



IMO

The World's Finest



Forces Multi-facettes

Fondée en 1971, IMO Precision Controls représente une force majeure dans le domaine de l'Automatisme Industriel et des composants Electroniques.

Société Anglaise a actionnaire unique et acteur principal sur le marché, nous nous battons au plus haut niveau pour vous apporter la gamme de produits la plus complète au meilleur prix.

IMO Precision Controls, première société européenne à proposer une garantie de 3 ans sur la plupart de nos produits électroniques de control et 5 ans de garantie sur les variateurs Jaguar, fer de lance de notre gamme de produits.



Competencia multi-sectorial

Fundada en 1971, IMO Precision Controls representa una fuerza principal en el campo del automatización industrial y componentes electrónicos. Una compañía 100 % privada y británica, competimos a los niveles más altos, entregando en el mercado los productos más completos y de precios competitivos.

IMO Precision Controls es la primera compañía en Europa que ofrece una garantía de tres años en la mayoría de sus componentes electronicos de control y una garantía de cinco años en la serie de variadores Jaguar con los cuales domina el mercado.



Competenza multi-settoriale

IMO Precision Controls, fondata nel 1971 rappresenta una forza nel campo dell'Automazione Industriale e dei componenti elettronici. Una compagnia al 100% privata e Britannica, e protagonista affermato nel mercato mondiale, competiamo ai più alti livelli offrendo i prodotti più completi e dai prezzi altamente competitivi.

IMO Precision Controls é la prima compagnia in Europa a offrire 3 anni di garanzia sulla maggior parte dei suoi componenti elettronici di controllo e cinque anni di garanzia sulla vasta gamma di convertitori di frequenza Jaguar con i quali domina il mercato.



Faceted vielkräfte

IMO Precision Controls, gegründet 1971, vertritt eine Hauptkraft im Feld der Industrie automation und Elektronischen Bestandteile. Ein Britischer gesellschaft die 100 % in Privatbesitz, und ein feststehender globaler Spieler, wir können uns am höchsten Niveau bewerben, das die umfassendsten und konkurrenzfähig bewerteten Produkte auf dem Markt liefert.

Die erste Gesellschaft in Europa, um so zu tun, gibt IMO Precision Controls eine Garantie des drei Jahres auf der Mehrheit seiner elektronischen beruhenden Kontrollbestandteile und einer Garantie des fünf Jahres auf seinem Markt, der Reihe von Jaguar-Antrieben führt.



Multi faceted strengths



IMO Precision Controls, founded in 1971 represents a major force in the field of Industrial Automation and Electronic components. A 100% privately owned British company and an established global player, we compete at the highest level, delivering the most comprehensive and competitively priced products in the market.

Today, IMO is focused on providing Industrial Automation, Motion Control and Electronic components which, combined with superior service, offers customers significant competitive advantage.

The IMO brand is recognised for its quality, reliability and cost-efficiency in an ever-increasing number of markets, worldwide. Thanks to its Italian, French, German and Canadian subsidiaries and a comprehensive distribution network, IMO is able to satisfy the demands of over 150 countries, ensuring that IMO products are available wherever and whenever customers want them.

From a single product to complete application solutions, the IMO Automation and Controls range fully addresses the sense, control and switch demands of today's factory automation and control environment. In terms of choice, the IMO line-up has no peer, offering everything to meet the needs of today's OEMs, panel builders and end users.

The first company in Europe to do so, IMO gives a three year warranty on the majority of its electronics based control components and a five year warranty on its market leading range of Jaguar drives.



Crystal clear vision

- | | | |
|--|--|---|
| 1971 IMO Precision Controls founded | 1999 IMO launches its export drive with the establishment of IMO Italia | 2006 IMO international distribution partners reach 50 |
| 1980 IMO Electronics Division formed | 2000 IMO signs global distribution agreement with Premier Farnell | 2009 IMO upgrades its IMOnline facility to include full direct customer online ordering, order progress and delivery tracking |
| 1984 IMO launches the IMO Jaguar Drive, the first AC inverter to be made available ex-stock and still the only AC inverter in the world with a full 5 year warranty | 2002 IMO international distribution partners reach 20 | 2010 IMO launches the industry's first Drives Scrappage Scheme allowing customers to trade-in any inverter for an energy saving scrappage rebate when they purchase a new IMO Jaguar Drive |
| 1991 IMO becomes a proprietary product source responsible for the manufacture of its products under its own brand | 2003 IMO acquires an HMI manufacturing business in order to extend its range of interface products and OPC server software | |
| 1997 IMO establishes the first internet fulfilment partnership in the industry with Premier Farnell via its IMOnline web-site | 2004 IMO acquires Jeambrun Automation to extend its direct presence into the French market | |
| 1998 IMO acquires a stake in signal conditioning manufacturing company | 2005 IMO opens its first North American warehouse facility to provide better service to its distribution partners in the USA and Canada | |

IMO Electronics is at the leading edge of electro-mechanical PCB component technology, with ranges of highly specified relays, PCB terminal blocks, audible devices and LED's designed to meet the most demanding applications, including its revolutionary Chip-on-Board technology.

The company offers markets such as security, instrumentation, automotive and communications one of the most competitive, high quality and comprehensive electro-mechanical component packages available. Supported by sophisticated IT systems and infrastructure, the Electronics Division at IMO is perfectly positioned to meet all vendor and administration reduction requirements.

All products are manufactured to IMO's defined specification applying rigorous quality assurance and reliability standards, while being built to comply with all relevant international approvals.

Three fully equipped in-house laboratories enable IMO to develop and rigorously test new products and allow the company to work directly with the customer to meet all application requirements.

A custom designed computer system offers bar-coding, EDI, JIT, KANBAN and e-business solutions plus much more to reduce customer costs and meet long term objectives of minimum purchasing administration.

IMO's fully automated European and North American Logistic Centres are packed with some of the world's best-engineered components to support companies' business requirements. While it's dedicated internal and external teams of engineers are available to give in-depth technical advice. The company's in-house training facilities ensure that customers receive the best possible support for IMO products.



Diamond service

- Next day delivery on stock items ordered on-line by 3.00pm
- Over 15,000 product lines available
- Din rail assembly
- Web site ordering
- Worldwide distribution
- UK distribution network
- Training facilities
- Technical Support Centre
- Free Product Programming Software



Cam Switches
Din Terminals
Drives
Enclosures
Fieldbus remote I/O
Isolators & Switch Fuses
MCB & RCD
Motor Circuit Breakers
Motor Control Gear
Relays
Signal Conditioning
Sockets
Timers
Power Supplies



Intelligent Terminals/HMI
Limit Switches
Photoelectric Switches
PLCs
Proximity Switches
Temperature Controls



Jaguar VXG 0.37-710kW
Jaguar VXR 0.4-15kW
Jaguar CUB 0.4-4kW



Audible devices
Chip-on-Board
LEDs & 7 seg. displays
PCB Terminal blocks
Relays - automotive
Relays - power
Relays - signal



DC Isolators
High insulation relays
Junction Boxes
Terminals

All IMO products are tried, tested and approved to relevant international quality standards



IMO has a policy of continuous improvement and therefore specifications may change without notice



IMO online...

Continually updated, our comprehensive web site is packed with information on every single IMO product.

Download datasheets and the latest software.

Order online before 3.00pm for next day delivery of stock items

www.imopc.com



...or on your doorstep.

A carefully selected range of our most popular control components including...

pushbuttons, contact blocks, indicators, contactors, overloads, starters, isolators, switches, enclosures, DIN rail terminals and relays...

are available individually packaged and reasonably priced, off the peg from your local trade outlet.



For full product range:



See enclosed CD



Visit www.imopc.com



Call +44 (0)20 8452 6444

New products

VXG



Page 9

DC ISOLATORS



Page 11

PLC



Page 39

HMI



Page 44

ISMART V3



Page 45

SIGNAL CONDITIONERS



Page 46



Contents

AC variable speed drives	7
DC isolators	11
Isolators and switch fuses	12
Contactors and overloads	13
Enclosed starters	16
Push buttons and pilot lights	17
Cam switches	18
Circuit breakers	19
DIN rail power supplies	21
Enclosures	22
Timers	23
DIN rail terminals	25
PCB terminal blocks	27
Industrial relays and sockets	31
PCB relays	33
PLCs	39
Process controllers	41
HMI (Human Machine Interfaces)	44
Intelligent relays	45
Signal conditioners	46
Temperature controllers	47
Photoelectric switches	48
Proximity switches	49
Limit switches	51
Safety limit switches	52



The IMO Resources CD containing full product data, user / training manuals and configuration / programming software can be found on the inside back cover.

Jaguar CUB

micro inverters

1Ø: 0.37-2.2kW (0.5-3HP)
3Ø: 0.37-4.0kW (0.5-5HP)

- 1 phase to 2.2kW (3HP), 3 phase to 4kW (5HP)
- Easy to replace old Jaguar Cub products
- Integral EMC filter variants
- Higher performance with STV control
- Revolutionary diagnostics
- Active phase loss protection
- Flexible: sink/source logic select, programmable I/O, integral brake chopper
- CE marked, UL and cUL approved

7

Options

- RS485 / Modbus RTU communications
- Remote display / parameter copy unit
- EMC Filter options



CUB micro inverters. IP20

Nominal power kW	HP	Nominal input voltage	Rated output	
			current (Amps)	Type
0.4	0.5	200-240v 1ph 50-60Hz	3	CUB3A-1
0.75	1	200-240v 1ph 50-60Hz	5	CUB5A-1
1.5	2	200-240v 1ph 50-60Hz	8	CUB8A-1
2.2	3	200-240v 1ph 50-60Hz	11	CUB11A-1
0.4	0.5	380-480v 3ph 50-60Hz	1.5	CUB1A5-4
0.75	1	380-480v 3ph 50-60Hz	2.5	CUB2A5-4
1.5	2	380-480v 3ph 50-60Hz	3.7	CUB3A7-4
2.2	3	380-480v 3ph 50-60Hz	5.5	CUB5A5-4
4	5.5	380-480v 3ph 50-60Hz	9	CUB9A-4
0.4	0.5	200-240v 3ph 50-60Hz	3	CUB3A-2
0.75	1	200-240v 3ph 50-60Hz	5	CUB5A-2
1.5	2	200-240v 3ph 50-60Hz	8	CUB8A-2
2.2	3	200-240v 3ph 50-60Hz	11	CUB11A-2
4	5.5	200-240v 3ph 50-60Hz	17	CUB17A-2

CUB micro inverters with built in EMC Filter. IP20

Nominal power kW	HP	Nominal input voltage	Rated output	
			current (Amps)	Type
0.4	0.5	200-240v 1ph 50-60Hz	3	CUB3A-1E
0.75	1	200-240v 1ph 50-60Hz	5	CUB5A-1E
1.5	2	200-240v 1ph 50-60Hz	8	CUB8A-1E
2.2	3	200-240v 1ph 50-60Hz	11	CUB11A-1E
0.4	0.5	380-480v 3ph 50-60Hz	1.5	CUB1A5-4E
0.75	1	380-480v 3ph 50-60Hz	2.5	CUB2A5-4E
1.5	2	380-480v 3ph 50-60Hz	3.7	CUB3A7-4E
2.2	3	380-480v 3ph 50-60Hz	5.5	CUB5A5-4E
4	5.5	380-480v 3ph 50-60Hz	9	CUB9A-4E
0.4	0.5	200-240v 3ph 50-60Hz	3	CUB3A-2E
0.75	1	200-240v 3ph 50-60Hz	5	CUB5A-2E
1.5	2	200-240v 3ph 50-60Hz	8	CUB8A-2E
2.2	3	200-240v 3ph 50-60Hz	11	CUB11A-2E
4	5.5	200-240v 3ph 50-60Hz	17	CUB17A-2E



Jaguar VXR

the mechanical handling solution



1Ø 230V: 0.37-2.2kW (0.5-3HP)
 3Ø 230V or 400V: 0.37-15kW (0.5-20HP)

Wide range: 0.37kW to 15kW ratings in 5 frame sizes in 200V series single and three-phase input, also 380-480V series three phase input units, all with integrated braking.

- Class leading CPU
- Removeable keypad with LAN cable supplied as standard
- Optional multi-function LCD keypad
- Maintenance information including early warning
- Supplied with one RS485 port -a second can be added as an option
- Suitable for a wide range of applications including dosing pumps, conveyors, chairlifts, mixers, shrinkwrappers, palletisers, food processing, indexing...



VXR micro inverters. IP20

Nominal power kW	HP	Nominal input voltage	Rated output	
			current (Amps)	Type
0.4	0.5	200-240v 1ph 50-60Hz	3	VXR3A-1
0.75	1	200-240v 1ph 50-60Hz	5	VXR5A-1
1.5	2	200-240v 1ph 50-60Hz	8	VXR8A-1
2.2	3	200-240v 1ph 50-60Hz	11	VXR11A-1
0.4	0.5	380-480v 3ph 50-60Hz	1.5	VXR1A5-4
0.75	1	380-480v 3ph 50-60Hz	2.5	VXR2A5-4
1.5	2	380-480v 3ph 50-60Hz	3.7	VXR3A7-4
2.2	3	380-480v 3ph 50-60Hz	5.5	VXR5A5-4
4	5.5	380-480v 3ph 50-60Hz	9	VXR9A-4
5.5	7.5	380-480v 3ph 50-60Hz	13	VXR13A-4
7.5	10	380-480v 3ph 50-60Hz	18	VXR18A-4
11	15	380-480v 3ph 50-60Hz	24	VXR24A-4
15	20	380-480v 3ph 50-60Hz	30	VXR30A-4

VXR micro inverters with built in EMC Filter. IP20

Nominal power kW	HP	Nominal input voltage	Rated output	
			current (Amps)	Type
0.4	0.5	00-240v 1ph 50-60Hz	3	VXR3A-1E
0.75	1	200-240v 1ph 50-60Hz	5	VXR5A-1E
1.5	2	200-240v 1ph 50-60Hz	8	VXR8A-1E
2.2	3	200-240v 1ph 50-60Hz	11	VXR11A-1E
0.4	0.5	380-480v 3ph 50-60Hz	1.5	VXR1A5-4E
0.75	1	380-480v 3ph 50-60Hz	2.5	VXR2A5-4E
1.5	2	380-480v 3ph 50-60Hz	3.7	VXR3A7-4E
2.2	3	380-480v 3ph 50-60Hz	5.5	VXR5A5-4E
4	5.5	380-480v 3ph 50-60Hz	9	VXR9A-4E
5.5	7.5	380-480v 3ph 50-60Hz	13	VXR13A-4E*
7.5	10	380-480v 3ph 50-60Hz	18	VXR18A-4E*
11	15	380-480v 3ph 50-60Hz	24	VXR24A-4E*
15	20	380-480v 3ph 50-60Hz	30	VXR30A-4E*

