63	67	100	125	160
			500V	A	20	25	25	40	67	-	125	125
			690V	A	20	25	25	30	38	-	100	100
	AC23A¹⁾	Rated operational power	415V	Kw	9	15	18.5	33	37	46	55	69
	AC3	Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	18	25	28.5	40	55	-	-	-
			690V	A	12	18	20	25	32	-	-	-
	DC22A²⁾	Mixed resistive and inductive loads, including moderate overloads	250V	A	25	32	32	63	-	-	-	-
			600V	A	10	10	10	-	-	-	-	-
Short circuit withstand current	I_{cw} (1s)	A		400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current		kA _{eff}		10	10	10	10	10	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A		20	32	40	63	80	100	125	125	
Flexible wires		mm ²		1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70	
Rigid wires		mm ²		1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70	10-70	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

²⁾ 4P versions with poles in series.

■ 4P VERSIONS POLES CONNECTION IN SERIES FOR USE IN DC



■ TECHNICAL CHARACTERISTICS 16A÷160A 6P, 8P

Switch size		Y3				Y4			Y5				
Rated current I _n		16A	25A	32A	40A	63A	80A	100A	125A	160A			
Rated insulation voltage	U_i	VAC	800	800	800	800	800	800	800	800			
Rated impulse withstand voltage	U_{imp}	kV	8	8	8	8	8	8	8	8			
Rated thermal current	I_{the}	A	16	25	32	40	63	80	100	125	160		
Rated operational current I _e	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160	
		500V	A	16	25	32	40	63	160	80	125	160	
		690V	A	16	25	32	40	63	160	80	125	160	
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160	
		500V	A	16	25	32	40	63	160	80	125	160	
		690V	A	16	25	32	40	40	40	40	125	160	
	AC23A Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160	
		500V	A	16	25	32	40	63	63	63	125	125	
		690V	A	16	25	25	25	32	32	32	100	100	
	AC23A¹⁾	Rated operational power	415V	kW	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	I_{cw} (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current		kA _{eff}	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL004001 590.PL004002	590.PL004005	590.PL004003 590.PL004004	590.PL004006	590.PL005
Switch type	Y1		Y2		Y3-Y4-Y5
Contact type	NC NO	NO/NC	NC NO	NO/NC	NO/NC
Break activation	Simultaneous	Break before main contacts	Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	16A	10A
	250V	16A	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	4.5A	-
	250V	6A	-	6A	-

ISOLATORS-TP SERIES

ENCLOSED SWITCH-DISCONNECTORS IN THERMOPLASTIC ENCLOSURE WITH HINGED DOOR



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

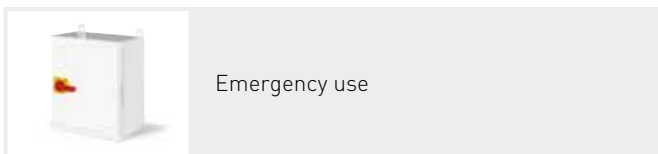
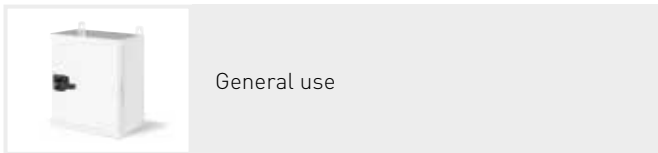
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	160A-200A-250A
Polarity:	3P, 3P+SN, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	IP65
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	IK10
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Max diameter of the padlock arch:	8mm

3P+N versions with early make late break neutral pole.
3P+SN versions with unswitched neutral (solid neutral terminal block).
Earth conductor connection threaded bar.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES

Thermoplastic enclosures 3P, 3P+SN, 3P+N with hinged door and top/bottom cable entries.

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
160-200-250	3P, 3P+SN, 3P+N	464x519x245	Top/bottom	Blank side

Special drillings on request.

