

Protection

Protection is the key to maintained plant life and operating conditions. With Merlin Gerins' expertise in electrical distribution it is not surprising that protection of electrical circuits are foremost in mind.

To compliment the wide selection of circuit breakers, Merlin Gerin offer a modular fuse solution for differing levels of protection.

Another area of focus in today's changing climate is lighting protection. There are 3 billion lightning strikes around the world each year exposing critical plant to danger, why take that risk? Consider modular surge protection from Merlin Gerin.



Lighting control

In commercial and industrial premises the correct level of lighting is essential to maintain a safe and comfortable working environment. This balance is difficult to achieve as there is often too much electric lighting provided rather than too little.

Electric lighting is expensive, so efficient control is key to reducing bills whilst still maintaining the correct conditions. Government incentives also provide guidance and encouragement to employ energy efficient solutions.

Merlin Gerins' modular solution to lighting control features on the government supported Energy Technology List. This can allow the end user to claim Enhanced Capital Allowance, in addition to reducing running cost.



Programmable control

A flexible solution is essential in today's changing world, a control solution that can change with the requirements of the occupant of the buildings.

With simple, intuitive solutions Merlin Gerin modular time management controls provide all the flexibility a system needs, in a user friendly package.

New to the Merlin Gerin range is the innovative ITM multifunction time switch, a single device that can apply no less than nine functions. A true 'all-in-one' product with programming simplicity.



Measurement and metering

The government implementation of the Climate Change Levy has had a significant impact on utility costs. This places the incentive on the end user to measure and monitor usage and implement energy efficient technology where required.

Guidance is provided within the Building Regulations (2001) approved document part L. Guidance and recommendations are given to building owners or occupiers to enable at least 90% of annual energy consumption to be accounted for, thus enabling the implementation of energy efficient technologies.

Merlin Gerin modular solutions create a window through the clouds of confusion.

Let yourself be guided by Merlin Gerin modular solutions

Merlin Gerin presents its modular solution for building control

With products promoting value engineered solutions that provide more control and benefits to installers and end users.

Making the most efficient use of lighting and heating control can make the difference when it comes to utility costs, an effective metering and monitoring strategy can point to problem areas.

- Energy saving
- Reduced installation time
- Increased control



With simple installation and configuration let Merlin Gerin guide you with a modular solution



Nationwide support on one number -
call the Customer Information Centre on
0870 608 8 608

Fax 0870 608 8 606

Schneider Electric's local support

Schneider Electric is committed to supporting its customers at every stage of a project. Our 180 sales engineers, the largest dedicated sales force in the UK electrical industry, operate from 4 customer support centres. Our sales engineers are skilled at assessing individual requirements and combined with the expert support of our product specialists, will develop the most effective and economical answer taking relevant regulations and standards fully into account. To access the expertise of the Schneider Electric group, please call 0870 608 8 608. Each customer support centre includes facilities for demonstrations and training, and presentation rooms fully equipped with audio visual and video, providing excellent meeting facilities.

Merlin Gerin

Merlin Gerin is a world leader in the manufacture and supply of high, medium and low voltage products for the distribution, protection, control and management of electrical systems. Its quality products, solutions and services are focused on the needs of both the commercial and industrial sectors.

Square D

Square D is a total quality organisation and its business is to put electricity to work productively and effectively, protecting people, buildings and equipment. Its low voltage electrical distribution equipment, systems and services are used extensively in residential and commercial applications.

Telemecanique

Telemecanique is a UK market leader and world expert in automation and control. It provides complete solutions, with its range of components, Modicon range of high technology programmable controllers (PLCs), multiple fieldbus and ethernet communication networks, HMI, motion control systems, variable speed drives and communications software. In addition, it offers power distribution through prefabricated busbar trunking.

Local customer support centres

Scotland Schneider Electric Ltd Unit 11000 Academy Business Park Gower Street Glasgow G51 1PR webmasterGB@schneider.co.uk	South West Schneider Electric Ltd 190 Aztec West Park Avenue Almondsbury Bristol BS32 4TP webmasterGB@schneider.co.uk	North West Schneider Electric Ltd 8 Brindley Road City Park Business Village Cornbrook Manchester M16 9HQ webmasterGB@schneider.co.uk	Greater London Schneider Electric Ltd 2nd Floor 408 Strand London WC2R 0NE webmasterGB@schneider.co.uk
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Product showrooms

Industrial systems and solutions product showroom Schneider Electric Ltd, University of Warwick Science Park, Sir William Lyons Road, Coventry CV4 7EZ	Building systems and solutions product showroom Schneider Electric Ltd, Stafford Park 5, Telford, Shropshire TF3 3BL	Energy and Infrastructure systems and solutions product showroom Schneider Electric Ltd, 123 Jack Lane, Hunslet, Leeds LS10 1BS
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Modular solutions for building control