* EMC filters are footprint type (external mounting)



Jaguar VXG

high performance drives

3Ø: 0.37-710kW (0.5-950HP)



9

- User configurable 'quick-start' menu
- IP20 side-by-side mounting (IP40 option kit)
- Integrated EMC filter (EN61800-3 2004 cat C3)
- PLC logic type function
- RoHS, CE, UL/cUL compliant
- V/F, Torque Vector and closed loop control
- Loss-of-command signal detection
- 200% starting torque between 0.3-5Hz.
- Improved open-loop low-speed stability
- Safety input: digital input to enable/disable the IGBT devices of the inverter output stage
- Mechanical brake control output - torque generated

- PID thermistor input
- Input and Output phase-loss protection
- Life time / service due alarm output
- Thermostatically operated long-life cooling fans (designed to operate for 10 years at 40°C)
- Optional Keypad with mini USB port.
- Standard multi-function back-lit keypad with parameter copy mode
- Encoder feedback (closed-loop) and shaftsynchronizing options
- Synchronous (Permanent Magnet) motor options
- Internal brake chopper up to 22kW (30-110kW upon request)



VXG Torque Vector Inverters IP40/IP00

Nominal power				Nominal input voltage	Rated output current (A)		Type
CT		VT			CT	VT	
kW	HP	kW	HP				
0.4	0.55	0.4	0.55	380-480v 3ph 50-60Hz	1.5	1.5	VXG1A5-4E
0.75	1	0.75	1	380-480v 3ph 50-60Hz	2.5	2.5	VXG2A5-4E
1.5	2	1.5	2	380-480v 3ph 50-60Hz	4	4	VXG4A-4E
2.2	3	2.2	3	380-480v 3ph 50-60Hz	5.5	5.5	VXG5.5A-4E
4	5.5	4	5.5	380-480v 3ph 50-60Hz	9	9	VXG9A-4E
5.5	7.5	7.5	10	380-480v 3ph 50-60Hz	13.5	16.5	VXG16A5L-4E
7.5	10	11	15	380-480v 3ph 50-60Hz	18.5	23	VXG23AL-4E
11	15	15	20	380-480v 3ph 50-60Hz	24.5	30.5	VXG30A5L-4E
15	20	18.5	25	380-480v 3ph 50-60Hz	32	37	VXG37AL-4E
18.5	25	22	30	380-480v 3ph 50-60Hz	39	45	VXG45AL-4E
22	30	30	40	380-480v 3ph 50-60Hz	45	60	VXG60AL-4E
30	40	37	50	380-480v 3ph 50-60Hz	60	75	VXG75AL-4E
37	50	45	60	380-480v 3ph 50-60Hz	75	91	VXG91AL-4E
45	60	55	75	380-480v 3ph 50-60Hz	91	112	VXG112AL-4E
55	75	75	100	380-480v 3ph 50-60Hz	112	150	VXG150AL-4E
75	100	90	125	380-480v 3ph 50-60Hz	150	176	VXG176AL-4E
90	125	110	150	380-480v 3ph 50-60Hz	176	210	VXG210AL-4E
110	150	132	180	380-480v 3ph 50-60Hz	210	253	VXG253AL-4E
132	180	160	218	380-480v 3ph 50-60Hz	253	304	VXG304AL-4E
160	218	200	270	380-480v 3ph 50-60Hz	304	377	VXG377AL-4E
200	270	220	300	380-480v 3ph 50-60Hz	377	415	VXG415AL-4E
220	300	280	380	380-480v 3ph 50-60Hz	415	520	VXG520AL-4E
280	380	315	425	380-480v 3ph 50-60Hz	520	650	VXG650AL-4E
315	425	355	475	380-480v 3ph 50-60Hz	585	740	VXG740AL-4E
355	475	400	530	380-480v 3ph 50-60Hz	650	840	VXG840AL-4E
400	530	500	670	380-480v 3ph 50-60Hz	740	960	VXG960AL-4E
500	670	630	840	380-480v 3ph 50-60Hz	960	1170	VXG1170AL-4E
630	840	710	950	380-480v 3ph 50-60Hz	1170	1370	VXG1370AL-4E



iDrive



low cost general purpose micro inverters

1Ø 110V: 0.2-0.75kW (0.25-1HP). 1Ø 230V: 0.2-2.2kW (0.25-3HP)
 3Ø 230V: 0.2-2.2kW (0.25-3HP). 3Ø 400V: 0.75-2.2kW (1-3HP).

Lots of useful features...

- CE, UL and cUL approvals
- Integrated EMC filter
- Basic & Advanced set-up parameters
- DIN rail mounting
- V/F and sensorless vector operating modes
- 8 preset frequencies
- PID control, with 'sleep' operation
- DC braking
- PNP or NPN operation
- Remote keypad option
- PC and PDA set-up / test software
- Multi-function & RS232 and 485 options



10



iDrive micro inverters with built in EMC Filter. IP20

Nominal power kW	HP	Nominal input voltage	Rated output	
			current (Amps)	Type
0.2	0.25	100-120v 1ph 50-60Hz	1.7	EDX-020-11-E*
0.4	0.5	100-120v 1ph 50-60Hz	3.1	EDX-040-11-E*
0.75	1	100-120v 1ph 50-60Hz	4.2	EDX-075-11-E*
0.2	0.25	200-240v 1ph 50-60Hz	1.7	EDX-020-21-E
0.4	0.5	200-240v 1ph 50-60Hz	3.1	EDX-040-21-E
0.75	1	200-240v 1ph 50-60Hz	4.2	EDX-075-21-E
1.5	2	200-240v 1ph 50-60Hz	7.5	EDX-150-21-E
2.2	3	200-240v 1ph 50-60Hz	10.5	EDX-220-21-E
0.2	0.25	200-240v 3ph 50-60Hz	1.7	EDX-020-23-E*
0.4	0.5	200-240v 3ph 50-60Hz	3.1	EDX-040-23-E*
0.75	1	200-240v 3ph 50-60Hz	4.2	EDX-075-23-E*
1.5	2	200-240v 3ph 50-60Hz	7.5	EDX-150-23-E*
2.2	3	200-240v 3ph 50-60Hz	10.5	EDX-220-23-E*
0.75	1	380-480v 3ph 50-60Hz	2.3	EDX-075-43-E
1.5	2	380-480v 3ph 50-60Hz	3.8	EDX-150-43-E
2.2	3	380-480v 3ph 50-60Hz	5.2	EDX-220-43-E

*Special order



Solar Isolators for Photovoltaic



Solar Isolators “SI..” are switch gears for interrupting the DC/AC-Inverter from the solar panels. Photovoltaic-installations have to be equipped with DC-isolators according to IEC 60364-7-712.

- Available in 4 pole versions
- Knife Switch contact mechanism
 - long arc cooled in arc chambers
 - self cleaning contacts
- Trigger ratchet mechanism for high speed switching (Max 5mS)
- Switching capacity and switching speed are independent from operator
- No direct connection between handle and contact system
- Compact and space saving design
- High reliability rotary snap action mechanism
- Maximum torque 1Nm for easy operation
- Poles can be wired in series to increase current rating (DC21B and DC22B)
- Maximum rated current of 58A @ 500VDC (Acc. to DC21B)
- Large box terminals with 16mm² cross sectional area for wiring
- Available in different versions including panel mounting, DIN rail/base
- Panel mounting, base mount door interlock and enclosed (IP65)



11

Product	Type	A @ 600V	Poles
SI16-BMDC64R-4	Base Mount Door Clutch	16	4
SI16-DBL-4	Base Mount For Distribution Boards	16	4
SI16-ES-BMDC-4	Base Mount Door Clutch, Emergency Stop	16	4
SI16-ES-DB-4	Base Mount For Distribution Boards, Emergency Stop	16	4
SI16-ES-PE-4	Enclosed (IP65), Emergency Stop	16	4
SI16-ES-PM64R-4	Panel Mount, Emergency Stop	16	4
SI16-ES-SHM-4	Single Hole Mount Ø22mm, Emergency Stop	16	4
SI16-PE64R-4	Enclosed (IP65)	16	4
SI16-PM64R-4	Panel Mount	16	4
SI16-SHML-4	Single Hole Mount Ø22mm	16	4
SI25-BMDC64R-4	Base Mount Door Clutch	25	4
SI25-DBL-4	Base Mount For Distribution Boards	25	4
SI25-ES-BMDC-4	Base Mount Door Clutch, Emergency Stop	25	4
SI25-ES-DB-4	Base Mount For Distribution Boards, Emergency Stop	25	4
SI25-ES-PE-4	Enclosed (IP65), Emergency Stop	25	4
SI25-ES-PM64R-4	Panel Mount, Emergency Stop	25	4
SI25-ES-SHM-4	Single Hole Mount Ø22mm, Emergency Stop	25	4
SI25-PE64R-4	Enclosed (IP65)	25	4
SI25-PM64R-4	Panel Mount	25	4
SI25-SHML-4	Single Hole Mount Ø22mm	25	4
SI32-BMDC64R-4	Base Mount Door Clutch	32	4
SI32-DBL-4 Base	Mount For Distribution Boards	32	4
SI32-ES-BMDC-4	Base Mount Door Clutch, Emergency Stop	32	4
SI32-ES-DB-4	Base Mount For Distribution Boards, Emergency Stop	32	4
SI32-ES-PE-4	Enclosed (IP65), Emergency Stop	32	4
SI32-ES-PM64R-4	Panel Mount, Emergency Stop	32	4
SI32-ES-SHM-4	Single Hole Mount Ø22mm, Emergency Stop	32	4
SI32-PE64R-4	Enclosed (IP65)	32	4
SI32-PM64R-4	Panel Mount	32	4
SI32-SHML-4	Single Hole Mount Ø22mm	32	4
SIV-B1	Insulated Jumper Connection	-	-





Isolators and switch fuses

- On load fuse switches and Isolators
- 3 and 4 pole versions to 800 Amps
- Door interlocked handles
 - Rotary and Pistol
 - 3 Padlocking positions
- Shaft extensions from 120mm to 500mm
- Auxiliary contacts - various options
- Terminal shrouds - various options
- Full range of neutral terminals

Switch fuses



CF series



3 pole	CF793032
4 pole	CF794032
Rating AC21-400V A	32
AC22-400V A	32
AC23-400V A	32
BS88 fuse size	A1

SF series



3 pole	SF893032	SF893063	SF893100	SF893160	SF893200	SF893250	SF893315	SF893400	SF893630	SF893800
4 pole	SF894032	SF894063	SF894100	SF894160	SF894200	SF894250	SF894315	SF894400	SF894630	SF894800
Rating AC21-400V A	32	63	100	160	200	250	315	400	630	800
AC22-400V A	32	63	100	160	200	250	315	400	630	800
AC23-400V A	32	63	100	160	200	250	315	400	630	800
BS88 fuse size	A1	A2-A3	A4	A4	B1-B2	B1-B3	B1-B3	B1-B4	C1-C2	C1-C2

Isolators

69 series

- 3 and 4 pole
- On load 20Amps to 80Amps
- Door interlocked handles
- Red/Yellow and Black, 64 x 64mm, 45 x 45mm
- 3 Padlocking positions on 64 x 64mm version, 1padlock position on 48 x 48mm version
- IP65
- DIN or chassis mounted
- Light weight extension shafts 100 - 400mm
- Side mounted auxiliary contacts 1N/O + 1N/C
- Solid neutral
- Yellow plate - main switch

CM series



3 poles	CM793063	CM793080	CM793100	CM793125	CM793125X	CM793160	CM793200
4 poles	CM794063	CM794080	CM794100	CM794125	CM794125X	CM794160	CM794200
Rating AC21-400V A	63	80	100	125	125	160	200
AC22-400V A	63	80	100	125	125	160	200
AC23-400V A	63	63	63	63	125	160	200

MS series

3 poles	MS793125	MS793160	MS793200	MS793250	MS793315	MS793400	MS793630
4 poles	MS794125	MS794160	MS794200	MS794250	MS794315	MS794400	MS794630
Rating AC21-400V A	125	160	200	250	315	400	630
AC22-400V A	125	160	200	250	315	400	630
AC23-400V A	125	160	200	250	315	400	630

69 enclosed series

- 3 and 4 pole
- On load 20Amps to 80Amps
- Interlocked enclosure lid
- Red/Yellow enclosure
- 3 Padlocking positions
- IP65 enclosure
- Side mounted auxiliary contacts 1N/O + 1N/C

69 series



3 poles	LB69-3020	LB69-3025	LB69-3032	LB69-3040	LB69-3063	LB69-3080
4 poles	LB69-4020	LB69-4025	LB69-4032	LB69-4040	LB69-4063	LB69-4080
Rating AC21-400V A	20	25	32	40	63	80
kW-400V A	5,5	7,5	11	15	18,5	22

69 enclosed series

3 poles	PE69-3020	PE69-3025	PE69-3032	PE69-3040	PE69-3063	PE69-3080
4 poles	PE69-4020	PE69-4025	PE69-4032	PE69-4040	PE69-4063	PE69-4080
Rating AC21-400V A	20	25	32	40	63	80
kW-400V A	5,5	7,5	11	15	18,5	22



Contactors 4-400kW

compact contactors from IMO

Features include:





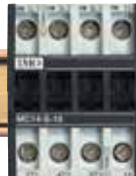

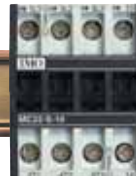
- IEC/EN 60947-4-1
- Din-rail mounting right up to 74A AC3
- Compact - only 45mm wide up to 40A AC3
- Large terminations:
6mm² MC10 - MC22
25mm² MC24 - MC40
50mm² MC50 - MC74

13

actual size



Designed for greater flexibility at both design and production stage, this versatile range has been engineered to meet the evolving needs of interface with electronic circuits.