■ TECHNICAL CHARACTERISTICS 160A÷250A 3P, 3P+SN, 3P+N

Switch size				K2			
Rated current In				160	200	250	
Rated insulation voltage	Ui	(V)		1000	1000	1000	
Rated impulse withstand voltage	Uimp	kV)		12	12	12	
Rated thermal current	Ithe	(A)		160	200	250	
Rated operational current Ie	AC21A/B	Resistive loads, including moderate overloads	415V (A)	160	200	250	
			500V (A)	160	200	250	
			690V (A)	160	200	250	
	AC22A/B	Mixed resistive and inductive loads, including moderate overloads	415V (A)	160	200	250	
			500V (A)	160	200	250	
			690V (A)	160	200	250	
	AC23A/B	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V (A)	160	200	250	
			500V (A)	125	160	200	
			690V (A)	100	125	160	
	AC23A ¹⁾	Rated operational power	415V kW	85	105	130	
	Short circuit withstand current 1sec			(kA)	8	8	8
	Conditional short circuit current			(kA)	50	50	50
Associate fuse size for conditional short circuit current - type gG			(A)	160	200	250	
Terminal bolt size			mm ²	M8	M8	M8	
Palm width			mm	21	21	21	

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL006011 590.PL006021	
Switch type	K2	
Contact type	NO/NC	
Break activation	Break before main contacts	
Rated thermal current	400V	10A
	250V	16A

ISOLATORS-TP SERIES

ENCLOSED FUSE SWITCH-DISCONNECTORS IN THERMOPLASTIC ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

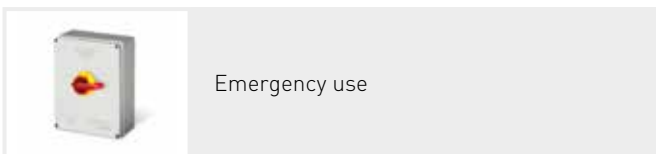
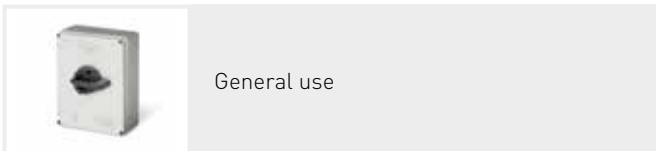
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A-80A 100A-125A-160A
Polarity:	2P, 3P, 3P+N, 4P ¹⁾
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz-d.c.
Insulating voltage:	690Vac - 600Vdc
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) □
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	IK08
Protection degree:	16A-32A IP65 63A÷160A IP55
Handle lock (with padlock):	OFF (3 padlocks) ON (1 padlock)
Max diameter of the padlock arch:	20A÷40A 6mm 63A÷160A 8mm

2P e 3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

¹⁾Only 16A and 32A rated currents.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.

■ ENCLOSURE DIMENSIONS AND CABLE ENTRIES 2P, 3P, 3P+N, 4P

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries	
			Top/bottom	Blank side
16-32	2P, 3P,3P+N, 4P	240x190x125	Top/bottom	Blank side
			Rear	Blank side
63-80	3P, 3P+N	380x300x170	Top/bottom	Blank side
			Rear	Blank side
100-125-160	3P, 3P+N	450x370x180	Top/bottom	Blank side
			Rear	Blank side

Special drillings on request.

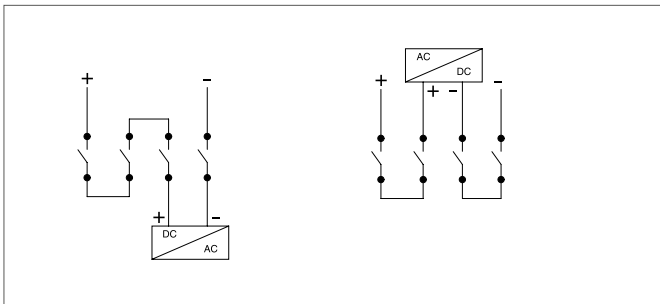
■ TECHNICAL CHARACTERISTICS 16A÷160A 2P, 3P, 3P+N, 4P