Modular analogue metering	Modular digital metering
AMP, VLT CEI EN 60051, IEC 60414	AMP, VLT, FREQ CEI EN 61010-1



Voltmeter VLT	Modules	Part N°.	Scale for AMP 16030	Part N°.	Voltmeter VLT	Modules	Part N°.
Scale 0 - 300V	4	16060	0 - 5A	16031	Scale 0 - 600V	2	15201
Scale 0 - 500V	4	16061	0 - 50A	16032	Ammeter AMP		
Ammeter AMP			0 - 75A	16033	Scale 0 - 10A direct	2	15202
Scale 0 - 30V direct	4	16029	0 - 100A	16034	Scale 40 - 1000 via CT	2	15209
Scale via CT x/5	4	16030	0 - 150A	16035	Frequency meter FREQ		
			0 - 200A	16036	Scale 20 - 100Hz	2	15208
			0 - 250A	16037			
			0 - 300A	16038			
			0 - 400A	16039			
			0 - 500A	16040			
			0 - 600A	16041			
			0 - 800A	16042			
			0 - 1000A	16043			
			0 - 1500A	16044			
			0 - 2000A	16045			

Panel mounting analogue metering

AMP, VLT CEI EN 60051, IEC 60414	Scale per AMP
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Voltmeter VLT	Size	Part N°.	Scale for AMP 16004	Part N°.
Scale 0 - 500V	72 x 72	16005	0 - 50A	16009
Ammeter AMP			0 - 100A	16010
Scale x/5 via CT	72 x 72	16004	0 - 200A	16011
			0 - 400A	16012
			0 - 600A	16013
			0 - 1000A	16014
			0 - 1250A	16015
			0 - 1500A	16016
			0 - 2000A	16019

Analogue kWh meter

CE, CER IEC 61036	ME1 IEC 61036	ME4 IEC 61036
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Single phase	Modules	Part N°.	Single phase	Modules	Part N°.	Three phase	Modules	Part N°.
CE 25/90A	6	15464	ME1 63A	2	17065	ME4 63A	4	17070
CER 25/90A with pulse	6	15466	ME12 63A with reset	2	17066	ME42rt 40 - 6000A with reset and pulsed output	4	17072
Three phase								
CE 50 - 400A	6	15465	ME12 63A with reset and pulse output	2	17067			
CER 50 - 400A with pulse	6	15467						

Digital multimeter

PM CEI EN 61010	TA CEI EN 61010
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Modular multimeters	Modules	Part N°.	IP	Size ø	Size □	Part N°.	IP	Size □	Part N°.
PM9	4	15196	40/5A	21	20 x 5	16500	600/5A	65 x 32	16531
Panel mounting	Size		50/5A	21	20 x 5	16501	800/5A	65 x 32	16532
PM500 10 - 440V ac	92 x 92	50980	75/5A	21	20 x 5	16502	1000/5A	65 x 32	16533
PM500 24 - 48V dc	92 x 92	50981	100/5A	21	20 x 5	16503	1250/5A	65 x 32	16534
PM500 modbus connection		50982	125/5A	21	20 x 5	16504	1500/5A	127 x 38	16540
PM500 pulse output module		50983	150/5A	21	20 x 5	16505	1500/5A	84 x 38	16538
PM500 I/O module		50984	200/5A	21	20 x 5	16506	1500/5A	127 x 38	16541
			250/5A	22	30 x 10	16511	2000/5A	127 x 38	16542
			300/5A	35	40 x 10	16519	2500/5A	127 x 38	16543
			400/5A		65 x 32	16529	3000/5A	127 x 38	16544
			500/5A		65 x 32	16530	4000/5A	127 x 38	16547

Selector switches

CM CEI EN 61010	CI, CH
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Ammeter selector	Modules	Part N°.	Ammeter selector	SIZE	Part N°.	Impulse counter	Modules	Part N°.
CMA 4 pos. (O-L1-L2-L3)	3	15126	CMA 4 pos. (O-L1-L2-L3)	48 x 48	16017	CI Vn 230-240V ac	2	15443
Voltmeter selector			Voltmeter selector			Hours counter		
CMV 7 pos. (L3/1-0-L3N)	3	15125	CMV 7 pos. (L3/1-0-L3N)	48 x 48	16018	CH Vn 230-240V ac	2	15440

Impulse relays	Impulse relays auxiliaries	Modular contactors
TL, TLI, Tls, Tlm, Tlc, ETL CEI EN 60669-2.1/2	ATL	CT, CT manual CEI EN 61095