						
MR07-S-40	MB09-S-10	MB12-S-10	MC10-S-10	MC14-S-10	MC18-S-10	MC22-S-10
4 pole relay	Mini contactor 3 pole + aux	Mini contactor 3 pole + aux	3 pole + aux	3 pole + aux.	3 pole + aux.	3 pole + aux.
Main contacts 16A, AC1 380/400V	Main contacts 20A, AC1 380/400V, 9A 4kW AC3	Main contacts 20A, AC1 380/400V, 12A 5.5kW AC3	Main contacts 25A, AC1 380/400V, 10A 4kW AC3	Main contacts 25A, AC1 380/400V, 14A 5.5kW AC3	Main contacts 32A, AC1 380/400V, 18A 7.5kW AC3	Main contacts 32A, AC1 380/400V, 22A 11kW AC3

For full product range:



See enclosed CD



Visit www.imopc.com



Call +44 (0)20 8452 6444



- Increased operational currents AC1 + AC3
- Resistant to very high ambient temperatures (90°C) and humidity
- Made from halogen and CFC-free plastics
- Single auxiliary contacts colour coded for easy identification
- 4 main pole versions available
- Capacitor switching versions
- AC and DC coil versions

Standard coil voltages

24VAC 50/60Hz
 110VAC 55/60Hz
 220-240VAC 50Hz
 380-415VAC 50Hz
 24VDC



MC24-S-00	MC32-S-00	MC40-S-00
3 pole	3 pole	3 pole
Main contacts 50A, AC1 380/400V, 24A 11kW AC3	Main contacts 65A, AC1 380/400V, 32A 15kW AC3	Main contacts 80A, AC1 380/400V, 40A 18.5kW AC3

MC50-S-00	MC62-S-00	MC74-S-00
3 pole	3 pole	3 pole
Main contacts 115A, AC1 380/400V, 50A 22kW AC3	Main contacts 130A, AC1 380/400V, 62A 30kW AC3	Main contacts 140A, AC1 380/400V, 74A 37kW AC3



Overloads and accessories



Thermal overload relays

Model	Description	Current ranges	Associated contactors
MCOR - 1	Separate trip/alarm contact hand reset	0,18A to 32A	MC10 to MC32
MCOR - 2	Auto/hand reset	10A to 42A	MC24 to MC40
MCOR - 3	Auto/hand reset	20A to 74A	MC50 to MC74
MCOR - 4	Hand Reset	60A to 120A	MC90 to MC115
MCOR - 5	Hand Reset	120A to 180A	MC151 to MC176
MCOR - 6	Hand Reset	144A to 320A	MC210 to MC316
MCOR - 7	Hand Reset	260A to 800A	MC450 to MC860
MCOR - 8	Hand Reset	700A to 1250A	MC1000 to MC1200



15

Contact blocks, timers and interlocks

Model and description	Contact configuration	Associated contactors
MCA auxiliary contact blocks: Single top mount	N/O ou N/C	MC10 to MC74
MCT timers: electronic and pneumatic	Time ranges: 0.3 sec to 600 sec	Electronic MC10, MC74 Pneumatic MC10 to MC22
MC-I mechanical interlock		MC10 to MC1200



Modular heating / lighting contactors



Model	Rated current		Standard coil voltages	Contact configurations
	AC1 400V	Heating power AC1 230V		
HC20	20A	4,6kW	24VAC, 230VAC	1 N/O + 1 N/C or 2 N/O
HC25	25A	5,7kW	24VAC, 230VAC	4 N/O or 3 N/O + 1 N/C
HC40	40A	9kW	24VAC, 230VAC	4 N/O or 3 N/O + 1 N/C
HC63	63A	14,3kW	24VAC, 230VAC	4 N/O or 3 N/O + 1 N/C



iStart

enclosed starters



Starters with metal enclosures

- Push button stop/start
- IP55 metal enclosure
- Prewired to accept overload
- Available with optional 3 phase isolator

Options and ordering codes

	DOLI	4	230
DOL starter with isolator	DOLI		
Star delta starter	SDS		
Star delta starter with isolator	SDSI		
4 kW 9 Amps AC3 nominal (DOLI only)		4	
7.5 kW 16 Amps AC3 nominal		7.5	
15 kW 30 Amps AC3 nominal (SDS, SDSI only)		15	
220-240V 50 Hz supply voltage			230
380-415V 50 Hz supply voltage			400

Starters with plastic enclosures

- Push button stop/start
- IP55 metal enclosure
- Prewired to accept overload

Options and ordering codes

	P1	M	T	09	230
DOL Starter	P1	M			
M20 x 1.5					
Push button stop/start			T		
Push button reset			R		
Hand-, Stop-, Auto, Reset			W		
7.5 kW, 9Amps AC3 nominal				09	
7.5 kW, 16Amps AC3 nominal				16	
220-240V 50Hz supply voltage					230
380-415V 50Hz supply voltage					400

Specifications

	DOLI 4	DOLI 7.5	SDS 7.5	SDS 15	SDSI 7.5	SDSI 15	P1M_09	P1M_16
Contactor	MC10-S-10	MC18-S-10					K2-09A10	K2-16A10
Star delta			MC-Y 7,5	MC-Y 15	MC-Y 7,5	MC-Y 15		
Overload	U12/16E	U12/16E	U12/16E	U12/16E	U12/16E	U12/16E	U12/16E	U12/16E
Maximum temperature	40°C	40°C	40°C	40°C	40°C	40°C	40°C	40°C
AC 3 nominal : Amps	10	18	18	30	16	30	9	16
kW	4	7,5	7,5	15	7,5	15	4	7,5
HP	6	11	11	20	11	20	6	11
IP nominal	IP55	IP55	IP55	IP55	IP55	IP55	IP65	IP65



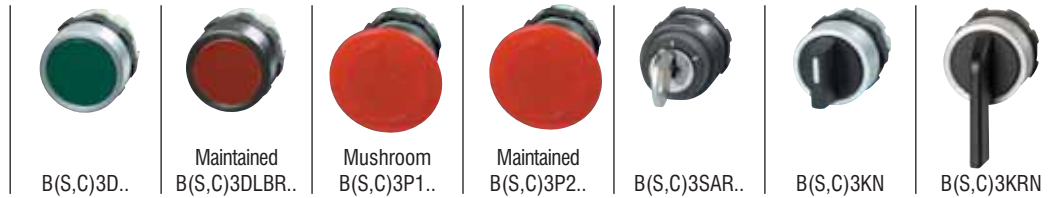
Push buttons 22.5mm



a sample of our push buttons, indicators and actuators

- IP65 protection
- Opaque or illuminated
- Black or chrome bezels
- Snap-on contact blocks
- Colour coded contacts
- Pushbutton stations
- International approvals including UL

Push Buttons



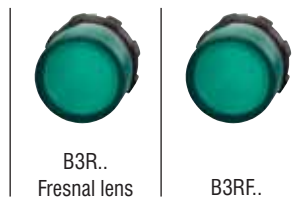
Emergency Stop Buttons



Illuminated Push Buttons



Transparent Lens Caps



Accessories



Double push buttons 22.5mm



Pilot lights 22.5mm



LMB Series LED Pilot Lights

- Multi chip LED integrated onto light surface
- IP65
- Single hole fixing 22.5mm
- Bright and colour intensive light distribution
- Temp range -25 to +55°C
- cURus, CE approval



Cam switches

with 22.5mm central fixing



- Range of rotary cam switches with a choice of 4 operators
- Key operators permit key removal in all latched positions
- Finger proof screw terminals to IP20 protection
- UL approved
- Designed to IEC 60947-3
- Single hole, front panel mounting
- Switch body supplied with legend plate for use with square escutcheon frame actuator



Options

Handle operation RB2 round bezel



Key operation RBK2 round bezel



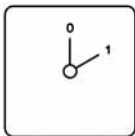
Handle operation SP2 square escutcheon



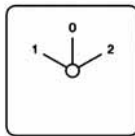
Key operation SPK2 square escutcheon



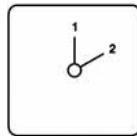
On / Off



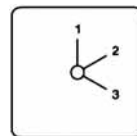
2 position
with off



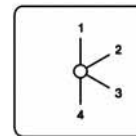
2 position
without off



3 position
without off

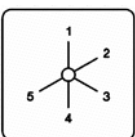


4 position
without off

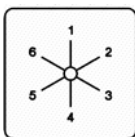


Description	N. Ref	Description	N. Ref	Description	N. Ref	Description	N. Ref	Description	N. Ref
1 Pole	CS20A-A1	1 Pole	CS20A-U1	1 Pole	CS20A-W1	1 Pole	CS20A-ST31	1 Pole	CS20A-ST41
2 Poles	CS20A-A2	2 Poles	CS20A-U2	2 Poles	CS20A-W2	2 Poles	CS20A-ST32	2 Poles	CS20A-ST42
3 Poles	CS20A-A3	3 Poles	CS20A-U3	3 Poles	CS20A-W3	3 Poles	CS20A-ST33	3 Poles	CS20A-ST43
4 Poles	CS20A-A4	4 Poles	CS20A-U4	4 Poles	CS20A-W4	4 Poles	CS20A-ST34	4 Poles	CS20A-ST44
6 Poles	CS20A-A6	6 Poles	CS20A-U6	6 Poles	CS20A-W6	6 Poles	CS20A-ST36		
8 Poles	CS20A-A8	8 Poles	CS20A-U8	8 Poles	CS20A-W8				

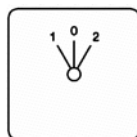
5 position
without off



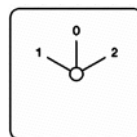
6 position
without off



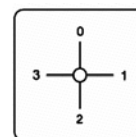
2 position with
spring return to off



3 phase motor
reversing switch



3 current
transformers



Description	N. Ref	Description	N. Ref	Description	N. Ref	Description	N. Ref	Description	N. Ref
1 Pole	CS20A-ST51	1 Pole	CS20A-ST61	1 Pole	CS20A-UR1	5.5kW @ 380/440		1 Pole	CS20A-M31
2 Poles	CS20A-ST52	2 Poles	CS20A-ST62	2 Poles	CS20A-UR2	440CS20A-WU3			
3 Poles	CS20A-ST53	3 Poles	CS20A-ST63	3 Poles	CS20A-UR3				



Motor circuit breakers C4



- Motor protection rating up to 100 Amps
- Short circuit breaking capacity up to 100kA
- Phase failure protection
- DIN rail mounting
- Wide range of accessories



Options and ordering codes

C4/32T						C4/32R					
Setting range	Short circuit release	Part reference	Ultimate short circuit breaking/ service capacity < 400V AC max fuse A			Setting range	Short circuit release	Part reference	Ultimate short circuit breaking/ service capacity < 400V AC max fuse A		
			Icu - kA	Ics - kA	gL/gG				Icu - kA	Ics - kA	gL/gG
A	A					A	A				
0.10 - 0.16	2.1	C4/32T-0.16	100	100	--	0.10 - 0.16	2.1	C4/32R-0.16	100	100	--
0.16 - 0.25	3.3	C4/32T-0.25	100	100	--	0.16 - 0.25	3.3	C4/32R-0.25	100	100	--
0.25 - 0.4	5.2	C4/32T-0.4	100	100	--	0.25 - 0.4	5.2	C4/32R-0.4	100	100	--
0.4 - 0.63	8.2	C4/32T-0.63	100	100	--	0.4 - 0.63	8.2	C4/32R-0.63	100	100	--
0.63 - 1	13	C4/32T-1	100	100	--	0.63 - 1	13	C4/32R-1	100	100	--
1.0 - 1.6	20.8	C4/32T-1.6	100	100	--	1.0 - 1.6	20.8	C4/32R-1.6	100	100	--
1.6 - 2.5	32.5	C4/32T-2.5	100	100	--	1.6 - 2.5	32.5	C4/32R-2.5	100	100	--
2.5 - 4	52	C4/32T-4	100	100	--	2.5 - 4	52	C4/32R-4	100	100	--
4 - 6	78	C4/32T-6	100	100	--	4 - 6	78	C4/32R-6	100	100	--
5 - 8	104	C4/32T-8	100	100	--	5 - 8	104	C4/32R-8	100	100	--
6 - 10	130	C4/32T-10	50	38	80 ¹	6 - 10	130	C4/32R-10	100	100	--
9 - 13	169	C4/32T-13	50	38	80 ¹	9 - 13	169	C4/32R-13	100	100	--
11 - 17	221	C4/32T-17	20	15	100 ¹	11 - 17	221	C4/32R-17	50	38	100 ¹
14 - 22	286	C4/32T-22	15	11	100 ¹	14 - 22	286	C4/32R-22	50	38	125 ¹
18 - 26	338	C4/32T-26	15	11	100 ¹	18 - 26	338	C4/32R-26	50	38	125 ¹
22 - 32	416	C4/32T-32	15	11	100 ¹	22 - 32	416	C4/32R-32	50	38	125 ¹

C4/63R						C4/100R					
Setting range	Short circuit release	Part reference	Ultimate short circuit breaking/ service capacity < 400V AC max fuse A			Setting range	Short circuit release	Part reference	Ultimate short circuit breaking/ service capacity < 400V AC max fuse A		
			Icu - kA	Ics - kA	gL/gG				Icu - kA	Ics - kA	gL/gG
A	A					A	A				
18 - 26	338	C4/63R-26	50	50	125 ¹	45 - 63	819	C4/100R-63	50	38	160 ¹
22 - 32	416	C4/63R-32	50	50	125 ¹	55 - 75	975	C4/100R-75	50	38	160 ¹
28 - 40	520	C4/63R-40	50	50	160 ¹	70 - 90	1170	C4/100R-90	50	38	160 ¹
34 - 50	650	C4/63R-50	50	50	160 ¹	80 - 100	1300	C4/100R-100	50	38	160 ¹
45 - 63	819	C4/63R-63	50	50	160 ¹						

-- No back-up fuse required

¹ Back up fuse required if short circuit current at installation point > 50kA



Miniature circuit breakers C10

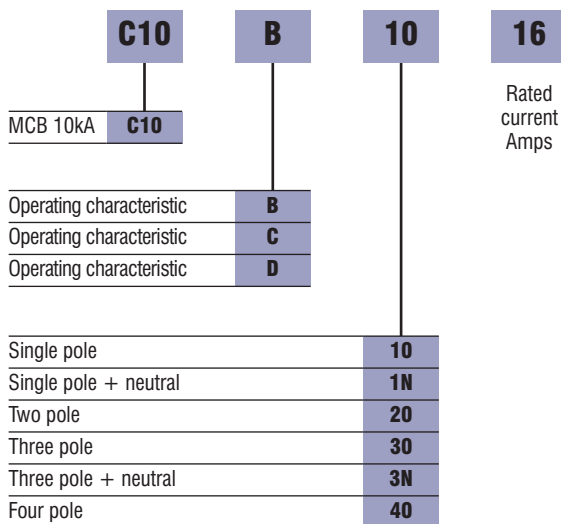


The IMO range of miniature circuit breakers has been designed for protection of electrical installations against overload and short circuits and is manufactured in accordance with EN60898.

Tripping characteristics in accordance with B, C and D type curves.