Switch size			F1		KF1		KF2				
Rated current I _n			16A	32A	63A	80A	100A	125A	160A		
Rated insulation voltage	U _i	VAC	690	690	1000	1000	1000	1000	1000		
		VDC	400	400	1500	1500	1500	1500	1500		
Rated impulse withstand voltage	U _{imp}	kV	4	4	8	8	12	12	12		
Rated thermal current	I _{the}	A	16	32	63	80	100	125	160		
Rated operational current I _e	AC21A	Resistive loads, including moderate overloads	415V	A	16	32	63	80	100	125	160
			500V	A	16	32	63	80	100	125	160
			690V	A	16	32	63	80	100	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	32	63	80	100	125	160
			500V	A	16	32	63	80	100	125	160
			690V	A	16	32	63	80	100	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	32	63	80	100	125	160
			500V	A	16	32	45	63	80	100	125
			690V	A	16	25	32	45	63	80	100
	DC21A	Resistive loads, including moderate overloads	220V	A	25	32	63	80	100	125	160
			400V	A	-	-	-	-	100	125	160
			600V	A	-	-	-	-	-	-	-
	DC22A ¹⁾	Mixed resistive and inductive loads, including moderate overloads	220V	A	20	32	63	80	100	125	160
			400V	A	-	-	-	-	100	125	160
600V			A	-	-	-	-	-	-	-	
DC23A ¹⁾	Switching of motor loads or other highly inductive loads	220V	A	-	-	50	50	100	125	160	
		400V	A	-	-	-	-	100	125	160	
Conditional short circuit current		kA _{eff}	10	10	100	100	50	50	50		
Associate fuse size for conditional short circuit current		A	16	32	63	80	100	125	160		
Fuse type			gG	gG	DIN/BS	DIN/BS	DIN/BS	DIN/BS	DIN/BS		
Flexible wires		mm ²	1,5-10	1,5-10	-	-	-	-	-		
Rigid wires		mm ²	1,5-16	1,5-16	-	-	-	-	-		
Terminal bolt size		mm			M6	M6	M8	M8	M8		
Palm width		mm			15	15	21	21	21		

¹⁾ 4P versions with poles in series (16A-32A).

ISOLATORS-TP SERIES

■ 4P VERSIONS POLES CONNECTION IN SERIES FOR USE IN DC



■ FUSES TYPE

Rated current (A)	16A	32A	63A	80A	100A	125A	160A
DIN type fuses	-	-	NH C00	NH C00	NH 00	NH 00	NH 00
BS type fuses	-	-	A2-A3	OSD	A4	DEO	DEO
Cylindrical fuses (gG)	10X38	10X38	-	-	-	-	-

■ AUXILIARY CONTACTS

Code		590.PL004001 590.PL004002	590.PL004005	590.PL0060011 590.PL0060021
Switch type		YF1	YF1	KF2
Contact type		NO NC	NO/NC	NO/NC
Break activation		Simultaneous	Break before main contacts	Break before main contacts
Rated thermal current	400V	16A	10A	10A
	250V	16A	16A	16A
Rated operational current AC15	400V	4.5A	-	-
	250V	6A	-	-

ENCLOSED CHANGE-OVER SWITCHES I-0-II IN THERMOPLASTIC ENCLOSURE



REFERENCE STANDARDS

IEC EN 60947-3

EN 60529

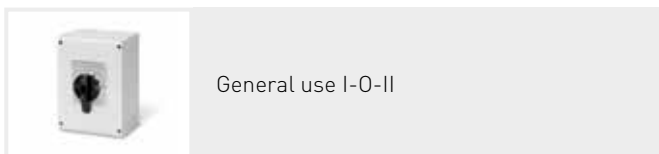
MARKINGS AND DIRECTIVES



QUALITY MARKS



VERSIONS



TECHNICAL CHARACTERISTICS

Rated current:	16A-25A-32A-40A-63A-80A 100A-125A-160A
Polarity:	3P, 3P+N
Rated voltage:	690Vac - 600Vdc
Frequency:	50/60Hz, d.c.
Insulating voltage:	690Vac - 600Vdc
Protection degree:	16A÷40A IP66/IP69 63A÷160A IP55
Installation temperature:	-25°C +60°C
Material:	Thermoplastic
Colour:	Grey RAL 7035
Insulation class:	Class II (double insulation) <input type="checkbox"/>
Self extinguishing degree (GWT):	650°C (body) 960°C (switch)
Impact resistance:	20A÷40A IK09 63A÷160A IK08
Auxiliary contacts:	Max 2 auxiliary contacts
Handle lock (with padlock):	OFF (3 padlocks)
Max diameter of the padlock arch:	20A÷40A 8mm

3P+N versions with early make late break neutral pole.
Terminal/threaded bar earth conductor connection.
Equipped with door locking with the switch in ON position.

BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Limited resistance	Resistant	Limited resistance	Not resistant	Not resistant	Limited resistance	Limited resistance	Resistant

Resistance values to chemical agents have to be considered indicative. For further information and specific substances, contact the technical service.