Pole	1P					2P					Auxiliaries					Modules	Part N°.	Pole	1P	
Vn (Vca)	230/240					230/240					Time delay ATL-T					1	15411	Vn (Vca)	230/240	
Modules	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15413	Contact	1N			
Impulse TL											Centralised control and indication ATLC+s					1	15409	Modules		
In (A) 16	15510	15511	15512	15513	15514	15520	15521	15522	15523	15524	Centralised control and indication ATLC+e					1	15410	Contactor CT		
32	15515										Step control ATL4					2	15412	In (A) 16		
Changeover TLI (1NO+1Nc)											Accessories								25	15
In (A) 16											Set of 10 clips						15414		40	
Impulse with indication TLs																			63	
In (A) 16	15517		15528	15527														100		
Impulse with manual override Tlm																				Contactor with
In (A) 16	15516																In (A) 25			
Impulse with centralised control Tlc																			40	
In (A) 16	15518		15526	15525													63			
Extension ETL																				
In (A) 16						15530	15531	15532	15533	15534										
32	15505																			

Isolation devices

I CEI EN 60669-1 (20÷63 A) CEI EN 60947-3 (40÷125 A)	I with indication 230VCA CEI EN 60669-2	Auxiliaries and accessories for I	CMB, CMD, CME CEI EN 60947-5-1
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Poles	1P	2P		3P		4P		1P	2P	Auxiliaries for indication	Modules	Part N°.	Selector 1-2	Modules	Part N°.
Modules	1	1	2	2	3	2	4	1	1	Auxiliary contact	1	15096	CME 1NO+1Nc 3	3	15122
In (A)													Position		
20	15005	15006		15007		15008		15063	15064				Selector 1>0<2		
32	15009	15010		15011		15012		15100	15101				CMB 2P 3 pos. 3	3	15120
40	15019		15020		15023		15024						Rest at centre		
63	15013		15014		15015		15016						Selector 0-1-2-3-4		
100	15090		15091		15092		15093						CMD 1P 5 pos. 3	3	15121
125	15057		15058		15059		15060								

Conventional timers

IH EN 60730	IHP EN 60730	RT
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Hours 60 min.	Modules	Part N°.	Daily and weekly 24hr and 7 day	Modules	Part N°.	Delay on energisation	Modules
1 channel without reserve	3	15338	1 channel 28 locations	2.5	15720	RTA	1
Daily			1 channel 14 locations	1	15854	Delay on energisation (or impulse)	
1 channel without reserve	1	15335	2 channel 42 locations	2.5	15722	RTC	1
1 channel with 100hr reserve	1	15336	Daily and weekly 24hr and 7 day + impulse			Delay on energisation	
1 channel with 150hr reserve	3	15365	1 channel 42 locations	2.5	15721	RTB	1
2 channel with 150hr reserve	3	15337	2 channel 42 locations	2.5	15723	Impulse delay	
Daily and weekly 24hr and 7 day						RTH	1
1+1 channel with 150hr reserve	3	15366				Multifunctional	
Weekly 7 day						RTMF	1
1 channel with 100hr reserve	1	15331				Cyclic timer	
1 channel with 150hr reserve	3	15367				RTL	1
Accessories for IH							
20 jumpers for 15337, 15366, 15367		15341					

Motor protection

P25M CEI EN 6047-2: 15kA	Electrical auxiliaries CEI EN 60947-5	P25M accessories	STI: CEI EN 60947-3
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Pole	3P	Limiting block	Modules	Part N°.	Busbars	Part N°.	Pole	N	1P	1P+N
Modules	2.5	Limiting block 100kA	2.5	21115	For 2 x P25M	21145	Cartridge fuse STI			
In [A]	Setting	Remote indication			For 4 x P25M	21146	Fuse	Imax (A)		
0.16	0.1 ÷ 0.16	Auxiliary contactor F+F	0.5	21116	Terminal blocks		8.5 x 31.5	20	15635	15645
0.25	0.16 ÷ 0.25	Auxiliary contactor O+F	0.5	21117	End	21148	10.3 x 38	32	15363	15646
0.4	0.25 ÷ 0.4	Contact auxiliary + alarm F+SD-F	0.5	21118	Blank terminal	21144	Modules		1	1
0.63	0.4 ÷ 0.63	Contact auxiliary + alarm O+SD-F	0.5	21119	Insulated connector	21147				
1	0.6 ÷ 1	Contact auxiliary + alarm F SD-O	0.5	21120	Insulated enclosure					
1.6	1 ÷ 1.6	Contact auxiliary + alarm O+SD-O	0.5	21121	Enclosure	21133				
2.5	1.6 ÷ 2.5	Remote tripping			Accessories					
4	2.5 ÷ 4	MX shunt trip 240/240 V	1	21127	Indicator 230/240 V green	21140				
6.3	4 ÷ 6.3	MX shunt trip 380/415 V	1	21128	Indicator 230/240 V red	21142				
10	6 ÷ 10	MN undervoltage 240/240 V	1	21129	Indicator 380/415 V green	21141				
14	9 ÷ 14	MN undervoltage 380/415 V	1	21130	Indicator 380/4150 V red	21143				
18	13 ÷ 18									
23	17 ÷ 23									
25	20 ÷ 25									

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