- Curve B: 3-5 I_n
- Curve C: 5-10 I_n
- Curve D: 10-20 I_n

Options and ordering codes



Selection chart

Available types: 10kA 6kA

Type	B operating characteristics					C operating characteristics					D operating characteristics							
	1	1+N	2	3	3+N	4	1	1+N	2	3	3+N	4	1	1+N	2	3	3+N	4
Poles																		
Rated current (Amps)	0.5																	
	1																	
	1.6																	
	2																	
	4																	
	6																	
	8																	
	10																	
	13																	
	16																	
	20																	
	25																	
	32																	
	40																	
	50																	
	63																	
Weight (g)	112	227	227	345	459	459	112	227	227	345	459	459	112	227	227	345	459	459
Packing (pc)	12	6	6	4	3	3	12	6	6	4	3	3	12	6	6	4	3	3

Specifications

Rated voltage: 230V/400V AC, Max. 60VDC
Frequency: 50/60Hz
In accordance with: EN60898, EN60947-2,
Terminal capacity: 1 to 25mm ²
Breaking capacity as per IEC60898: 10kA, 6kA: 50, 63A
Breaking capacity applying IEC60947-2: up to 15kA
Mounting: on Rail EN60715 (EN50022)



DIN rail power supplies



IMO DPS series

- High efficiency
- Short circuit protection
- Internal input filtering
- PFC function available*
- Parallel function available†
- UL Class 2 types up to 60W

21

* 120W, 240W & 480W versions

† 120W, 240W & 480W versions



actual size

Model	DPS-1-005	DPS-1-010-24	DPS-1-018-24	DPS-1-030-24	DPS-1-060-24	DPS-1-120-24	DPS-1-240-24	DPS-1-480-24
Input Voltage	90-265VAC	90-265VAC	90-265VAC	85-265VAC	85-265VAC	115/230VAC	115/230VAC	90-264VAC
Output Wattage	5W	10W	18W	30W	60W	120W	240W	480W
Output Current	0.2A	0.4A	0.75A	1.25A	2.5A	5A	10A	20A
HxWxD (mm)	90 x 22.5 x 115	90 x 22.5 x 115	90 x 22.5 x 115	90 x 40.5 x 115	90 x 40.5 x 115	123.6x63.2x116.6	125 x 83 x 116	125 x 175 x 116

For full product range:



See enclosed CD



Visit www.imopc.com



Call +44 (0)20 8452 6444

Unibox enclosures ALPHA



- Manufactured in ABS
- Plain sided walls
- Colour RAL 7035 – Light grey
- Circuit board slots in base
- IP66-67
- Pre-drilled lid for wire sealing
- Plastic screws captive once fitted
- Pre-moulded fixing points in base
- Ideal for housing electronic and electro-mechanical components
- Ideally suited for housing terminal blocks and industrial equipment
- Polycarbonate versions (144EP range) available with UL and cUL

Enclosure

Enclosure Part No.	Dimensions H x W x D (mm)	Backplate Part No.	DIN Rail Part No.
144E0001	75 x 125 x 75	144B0001	144R0001
144E0002	125 x 125 x 75	144B0002	144R0002
144E0003	125 x 125 x 100	144B0002	144R0002
144E0004	125 x 175 x 75	144B0004	144R0004
144E0005	125 x 175 x 100	144B0004	144R0004
144E0006	125 x 175 x 125	144B0004	144R0004
144E0007	175 x 175 x 100	144B0007	144R0004
144E0008	175 x 175 x 125	144B0007	144R0004
144E0009	175 x 175 x 150	144B0007	144R0004
144E0010	175 x 250 x 100	144B0010	144R0010
144E0011	175 x 250 x 150	144B0010	144R0010

Accessories

Item	Ref. No.
Hinge, pair	144A0001
Fastening lug, 4 off	144A0002
Inspection window 2 mod.	144A0003
Inspection window 4 mod.	144A0004
Inspection window 6 mod.	144A0005
Inspection window 8 mod.	144A0006
Inspection window 10 mod.	144A0007
Inspection window 12 mod.	144A0008
Vent device IP34	144A0009
Vent device IP44	144A0010



Timers

impeccable timing from IMO

23

- 48 DIN panel mount/plug in range
- 22.5mm DIN rail mount range
- On delay
- Off/true off delay
- Recycling
- Star delta
- Multifunction
- 12-240VAC/DC options

DIN rail timers



TDEA



TDRA

Description	DIN Timer 22.5mm On-delay	DIN Timer 22.5mm Off-delay
ranges	0.05 secs - 10 days	0.05 secs - 10 days
Supply voltage	24VAC/DC + 110VAC or 48VAC/DC + 230VAC	24VAC/DC + 110VAC or 24VAC/DC + 230VAC
Control output	5A @ 250VAC	5A @ 250VAC

Panel / plug-in timers



TY4



TA8-A

Description	On-delay Timer Plug-in	On-delay Timer 48 DIN panel mounting / plug-in
Display	Analogue setpoint, Power on LED, Time up LED	Analogue setpoint, Power on/timing LED, Time up LED
Ranges	0.1 to 6 hours, single time range	0.05 sec to 60 hours, over 16 time ranges, selectable
Supply voltage	12VDC 24VAC/DC 110VAC 240VAC/50/60Hz	24VAC/DC 110-240VAC 50/60Hz 48-127VDC
Control output	4PCO timed 3A 240VAC	DPCO timed 5A 250VAC





TDIA



TDAA(B)



TDSD



TDMA/C

DIN Timer 22.5mm Asymmetrical recycling	DIN Timer 22.5mm True off-delay	DIN Timer 22.5mm Star/Delta change over	DIN Timer 22.5mm Multifunction
0.05 secs - 10 days	A=0.1 sec - 3 min B=0.1 sec - 10 min	Y = 0.1 sec - 3 min YΔ = 40 sec - 100 sec	0.05 secs - 10 days
24VAC/DC + 110-230VAC	24VAC/DC + 110-230VAC	24VAC/DC + 110-230VAC	24VAC/DC + 110-230VAC
5A @ 250VAC	5A @ 250VAC	8A @ 250VAC	8A @ 250VAC



TA8-SA



TA8-DA



TA8-TA



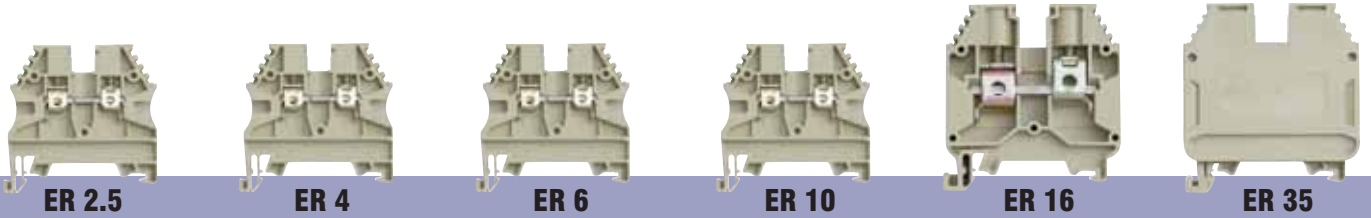
TA11-A

On-delay Timer 48 DIN panel mounting / plug-in	Off-delay Timer 48 DIN panel mounting / plug-in	Independent twin Timer 48 DIN panel mounting / plug-in	Multifunction Timer: 4 selectable timing modes 48 DIN panel mounting / plug-in
Analogue setpoint, Power on/timing LED, Time up LED	Analogue setpoint, Power on LED	Analogue setpoints, Power on/timing LED, Output on LED	Analogue setpoints, Power on/timing LED, Output on LED
0.05 sec to 60 hours, over 16 time ranges, selectable	0.05 sec to 12 min, over 4 time ranges, selectable	0.05 sec to 60 hours, over 16 time ranges, selectable	0.05 sec to 60 hours, over 16 time ranges, selectable
24VAC/DC 100-240VAC 50/60Hz 48-127VDC	24VAC/DC 100-240VAC 50/60Hz 48-127VDC	24VAC/DC 100-240VAC 50/60Hz	24VAC/DC 100-240VAC 50/60Hz 48-127VAC
SPCO timed SPCO instantaneous 5A 250VAC	DPCO timed 5A 250VAC	DPCO timed 5A 250VAC	DPCO timed 5A 250VAC



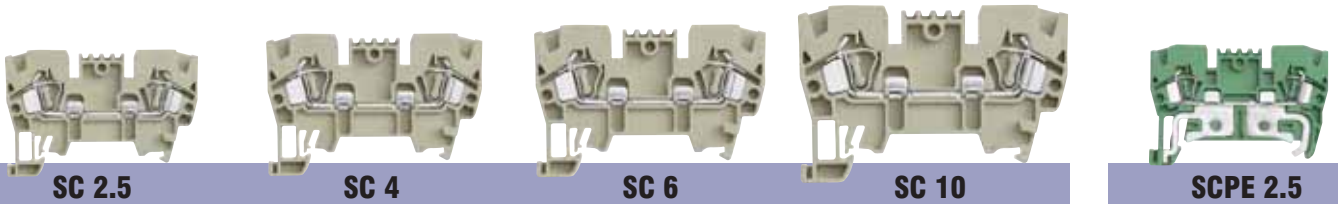
DIN rail terminals

available in screw and screwless options

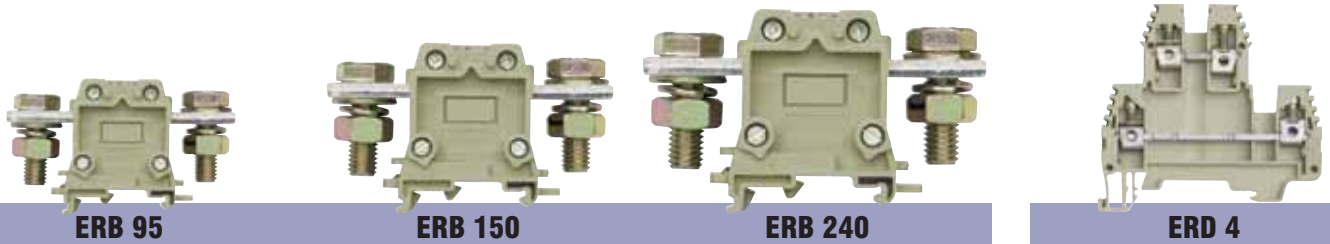


DIN Rail Terminals (2.5mm - 70mm)

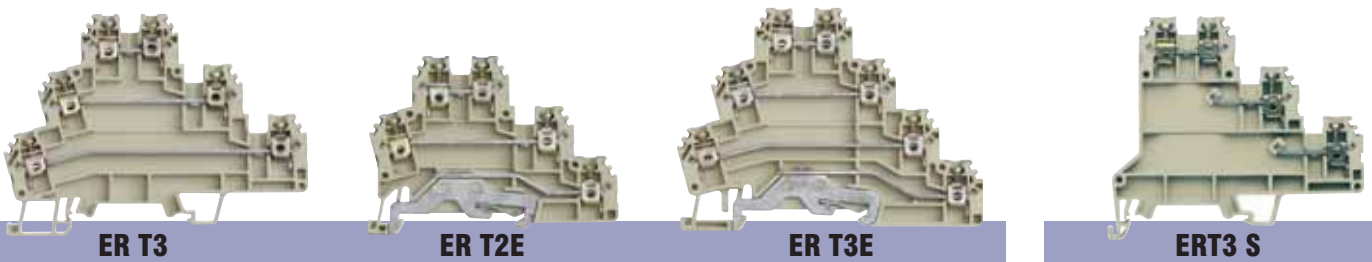
25



Spring Clamp Terminals (2.5mm - 10mm)



Busbar Terminals (95mm - 240mm)



Spring Clamp Terminals for Initiators, Actuators and Motors (2.5mm)



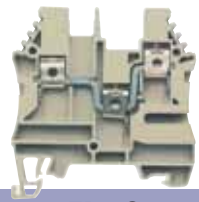
Disconnect Terminals (4mm)



- 2.5mm to 240mm
- Polyamide 6.6 material
- -40°C to +100°C
- 8 colour options

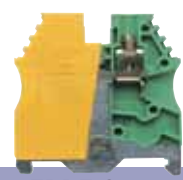


ER70

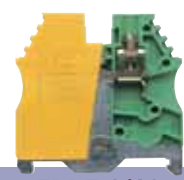


ER 4C

(4mm)



ERPE 2.5.4

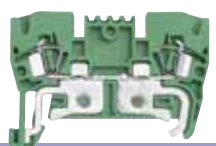


ERPE 6/10

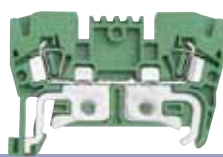


ERPE 16/35

Earth Terminals (2.5mm - 35mm)



SCPE 4



SCPE 6



SCPE 10

Earth Terminals (2.5mm - 10mm)

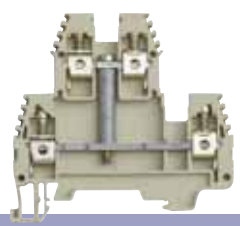


ERWT1

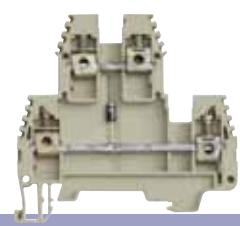


ERWT2

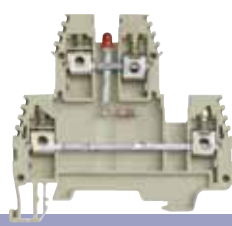
Test and Disconnect Terminals (6mm - 10mm)



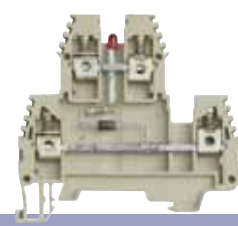
ERD 4V



ERD 4D



ERD 4LD



ERD 4LD

Double Level Rail Terminals (4mm)

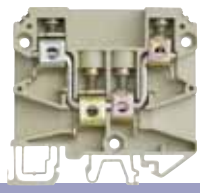


ERT3 SLD



ERT3 SLD

Three Level Sensor Terminals (2.5mm)



ERDT 10/16



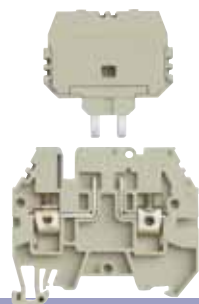
ERDT 10/16

2, 3, 4, 5mm
(with end plate)

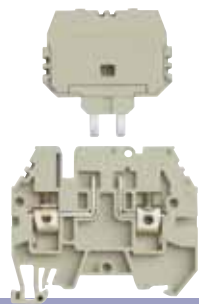
Distribution Terminals (16mm)