ISOLATORS-TP SERIES

■ CABLE ENTRIES 16A÷160A 3P, 3P+N

Rated current (A)	Nr of poles	Enclosure dimensions (mm)	Cable entries		
			Top/bottom		Blank side ¹⁾
16-25-32-40	3P, 3P+N	155x210x107	Top/bottom	-	Blank side ¹⁾
			Rear	2xM32	Knock-outs
63-80-100	3P, 3P+N	228x308x128	Top/bottom	-	Blank side
			Rear	-	Blank side
125-160	3P, 3P+N	308x338x128	Top/bottom	-	Blank side
			Rear	-	Blank side

Special drillings on request.

¹⁾ Blank side with drilling point marks.

■ TECHNICAL CHARACTERISTICS 16A÷160A 3P, 3P+N

Switch size			C1				C2			C3			
Rated current I _n			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	U_i	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	U_{imp}	kV	8	8	8	8	8	8	8	8	8		
Rated thermal current	I_{the}	A	16	25	32	40	63	80	100	125	160		
Rated operational current I _e	AC21A	Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	63	160	80	125	160
	AC22A	Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
			500V	A	16	25	32	40	63	160	80	125	160
			690V	A	16	25	32	40	40	40	40	125	160
	AC23A	Switching of motor loads or other highly inductive loads (3 phase/3 pole)	415V	A	16	25	32	40	63	80	100	125	160
			500V	A	16	25	32	40	63	63	63	125	125
			690V	A	16	25	25	25	32	32	32	100	100
	AC23A	Rated operational power ¹⁾	415V	kW	7,5	11	15	18,5	35	37	46	55	69
	Short circuit withstand current	I_{cw}	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current		kA _{eff}	50	50	50	50	50	50	30	50	50	
Associate fuse size for conditional short circuit current - type gG		A	16	25	32	40	63	80	100	125	125		
Flexible wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		
Rigid wires		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70		

¹⁾ This value is provided as an indication considering the most critical inductive load condition and may vary according to the specifications provided by the motor manufacturer.

■ AUXILIARY CONTACTS

Code	590.PL005	
Switch type	C1-C2-C3	
Contact type	In scambio	
Break activation	Break before main contacts	
Rated thermal current	400V	10A
	250V	16A

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BY PRODUCT NUMBER**

INDEX BY PRODUCT NUMBER

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590.EM12505	17	590.EMB16005	57	590.F2EM4006	44	590.FEM10005.U	49	590.FEM63006.U	51	590.FGE3205.U	48	590.GE20005	17
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590.GE4006	13	590.GR4005	11	590.HEM2508.W	29	590.HEMD8005	59	590.HGE3203	24	590.HGED6303	58	590.KEM50003	41
590.GE4008	13	590.HEL10003	26	590.HEM3202	25	590.HEMF1602	59	590.HGE3203.W	28	590.HGED6305	58	590.KEM50005	41
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590.GE4013	13	590.HEL1608	25	590.HEM3202.WSN	29	590.HEMF1605	59	590.HGE3205	24	590.HGEF1602	58	590.KEM50008	41
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590.GE6305.SN	16	590.HEL4002	25	590.HEM3208.W	29	590.HGE10005.WSN	28	590.HGE4002.W	28	590.JEM3202	21	590.KEMB12503	62
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590.GE8005-C	66	590.HEM10003	27	590.HEM4005.WSN	29	590.HGE12505.W	28	590.HGE4006	24	590.JGE3205	21	590.KEMB40005	62
590.GE8006	16	590.HEM10003.W	29	590.HEM4006	25	590.HGE12505.WSN	28	590.HGE4006.W	28	590.JGE4002	21	590.KEMB63003	62
590.GE8008	16	590.HEM10005	27	590.HEM4006.W	29	590.HGE12505-C	67	590.HGE4008	24	590.JGE4003	21	590.KEMB63005	62
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590.GED12503	56	590.HEM12508	27	590.HEM6305.WSN	29	590.HGE1603-C	67	590.HGE6305.WSN	28	590.KEM160005	41	590.KEMD40003	62
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590.GED16005	56	590.HEM16005	27	590.HEM6308	27	590.HGE1606.W	28	590.HGE6306.W	28	590.KEM16005	41	590.KEMD63005	62
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590.KGE10005-C	69	590.KGE40008	39	590.KGED20005B	61	590.MGE1606	32	590.SEM10008	36	590.SGE1608	35
590.KGE10006	39	590.KGE50003	39	590.KGED25003	60	590.MGE1608	32	590.SEM12503	36	590.SGE2002	35
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SCAME PARRE S.p.A.
Via Costa Erta, 15 - 24020 Parre (BG) Italy
Tel. +39 035 705000 - Fax +39 035 703122



www.scame.com
export@scame.com