ERF2 LD



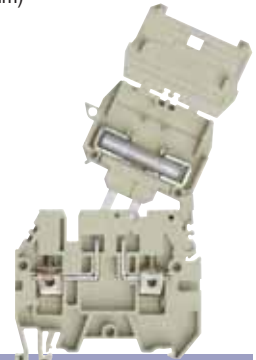
ERF3



ERF3 FLD



ERF3M



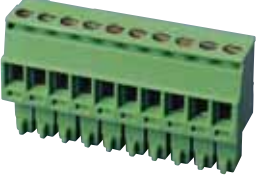
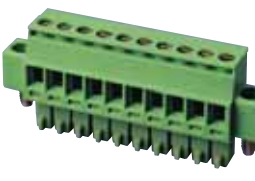
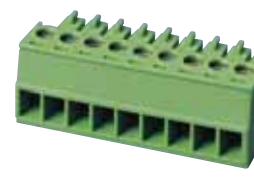
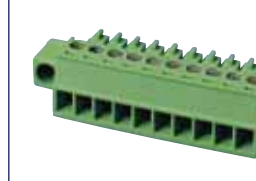
ERF3 MLD

Fuse Terminals (4mm - 6mm)







A small selection from Europe's largest range of PCB terminal blocks

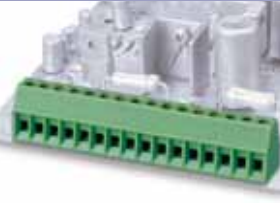



3.50mm & 3.81mm Plug and Socket connectors





20(21).1500M	20(21).1500MF	20(21).1550M	20(21).1550MF
			
3.50mm (3.81mm) plug	3.50mm (3.81mm) plug	3.50mm (3.81mm) plug	3.50mm (3.81mm) plug

5.00mm & 5.08mm Plug and Socket connectors

20(21).910M	20(21).910MF	20(21).950M	20(21).950MF
			
5.00mm (5.08mm) plug	5.00mm (5.08mm) plug	5.00mm (5.08mm) plug	5.00mm (5.08mm) plug

Rising Clamp Terminal Blocks

21.551M	20.553M	21.558M	21.553M
			
3.81mm low profile	3.50mm double low profile	3.81mm low profile	3.81mm double low profile

21.750M	20(21).753M	20.720M	20.2250MH
			
5.08mm standard double	5.00mm (5.08mm) standard triple	7.50mm standard	5.00mm block



- RoHS compliant
- UR and CUR
- Extensive range for all applications
- Screw and screwless versions
- High temperature versions
- Spring and rising clamp versions
- Multiple configurations







<p>20(21).155MH</p>  <p>3.50mm (3.81mm) socket</p>	<p>20(21).156MH</p>  <p>3.50mm (3.81mm) double</p>	<p>20(21).155MV</p>  <p>3.50mm (3.81mm) socket</p>	<p>20(21).156MV</p>  <p>3.50mm (3.81mm) double</p>		
<p>20.952M</p>  <p>5.00mm PCB plug</p>	<p>20(21).95MH</p>  <p>5.00mm (5.08mm) socket</p>	<p>20(21).970M</p>  <p>5.00mm (5.08mm) double</p>	<p>20(21).970MF</p>  <p>5.00mm (5.08mm) double</p>	<p>20.130M</p>  <p>5.00mm block</p>	
<p>20(21).350M</p>  <p>5.00mm (5.08mm) low profile</p>	<p>20(21).355M</p>  <p>5.00mm (5.08mm) low profile</p>	<p>20(21).352M</p>  <p>5.00mm (5.08mm) double</p>	<p>20(21).700M</p>  <p>5.00mm (5.08mm) standard</p>	<p>21.705M</p>  <p>5.08mm standard</p>	
<p>20.2275MH</p>  <p>7.50mm block</p>	<i>continued overleaf...</i>				




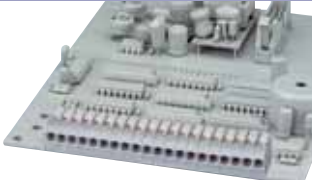



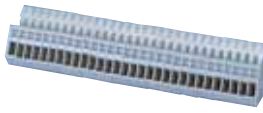


A small selection from Europe's largest range of PCB terminal blocks *continued...*

Standard Terminal Blocks


20.550M	21.551M	20.501M	20.505M
			
3.50mm low profile	2.54mm low profile	5.00mm low profile	5.00mm low profile

Screwless Terminal Blocks

21.4200M	21.4102M	21.4300M	21.4103M
			
5.08mm low profile	3.81mm low profile	3.96mm low profile	3.96mm low profile

21.5100M	20(21).3003M	20(21).3000M	20(21).3001M
			
2.54mm vertical	2.50mm (2.54mm) standard	5.00mm (5.08mm) standard	5.00mm (5.08mm) standard

High Temperature Sockets

20(21).155MH-HT	20(21).155MHF-HT	20(21).155MV-HT	20(21).155MVF-HT
			
3.50mm (3.81mm) horizontal	3.50mm (3.81mm) horizontal	3.50mm (3.81mm) vertical	3.50mm (3.81mm) vertical





20.600M	20.101M	20.105M	20.200M	
----------------	----------------	----------------	----------------	--



10.00mm low profile



5.00mm standard



5.00mm standard

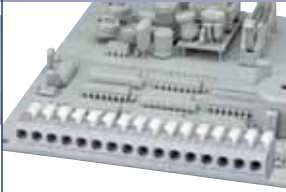


10.00mm standard

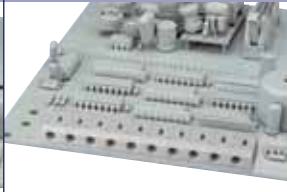
20.4100M	20.4101M	20.4400M	20.4104M	21.5200M
-----------------	-----------------	-----------------	-----------------	-----------------



5.00mm low profile



5.00mm low profile



7.50mm low profile



7.50mm low profile



2.54mm horizontal

20(21).3010M	20(21).3011M	20(21).3020M	20(21).3021M	20(21).6002M
---------------------	---------------------	---------------------	---------------------	---------------------



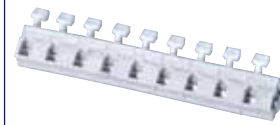
7.50mm (7.62mm) standard



7.50mm (7.62mm) standard



10.00mm (10.16mm) standard



10.00mm (10.16mm) standard



5.00mm (5.08mm) double

20(21).95MH-HT	20(21).95MHF-HT	20(21).95MV-HT	20(21).95MVF-HT
-----------------------	------------------------	-----------------------	------------------------



5.00mm (5.08mm) horizontal



5.00mm (5.08mm) horizontal



5.00mm (5.08mm) vertical








5.00mm (5.08mm) vertical








Industrial power relays



31

	ETS	SRRHN/SRP	SRRHN/SRP-AC	HY1/2	HY41
					
Contact Form	1A, 1C	1A, 1B, 1C 2A, 2B, 2C	1A, 1B, 1C 2A, 2B, 2C	1A, 2A	2C, 3C, 4C
Max. Rated Carrying Current	6A	16A	16A	30A	7A
Max. Switching Voltage	400VAC/125VDC	440VAC/125VDC	440VAC	277VAC/28VDC	250VAC/30VDC
Rated Voltage	5 to 60VDC	5 to 110VDC	24, 115, 230VAC	6 to 220VAC/3 to 200VDC	6 to 240VAC/5 to 110VDC
Nominal Operating Power	170mW, 210mW (48-60VDC)	0.4W	0.75VA	2.7VA, 1.9W	1.2VA, 0.9W
Dielectric Strength (1min) between Coil and Contacts	4000VAC	5000VAC	5000VAC	4000VAC	1500VAC
Dimensions	28.0 x 16.0 x 5.0	29.0 x 12.7 x 15.7	29.0 x 12.7 x 15.7	50.5 x 33.5 x 36.0	28.0 x 21.5 x 35.0






	EY	QY	RS	731	72
					
Contact Form	1A, 2A	1C, 2C	2C, 3C	1C	2C, 3C
Max. Rated Carrying Current	30A	15A	10A	30A	25A
Max. Switching Voltage	277VAC/28VDC	250VAC/30VDC	250VAC/125VDC	250VAC	250VAC
Rated Voltage	6 to 220VAC/5 to 200VDC	6 to 240VAC/5 to 110VDC	12 to 230VAC/12 to 24VDC	12 to 240VAC/12 to 110VDC	12 to 240VAC/12 to 110VDC
Nominal Operating Power	2.7VA, 1.9W	1.2VA, 0.9W	2.8VA AC, 1.5W DC	3.4VA, 1.5W	2.0VA, 1.2W
Dielectric Strength (1min) between Coil and Contacts	4000VAC	1500VAC	2500VAC	2200VAC	1600VAC
Dimensions	50.5 x 33.5 x 36.0	28.0 x 21.5 x 35.0	Refer to data	69.85 x 34.8 x 38.0	69.85 x 34.8 x 38.0







Relay sockets








DIN rail/screw mountable industrial relay sockets

	SRR8	SRR11	SRN2-S	SRN4-S	SRN4C
					
Number of poles	8	11	8	14	14
Options	Marker label Plug in modules	Marker label Plug in modules	Marker label Plug in modules Relay clip	Marker label Plug in modules Relay clip	Marker label Plug in modules
Rated load (resistive)	10A/400V	10A/400V	10A/400V	10A/400V	10A/400V
For relay type...	RS Series, DPCO	RS Series, DPCO	HY2 Series	HY4 Series	HY4 Series

32

	SRN2-D SRN4-D	SRN3-S SRN5-S	SRH2-C	SRSI
				
Number of poles	8/14	5/8	8	
Options	Marker label Plug in modules Relay clip	Marker label Plug in modules Relay clip	Relay clip	Cross connector
Rated load (resistive)	12A/300V	12A/300V	10A/400V	6A/250V
For relay type...	HY4 Series	ER/SRRH Series	QY Series	ETS Series

Solder and printed circuit sockets for PCB relays

	SRC-4	SRP4-0	SRS1	SRS2	SRP2-0
					
Terminal type	Solder	PCB	PCB	PCB	PCB
Number of poles	14	14	5	8	8
Rated load	10A/400V	10A/400V	10A/400V	10A/400V	10A/400V

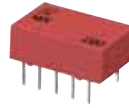

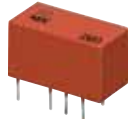
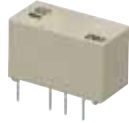








PCB relays




telecom



33

	NEC EA2	NEC EB2	NEC EC2	NEC ED2	NEC EE2
					
Contact Form	2C	2C	2C	2C	2C
Max. Rated Carrying Current	2A	2A	2A	2A	2A
Max. Switching Voltage	220VDC/250VAC	220VDC/250VAC	220VDC/250VAC	220VDC/250VAC	220VDC/250VAC
Rated Voltage	3 to 24VDC	3 to 24VDC	3 to 24VDC	3 to 24VDC	3 to 24VDC
Nominal Operating Power	100-200mW	100-200mW	100-140mW	50-80mW	100-200mW
Dielectric Strength (1min) between Coil and Contacts	1000VAC	1000VAC	1500VAC	1500VAC	1500VAC
Dimensions	14.2 x 9.2 x 5.4	14.3 x 9.3 x 7.5	15.0 x 7.5 x 9.4	15.0 x 7.5 x 9.4	15.0 x 7.5 x 10.0

	NEC EF2	NEC UA2	NEC UB2	NECUC2	NEC UD2
					
Contact Form	2C	2C	2C	2C	2C
Max. Rated Carrying Current	2A	1A	1A	1A	1A
Max. Switching Voltage	220VDC/250VAC	220VDC/250VAC	220VDC/250VAC	220VDC/250VAC	220VDC/250VAC
Rated Voltage	3 to 24VDC	1.5 to 24VDC	1.5 to 24VDC	1.5 to 24VDC	1.5 to 24VDC
Nominal Operating Power	50-80mW	100-230mW	100-230mW	100-230mW	100-230mW
Dielectric Strength (1min) between Coil and Contacts	1500VAC	1500VAC	1500VAC	1500VAC	1500VAC
Dimensions	15.0 x 7.5 x 10.0	10.6 x 5.7 x 8.0	15.0 x 7.5 x 9.4	10.6 x 6.5 x 5.3	10.6 x 6.5 x 5.45






	EV1N	EM2	EN2
			
Contact Form	1C	2C	2C
Max. Rated Carrying Current	1A	2A	2A
Max. Switching Voltage	125VAC/60VDC	240VAC/120VDC	250VAC/220VDC
Rated Voltage	1.5 to 24VDC	3 to 48VDC	3 to 48VDC
Nominal Operating Power	0.15W, 0.2W	0.15-0.58W	75-200mW
Dielectric Strength (1min) between Coil and Contacts	1000VAC	1500VAC	1500VAC
Dimensions	12.5 x 7.5 x 10.0	20.2 x 10.0 x 11.5	20.2 x 10.2 x 10.6













PCB relays

power



	SRF	ERL	ETC	SRM	ERN
					
Contact Form	1C	1A, 1C	1A, 2A, 1A + 1B	1A, 1C	1A, 1C
Max. Rated Carrying Current	2A	10A	10A	10A	12A
Max. Switching Voltage	300VAC/150VDC	250VAC	277VAC	277VAC/30VDC	250VAC/30VDC
Rated Voltage	3 to 24VDC	5 to 36VDC	3 to 24VDC	5 to 48VDC	3 to 48VDC
Nominal Operating Power	0.2W, 0.36W, 0.45W	0.36W	0.2W, 0.28W	0.36W (48VDC: 0.51W)	0.36W
Dielectric Strength (1min) between Coil and Contacts	1000VAC	3800VAC	4000VAC	1500VAC	2000VAC
Dimensions	15.7 x 11.0 x 12.0	15.0 x 15.0 x 20.0	20.0 x 15.0 x 10.2	19.0 x 15.5 x 15.5	22.5 x 16.5 x 16.5

	ERQ	SRQ	SRHH	SRT	SRC
					
Contact Form	1A, 1C	1A, 1C	1A, 1C	1A, 1C	1A
Max. Rated Carrying Current	10A	10A	15A	6A	12A
Max. Switching Voltage	250VAC/30VDC	277VAC/30VDC	250VAC/30VDC	300VAC/28VDC	277VAC
Rated Voltage	3 to 48VDC	3 to 48VDC	5 to 48VDC	1.5 to 48VDC	3 to 24VDC
Nominal Operating Power	0.36W (48VDC: 0.51W)	0.36W	0.36W (48VDC: 0.51W)	0.33W, 0.45W	0.45W
Dielectric Strength (1min) between Coil and Contacts	1500VAC	2000VAC	1500VAC	2000VAC	2500VAC
Dimensions	22.5 x 16.5 x 16.5	19.0 x 15.9 x 15.5	20.2 x 16.5 x 20.2	21.3 x 16.2 x 14.4	18.4 x 15.2 x 10.2

	SRCA	STN	SRD	SRDA	SRU
					
Contact Form	1A, 1C	1A	1A, 1C	1A, 1C	1A, 1C
Max. Rated Carrying Current	16A	3A	10A	5A	10A
Max. Switching Voltage	250VAC/30VDC	277VAC/30VDC	250VAC/30VDC	250VAC/30VDC	277VAC/30VDC
Rated Voltage	5 to 48VDC	4.5 to 24VDC	3 to 48VDC	3 to 48VDC	3 to 48VDC
Nominal Operating Power	0.2W, 0.4W	0.2W	10.2W, 0.45W	10.2W, 0.45W	10.2W, 0.45W
Dielectric Strength (1min) between Coil and Contacts	2500VAC	4000VAC	2500VAC	5000VAC	4000VAC
Dimensions	20.0 x 16.5 x 10.5	20.4 x 7.0 x 15.0	18.4 x 10.2 x 15.3	17.6 x 10.1 x 12.3	20.5 x 10.6 x 15.3










PCB relays






power



35

	SRB	ERT	ERB	ERE	ETN/ETP
					
Contact Form	1A, 1C	1A, 1C	2A	1A, 2X, 2A	1A
Max. Rated Carrying Current	5A	10A	5A	8A	5A
Max. Switching Voltage	150VAC/30VDC	250VAC/30VDC	250VAC/30VDC	380VAC/125VDC	250VAC/110VDC
Rated Voltage	3 to 48VDC	5 to 48VDC	5 to 48VDC	3 to 24VDC	5 to 24VDC
Nominal Operating Power	0.25W, 0.36W	0.25W, 0.53W	0.53W	Single side stable 300mW Single coil latching 150mW 2 coil latching 300mW	0.12 - 0.18W
Dielectric Strength (1min) between Coil and Contacts	2000VAC	4000VAC	4000VAC	3000VAC	2000VAC
Dimensions	20.5 x 10.5 x 20.5	23.8 x 9.5 x 24.5	24.0 x 12.0 x 24.8	20.2 x 11.0 x 10.0	20.0 x 5.0 x 12.5

	ETS	EJH	EJHP	SRRHN/SRP	SRRHN/SRP-AC
					
Contact Form	1A, 1C	1A, 1C	1A, 1B, 1C 2A, 2B, 2C	1A, 1B, 1C 2A, 2B, 2C	1A, 1B, 1C 2A, 2B, 2C
Max. Rated Carrying Current	6A	8A	10A	16A	16A
Max. Switching Voltage	400VAC/125VDC	440VAC/125VDC	440VAC/125VDC	440VAC/125VDC	440VAC
Rated Voltage	5 to 60VDC	5 to 60VDC	5 to 60VDC	5 to 110VDC	24, 115, 230VAC
Nominal Operating Power	170mW, 210mW (48-60VDC)	0.22W to 0.29W	0.22W to 0.36W	0.4W	0.75VA
Dielectric Strength (1min) between Coil and Contacts	4000VAC	5000VAC	5000VAC	5000VAC	5000VAC
Dimensions	28.0 x 16.0 x 5.0	28.5 x 10.1 x 12.3	28.5 x 10.1 x 12.5	29.0 x 12.7 x 15.7	29.0 x 12.7 x 15.7

	SRRNS	SRPT	SRRT/SRRTS	SRPF	ERRL
					
Contact Form	1A, 1B, 1C	1A	1A, 1C	1A, 1B	1A, 1B, 1C
Max. Rated Carrying Current	10A	16A	16A	20A	10A
Max. Switching Voltage	440VAC/125VDC	440VAC	440VAC/125VDC	440VAC/125VDC	250VAC/30VDC
Rated Voltage	5 to 60VDC	5 to 110VDC	5 to 60VDC	5 to 110VDC	5 to 48VDC
Nominal Operating Power	0.25W	0.4W	0.25W, 0.4W	0.4W	0.55W, 0.72W
Dielectric Strength (1min) between Coil and Contacts	5000VAC	5000VAC	5000VAC	5000VAC	5000VAC
Dimensions	29.0 x 12.7 x 15.7	29.0 x 12.7 x 15.7	29.0 x 12.7 x 15.7	45.0 x 12.7 x 15.7	29.0 x 12.6 x 20.6



PCB relays

power



	ERRL-1Pole	ERR-2Pole	ERP	ERK	ERS	JY
Contact Form	1A, 1C	2A, 2C	2A, 2C	1A	1A	1A, 1C
Max. Rated Carrying Current	10A	10A	16A	20A	16A	20A
Max. Switching Voltage	277VAC/30VDC	250VAC/30VDC	277VAC/30VDC	250VAC/30VDC	277VAC/30VDC	250VAC
Rated Voltage	3 to 60VDC	3 to 60VDC	5 to 60VDC	5 to 24VDC	5 to 48VDC	5 to 48VDC
Nominal Operating Power	0.55W	0.55W, 0.8W	0.55W, 0.72W	0.5W	0.54W	0.9W
Dielectric Strength (1min) between Coil and Contacts	5000VAC	5000VAC	4000VAC	5000VAC	5000VAC	3000VAC
Dimensions	29.0 x 13.0 x 25.5	29.0 x 13.0 x 25.5	29.0 x 13.0 x 26.3	22.8 x 12.3 x 24.4	29.0 x 12.6 x 24.2	32.0 x 31.0 x 19.0

	FY	SRG	ERD	ERG	ERH
Contact Form	2A, 2C	1A, 1B, 1C	1A, 1B, 1C	1A, 1B, 1C	1A, 1B, 1C
Max. Rated Carrying Current	30A	30A	30A	30A	30A
Max. Switching Voltage	24 to 277VAC/5 to 110VDC	277VAC/28VDC	277VAC/28VDC	277VAC/28VDC	277VAC/28VDC
Rated Voltage	5 to 48VDC	12 to 277VAC/5 to 110VDC	12 to 277VAC/5 to 110VDC	12 to 277VAC/5 to 110VDC	12 to 277VAC/5 to 110VDC
Nominal Operating Power	4.0VA, 1.7W	10.2W, 0.45W	12.0VA, 0.9W	2.0VA, 0.9W	2.0VA, 0.9W
Dielectric Strength (1min) between Coil and Contacts	4000VAC	4000VAC	2500VAC	2500VAC	4000VAC
Dimensions	52.1 x 33.7 x 26.7	32.2 x 27.0 x 20.4	32.4 x 27.5 x 27.8	50.2 x 27.5 x 27.8	32.4 x 27.5 x 27.8

	ERJ	ERV	ERU	ERW	SRW	ERY
Contact Form	1A, 1B, 1C	1A, 1B, 1C	1A, 1B, 1C	1A, 1B, 1C	1A	1A
Max. Rated Carrying Current	30A	30A	30A	30A	20A	25A
Max. Switching Voltage	277VAC/30VDC	277VAC/30VDC	277VAC/30VDC	277VAC/30VDC	250VAC	250VAC
Rated Voltage	5 to 110VDC	5 to 110VDC	5 to 110VDC	5 to 110VDC	5 to 48VDC	5 to 48VDC
Nominal Operating Power	0.9W	0.9W	0.9W	0.9W	0.9W	0.9W
Dielectric Strength (1min) between Coil and Contacts	2500VAC	2500VAC	2500VAC	2500VAC	4500VAC	2000VAC
Dimensions	32.2 x 27.5 x 28.0	30.5 x 24.6 x 15.7	31.8 x 26.9 x 19.1	32.2 x 27.5 x 19.8	30.5 x 16.0 x 23.5	31.0 x 18.5 x 29.0



PCB relays

automotive



37

	NEC EN2	NEC EP2	NEC EP1	NEC ET2	NEC EQ1	SRMA
Contact Form	1C x 2 (H Bridge or separate)	1C x 2 (H Bridge or separate)	1C	1C	1A, 1C	1A, 1C
Max. Rated Carrying Current						
Max. Switching Voltage	16VDC	16VDC	16VDC	16VDC	16VDC	16VDC
Rated Voltage	12VDC	12VDC	12VDC	12VDC	12VDC	6 to 24VDC
Nominal Operating Power	Refer to data	Refer to data	Refer to data	Refer to data	Refer to data	0.6W
Dielectric Strength (1min) between Coil and Contacts						500VAC
Dimensions	33.0 x 16.0 x 16.5	23.8 x 16.2 x 16.0	14.6 x 16.2 x 16.0	Refer to data	21.3 x 14.5 x 14.9	15.7 x 12.5 x 14.0

	SRMA	SRL	SRK	SRJ	SRZ
Contact Form	1U	1A, 1B, 1C	1U, 1V, 1W	1A, 1C	1A, 1C
Max. Rated Carrying Current					
Max. Switching Voltage	16VDC	75VDC	75VDC	75VDC	27VDC
Rated Voltage	6 to 24VDC	6 to 24VDC	6 to 24VDC	6 to 24VDC	12 to 24VDC
Nominal Operating Power	1W	1.1W	1.2W, 1.6W, 1.9W	1.6W, 1.7W, 1.8W, 1.9W	1.2W, 1.3W, 1.4W, 1.6W, 1.8W
Dielectric Strength (1min) between Coil and Contacts	500VAC	500VAC	500VAC	500VAC	500VAC
Dimensions	15.7 x 12.5 x 14.0	17.5 x 15.0 x 19.5	24.0 x 19.0 x 18.5	26.2 x 26.2 x 23.7	23.0 x 15.5 x 25.4

	SRN	ERA	ERC	SRA	SRE
Contact Form	1A, 1C	1C, 2C	1A, 1C, 2A, 2C	1C, 2C	2C
Max. Rated Carrying Current					
Max. Switching Voltage	50VDC	16VDC	16VDC	40VDC	40VDC
Rated Voltage	6 to 24VDC	12VDC	6 to 24VDC	12VDC	12VDC
Nominal Operating Power	1.6W, 1.8W, 2.0W, 2.2W	0.64W, 0.8W DC	0.55W, 0.8W	0.56W, 0.81W	0.56W, 0.81W
Dielectric Strength (1min) between Coil and Contacts		500VAC	500VAC	500VAC	500VAC
Dimensions	26.5 x 26.5 x 25.2	14.0 x 15.4 x 13.5 (Twin)	23.5 x 12.9 x 9.9 (Twin)	17.5 x 16.9 x 13.2 (Double)	22.8 x 22.3 x 20.4



PCB relays

solid state



	SSR01	SSR02	SSR03	SSR04	SSR05
Input Voltage	3 to 32VDC	3 to 32VDC, 90 to 280VAC	5, 12, 24VDC	5, 12, 24VDC	5, 12, 24VDC
Input Current (max.)	20mA (at 32VDC)	25mA (at 32VDC)	20mA	20mA	20mA
Load Voltage Range	24 to 400VDC	48 to 530VAC	75 to 400VAC	75 to 264VAC	75 to 264VAC
Max. On-state Voltage Drop	0.3V to 2.4V	1.7VAC	1.5VAC	1.5VAC	1.5VAC
Dielectric Strength (1min)	2500VAC 1min	4000VAC	2500VAC 1min	2000VAC 1min	2500VAC 1min
Dimensions	58.0 x 45.0 x 22.9	58.0 x 45.0 x 22.9	29.2 x 13.2 x 27.5	24.0 x 6.5 x 21.2	25.1 x 6.5 x 21.2

38

	SSR06	SSR07	SSR08	SSR09	SSR10
Input Voltage	3 to 32VDC, 110 & 220VAC	5, 12, 24VDC	3 to 32VDC		3 to 15VDC, 15 to 32VDC
Input Current (max.)	15mA (AC), 25mA (DC)	20mA	35mA	20mA	140mA (1B), 20mA (2B)
Load Voltage Range	48 to 400VAC	3 to 125VDC	48 to 440VAC	60 to 400VAC	48 to 480VAC
Max. On-state Voltage Drop	1.5VAC	1.5VAC	1.5VAC		1.5VAC
Dielectric Strength (1min)	4000VAC 1min	2500VAC 1min	4000VAC 1min	1500VAC 1min	4000VAC
Dimensions	58.0 x 45.0 x 22.9	29.2 x 13.2 x 27.5	105.0 x 75.0 x 30.0	10.3 x 7.6 x 3.5	49.8 x 26.5 x 9.5

	SSR11	SSR12	SSR13A	SSR13D	SSR13C
Input Voltage	12 & 24VDC, 110 & 240VAC	5, 12, 24VDC	5 to 60VDC	5 to 60VDC	5 to 60VDC
Input Current (max.)	10mA	25mA	1A to 2A	3A to 5A	15mA
Load Voltage Range	5VDC	3 to 30VDC, 75 to 265VAC	48 to 440	0 to 57.6VDC	0 to 57.6VDC
Max. On-state Voltage Drop	-	-	1.2V	0.2-0.5V	1.2V
Dielectric Strength (1min)	2500VAC 1min	2500VAC 1min	2500VAC/4000VAC 1 Min	2500VAC 1 Min	2500VAC 1 Min
Dimensions	20.0 x 5.0 x 17.0	20.0 x 5.0 x 17.0	See Data	See Data	See Data



XGB series

programmable controllers



IMO



- 100-230VAC or 12/24VDC power options
- Up to Ten Expansion Modules
- Digital, Analogue and Communication Expansion Modules
- Built-in RS232 and RS485 ports
- Serial and USB Programming ports
- 16, 32 or 64 I/O base units
- Batteryless memory backup
- Powerful Debugging and Simulation Tools
- High speed Inputs
- Compact design for optimal space usage
- Fast Processing power

39



Part number	IEC				COMPACT			
	XEC-DR32H	XEC-DR32H/DC-E	XEC-DR64H	XEC-DR64H/DC-E	XBM-DR16S	XBM-DN32S	XBC-DR32H	XBC-DR64H
Power	100-230VAC	12/24VDC	100-230VAC	12/24VDC	12/24VDC	12/24VDC	100-230VAC	12/24VDC
Digital Inputs (10-30V DC)	16	16	32	32	16	16	32	32
Relay Outputs / Contact Rating	16 (3A)	16 (3A)	32 (3A)	32 (3A)	16 (3A)	16 (3A)	32 (3A)	32 (3A)
Programming	(LAD/IL/SFC/ST/FBD)	(LAD/IL/SFC/ST/FBD)	(LAD/IL/SFC/ST/FBD)	(LAD/IL/SFC/ST/FBD)	(LAD)	(LAD)	(LAD)	(LAD)
Max Expansion modules	10	10	10	10	7	7	10	10
Programming	USB/RS232	USB/RS232	USB/RS232	USB/RS232	RS232	RS232	USB/RS232	USB/RS232

For full product range:



See enclosed CD



Visit www.imopc.com



Call +44 (0)20 8452 6444

Expansion modules for XGB and i3



IMO



- Very high I/O counts achievable
- Options for Modbus RTU/TCP and CAN
- Expansions fit directly to XGB PLCs
- Expansions compatible with distributed I/O systems (XEL/XCL)
- Remote I/Os



Expansion Modules

XBE-DC08A	8 DC In
XBE-DC16A	16 DC in
XBE-DC32A	32 DC In
XBE-RY08A	8 Relay out
XBE-RY16A	16 Relay out
XBE-DR16A	8 DC in, 8 Relay out
XBE-TN08A	8 Transistor out
XBE-TN16A	16 Transistor out
XBE-TN32A	32 Transistor out
XBE-TN64A	64 Transistor out
XBF-AD04H	4 Channel V/mA input
XBF-DC04H	4 Channel mA output
XBF-DV04H	4 Channel V output
XBF-RD04H	4 Channel RTD Input
XBF-TC04H	4 Channel Thermocouple Input
XBF-RD01H	1 Channel RTD Input
XBF-AH04H	2 Channel V/mA In, 2 Channel V/mA out
XBL-C21A	Cnet (RS232C/Modem)
XBL-C41A	Cnet (RS485/422)
XBL-EMTA	Ethernet
XEL-BSSA	Ethernet Remote I/O expansion for XGB/i3 (supports up to 8 expansion modules)
XCL-BSSA	iCAN Remote I/O expansion for i3 Only (supports up to 8 expansion modules)
XBO-M1024A	Memory Module

Remote I/O

		BUS TYPE
IOS/M020XA-D1	2 Analogue out V/mA	RS485 Modbus
IOS/M04ICX-D1	4 Analogue in mA	RS485 Modbus
IOS/M04IPX-D1	4 RTD in	RS485 Modbus
IOS/M04ITX-D1	4 TC in	RS485 Modbus
IOS/M04IVX-D1	4 Analogue in V	RS485 Modbus
IOS/M040XA-D1	4 Analogue out V/mA	RS485 Modbus
IOS/M08BDR-D1	4 Digital in DC and 4 Relay out (3A)	RS485 Modbus
IOS/M08ICX-D1	8 Analogue in mA	RS485 Modbus
IOS/M08ITX-D1	8 TC in	RS485 Modbus
IOS/M08IVX-D1	8 Analogue in V	RS485 Modbus
IOS/M080XV-D2	8 Analogue out	RS485 Modbus
IOS/M12BDD-D2	4 Digital in DC and 8 Transistor out	RS485 Modbus
IOS/M12IDX-D1	12 Digital in DC	RS485 Modbus

Remote I/O For i3 only

GCL-A21A	12 Analogue In V/mA	ICAN
GCL-AT0A	4 Analogue In, 2 Analogue out V/mA	ICAN
GCL-AT1A	8 Analogue In, 4 Analogue out V/mA	ICAN
GCL-D22A	16 Digital In DC	ICAN
GCL-D24A	32 Digital In DC	ICAN
GCL-DT4A	16 Digital In, 16 Digital out DC (0.5A)	ICAN
GCL-RY2A	16 Relay out (2A)	ICAN
GCL-TR2A	16 Digital Out DC (0.5A)	ICAN
GCL-TR4A	32 Digital Out DC (0.5A)	ICAN

For i3 and XGB

GSL-D24A	32 Digital In DC	RS485 Modbus
GSL-DT4A	16 Digital In, 16 Digital out DC (0.5A)	RS485 Modbus
GSL-RY2A	16 Relay out (2A)	RS485 Modbus



i³A intelligent control station



IMO



the ultimate integrated control solution

- 128 x 64 graphical display
- Addressable function keys
- Dual Serial Ports
- In-built I/O options
- Remote I/O communication
- MicroSD Port option
- Ethernet option
- GSM Modem option
- Real Time Clock
- IP65 (NEMA 4X)
- CE, cUL, UL
- Free of Charge software
- Voltage range: 10-30VDC
- CANopen option

41



actual size

FREE SOFTWARE

Software	i3 Configurator
Programming Cable	i3PC45
MicroSD Card	i3-MSD/2GB

1 display 2 control 3 communicate

	i3A12X/10A01-S00	i3A12X/10B04-SCH	i3A12X/10D03-SCH	i3A12A/20B05-S0H	i3A12X/13C14-S0H
Screen	128x64 F Key	128x64 F Key	128x64 F Key	128x64 F Key	128x64 F Key
Power	10-30V DC	10-30V DC	10-30V DC	10-30V DC	10-30V DC
Colour	2	2	2	2	2
Keys	20	20	20	20	20
MicroSD Card (up to 2GB)	i3A12X/10A01-S00F	i3A12X/10B04-SCHF	i3A12X/10D03-SCHF	i3A12A/20B05-S0HF	i3A12X/13C14-S0HF
Digital Inputs (10-30V DC)	12	12	12	24	12
Digital Outputs		12		16	12
Relay Outputs / Contact Rating	6 (3A)		6 (3A)		
Analogue Inputs	1 x 10bit (V/mA)	2 x 10bit (V/mA)	4 x 10bit (V/mA)	2 x 10bit (V/mA)	2 x 14bit (TC/RTD/V/mA)
Analogue Outputs					2 x 12bit (V/mA)
Optional GSM Modem Card P/N	i3-MA	i3-MA	i3-MA	i3-MA	i3-MA
Optional Ethernet Expansion Card P/N	i3-E	i3-E	i3-E	i3-E	i3-E

For full product range:



See enclosed CD



Visit www.imopc.com



Call +44 (0)20 8452 6444

i³B intelligent control station



IMO



the perfect touch for integrated control

- 160 x 128 graphical display
- High resolution resistive touch screen
- Addressable function keys
- Dual Serial Ports
- In-built I/O options
- Remote I/O communication
- MicroSD Port
- Ethernet option
- GSM Modem option
- Real Time Clock
- IP65 (NEMA 4X)
- CE, cUL, UL
- Free of Charge software
- Voltage range: 10-30VDC
- CANopen



actual size

Software	i3 Configurator
Programming Cable	i3PC45
Memory Card	i3-MSD/2GB
GSM Modem Aerial	MMM

	i3B12Y/10D03-SCHF	i3B12Y/20B03-SCHF	i3B12Y/13C14-SCHF
Screen	160x128 Touch	160x128 Touch	160x128 Touch
Power	10-30V DC	10-30V DC	10-30V DC
Colour	2	2	2
Keys	5	5	5
MicroSD Card (up to 2GB)	Y	Y	Y
Digital Inputs (10-30V DC)	12	24	
Digital Outputs		16	
Relay Outputs / Contact Rating	6 (3A)		
Analogue Inputs	4 x 10bit (V/mA)	2 x 10bit (V/mA)	2 x 14bit (TC/RTD/V/mA)
Analogue Outputs			2 x 12bit (V/mA)

Optional GSM Modem Card	i3-MA	i3-MA	i3-MA
Optional Ethernet Expansion Card P/N	i3-E	i3-E	i3-E



i³C intelligent control station



IMO



High quality colour integrated control solution

- 320 x 240 colour graphical display
- High resolution resistive touch screen
- Addressable function keys
- Dual Serial Ports
- In-built I/O options
- Remote I/O communication
- MicroSD Port
- Ethernet option
- WEB Server (HTTP/FTP) option
- GSM Modem option
- Real Time Clock
- IP65 (NEMA 4X)
- CE, cUL, UL
- Free of Charge software
- Voltage range: 10-30VDC
- USB programming port
- USB flash drive port (up to 2GB)
- CANopen



43

Software	i3 Configurator
Programming Cable	i3PC45
MicroSD Card	i3-MSD/2GB

	i3C12Z/10D03-SCHF	i3C12Z/20B03-SCHF	i3B12Z/13C14-SCHF
Screen	160x128 Touch	160x128 Touch	160x128 Touch
Power	10-30V DC	10-30V DC	10-30V DC
Colour	32768	32768	32768
Keys	6	6	6
MicroSD Card (up to 2GB)	Y	Y	Y
Digital Inputs (10-30V DC)	12	24	12
Digital Outputs		16	12
Relay Outputs / Contact Rating	6 (3A)		
Analogue Inputs	4 x 10bit (V/mA)	2 x 10bit (V/mA)	2 x 14bit (TC/RTD/V/mA)
Analogue Outputs			2 x 12bit (V/mA)
Device with In Built Ethernet	i3C12Z/10D03-SEHF	i3C12Z/20B03-SEHF	i3B12Z/13C14-SEHF
USB	Y	Y	Y

Optional GSM Modem Card	i3-MA	i3-MA	i3-MA
Optional Ethernet Expansion Card P/N	i3-E	i3-E	i3-E

For full product range:



See enclosed CD



Visit www.imopc.com



Call +44 (0)20 8452 6444

i³H Operator Interface (HMI)



- SVGA TFT Colour Touch Screen 800 x 600
- Highly Visual Display Screen
- Controller
- Networking
- Operator Interface
- Three display sizes 8", 10" and 12"
- WEB Server
- FTP
- Compact Flash
- Three Serial and one Ethernet ports
- Real Time Clock
- Alarm function
- PID Control



Software	i3 Configurator
Programming Cable	i3PC45
Compact Flash	I3CF-2

	i3H08/00000-SEOL	i3H10/00000-SEOL	i3H12/00000-SEOL
Screen	800 x 600	800 x 600	800 x 600
Power	24V DC (+/-10%)	24V DC (+/-10%)	24V DC (+/-10%)
Colour	32768	32768	32768
Keys	7 configurable + System	7 configurable + System	7 configurable + System
Compact Flash (up to 2GB)	Yes	Yes	Yes
Device with In Built Ethernet	Yes	Yes	Yes
RS232, RS485 and RS422 Configurable	Yes	Yes	Yes



iSmart

intelligent relays for precise control



45

- From 10 to 44 I/O
- Available with or without display
- 4 line by 16 character
- 8 Amp output switching capability
- Up to 8 Analogue inputs (12 bit)
- 4 Analogue out / 4 PT100 in
- 2 1kHz High speed inputs
- Relay Ladder (300 lines) or Function Block (260 blocks)
- Free of Charge software
- Real Time Clock (RTC)
- 1 Pulse Width Modulation output
- Memory module option
- Communication interface
- High Speed Data Link (Modbus master / slave)
- Ethernet and Modbus
- Multi-language capability
- DIN rail mountable
- 240VAC, 24VDC, 12VDC power source
- Timers / counters / basic maths
- 250 data registers
- Digital, Analogue and Temperature Inputs
- Relay, Transistor and Analogue Outputs
- Powerful control logic in Ladder or Functional Block Diagram
- Available with or without Text HMI screen including programmable function keys
- PID control (up to 30 loops)
- Maths Functions
- Retentive Data Registers
- High Speed Inputs and PWM Outputs
- Link Function
- Multi-language Selectable
- CE, UL, cUL approval
- Expansion modules for more I/O and more communication



DC iSmart models

Model No. SMT-	Total I/O	Digital DC	Analogue 0-10VDC	Outputs
ED-R12-V3	12	6	2	4xRelays
BD-R12-V3	12	6	2	4xRelays
ED-T12-V3	12	6	2	4xTrans.
ED-R20-V3	20	8	4	8xRelays
BD-R20-V3	20	8	4	8xRelays
CD-R20-V3	20	8	4	8xRelays
CD-T20-V3	20	8	4	8xTrans.

DC expansion modules

MD-R8	8	4	-	4xRelays
MD-T8	8	4	-	4xTrans.
MD-4AI	4	-	(mA/V)	-
MD-4PT	4	-	PT100	-
MD-2AO	2	-	V/mA out	-
MD-ENET	-	-	-	-

AC iSmart models

Model No. SMT-	Total I/O	Digital AC	Outputs
EA-R10-V3	10	6	4xRelays
BA-R10-V3	10	6	4xRelays
EA-R20-V3	20	12	8xRelays
BA-R20-V3	20	12	8xRelays

AC expansion module

MA-R8	8	4	4xRelays
-------	---	---	----------

Accessories

SMT-PC03	Programming cable
SMT-PM04-V3	Memory module
SMT-Configurator	Software + Manuals - download from IMO website for FREE

24VAC models available



Signal conditioning modules



IMO



- Full isolation
- Dip switch selectable setup
- Optional software for mapping Dip Switches (some models)
- Fast response times
- High accuracy
- Intelligent modules (Mathscon/Chameleon)
- Loop Powered option (from Input or output side)
- Pluggable terminals*
- Full 3-port Isolation*
- Strong metal Din Rail clamp*

* on most models, check datasheet for full details

Model	Slimcon-6	Isocon-6	Isocon-3	Mathscon-6	Dualcon-6	Dualcon-3
Input	V/mA	V/mA/TC/RTD/mV/Ohm	V/mA/TC/RTD/mV/Ohm	2 V/mA, V/mA/TC/RTD/mV/Ohm	V/mA/TC/RTD/mV/Ohm	V/mA/TC/RTD/mV/Ohm
Output	V/mA	V/mA	V/mA	V/mA	2 V/mA	2 V/mA
Isolation	1KV	1.5KV	1.5KV	1.5KV	1.5KV	1.5KV
Operating Voltage	24VAC/DC	24VAC/DC	90 – 264VAC	24VAC/DC	24VAC/DC	90 – 264VAC
Width (mm)	6.2mm	12.5mm	12.5mm	17.5mm	17.5mm	17.5mm
Height x Depth (mm)	93.1mm x 102.5mm	114.5 mm x 99mm	114.5 mm x 99mm	114.5 mm x 99mm	114.5 mm x 99mm	114.5 mm x 99mm
Digital In	-	-	-	-	-	-
Digital out	-	-	-	-	-	-
Comms	-	-	-	-	-	-

Model	STRAIN-DC	FREQCON-6	CHAMELEON-6	4002ALM-6	TC-TC	RTD-HEAD
Input	Loadcell	0 – 250kHz	3 V/mA	V/mA/TC/RTD/mV/Ohm	TC	RTD
Output	V/mA	V/mA	2 V/mA	-	TC	mA
Isolation	1.5KV	1KV	1.5KV	1.5KV	1.5KV	50V
Operating Voltage	115V/230V	24VAC/DC	24VAC/DC	24VAC/DC	24VAC/DC	24VDC
Width (mm)	45mm	12.5mm	33mm	22.5mm	12.5mm	33mm
Height x Depth (mm)	104.5mm x 75mm	114.5 mm x 99mm	140mm x 145mm	114.5 mm x 99mm	114.5 mm x 99mm	43mm x 21mm
Digital In	-	-	2	-	-	-
Digital out	-	-	2	2 relay (3A)	-	-
Comms	-	-	Modbus, RS485	-	-	-

Model	TC-HEAD	VCON-HL	420i	420TW
Input	TC	V/mA	mA	mA
Output	mA	V/mA	mA	mA
Isolation	50V	1.5KV	1KV	1KV
Operating Voltage	24VDC	24VAC/DC	Loop (in)	Loop (Out)
Width (mm)	33mm	12.5mm	18mm	18mm
Height x Depth (mm)	43mm x 21mm	114.5 mm x 99mm	58mm x 63mm	58mm x 63mm
Digital In	-	-	-	-
Digital out	-	-	-	-
Comms	-	-	-	-



Temperature controllers



IMO



- Multiple input options
- PD, PID and auto tuning
- RS485 and Modbus options
- 1x alarm standard (2nd optional)
- Programmable profiling
- Programmable functionality
- Loss of input alarm options
- 4-20mA or 0-10V options

47



DTP40



TP20



TP40



TP80

Dimensions	22.5 x 75 x 100	48 x 24 x 110	48 x 48 x 110	48 x 96 x 110
Sensor type	TC, RTD selectable mA/Volt	TC, RTD selectable mA/Volt	TC, RTD selectable mA/Volt	TC, RTD selectable mA/Volt
Control action	On/Off, PD, PID or PID with selectable auto-tuning	On/Off, PD, PID or PID with selectable auto-tuning	On/Off, PD, PID or PID with selectable auto-tuning	On/Off, PD, PID or PID with selectable auto-tuning
Supply voltage	85-264VAC 50/60Hz 24VDC 24VAC 50/60Hz	85-264VAC 50/60Hz 24VDC 24VAC 50/60Hz	85-264VAC 50/60Hz 24VDC 24VAC 50/60Hz	85-264VAC 50/60Hz 24VDC 24VAC 50/60Hz
Accuracy	0.2%+-1digit	0.2%+-1digit	0.2%+-1digit	0.2%+-1digit



TP90



DTI70

Dimensions	96 x 96 x 110	48 x 96 x 110
Sensor type	TC, RTD selectable mA/Volt	TC, RTD selectable mA/Volt
Control action	On/Off, PD, PID or PID with selectable auto-tuning	Programmable display
Supply voltage	85-264VAC 50/60Hz 24VDC 24VAC 50/60Hz	85-264VAC 50/60Hz 24VDC 24VAC 50/60Hz
Accuracy	0.2%+-1digit	0.2%+-1digit



Photoelectric switches



IMO



a complete and comprehensive range to meet all applications






DM	FA	MS	MV	QB	SQ
M12	M18	M18	M18	Miniature rectangular	Miniature 50x50x18mm
DC	DC	DC	AC	DC	Multi-voltage AC/DC
4 wire	4 wire	4 wire	3 wire	4 wire	4 wire plug or 5 wire cable
Diffuse, Polarized-Retro, Through-beam	Diffuse, Polarized Retro, Retro or Through-beam	Diffuse, Polarized-Retro, Retro or Through-beam	Diffuse, Diffuse BS, Polarized-Retro, Retro or Through-beam	Diffuse, Diffuse BS, Retro, Polarized-Retro, Through-beam	Diffuse, Polarized-Retro, Retro or Through-beam,
Teach button	Axial or 90 Degree Optic	Axial or 90 Degree Optic	Axial or 90 Degree Optic	Polarized Retro Clear Material	Relay energized or OFF
Cable or M12 plug exit	Cable or M12 plug exit	Cable or M12 plug exit	Cable or M12 plug exit	M8 plug exit	Cable or M12 plug exit
NO/NC Selectable	NO/NC Select or Complementary	NO or NC Selectable	NO or NC	NO and NC	NO or CO
NPN or PNP	NPN or PNP	NPN or PNP Selectable		NPN or PNP	Relay NO/ Relay CO






RX	RS	FX	BX80	FC3
Rectangular	Rectangular	Rectangular	Rectangular	Fork Sensor
DC or Multi-voltage Relay O/P	Multi-voltage AC/DC	DC	DC	DC
4 wire	4 wire	4 wire	4/5 wire	4 wire
Diffuse, Diffuse BS, Retro, Polarized-Retro, Through-beam	With Timer Function	Fibre Optic Amplifier For Use with Diffuse or Through-beam Fibres	Through-beam	Through-beam
With/Without Timer Function	Gland entry screw termination	Cable or M8 plug exit	High Resolution Area Sensor	Pigtail with M12 plug
M12 plug exit	NO or NC Selectable	NO or NC Selectable	2mm to 6mm Dia. Object	NO or NC Selectable
NO or NC Selectable	Relay	NPN or PNP	M12 plug	TRIAC output
NPN or PNP Selectable/ Relay			NO or NC Selectable	110 VAC 500 mA
			NPN or PNP or + Analogue	



Proximity switches

a complete and comprehensive range to meet all applications

				
PA	PB	PC	PD	PP
Ø3 mm	M4	Ø4 mm	M5	5 x 5 x 25 mm
DC	DC	DC	DC	DC
3 wire	3 wire	3 wire	3 wire	3 wire
Shielded	Shielded	Shielded	Shielded	Shielded
Cable exit	Cable exit	Cable or M8 plug exit	Cable or M8 plug exit	Cable exit
NO or NC	NO or NC	NO or NC	NO or NC	NO or NC
NPN or PNP	NPN or PNP	NPN or PNP	NPN or PNP	NPN or PNP
Sensing dist.: 0.6 mm	Sensing dist.: 0.6 mm	Sensing dist.: 0.8 mm	Sensing dist.: 0.8 mm	Sensing dist.: 0.8 mm

				
AT	PMS	PMW	PKS	PKW
M30	M12	M12	M18	M18
DC	DC	DC	DC	DC
2 wire or 3 wire	4 wire	4 wire	4 wire	4 wire
Shielded or Un-shielded	Shielded or Un-shielded	Shielded or Un-shielded	Shielded or Un-shielded	Shielded or Un-shielded
Cable or M12 plug exit	Cable or M12 plug exit	Cable or M12 plug exit	Cable or M12 plug exit	Cable or M12 plug exit
NO or NC	NO or NC	NO or NC	NO or NC	NO or NC
NPN or PNP	NPN or PNP	NPN or PNP	NPN or PNP	NPN or PNP
Sensing dist.: 10/15/15/20 mm	Sensing dist.: 2/4 mm Harsh environment	Sensing dist.: 2/4 mm Harsh env., Stainless Steel	Sensing dist.: 5/8 mm Harsh environment	Sensing dist.: 5/8 mm Harsh env., Stainless Steel



**IMO**

					
IL	PH	AH	AE	AM	AK
28 x 10 x 16 mm	Ø6.5 mm	Ø6.5 mm	M8	M12	M18
DC	DC	DC	DC	DC	DC
3 wire	3 wire	3 wire	3 wire	2 wire or 3 wire	2 wire or 3 wire
Shielded or Un-shielded	Shielded	Shielded or Un-shielded	Shielded or Un-shielded	Shielded or Un-shielded	Shielded or Un-shielded
Cable or M8 plug exit	Cable or M8 plug exit	Cable or M8 plug exit	Cable or M8 or M12 plug exit	Cable or M8 or M12 plug exit	Cable or M12 plug exit
NO or NC	NO or NC	NO or NC	NO or NC	NO or NC	NO or NC
NPN or PNP	NPN or PNP	NPN or PNP	NPN or PNP	NPN or PNP	NPN or PNP
Sensing dist.: 3/6 mm	Sensing dist.: 1.5 mm	Sensing dist.: 1.5/2.5/2/4 mm	Sensing dist.: 1.5/2.5/2/4 mm	Sensing dist.: 1.5/2.5/2/4 mm	Sensing dist.: 5/8/8/12 mm
					
VM2	VK2	VT2	CT	UK	
M12	M18	M30	M30		
AC	AC	AC	Capacitive DC	Ultrasonic DC	
2 wire	2 wire	2 wire	3 wire	3/4 wire	
Shielded or Un-shielded	Shielded or Un-shielded	Shielded or Un-shielded	Shielded or Un-shielded	Sensitivity Adjustment	
Cable or M12 plug exit	Cable or M12 plug exit	Cable or M12 plug exit	Cable or M12 plug exit	Cable or M12 plug exit	
NO or NC	NO or NC	NO or NC	NO or NC	NC/NO or Analogue	
			NPN or PNP	PNP or Analogue	
Sensing dist.: 2/4 mm	Sensing dist.: 5/8 mm	Sensing dist.: 10/15 mm	Sensing dist.: 15/20 mm	Sensing dist.: 100 to 1600 mm	

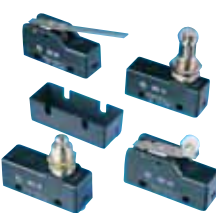







Limit switches



- Over 3000 configurations
- Available off the shelf
- Wide range of applications
- Highly reliable
- Metal or plastic housings
- IEC 947-5-1
- M12 connector options

51

					
MV	MK	FA	FR/FX	FM/FZ	FP
Robust Microswitch	Robust Microswitch	Pre-cabled Limit Switch	Compact Heavy Duty	Compact Heavy Duty	Compact Heavy Duty
CO Contacts Optional terminal covers Lever, Roller Lever, Piston Plunger, Roller Piston, Red Button IP40 with VFCO2 cover	CO Contacts Optional terminal covers Lever, Roller Lever, Piston Plunger, Roller Piston, Red Button IP40 with VMKMC IP65 with VMKMC Cover	2m Cable Standard Metal Body Lever, Roller Lever, Adjustable Roller Lever, Piston Plunger, Adjustable Rod, Coiled Spring, Lift Style	Single/Dual Conduit Entry GRP Body Lever, Roller Lever, Adjustable Roller Lever, Piston Plunger, Adjustable Rod, Coiled Spring, Lift Style	Single/Dual Conduit Entry Metal Body Lever, Roller Lever, Adjustable Roller Lever, Piston Plunger, Adjustable Rod, Coiled Spring, Lift Style	Single Conduit Entry GRP Body Lever, Roller Lever, Adjustable Roller Lever, Piston Plunger, Adjustable Rod, Coiled Spring, Lift Style

	
FD/FL	1638
Compact Heavy Duty	Lever Direction Differentiating
Single/Triple Conduit Entry Metal Body Lever, Roller Lever, Adjustable Roller Lever, Piston Plunger, Adjustable Rod Coiled Spring, Lift Style	Single to Triple Conduit Entry Plastic/Metal Body Lever, Roller Lever, Adjustable Roller Lever, Adjustable Rod

Foot switches



PX/PA

- Foot Switch
- Shrouded/Un-shrouded
- Yellow Shroud/Red Cover
- Standard
- GRP Body
- Three Conduit Entries
- Optional Safety Lever
- One/Two Stage
- Accessories to Double Up



Safety limit switches



IMO



- Available off the shelf
- Wide range of applications
- Highly reliable
- Metal or plastic housings
- IEC 947-5-1
- M12 connector options

FR	FP	FD/FL	FP	FD	FS
Safety Door Interlock Compact Heavy Duty	Safety Door Interlock Standard Heavy Duty	Safety Door Interlock Standard Heavy Duty	Safety Door Interlock Standard Heavy Duty	Safety Door Interlock Standard Heavy Duty	Safety Door Interlock Solenoid Release/Lock
Key Interlock GRP Body Single Conduit Entry	Key Interlock GRP Body Single Conduit Entry	Single/Triple Conduit Entry Metal Body Key Interlock	Delayed Key Release GRP Body Single Conduit Entry	Delayed Key Release Metal Body Single Conduit Entry	Key Interlock GRP Body Dual Conduit Entry Combination of Key or Solenoid Operated Contacts

FG	FR/FM/FX/FZ	FR/FM/FX/FZ	FD/FL
Safety Door Interlock Solenoid Release/Lock	Hinged Guard Safety Interlock For Hinged Guards	Hinge Operated Safety Interlock Hinge Pin Operated	Rope Operated Stop Switch Standard Heavy Duty
Key Interlock Metal Body Three Conduit Entries Optional LED Indication Combination of Key or Solenoid Operated Contacts	Compact Heavy Duty GRP/Metal Body Left Hand/Straight/Right Hand Lever Options Single/Double Conduit Entry	Compact Heavy Duty GRP/Metal Body Single/Double Conduit Entry Hollow Shaft/Solid Shaft Lever Options	Single/Triple Conduit Entry Metal Body With Reset Left Hand/Straight/Right Hand Head Options



Product Literature

53



Jaguar Drives



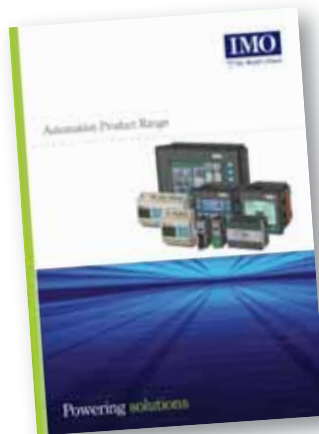
Panel Product Range



Solar Isolator Range



Din Rail Terminals



Automation Product Range



i3 Intelligent Control Station



Relay



PCB Terminal

For full product range:



See enclosed CD



Visit www.imopc.com



Call +44 (0)20 8452 6444

A mine of information

Full datasheet library
Full user and training manuals
Full software

*Please check with IMO for the latest software updates
or visit www.imopc.com for the latest downloads*



For full product range:



See enclosed CD



Visit www.imopc.com



Call +44 (0)20 8452 6444

IMO: connections worldwide



IMO products are readily available in over 150 countries

- IMO offices
- IMO distribution partners



IMO Precision Controls Limited
1000 North Circular Road
Staples Corner, London
NW2 7JP United Kingdom
Tel: +44 (0)20 8452 6444
Fax: +44 (0)20 8450 2274
Email: imo@imopc.com
Web: www.imopc.com



IMO Jeambrun Automation SAS
Europarc Berthe Morisot
6 Place Berthe Morisot, 69800
Saint Priest, Lyon
France
Freephone Tel: 0800 912 712
Freephone Fax: 0800 912 713
Email: info@imopc.fr
Web: www.imopc.fr



IMO Deutschland
Für weitere Einzelheiten
zu IMO Agenten und
Distributoren in Ihrer Nähe
schreiben. Sie bitte ein E-mail
an folgende Adresse:
Email: imo@imopc.com



IMO Italia
Via Ponte alle Mosse, 61
50144 Firenze, Italia
Tel: +39 800 783281
Fax: +39 800 783282
Email: info@imopc.com
Web: www.imopc.com



IMO Canada
Unit 10, 1 Whitmore Road
Woodbridge, Ontario
L4L 8G4 Canada
Tel: +1 905 265 9844
Fax: +1 905 265 1749
Email: imocanada@imopc.com



Authorised Distributor: