



**Electrical and Automation
Solutions**

**PRODUCT
CATALOG
2020**

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Power Distribution and Protection



LS IS

Schneider
Electric

MCB (Miniature Circuit Breaker)

1, 2, 3, 4 poles MCBs for protection of circuits against overloads and short-circuits

Various applications: Residential, Houses, Offices, Industrials...

Compliant with IEC 898

Impulse withstand voltage (Uimp) : 6kV

C curve suitable for standard applications

LSIS MCB Breaking Capacity

Standard	Type	Voltage (VAC)	Icu (kA)
IEC 898	1-4 Poles	240 & 400	6 & 10



BKN 1P



BKN 2P



BKN 3P



BKN 4P

Type	Icu (kA)	Rating In (A)	Reference
1P	6	6	BKN1PC6A
	6	10	BKN1PC10A
	6	16	BKN1PC16A
	6	20	BKN1PC20A
	6	25	BKN1PC25A
	6	32	BKN1PC32A
	6	40	BKN1PC40A
	6	50	BKN1PC50A
	6	63	BKN1PC63A
2P	6	6	BKN2PC6A
	6	10	BKN2PC10A
	6	16	BKN2PC16A
	6	20	BKN2PC20A
	6	25	BKN2PC25A
	6	32	BKN2PC32A
	6	40	BKN2PC40A
	6	50	BKN2PC50A
	6	63	BKN2PC63A
3P	6	6	BKN3PC6A
	6	10	BKN3PC10A
	6	16	BKN3PC16A
	6	20	BKN3PC20A
	6	25	BKN3PC25A
	6	32	BKN3PC32A
	6	40	BKN3PC40A
	6	50	BKN3PC50A
	6	63	BKN3PC63A
	10	80	BKHC3P80A
	10	100	BKHC3P100A
	10	125	BKHC3P125A
4P	6	20	BKN4PC20A
	6	25	BKN4PC25A
	6	32	BKN4PC32A
	6	40	BKN4PC40A
	6	50	BKN4PC50A
	6	63	BKN4PC63A
	10	80	BKHC4P80A
	10	100	BKHC4P100A
	10	125	BKHC4P125A

MCB (Miniature Circuit Breaker)

1, 2, 3, 4 Poles MCBs for the protection of circuits against overloads and short-circuits

Various applications: Residential, Houses, Offices...

Compliant IEC 60898-1

C curve suitable for standard applications

Schneider Electric MCB Breaking Capacity

Standard	Type	Voltage (VAC)	Icu (kA)
IEC 60898-1	1-4 Poles	230 / 240	6



Easy9 MCB 1P



Easy9 MCB 2P



Easy9 MCB 3P



Easy9 MCB 4P

Type	Icu (kA)	Rating In (A)	Reference
1P	6	6	EZ9F56106
	6	10	EZ9F56110
	6	16	EZ9F56116
	6	20	EZ9F56120
	6	25	EZ9F56125
	6	32	EZ9F56132
	6	40	EZ9F56140
	6	50	EZ9F56150
	6	63	EZ9F56163
2P	6	6	EZ9F56206
	6	10	EZ9F56210
	6	16	EZ9F56216
	6	20	EZ9F56220
	6	25	EZ9F56225
	6	32	EZ9F56232
	6	40	EZ9F56240
	6	50	EZ9F56250
	6	63	EZ9F56263
3P	6	6	EZ9F56306
	6	10	EZ9F56310
	6	16	EZ9F56316
	6	20	EZ9F56320
	6	25	EZ9F56325
	6	32	EZ9F56332
	6	40	EZ9F56340
	6	50	EZ9F56350
	6	63	EZ9F56363
4P	6	6	EZ9F56406
	6	10	EZ9F56410
	6	16	EZ9F56416
	6	20	EZ9F56420
	6	25	EZ9F56425
	6	32	EZ9F56432
	6	40	EZ9F56440
	6	50	EZ9F56450
	6	63	EZ9F56463

RCCB and RCBO for Earth Leakage Protection

2 & 4 poles RCCB & RCBO for earth leakage protection

Protection of people against electrical shocks with 30mA rating

Protection of buildings against Fire with 300mA RCCB rating

Compliant with IEC 61008 & IEC 61009

- RCCB = earth leakage protection only
- RCBO = earth leakage protection with overcurrent and short circuit

LSIS RCCB & RCBO Sensitivity

Standard	Type	Voltage (VAC)	Sensitivity
As IEC 61008	2 & 4 Poles	240 & 400	30, 100 & 300mA
As IEC 61009	1P+N	240	30, 100 & 300mA



RKN 2P



RKN 4P



RKP 1P+N

Type	Sensitivity	Rating In (A)	Reference
LSIS - RKN RCCB			
2P	30mA	25	RKN2P25A30mA
		40	RKN2P40A30mA
		63	RKN2P63A30mA
	100mA	25	RKN2P25A100mA
		40	RKN2P40A100mA
		63	RKN2P63A100mA
	300mA	25	RKN2P25A300mA
		40	RKN2P40A300mA
		63	RKN2P63A300mA
4P	30mA	25	RKN4P25A30mA
		40	RKN4P40A30mA
		63	RKN4P63A30mA
	100mA	25	RKN4P25A100mA
		40	RKN4P40A100mA
		63	RKN4P63A100mA
	300mA	25	RKN4P25A300mA
		40	RKN4P40A300mA
		63	RKN4P63A300mA

LSIS - RKP RCBO			
1P+N	30mA	10	RKP1PNC10A30mA
		16	RKP1PNC16A30mA
		20	RKP1PNC20A30mA
		32	RKP1PNC32A30mA
	100mA	10	RKP1PNC10A100mA
		16	RKP1PNC16A100mA
		20	RKP1PNC20A100mA
		32	RKP1PNC32A100mA
	300mA	10	RKP1PNC10A300mA
		16	RKP1PNC16A300mA
		20	RKP1PNC20A300mA
		32	RKP1PNC32A300mA

RCCB and RCBO for Earth Leakage Protection

2 & 4 poles RCCB & RCBO for earth leakage protection

Protection of people against electrical shocks with 30mA rating

Protection of buildings against Fire with 300mA RCCB rating

Compliant with IEC 61008-1 & BS EN 61009-1

* Easy9 : Residential, House, Office applications

* Acti9 : Industrial or public network applications

- RCCB = earth leakage protection only

- RCBO = earth leakage protection with overcurrent and short circuit

Schneider Electric RCCB & RCBO Sensitivity

Standard	Type	Voltage (VAC)	Sensitivity
IEC 61008-1	2 & 4 Poles	230 & 400	30, 100 & 300mA
BS EN 61009-1	1P+N	230	30mA



Easy9 RCCB 2P



Easy9 RCCB 4P



Acti9 RCCB 2P



Acti9 RCCB 4P



Easy9 RCBO 1P+N



Acti9 RCBO 1P+N

Type	Sensitivity	Rating In (A)	Reference
Schneider Electric - Easy9 RCCB			
2P	30mA	25	EZ9R33225
		40	EZ9R33240
		63	EZ9R33263
	300mA	25	EZ9R66225
		40	EZ9R66240
		63	EZ9R66263
4P	30mA	25	EZ9R36425
		40	EZ9R36440
		63	EZ9R36463
	300mA	25	EZ9R63425
		40	EZ9R63440
		63	EZ9R63463
Schneider Electric - Acti9 RCCB			
2P	30mA	25	A9R71225
		40	A9R71240
		63	A9R71263
	100mA	40	A9R12240
		63	A9R12263
		80	A9R12280
		100	A9R12291
	300mA	25	A9R74225
		40	A9R74240
		63	A9R74263
4P	30mA	25	A9R71425
		40	A9R71440
		63	A9R71463
	100mA	40	A9R12440
		63	A9R12463
		80	A9R12480
		100	A9R12491
	300mA	25	A9R74440
		40	A9R74463
		63	A9R14491
Schneider Electric - Easy9 RCBO			
1P+N	30mA	10	EZ9D34610
		16	EZ9D34616
		20	EZ9D34620
		25	EZ9D34625
		32	EZ9D34632
Schneider Electric - Acti9 RCBO			
1P+N	30mA	10	A9D31610
		16	A9D31616
		20	A9D31620
		25	A9D31625
		32	A9D31632

MCCB (Molded Case Circuit Breaker)

3 & 4 Poles MCCBs for the protection of circuits against overload and short-circuit

Nonadjustable thermal and magnetic protection

Application: line protection; motor/generator protection; starter combination

Compliant with IEC60947-1, IEC-60947-2, EN60947-1, EN60947-2, UL489, JIS

Certification: KEMA CB test certification, CE Declaration of conformity, UL, CCC

LSIS MCCB Breaking Capacity

Standard	Range	Voltage (VAC)	Icu (kA)
As IEC 947-2	ABN (50AF - 100AF)	380/415	14 & 18
As IEC 947-2	ABN (250AF)	380/415	26
As IEC 947-2	ABN (400AF)	380/415	37
As IEC 947-2	ABN (800AF)	380/415	37
As IEC 947-2	ABS (1200AF)	380/415	65
As IEC 947-3	TS (1600AF)	380/416	65

LSIS - MCCB

Breaking Capacity at 415V	Rating In (A)	Dimensions WxHxD (mm)	Reference	Dimensions WxHxD (mm)	Reference
ABN (50AF - 100AF)		3 Poles		4 Poles	
14 kA	15	75x130x60	ABN53c15A	100x130x60	ABN54c15A
	20	75x130x60	ABN53c20A	100x130x60	ABN54c20A
	30	75x130x60	ABN53c30A	100x130x60	ABN54c30A
	40	75x130x60	ABN53c40A	100x130x60	ABN54c40A
	50	75x130x60	ABN53c50A	100x130x60	ABN54c50A
	60	75x130x60	ABN63c60A	100x130x60	ABN64c60A
18 kA	75	75x130x60	ABN103c75A	100x130x60	ABN104c75A
	100	75x130x60	ABN103c100A	100x130x60	ABN104c100A
ABN (250AF)		3 Poles		4 Poles	
26 kA	125	105x165x60	ABN203c125A	140x165x60	ABN204c125A
	150	105x165x60	ABN203c150A	140x165x60	ABN204c150A
	175	105x165x60	ABN203c175A	140x165x60	ABN204c175A
	200	105x165x60	ABN203c200A	140x165x60	ABN204c200A
	225	105x165x60	ABN203c225A	140x165x60	ABN204c225A
	250	105x165x60	ABN203c250A	140x165x60	ABN204c250A
ABN (400AF)		3 Poles		4 Poles	
37 kA	250	140x257x109	ABN403c250A	187x257x113	ABN404c250A
	300	140x257x109	ABN403c300A	187x257x113	ABN404c300A
	400	140x257x109	ABN403c400A	187x257x113	ABN404c400A
ABN (800AF)		3 Poles		4 Poles	
37 kA	500	210x280x109	ABN803c500A	280x280x113	ABN804c500A
	630	210x280x109	ABN803c630A	280x280x113	ABN804c630A
	800	210x280x109	ABN803c800A	280x280x113	ABN804c800A
ABS (1200AF)		3 Poles		4 Poles	
65 kA	1000	210x400x105	ABS1003c1000A	280x400x105	ABS1004c1000A
	1200	210x400x105	ABS1203c1200A	280x400x105	ABS1204c1200A
TS (1600AF)		3 Poles		4 Poles	
65 kA	1600	210x350x142.5	TS1600NAG11600A		-



ABN103c



ABN203c



ABN403c



ABN803c

* For accessories such as shunt trips or auxiliary switches, please consult us.

MCCB (Molded Case Circuit Breaker)

3 & 4 poles MCCBs for the protection of circuits against overloads and short-circuits

Nonadjustable thermal and magnetic protection except Easycompact CVS and Compact NS are adjustable

Application: line protection; motor/generator protection; starter combination

Compliant with IEC-947-2, JIS C8201, NEMA AB1

Certification: KEMA CB test certification, CE declaration of conformity, UL, CCC, IEC

Schneider Electric - MCCB



Easycompact EVC



Easycompact CVS



Compact NS

Breaking Capacity at 415V	Rating In (A)	Dimensions HxWxD (mm)	Reference	Dimensions HxWxD (mm)	Reference
EasyPact EVC - 100F, 100N		3 Poles 10 kA		3 Poles 15 kA	
	25	130x75x60	EVC100F3025	130x75x60	EVC100N3025
	30	130x75x60	EVC100F3030	130x75x60	EVC100N3030
	40	130x75x60	EVC100F3040	130x75x60	EVC100N3040
	50	130x75x60	EVC100F3050	130x75x60	EVC100N3050
	60	130x75x60	EVC100F3060	130x75x60	EVC100N3060
	80	130x75x60	EVC100F3080	130x75x60	EVC100N3080
	100	130x75x60	EVC100F3100	130x75x60	EVC100N3100
EasyPact CVS - 160B		3 Poles		4 Poles	
25 kA	100	161x105x86	LV516301	161x140x86	LV516311
	125	161x105x86	LV516302	161x140x86	LV516312
	160	161x105x86	LV516303	161x140x86	LV516313
EasyPact CVS - 250B		3 Poles		4 Poles	
25 kA	200	161x105x86	LV525302	161x140x86	LV525312
	250	161x105x86	LV525303	161x140x86	LV525313
EasyPact CVS - 400F		3 Poles		4 Poles	
36 kA	320	255x140x110	LV540305	255x185x110	LV540308
	400	255x140x110	LV540306	255x185x110	LV540309
EasyPact CVS - 630F		3 Poles		4 Poles	
36 kA	500	255x140x110	LV563305	255x185x110	LV563308
	600	255x140x110	LV563306	255x185x110	LV563309
Compact NS - 800N to		3 Poles		4 Poles	
50 kA	800	327x210x147	NS080N3M2	327x280x147	NS080N4M2
	1000	327x210x147	NS100N3M2	327x280x147	NS100N4M2
	1250	327x210x147	NS125N3M2	327x280x147	NS125N4M2
	1600	327x210x147	NS160N3M2	327x280x147	NS160N4M2

Schneider Electric - MCCB Accessories



Earth leakage protection



Auxiliaries

Type of breaker	Type	Sensitivity(A)	Pole	Reference
Vigi module (Earth leakage protection) for CVS and NSX				
100/160	MH	0.03 - 10	3P	LV429210
			4P	LV429211
250	MH	0.03 - 10	3P	LV431535
			4P	LV431536
400/630	MB	0.3 - 30	3P	LV432455
			4P	LV432456
Electrical auxiliaries for CVS and NSX				
Shunt trip (MX)		AC 50/60Hz		LV429387
		DC		LV429390
Under Voltage		AC 50/60Hz		LV429407
		DC		LV429410
Compact NSX and CVS Accessories - Rotary handle & locks				
Rotary handle	Direct rotary handle			LV429337
	Extended rotary handles			LV429338
	Extended rotary handles with telescopic handle			LV429343
Lock	Toggle locking device for 1 to 3 padlock (removable)			29370
	Toggle locking device for 1 to 3 padlock (Fix)			LV429371

* For any other ratings, please consult for stock availability

ACB (Air Circuit Breaker)

Fixed type 3 & 4 poles ACBs for the protection of circuits against overloads and short-circuits

Metasol Type AN & AS, available from 630 to 6300A

Rated voltage : Ue=690V, 50/60Hz

Rated insulation: Ui=1000V

Impulse withstand voltage: Uimp=12kV

Metasol ACB include:

- Rear connection
- Motorized mechanism
- Closing & Opening Coil
- Trip Relay (AG5) with ON & OFF protection
- Auxiliary contact (BX)
- LED display

Compliant with IEC-60947-2

LSIS - ACB METASOL Series



Metasol ACB Fixed Type

Icu kA (440 VAC)	Rating In (A)	Dimensions HxWxD (mm)	Reference
Fixed Type ACB with Standard Configuration including N Type Standard Trip Relay			
3 Poles			
65kA	630	300x300x295	ANi06D3i06HM2D2D2
	800	300x300x295	ANi08D3i08HM2D2D2
	1000	300x300x295	ANi10D3i10HM2D2D2
	1250	300x300x295	ANi13D3i13HM2D2D2
	1600	300x300x295	ANi16D3i16HM2D2D2
85kA	2000	300x378x295	ASi20E3i20HM2D2D2
	2500	300x378x295	ASi25E3i25HM2D2D2
	3200	300x378x295	ASi32E3i32HM2D2D2
	4000	300x378x295	ASi40E3i40HM2D2D2
100kA	5000	300x597x295	ASi50F3i50HM2D2D2
120kA	6300	300x751x295	ASi63G3i63HM2D2D2
4 Poles			
65kA	630	300x385x295	ANi06D4i06HM2D2D2
	800	300x385x295	ANi08D4i08HM2D2D2
	1000	300x385x295	ANi10D4i10HM2D2D2
	1250	300x385x295	ANi13D4i13HM2D2D2
	1600	300x385x295	ANi16D4i16HM2D2D2
85kA	2000	300x493x295	ASi20E4i20HM2D2D2
	2500	300x493x295	ASi25E4i25HM2D2D2
	3200	300x493x295	ASi32E4i32HM2D2D2
	4000	300x493x295	ASi40E4i40HM2D2D2
100kA	5000	300x767x295	ASi50F4i50HM2D2D2
120kA	6300	300x981x295	ASi63G4i63HM2D2D2

*** Horizontal busbar connection arrangement is our standard. Please consult us if any other requirements for busbar rear connection.**

LSIS - ACB Accessories & Auxiliary

Description	Types	Reference
Options included		
Closing Coil		CC
Motor Mechanism		M
Trip Relay A Type with LCD Screen	L/S/I/G	AG5
Options not included (Item separately)		
Shunt trip Coil		SHT1
Under voltage Trip device		UVT
UVT Time delay controller AC 380~480V	-	UDCiAC380i480V
Trip Relay N Type Overload / Short-circuit	L/S/I/G	NG5

ACB (Air Circuit Breaker)

Fixed type 3 & 4 poles ACBs for the protection of circuits against overloads and short-circuits

Easypact MVS Type N & H, available from 800 to 4000A

Rated voltage: $U_e=690V$, 50/60Hz

Rated insulation: $U_i=1000V$

Impulse withstand voltage: $U_{imp}=12kV$

Easypact MVS ACB include:

- Rear connection
- Micrologic 2.0A
- 4 indication contact OF
- 1 fault indication contact SDE

Compliant with IEC 947-2, $I_{cs} = I_{cu} = I_{cw} @ 1s$

Schneider Electric - ACB EasyPact MVS



Easypact MVS

Icu kA (440 VAC)	Rating In (A)	Dimensions HxWxD (mm)	Reference
Fixed Type ACB Easypact MVS, Type N, $I_{cu}=I_{cs}=I_{cw}=50kA/440VAC$			
3 Poles			
50 kA	2000	352x422x297	MVS20N3MF2L
	2500	352x422x297	MVS25N3MF2L
	3200	352x422x297	MVS32N3MF2L
55 kA	4000	352x422x297	MVS40N3MF2L
4 Poles			
50kA	2000	352x537x297	MVS20N4MF2L
	2500	352x537x297	MVS25N4MF2L
	3200	352x537x297	MVS32N4MF2L
55 kA	4000	352x537x297	MVS40N4MF2L
Fixed Type ACB Easypact MVS, Type H, $I_{cu}=I_{cs}=I_{cw}=65kA/440VAC$			
3 Poles			
65 kA	2000	352x422x297	MVS20H3MF2L
	2500	352x422x297	MVS25H3MF2L
	3200	352x422x297	MVS32H3MF2L
	4000	352x422x297	MVS40H3MF2L
4 Poles			
65kA	2000	352x537x297	MVS20H4MF2L
	2500	352x537x297	MVS25H4MF2L
	3200	352x537x297	MVS32H4MF2L
	4000	352x537x297	MVS40H4MF2L

Auxiliaries for remote operation



Description	Voltage	Reference
Electrical auxiliaries for Easypact MVS Fixed Type		
Motor mechanism (MCH) AC 50/60 Hz	200/240 V	47894
	380/415 V	47896
	24/30 V	47888
Closing release (XF) AC 50/60 Hz	24/30 V DC, 24 V AC	33659
	200/250 V AC/DC	MVS15512
	380/480 V AC	MVS15513
Opening release (MX) AC 50/60 Hz	100/130 V AC/DC	33661
	200/250 V AC/DC	33662
	380/480 V AC	33664
Undervoltage Trip (MN) AC 50/60 Hz	24/30 V DC, 24 V AC	33668
	200/250 V AC/DC	33671
	380/480 V AC	33673

Compact Substation and Power Transformer

EDS - Compact Substation

The compact substation is divided into 3 compartments (Medium Voltage Switchgear, Transformer, Low Voltage Switchgear) for easy connection to the grid, ensuring continues operations and easy maintenance. Enclosures are made of mild steel sheets and electrostatic powder coated to resist ultraviolet (UV) Degree of protection: IP 43 and natural cooling system for outdoor use.

LSIS - Power Transformer

The CRT (Cast Resin Transformers) has its windings taken in epoxy resin rather than in oil bath (EDC uses typically ONAN: Oil Natural Air Natural transformers). Those transformers simplify installation since they are dry, without cooling oil, and so require no fire-proof vault for indoor installations, or oil retainer tank. The epoxy protects the windings from dust and corrosive atmospheres. Besides, it is a maintenance free product at the opposite of the oil transformer, which requires regular oil quality control and renewal. It is available with both copper and aluminum windings, this second version being extremely cost efficient keeping the same performances than a copper transformer (either dry or oil type). IEC : 60076-11 (2004)

EDS - Compact Substation



Power Capacity (kVA)	Dimensions WxHxD (mm)	Reference
160-250	2200x2800x1600	EDSMVSS001
320-630	2200x3000x2000	EDSMVSS002
750-1000	2500x3500x2400	EDSMVSS003
1250-1500	2500x3900x2400	EDSMVSS004

LSIS - Power Transformer



Power Capacity (kVA)	Impedance Voltage (%)	No Load Loss (W)	Load Loss (W)	Efficiency (%)			Dimensions WxHxD (mm)	Reference
				100% Load	75% Load	50% Load		
Dry Transformer: Cast Resin Transformer (Aluminum and Copper) 22/0.4kV								
400	6	1200	5500	98.3	98.5	98.7	1360x1500x840	MVCRT0400ALCO22
630	6	1650	7800	98.5	98.7	98.8	1450x1670x905	MVCRT0630ALCO22
1000	6	2300	11000	98.6	98.8	99	1675x1810x1000	MVCRT1000ALCO22
1250	6	2850	13000	98.7	98.9	99	1750x1860x1010	MVCRT1250ALCO22
1600	7	3100	16000	98.8	99	99.1	1810x2060x1200	MVCRT1600ALCO22
2000	7.5	4050	17500	98.9	99	99.1	1950x2120x1200	MVCRT2000ALCO22
2500	7.5	5000	21000	98.9	99.1	99.1	2155x2190x1200	MVCRT2500ALCO22
3150	7.5	6500	22000	99.1	99.2	99.2	2305x2250x1215	MVCRT3150ALCO22
Dry Transformer: Cast Resin Transformer (Aluminum and Aluminum) 22/0.4kV								
400	6	1200	5500	98.3	98.5	98.7	1360x1500x840	MVCRT0400ALAL22
630	6	1650	7800	98.5	98.7	98.8	1450x1670x905	MVCRT0630ALAL22
1000	6	2300	11000	98.6	98.8	99	1675x1810x1000	MVCRT1000ALAL22
1250	6	2850	13000	98.7	98.9	99	1750x1860x1010	MVCRT1250ALAL22
1600	7	3100	16000	98.8	99	99.1	1810x2060x1200	MVCRT1600ALAL22
2000	7.5	4050	17500	98.9	99	99.1	1950x2120x1200	MVCRT2000ALAL22
2500	7.5	5000	21000	98.9	99.1	99.1	2155x2190x1200	MVCRT2500ALAL22
3150	7.5	6500	22000	99.1	99.2	99.2	2305x2250x1215	MVCRT3150ALAL22

* Enclosure available as an option

Metal Enclosure

Material: cold rolled steel with powder coating finish 100 (µm)

Compliant with IEC 60439

Degree of protection: IP 31, 42, 43, 54 and IP 55 (EPDM Gasket)

Enclosures come with cable entry plates or cable glands for bottom

Color: standard RAL 7032 rough type, indoor

Lockable door

Drawing holder

DIN rail equipment for components

	Wall Mounting	Dimensions HxWxD (mm)	Number of Row	Number of Module(18mm)	Reference			
					IP 43 Indoor	IP 55 Outdoor		
 Enclosure for control	Control	450x350x200	-	-	MEICT453520	MEOCT453520		
		300x500x200	-	-	MEICT305020	MEOCT305020		
		600x400x170	-	-	MEICT604017	MEOCT604017		
		600x400x200	-	-	MEICT604020	MEOCT604020		
		600x400x400	-	-	MEICT604040	MEOCT604040		
		700x500x170	-	-	MEICT705017	MEOCT705017		
		700x500x200	-	-	MEICT705020	MEOCT705020		
		800x600x250	-	-	MEICT806025	MEOCT806025		
		800x600x400	-	-	MEICT806040	MEOCT806040		
		1000x600x250	-	-	MEICT1006025	MEOCT1006025		
		1000x600x400	-	-	MEICT1006040	MEOCT1006040		
		1200x800x250	-	-	MEICT1208025	MEOCT1208025		
 Metal Enclosure for MCB	MCB	450x350x200	2	10	MEIMCB453520	MEOMCB453520		
		300x500x200	1	18	MEIMCB305020	MEOMCB305020		
		600x400x170	3	12	MEIMCB604017	MEOMCB604017		
		600x400x200	3	12	MEIMCB604020	MEOMCB604020		
		700x500x170	4	18	MEIMCB705017	MEOMCB705017		
		800x600x250	4	24	MEIMCB806025	MEOMCB806025		
		1000x600x250	5	24	MEIMCB1006025	MEOMCB1006025		
		1200x800x250	6	36	MEIMCB1208025	MEOMCB1208025		
		 Metal Enclosure for MCCB + MCB without cover plate	MCCB + MCB	600x400x200	-	-	MEIMCCB604020	MEOMCCB604020
				700x500x200	-	-	MEIMCCB705020	MEOMCCB705020
				800x600x250	-	-	MEIMCCB806025	MEOMCCB806025
				1000x600x250	-	-	MEIMCCB1006025	MEOMCCB1006025
1200x800x250	-			-	MEIMCCB1208025	MEOMCCB1208025		
 Metal enclosure for MCCB + MCB with cover plates				600x400x200	-	-	MEIMCCB604020	MEOMCCB604020
		700x500x200	-	-	MEIMCCB705020	MEOMCCB705020		
		800x600x250	-	-	MEIMCCB806025	MEOMCCB806025		
		1000x600x250	-	-	MEIMCCB1006025	MEOMCCB1006025		
		1200x800x250	-	-	MEIMCCB1208025	MEOMCCB1208025		

* Cover plates are available for MCB and MCB+MCCB type, please consult us for more details.

Sunrise Enclosure and Accessories

Enclosure come with cable entry plate Top/Bottom with door opening secured

Protection Degree : IP31

Usage : Electrical distribution and control

Type/ Color : Powder coating finish 100 (μm) / RAL7032

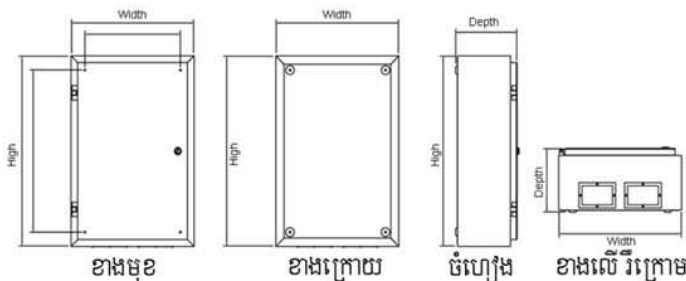
EDS Accessories and spare parts are available in stock

EDS - Sunrise Enclosure



Sunrise Enclosure

Dimension HxWxD (mm)	Reference
300x250x130	EDS302513
450x300x130	EDS453013
600x400x200	EDS604020
700x500x200	EDS705020



EDS - Sunrise Enclosure Accessories



EDSEK015



EDSMK100



EDSEN12P



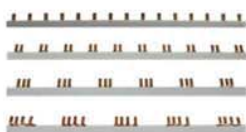
Cable gland



Isolator



EDSNB120



1 Comb 1, 2, 3 and 4 poles



Distribution block

Description	Qty	Unit	Reference
EDS - Installation Kits			
Earth kit 1.5mm2	1	Kit	EDSEK015
MCB Mounting kit (Din Rail 8 x 35mm: 100cm and screws)	1	Kit	EDSMK100
Earth / Neutral Kit 12 Holes	1	Kit	EDSEN12P
Earth / Neutral Kit 24 Holes	1	Kit	EDSEN24P
EDS - Connection Accessories			
Cable gland Ø 4.5 - 7	10	Pc	EDSPG090
Cable gland Ø 9 - 13	10	Pc	EDSPG135
Cable gland Ø 10 - 14	10	Pc	EDSPG160
Cable gland Ø 14 - 18	10	Pc	EDSPG210
Cable gland Ø 18 - 25	10	Pc	EDSPG290
Cable gland Ø 27 - 33	10	Pc	EDSPG360
Isolator Ø 25	20	Pc	EDSBI025
Isolator Ø 35	10	Pc	EDSBI035
Isolator Ø 51	10	Pc	EDSBI051
Isolator Ø 76	10	Pc	EDSBI076
Neutral / Earth / Phase bar 25 up to 200A	1	Pc	EDSNB120
EDS - Comb Busbar			
1 Comb 1Pole, 1 m (56 Poles)	1	Length	EDSCBB1P
1 Comb 2Pole, 1 m (56 Poles)	1	Length	EDSCBB2P
1 Comb 3Pole, 1 m (54 Poles)	1	Length	EDSCBB3P
1 Comb 4Pole, 1 m (56 Poles)	1	Length	EDSCBB4P
EDS - Distribution Block			
Distribution block 125A 9 holes	1	Pc	EDSDB080
Distribution block 125A 13 holes	1	Pc	EDSDB125

Power Transfer Switches



MTS (Manual Transfer Switch)

3 & 4 poles manual transfer switches (MTS)

Provide changeover, source inversion or switching under load between 2 low voltage power source

Compliant with IEC 60947-3

Socomec - MTS

Type	Pole	Description	Reference
Como Manual Transfer Switch from 25A to 63A			
Como C 40A	3P	MTS including Direct Handle	42303004
Como C 25A	4P	MTS including Direct Handle	42304002
Como C 40A	4P	MTS including Direct Handle	42304004
Como C 63A	4P	MTS including Direct Handle	42304006
Como C 100A	4P	MTS including Direct Handle	42304010
Sirco VM1 Manual Transfer Switch from 63A to 100A			
VM1 63A	4P	MTS including Direct Handle	44304006
VM1 80A	4P	MTS including Direct Handle	44304008
VM1 100A	4P	MTS including Direct Handle	44304010
VM1 125A	4P	MTS including Direct Handle	44304012
Sircover Manual Transfer Switch from 125A to 3200A			
Sircover 125A	4P	MTS including Direct Handle	41AC4013
Sircover 160A	4P	MTS including Direct Handle	41AC4016
Sircover 200A	4P	MTS including Direct Handle	41AC4020
Sircover 250A	4P	MTS including Direct Handle	41AC4025
Sircover 400A	4P	MTS including Direct Handle	41AC4040
Sircover 500A	4P	MTS including Direct Handle	41AC4050
Sircover 630A	4P	MTS including Direct Handle	41AC4063
Sircover 800A	4P	MTS including Direct Handle	41AC4080
Sircover 1250A	4P	MTS including Direct Handle	41AC4120
Sircover 1600A	4P	MTS including Direct Handle	41AC4160
Sircover 2000A	4P	MTS including Direct Handle	41AC4200
Sircover 2500A	4P	MTS including Direct Handle	41AC4250
Sircover 3200A	4P	MTS including Direct Handle	41AC4320

* SircoVM1 and Sircover manual transfer switches include direct operation handle

Socomec - Spare Handles

Type	Position	Description	Reference
Direct Handle			
Como 25 to 40A	I - 0 - II	Direct Operation Handle Red/Yellow	42591043
Como 63 to 100A	I - 0 - II	Direct Operation Handle Red/Yellow	42591083
Sirco VM1	I - 0 - II	Direct Operation Handle Black	44395012
Sircover up to 630A	I - 0 - II	Direct Operation Handle Black	41995012
Sircover 800 to 1800A	I - 0 - II	Direct Operation Handle Black	27997052
Sircover 2000 to 3200A	I - 0 - II	Direct Operation Handle Black	27997012
External Handle			
SircoVM1	I - 0 - II	Door interlocked external front handle - IP55	14112113
SircoVM1	I - 0 - II	Door interlocked external front handle - IP55	14132113
Shaft Extension	I - 0 - II	Shaft Extension for VM1 63-125A	14020820
Sircover up to 630A	I - 0 - II	Door interlocked external handle S2 - IP55	14212113
Shaft Extension	I - 0 - II	Shaft Extension for Sircover 125-630, 200mm	14001020
Sircover up to 800A	I - 0 - II	Door interlocked external handle S2 - IP55	14232113
Shaft Extension	I - 0 - II	Shaft Extension for Sircover 125-630, 320mm	14001032
Sircover 800 to 1800A	I - 0 - II	Door interlocked external handle S4 - IP65	14433113
Shaft Extension	I - 0 - II	Shaft Extension for Sircover 800-1800	14011532
Sircover 2000 to 3200A	I - 0 - II	Door interlocked external handle - IP65	27997146
Shaft Extension	I - 0 - II	Shaft Extension for Sircover 2000-3200	27993018



Direct Handle
Como



Direct Handle
Sirco



Direct Handle
Sircover



Direct Handle
Sircover 2000...3200A



Shaft Extension



VM1 - type Handle



S2-type Handle



S3-type Handle



S4-type Handle

ATS (Automatic Transfer Switch)

2 poles & 4 poles automatic/motorized transfer switches (ATS)

Provide changeover, source inversion or switching under load between 2 low voltage power Source

- Isolation with positive break Indication
- Electrical control by volt free dry contact
- Manual emergency operation with handle (included)
- Padlocking in 0 position for the maintenance safety
- 1 power supply included

Compliant with IEC 60947-3

Socomec - ATyS S & ATyS r



AtyS S



AtyS r

Type	Pole	Description	Reference
ATyS S Three phase Transfer Switching Equipment from 40A to 125A			
ATyS S 40A	4 Poles	Motorized Transfer Switch	95034004
ATyS S 63A	4 Poles	Motorized Transfer Switch	95034006
ATyS S 80A	4 Poles	Motorized Transfer Switch	95034008
ATyS S 100A	4 Poles	Motorized Transfer Switch	95034010
ATyS S 125A	4 Poles	Motorized Transfer Switch	95034012
ATyS r Three phase Transfer Switching Equipment from 160A to 3200A			
ATyS r 160A	4 Poles	Motorized Transfer Switch	95234016
ATyS r 250A	4 Poles	Motorized Transfer Switch	95234025
ATyS r 400A	4 Poles	Motorized Transfer Switch	95234040
ATyS r 630A	4 Poles	Motorized Transfer Switch	95234063
ATyS r 800A	4 Poles	Motorized Transfer Switch	95234080
ATyS r 1000A	4 Poles	Motorized Transfer Switch	95234100
ATyS r 1250A	4 Poles	Motorized Transfer Switch	95234120
ATyS r 1600A	4 Poles	Motorized Transfer Switch	95234160
ATyS r 2000A	4 Poles	Motorized Transfer Switch	95234200
ATyS r 2500A	4 Poles	Motorized Transfer Switch	95234250
ATyS r 3200A	4 Poles	Motorized Transfer Switch	95234320

* Need to add the ATS Controller (ref: EDSiATSCE)

ATS Controller



Lovato ATS Controller



EDS ATS Controller

Type	Description	Reference
Lovato - ATS Controller		
Lovato 600	Automatic transfer switch controller	ATL600
Lovato 610	Automatic transfer switch controller	ATL610
Expansion modules	Opto-isolated RS485 interface	EXP1012
Communication ports	IP65 gasket seal for internal display frame	EXP8001
EDS - ATS Controller		
EDS ATS Controller	Automatic transfer switch controller	EDSiATSCE

LBS (Load Break Switch)

3 & 4 poles load break switch with accessories

Mainly used for breaking & isolating LV panels from the power source

- On load circuit opening and closing
- Disconnection providing indication and isolation
- All forms of rotary and toggle operations on Sirco M (Frontal/Lateral/Extended)
- Padlocking for maintenance safety
- Modular concept for a maximum flexibility
- From 16A to 160 A

Compliant with IEC 60947-3

Socomec - Toggle Switch Sirco M



Sirco M Toggle Switch

Rating In (A)	Type	Pole	Description	Reference
3P Sirco M Toggle Isolator Switch 16A to 80A				
16 A	M1	3P	Toggle Switch	22053000
20 A	M1	3P	Toggle Switch	22053001
25 A	M1	3P	Toggle Switch	22053002
32 A	M1	3P	Toggle Switch	22053003
40 A	M1	3P	Toggle Switch	22053004
63 A	M2	3P	Toggle Switch	22053006
80 A	M2	3P	Toggle Switch	22053008

Socomec - Rotary Switch Sirco M



Sirco M Rotary Switch

Rating	Type	Pole	Description	Reference
3P Sirco M Rotary Isolator Switch 16A to 160A				
16 A	M1	3P	Rotary Switch	22003000
20 A	M1	3P	Rotary Switch	22003001
25 A	M1	3P	Rotary Switch	22003002
32 A	M1	3P	Rotary Switch	22003003
40 A	M1	3P	Rotary Switch	22003004
63 A	M2	3P	Rotary Switch	22003006
80 A	M2	3P	Rotary Switch	22003008
100 A	M3	3P	Rotary Switch	22003010
100 A	MV	3P	Rotary Switch	22003110
125 A	M3	3P	Rotary Switch	22003011
125 A	MV	3P	Rotary Switch	22003012
160 A	MV	3P	Rotary Switch	22003016



Phase pole

4P Sirco M Rotary Isolator Switch 100A to 160A				
100 A	MV	4P	Rotary Switch	22004110
125 A	MV	4P	Rotary Switch	22004012
160 A	MV	4P	Rotary Switch	22004016

Additional Poles

16 A	M1	Phase	1 Extra pole	22001000
20 A	M1	Phase	1 Extra pole	22001001
25 A	M1	Phase	1 Extra pole	22001002
32 A	M1	Phase	1 Extra pole	22001003
40 A	M1	Phase	1 Extra pole	22001004
63 A	M2	Phase	1 Extra pole	22001006
80 A	M2	Phase	1 Extra pole	22001008
100 A	M3	Phase	1 Extra pole	22001010
125 A	M3	Phase	1 Extra pole	22001011

Additional Neutral Poles 16A ... 80A

16...40 A	M1	Neutral	Neutral protection	22009005
63...80 A	M2	Neutral	Neutral protection	22009009
100...125 A	M3	Neutral	Neutral protection	22009011

**For any special accessory such as extension shafts or enclosed solutions, please consult us for more details.*

**** Add one or two additional poles and transform :**

- 3 poles SIRCO M into a 4 poles

- 6 poles SIRCO M into a 8 poles

*****Additional poles can be mounted directly on either the left or the right side of the switch.**



Neutral pole

Accessories - Handles for Sirco M, Sircover M and Sirco MV



Direct Handle



External and front Handle

Handle	Type	IP	Rating In (A)	Reference
Direct handle				
M00-type	Sirco M / Sircover M	-	16 ... 80	22995012
External Handle Load Break Switch front right side operation I - 0				
S00	M1 / M2	IP55		14715111
S00-type	Sirco M	IP55	16 ... 80	14711111
S00	M1 / M2	IP55		14735111
S00-type	Sirco M	IP65	16 ... 80	14731111
S0	M3	IP55		14815111
S0-type	Sirco M	IP55	100 ... 125	14811111
S0	M3	IP65		14835111
S0-type	Sirco M	IP65	100 ... 125	14831111
S0	MV	IP55		14919111
S0-type	Sirco MV	IP55	100 ... 160	14910111
S0	MV	IP65		14939111
S0-type	Sirco MV	IP65	100 ... 160	14930111
External Handle Load Break Switch front left side operation I - 0				
S00-type	Sirco M	IP65	16 ... 80	147A5111
S0-type	Sirco M	IP65	100 ... 125	148A5111
S0-type	Sirco M	IP65	100 ... 125	148B5111
External Handle Changeover Switch Front operation I - 0 - II/I - I+II - II				
S00-type	Sircover M I - 0 - II	IP65	16 ... 80	14731113
S00-type	Sircover M I - I+II - II	IP65	16 ... 80	14731114

**The rotary handle can be installed either on the left or the right side*

Accessories - Sirco M



Door mounting



External operation shaft



Escutcheon



Aux. contacts

Type	Description	No. of Pole	Rating In (A)	Reference
Door Mounting				
Sirco M	Complete protection IP2X	3/4 P	16 ... 80	22993309
External Operation Shaft				
	Shaft length (mm)	Handle		
Sirco M / Sircover M	150	S00-type	16 ... 125	14070515
Sirco M / Sircover M	200	S00-type	16 ... 125	14070520
Sirco M / Sircover M	320	S00-type	16 ... 125	14070532
Sirco MV	150	S0-type	100 ... 160	14090615
Sirco MV	200	S0-type	100 ... 160	14090620
Sirco MV	320	S0-type	100 ... 160	14090632
Sirco MV	200	S1-type	100 ... 160	14010620
Sirco MV	320	S1-type	100 ... 160	14010632
Sirco MV	400	S1-type	100 ... 160	14010640
Escutcheon				
Sirco M	6/8 pole load break switches		16 ... 80	22696009
Sircover M	changeover switches (I - 0 - II)		16 ... 80	22096009
Sircover M	changeover switches (I - I+II - II)		16 ... 80	22996009
Auxiliary Contacts M type/ U type				
Sirco M / Sircover M	2 NO AC - M type		16 ... 125	22990011
Sirco MV	1 NO AC - U type		100 ... 160	39990701
Sirco MV	1 NC AC - U type		100 ... 160	39990702
M1...MV	1 CA 10			

**Auxiliary contacts can be mounted on the left or on the right side of the device, Maximum 4 auxiliary contacts.*

ATS and MTS Panel

Automatic Transfer Switch Panel

Range: from 63 to 3200A

ATS: Socomec 4P ATyS and ATyS S range

ATS/MTS Panel : transfer switch between 2 sources (EDC - Genset)

Incoming cables through the top or bottom

Outgoing through the top or bottom

IP41

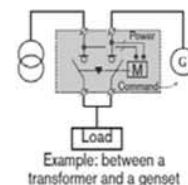
Compact design

Mechanically interlocked switching

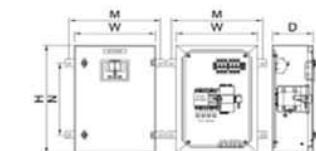
Manual Transfer Switch Panel

Range: from 63 to 3200A

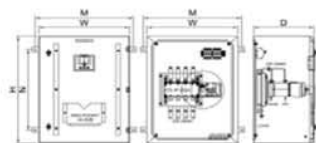
MTS: Socomec 4P Sircover range



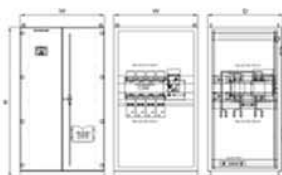
2 Sources Automatic Transfer Switches (ATS) Panel



ATS Panel 63A



ATS Panel 250A

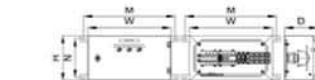


ATS Panel 2500A

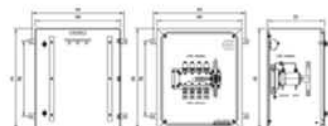
In (A)	Dimensions (mm)					Reference
	H	W	D	M	N	
Wall Mounting ATS Panel						
63	600	400	200	450	400	ATSP0063TB
80	600	400	200	450	400	ATSP0080TB
125	600	400	200	450	400	ATSP0125TB
160	800	600	400	650	600	ATSP0160BT
160	800	600	400	650	600	ATSP0160BB
200	800	600	400	650	600	ATSP0200BB
200	800	600	400	650	600	ATSP0200BT
250	800	600	400	650	600	ATSP0250BB
400	800	600	400	650	600	ATSP0400BB
Floor Standing ATS Panel						
630	1600	800	600	x	x	ATSP0630BB
800	1600	800	600	x	x	ATSP0800BT
800	1800	800	800	x	x	ATSP0800BB
1000	1800	800	800	x	x	ATSP1000BB
1250	1800	800	800	x	x	ATSP1250BB
1600	2000	1000	800	x	x	ATSP1600BB
2000	2000	1000	900	x	x	ATSP2000BB
2500	2000	1000	900	x	x	ATSP2500BB
3200	2000	1000	900	x	x	ATSP3200BB

* ...BT : Incoming cables through the bottom and Outgoing through the top

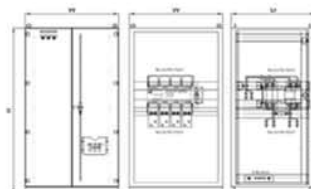
2 Sources Manual Transfer Switch (MTS) Panel



MTS Panel 63A



MTS Panel 400A



MTS Panel 2500A

In (A)	Dimensions (mm)					Reference
	H	W	D	M	N	
Wall Mounting MTS Panel						
63	300	500	200	550	260	MTSP0063BB
80	300	500	200	550	260	MTSP0080BB
100	300	500	200	550	260	MTSP0100BB
125	800	600	250	850	600	MTSP0125BT
125	800	600	250	850	600	MTSP0125BB
160	800	600	250	850	600	MTSP0160BT
160	800	600	250	850	600	MTSP0160BB
200	800	600	250	850	600	MTSP0200BT
200	800	600	250	850	600	MTSP0200BB
250	800	600	250	650	600	MTSP0200BT
400	800	600	400	650	600	MTSP0400BB
630	800	600	400	650	600	MTSP0630BB
Floor Standing MTS Panel						
800	1600	800	600	x	x	MTSP0800BB
1000	1600	800	600	x	x	MTSP1000BB
1250	1600	800	600	x	x	MTSP1250BB
1600	2000	1000	800	x	x	MTSP1600BB
2000	2000	1000	900	x	x	MTSP2000BB
2500	2000	1000	900	x	x	MTSP2500BB
3200	2000	1000	900	x	x	MTSP3200BB

Automation and Control



Contactor and Accessories

3 & 4 poles contactors for motor control up to 440kW at 220V, in AC-3 category

- Finger proof terminals
- DIN rail or screw fixing
- Built in auxiliary contacts
- Front/side mountable accessories available
- Direct mountable overload relays available

Compliant with IEC 60947-4

LSIS - Contactors 3 & 4 Poles



MC22b



MC40a



MC100a

Power Rating	Rating In AC-3 (A)	Built in Aux-Contact	Reference	
Contactors with AC Coil 220V			3 Poles	4 Poles
3kW	6A	1NO or 1NC	MC6a3P230VA56z1a	MC6a4P230VA56z
4kW	9A	1NO+1NC	MC9b3P230VA56z1a1b	MC9a4P230VA56z
5.5kW	12A	1NO+1NC	MC12b3P230VA56z1a1b	MC12a4P230VA56z
7.5kW	18A	1NO+1NC	MC18b3P230VA56z1a1b	MC18a4P230VA56z
11kW	22A	1NO+1NC	MC22b3P230VA56z1a1b	MC22a4P230VA56z
15kW	32A	2NO+2NC	MC32a3P230VA56z1a1b	MC32a4P230VA56z
18.5kW	40A	2NO+2NC	MC40a3P230VA56z1a1b	MC40a4P230VA56z
22kW	50A	2NO+2NC	MC50a3P230VA56z1a1b	MC50a4P230VA56z
30kW	65A	2NO+2NC	MC65a3P230VA56z1a1b	MC65a4P230VA56z
37kW	75A	2NO+2NC	MC75a3P230VA56z1a1b	MC75a4P230VA56z
45kW	85A	2NO+2NC	MC85a3P230VA56z1a1b	MC85a4P230VA56z
55kW	100A	2NO+2NC	MC100a3P230VA56z1a1b	MC100a4P120VH56z2a2b
60kW	130A	2NO+2NC	MC130a3P220VA56z1a1b	MC130a4P120VH56z2a2b
75kW	150A	2NO+2NC	MC150a3P220VA56z1a1b	MC150a4P120VH56z2a2b
90kW	185A	2NO+2NC	MC185a3P120VH56z2a2b	MC185a4P120VH56z2a2b
132kW	265A	2NO+2NC	MC265a3P120VH56z2a2b	MC265a4P120VH56z2a2b
160kW	330A	2NO+2NC	MC330a3P120VH56z2a2b	MC330a4P120VH56z2a2b
220kW	400A	2NO+2NC	MC400a3P120VH56z2a2b	MC400a4P120VH56z2a2b
330kW	630A	2NO+2NC	MC630a3P200VH56z2a2b	MC630a4P200VH56z2a2b
440kW	800A	2NO+2NC	MC800a3P200VH56z2a2b	MC800a4P200VH56z2a2b

LSIS - Contactor Accessories



UA-1 UA-2 UA-4



AU-100 Mechanical



Surge absorber ACi9

Applying Contactors	Description	Type	Reference
Auxiliary Contact Poles / mounting type / composition			
MC-6a~150a	2P for side mount (1NO+1NC)	UA-1	UA1i1A1B
MC-6a~150a	2P for front mount (1NO+1NC)	UA-2	UA2i2A
MC 6a~150a	4P for front mount (2NO+2NC)	UA-4	UA4i2A2B
MC 185a~800a	2P for side mount (1NO+1NC)	AU-100	AU100i1A1B
Mechanical Interlock			
MC 185a~400a	Mechanical interlock	AR-180	ARi180
MC 500a~800a	Mechanical interlock	AR-600	ARi600
Surge Absorber Operating Voltage			
MC 6a~150a	AC200~240V	US-3	USi3
MC 6a~150a	AC/DC 200~240V	US-13	USi13
Capacitor Contact Max. Operating power (kVAR) (400~440V)			
MC 6a~40a	9.7/12.5/16.7/18/25/33.3	AC-9	ACi9
MC 50a~100a	40/45.7/54/60	AC-50	ACi50

Contactor and Accessories

3 & 4 poles contactors for motor control up to 75kW at 400V, in AC-3 category

- Finger proof design
- DIN rail or screw fixing
- Built in auxiliary contacts
- Front/side mountable accessories available
- Direct mountable overload relays available

Compliant with IEC 60947-4

Schneider Electric - 3 Poles Contactors



LC1E

Power Rating (kW)	Rating In AC-3(A)	Built in Aux-Contact 1NO	Reference
3 phase motors 50/60Hz in AC-3 At 400V			
4	9	1NO	LC1E0910M7
5.5	12	1NO	LC1E1210M7
7.5	18	1NO	LC1E1810M7
11	25	1NO	LC1E2510M7
15	32	1NO	LC1E3210M7
18.5	38	1NO	LC1E3810M7
18.5	40	1NO	LC1E40M7
22	50	1NO	LC1E50M7
30	65	1NO	LC1E65M7
37	80	1NO	LC1E80M7
45	95	1NO	LC1E95M7
55	120	1NO	LC1E120M7
75	160	1NO	LC1E160M7

Note: Contactors with AC Coil 220V

Schneider Electric - Contactor Auxiliary Contact Blocks



LAEN22

Clip-on Mounting	Number of Contact per Block	Composition NO NC	Reference
Front	2	1 1	LAEN11
		2 -	LAEN20
		- 2	LAEN02
		2 2	LAEN22

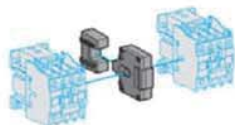
Schneider Electric- Time Delay Auxiliary



LAETSD

Setting Range	Time Delay Type	No of contact per block	Reference
1...30s	On-delay	1NO and 1NC	LAETSD

Schneider Electric- Mechanical Interlock



LAEM1

For 2 Identical Contactor	Reference
LC1E09/E65	LAEM1
LC1E80/E95	LAEM4
LC1E120/E160	LAEM5

Thermal Overload Relay for Contactors

Thermal overload relay for MC contactor

Designed for motor protection, phase failure sensitive

- Mounted directly on the contactor without additional breakers
- Finger proof covers
- Power part and operation part separation
- Easy operation current setting/ manual /auto reset setting and trip/reset indicator
- Class 10 (1) with Screw Clamp terminals connection

Compliant with IEC 60947-4-1

LSIS - Thermal Overload Relays



MT-12



MT-32



MT-63



MT-95



MT-400

Relay Setting Range (A)	Applied Contactor		Reference	
	MC-6a, 9a, 12a, 18a	MC-9b, 12b, 18b, 22b, 32a, 40a		
0.1~0.16	MT12	MT32	MT1200014A3H	MT3200014A3H
0.16~0.25	MT12	MT32	MT1200021A3H	MT3200021A3H
0.25~0.4	MT12	MT32	MT1200033A3H	MT3200033A3H
0.4~0.63	MT12	MT32	MT1200052A3H	MT3200052A3H
0.63~1	MT12	MT32	MT1200082A3H	MT3200082A3H
1~1.6	MT12	MT32	MT1200130A3H	MT3200130A3H
1.6~2.5	MT12	MT32	MT1200210A3H	MT3200210A3H
2.5~4	MT12	MT32	MT1200330A3H	MT3200330A3H
4~6	MT12	MT32	MT1200500A3H	MT3200500A3H
5~8	MT12	MT32	MT1200650A3H	MT3200650A3H
6~9	MT12	MT32	MT1200750A3H	MT3200750A3H
7~10	MT12	MT32	MT1200850A3H	MT3200850A3H
9~13	MT12	MT32	MT1201100A3H	MT3201100A3H
12~18	MT12	MT32	MT1201500A3H	MT3201500A3H
16~22	-	MT32	-	MT3201900A3H
18~25	-	MT32	-	MT3202150A3H
22~32	-	MT32	-	MT3202700A3H
28~40	-	MT32	-	MT3203400A3H
MC-50a, 65a				
34~50		MT63		MT6304200A3H
45~65		MT63		MT6305400A3H
MC-75a, 85a, 100a				
54~75		MT95		MT9506500A3H
63~85		MT95		MT9507400A3H
70~95		MT95		MT9508300A3H
80~100		MT95		MT9509000A3H
MC-130a, 150a				
95~130		MT150		MT15011300A3H
110~150		MT150		MT15013000A3H
MC-185a, 225a				
120~185		MT225		MT22515300A3H
160~240		MT225		MT22520000A3H
MC-265a, 330a, 400a				
200~330		MT400		MT40026500A3H
260~400		MT400		MT40035000A3H
MC-500a, 630a, 800a				
400~630		MT800		MT80051500A3H
520~800		MT800		MT80066000A3H

Thermal Overload Relay for Contactors

Thermal overload relay for contactor, D-range

Designed for motor protection, phase failure sensitive

- Mounted directly on the contactor without additional breakers
- Finger proof covers
- Power part and operation part separation
- Easy operation current setting/ manual /auto reset setting and trip/reset indicator

Compliant with IEC 60947-4-1

Schneider Electric - Thermal Overload Relays



LRE01

Relay Setting Range (A)	Applicable with LC1E Contactor	Reference
0.10...0.16	LC1E09...E038	LRE01
0.16...0.25	LC1E09...E038	LRE02
0.25...0.40	LC1E09...E038	LRE03
0.40...0.63	LC1E09...E038	LRE04
0.63...1	LC1E09...E038	LRE05
1...1.17	LC1E09...E038	LRE06
1.6...2.5	LC1E09...E038	LRE07
2.5...4	LC1E09...E038	LRE08
4...6	LC1E09...E038	LRE10
5.5...8	LC1E09...E038	LRE12
7...10	LC1E09...E038	LRE14
9...13	LC1E12...E038	LRE16
12...18	LC1E18...E038	LRE21
16...24	LC1E25...E038	LRE22
23...32	LC1E25...E038	LRE32
30...38	LC1E32 and LC1E38	LRE35
23...32	LC1E40...E065	LRE353
25...40	LC1E40...E065	LRE355
37...50	LC1E40...E065	LRE357
48...65	LC1E50...E065	LRE359
55...70	LC1E50...E095	LRE361
55...70	LC1E50...E095	LRE361
63...80	LC1E65 and LC1E95	LRE363
80...104	LC1E80 and LC1E95	LRE365

Note: Class 10 with screw clamp connections

Manual Motor Starters

Manual Motor Starters MMS

- DIN rail installation
- Phase failure, short-circuit and overload protection
- Adjustable thermal release

Compliant with IEC 60 947-4

LSIS - Motor Circuit Breakers



MMS-32S-0.4A

Power Rating of 3 Phase Motors 50/60Hz in AC-3 At 400V	Setting Range of Thermal Trip	Magnetic Tripping Current Id +/- 20%	Reference
kW	A	A	
0.09	0.25...0.4	5.2	MMS32S0040A
0.12	0.4...0.63	8.2	MMS32S0063A
0.25	0.63...1.0	13	MMS32S0100A
0.55	1.0...1.6	20.8	MMS32S0160A
0.75	1.6...2.5	32.5	MMS32S0250A
1.5	2.5...4.0	52	MMS32S0400A
2.2	4...6	78	MMS32S0600A
3	5...8	104	MMS32S0800A
4	6...10	130	MMS32S1000A
5.5	9...13	169	MMS32S1300A
7.5	11...17	221	MMS32S1700A
7.5	14...22	286	MMS32S2200A
11	18...26	338	MMS32S2600A
15	22...32	416	MMS32S3200A
30	45...63	819	MMS63S6300A

Motor Circuit Breaker

Thermal-magnetic motor circuit breakers GZ1E

- Control by push button
- DIN rail installation
- Short-circuit and overload protection
- Adjustable tripping current

Compliant with IEC 60947-2 and IEC 60947-4-1



GZ1E

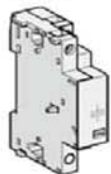
Schneider Electric - Motor Circuit Breakers

Power Rating of 3 Phase Motors 50/60Hz in AC-3 At 400V	Setting Range of Thermal Trip	Magnetic Tripping Current $I_d \pm 20\%$	Reference
kW	A	A	
0.09	0.25...0.4	5	GZ1E03
0.12	0.4...0.63	8	GZ1E04
0.25	0.63...1	13	GZ1E05
0.55	1...1.6	22.5	GZ1E06
0.75	1.6...2.5	33.5	GZ1E07
1.5	2.5...4	51	GZ1E08
2.2	4...6.3	78	GZ1E10
4	6...10	138	GZ1E14
5.5	9...14	170	GZ1E16
7.5	13...18	223	GZ1E20
9	17...23	327	GZ1E21
11	20...25	327	GZ1E22
15	24...32	416	GZ1E32

Schneider Electric - Accessories



GZ1AN11



GZ1AS115

Clip-on Mounting	Maximum Number	Type of contacts	Reference
Contact blocks			
Side	2	N/O + N/C	GZ1AN11
LH side		N/O + N/O	GZ1AN20
Electric Trips			
Side (1 block on RH side of circuit breaker)	Under Voltage trip	110...115V, 50Hz	GZ1AU115
		220...240V, 50Hz	GZ1AU225
		380...400V, 50Hz	GZ1AU385
	Shunt trip	110...115V, 50Hz	GZ1AS115
		220...240V, 50Hz	GZ1AS225

Plug-in Relay

Premium Range	Optimum Range
With mechanical lock/test button/mechanical status indicator Compliant with IEC/EN 61810-1, UL 508	With mechanical status indicator/led indicator (option) Compliant with IEC/EN 60068-2-6, IEC/EN 60529, IEC/EN 60068-2-27

Schneider Electric - Premium range Relays with LED indicator



Relay with LED

Description	Number of Contacts	Coil supply voltage	Reference
Thermal current Ith=3A Contact Material: AgNi	4 C/O	12 Vdc	RXM4GB2JD
		24 Vdc	RXM4GB2BD
		48 Vdc	RXM4GB2ED
		24 Vac	RXM4GB2B7
		48 Vac	RXM4GB2E7
		120 Vac	RXM4GB2F7
Thermal current Ith=6A Contact Material: AgNi	4 C/O	230 Vac	RXM4GB2P7
		12 Vdc	RXM4AB2JD
		24 Vdc	RXM4AB2BD
		48 Vdc	RXM4AB2ED
		24 Vac	RXM4AB2B7
		48 Vac	RXM4AB2E7
		120 Vac	RXM4AB2F7
		230 Vac	RXM4AB2P7

Schneider Electric - Premium range Socket for Relays



Socket RXZ

Contact Terminal arrangement	Connection	Applied with Relays	Reference
Mixed	Screw clamp terminals	RXM4....	RXZE2M114
	Connector	RXM4....	RXZE2M114M
Separate	Connector	RXM2....	RXZE2S108M
		RXM3....	RXZE2S111M
		RXM4....	RXZE2S114M

* Socket can be used for relays with or without LED indicator

Schneider Electric - Optimum range REXO Relays without LED indicator



Relay without LED

Description	Number of Contacts	Coil Supply Voltage	Reference
Thermal current Ith=3A Material of contact: Silver Alloy	4 C/O	12 Vdc	RXM4LB1JD
		24 Vdc	RXM4LB1BD
		48 Vdc	RXM4LB1ED
		24 Vac	RXM4LB1B7
		120 Vac	RXM4LB1F7
		230 Vac	RXM4LB1P7
Thermal current Ith=5A Material of contact: Silver Alloy	2 C/O	12 Vdc	RXM2LB1JD
		24 Vdc	RXM2LB1BD
		48 Vdc	RXM2LB1ED
		24 Vac	RXM2LB1B7
		120 Vac	RXM2LB1F7
		230 Vac	RXM2LB1P7

Schneider Electric - Optimum Range Socket for REXO Relays



Socket RXZE1M2C

Description	Reference
Socket, mixed 2 poles, screw clamp, 7A, 22.5mm	RXZE1M2C
Socket, mixed 4 poles, screw clamp, 7A, 29mm	RXZE1M4C

* Socket can be used for relays with or without LED indicator

Relays and Fuses

Mechanical Timer Clock 220V 24hours.

Relay rated in 2 range of 5A and 10A (24VDC and 230VAC)

Fuse link and holder from 1A to 160A

EDS - Mechanical Timer Clock 220V 24Hour



Timer

Rating in (A)	Rating Voltage (V)	Cycle	Reference
10A	110VAC/240VAC	24 Hours	EDSMTCT24H

***Din Rail Mounted**

EDS - Relay



REL-5A



REL-10A

Rating in (A)	Rating Voltage (V)	Number of ping	Reference
5A	12V	14 Pings	EDSREL5A4CO12VDC
5A	24V	14 Pings	EDSREL5A4CO24VDC
5A	220V	14 Pings	EDSREL5A4CO220VAC
10A	230V	8 Pings	EDSREL10A8P230VAC
10A	230V	11 Pings	EDSREL10A11P230VAC

EDS - Socket Relay



SOC-14PIN



SOC-8PIN

Relay that used with	Number of ping	Reference
REL-5A-24VDC	14 Pings	EDSSOC14PIN
REL-5A-220VAC	14 Pings	
REL-10A-8P-230VAC	8 Pings	EDSSOC08PIN
REL-10A-11P-230VAC	11 Pings	EDSSOC11PIN

EDS - Fuses Holder and Link



Fuse Holder



Fuse Link

Description	Rating (A)	Reference
Fuse Holder 1P 32A 690V	1A up to 32A	EDSFH32A690V
Fuse link 10 x 38 1A 500V	1	EDSFL01A
Fuse link 10 x 38 2A 500V	2	EDSFL02A
Fuse link 10 x 38 4A 500V	4	EDSFL04A
Fuse link 10 x 38 6A 500V	6	EDSFL06A
Fuse link 10 x 38 10A 500V	10	EDSFL10A
Fuse link 10 x 38 16A 500V	16	EDSFL16A
Fuse link 10 x 38 20A 500V	20	EDSFL20A
Fuse link 10 x 38 32A 500V	32	EDSFL32A

EDS - Fuses Base and Link



Fuse Base



Fuse Link

Description	Rating (A)	Reference
Fuse Base size 00 000 1P	40A up to 160A	EDSFB00i0001P
Fuse Base size 00 000 3P	40A up to 160A	EDSFB00i0003P
Fuse Link 000 40A 500V 100kA.690V 50kA	40	EDSFL00040A
Fuse Link 000 50A 500V 100kA.690V 50kA	50	EDSFL00050A
Fuse Link 000 63A 500V 100kA.690V 50kA	63	EDSFL00063A
Fuse Link 000 80A 500V 100kA.690V 50kA	80	EDSFL00080A
Fuse Link 000 100A 500V 100kA.690V 50kA	100	EDSFL000100A
Fuse Link 000 125A 500V 100kA.690V 50kA	125	EDSFL000125A
Fuse Link 000 160A 500V 100kA.690V 50kA	160	EDSFL000160A

Variable Speed Drive

Variable speed drive (AC drive) & offers wide lineup to satisfy various industrial needs.

iG5A : Powerful & compact sensor less vector control VFD

iP5A : Fan & pump specialized inverter /multi motor control (5.5~90kW) ...

iS7 : High Torque Performance and Precise VFD

Applications:

- Bakery machine/washing machine/conveyor Systems
- Packaging bottling machine/stock handling/industrial grinder
- Textile machine/HVAC (chillers)/material handling/crane /hoist
- Winders/printing/lift /fan/blower/pump/escalator

iG5A, iP5A and iS7 series comply with CE and UL standards

LSIS - iG5A VSD: General applications



iG5A

Input voltage: 3Ph 380~480V - 50/60Hz		Output rating: 3Ph 380~480V - max freq 400Hz	Reference
kW	Hp	Current (A)	
0.4	0.5	1.25	SV004iG5Ai4
0.75	1	2.5	SV008iG5Ai4
1.5	2	4	SV015iG5Ai4
2.2	3	6	SV022iG5Ai4
3.7	5	8	SV037iG5Ai4
4	5.4	9	SV040iG5Ai4
5.5	7.5	12	SV055iG5Ai4
7.5	10	16	SV075iG5Ai4
11	15	24	SV110iG5Ai4
15	20	30	SV150iG5Ai4
18.5	25	39	SV185iG5Ai4
22	30	45	SV220iG5Ai4

LSIS - iP5A VSD: Pump/Fan Control (Multi motor control)



iP5A

Input voltage: 3Ph 380~480V - 50/60Hz		Output Ratings: 3Ph 380~480V-0.01~120Hz	Reference
kW	Hp	Current (A)	
5.5	7.5	12	SV055iP5Ai4NE
7.5	10	16	SV075iP5Ai4NE
11	15	24	SV110iP5Ai4NE
15	20	30	SV150iP5Ai4NO
18.5	25	39	SV185iP5Ai4NO
22	30	45	SV220iP5Ai4NO
30	40	61	SV300iP5Ai4NO
37	50	75	SV370iP5Ai4O
45	60	91	SV450iP5Ai4O
55	75	110	SV550iP5Ai4O
75	100	152	SV750iP5Ai4O
90	125	183	SV900iP5Ai4O
110	150	223	SV1100iP5Ai4OL
132	200	264	SV1320iP5Ai4OL
160	250	325	SV1600iP5Ai4OL
220	300	432	SV2200iP5Ai4OL
280	350	547	SV2800iP5Ai4OL
315	400	613	SV3150iP5Ai4O
375	500	731	SV3750iP5Ai4O
450	600	877	SV4500iP5Ai4O

LSIS - iS7 VSD : High Torque Performance and Precise Control



iS7

Input voltage: 1Ph 200~230V - 50/60Hz		Output rating: 3Ph 200~230V - 0~400Hz	Reference
kW	Hp	Current (A) CT	
0.75	1	2.5	SV0008iS7i4NOFD
1.5	2	4	SV0015iS7i4NOFD
2.2	3	6	SV0022iS7i4NOFD
3.7	5	8	SV0037iS7i4NOFD

Variable Speed Drive

Altistar 312 (Drives with heatsink)	Altistar 61
- For asynchronous motors from 0.37kW to 15 kW	- For asynchronous motors from 0.75kW to 630 kW
- Power supply: 200 - 600V, 50/60Hz	- Protection index : IP20, IP54
- Output frequency range 0 to 500Hz	- With or without EMC filter, IP regulator, energy saving functions...
- Application: pump, fan, conveyor, simple machines...	- Applications: pump, fan, variable torque ...

Schneider Electric - Altistar 312 VSD (General Application)



ATV312

3Ph Supply Voltage 380...500V 50/60Hz, with integrated EMC filter		Reference
kW	Hp	
0.37	0.5	ATV312H037N4
0.55	0.75	ATV312H055N4
0.75	1	ATV312H075N4
1.1	1.5	ATV312HU11N4
1.5	2	ATV312HU15N4
2.2	3	ATV312HU22N4
3.0	-	ATV312HU30N4
4.0	5	ATV312HU40N4
5.5	7.5	ATV312HU55N4
7.5	10	ATV312HU75N4
11	15	ATV312HD11N4
15	20	ATV312HD15N4

Schneider Electric - Altistar 61 VSD (For variable torque applications)



ATV 61



ATV 61HC31N4

Power motor kW	Power motor HP	Line Current (380V)	Reference
UL Type 1/IP20 Drives, 3-Ph Supply Voltage 380...480VAC			
18.5	25	45.5 A	ATV61HD18N4Z
22	30	50 A	ATV61HD22N4Z
30	40	66 A	ATV61HD30N4Z
37	50	84 A	ATV61HD37N4Z
45	60	104 A	ATV61HD45N4Z
55	75	120 A	ATV61HD55N4Z
75	100	167 A	ATV61HD75N4Z
90	125	166 A	ATV61HD90N4
110	150	202 A	ATV61HC11N4
132	200	239 A	ATV61HC13N4
160	250	289 A	ATV61HC16N4
200	300	357 A	ATV61HC22N4
220	350	396 A	ATV61HC22N4
250	350	444 A	ATV61HC25N4
280	450	494 A	ATV61HC31N4
315	500	555 A	ATV61HC31N4
355	550	597 A	ATV61HC40N4
400	600	709 A	ATV61HC40N4
500	700	876 A	ATV61HC50N4
560	800	978 A	ATV61HC63N4
630	900	1091 A	ATV61HC63N4

Soft Starter

The Altistart 01 three-phases asynchronous motors from 0.55 to 7.5 kW / 3 to 32 A.

Greater number of starts / motor thermal protection higher than class 10 / excess current required at time of start

Applications :

- Centrifugal pumps, piston pumps, fans, screw compressors, ...
- Material handling (conveyors, mats, ...)
- Specialist machines (agitators, mixers, centrifugal machines)

Schneider Electric - Altistart 01 Soft starters



ATS01N

No of Pole	Power (HP)	Capacity (kW) 400V	Nominal Current (A)	Reference
Three phase soft stop units 0.55 to 5.5kW				
3P	0.5 - 1.5	1.1	3A	ATS01N103FT
3P	2 - 3	2 - 2.3	6A	ATS01N106FT
3P	5	4	9A	ATS01N109FT
3P	7.5	5.5	12A	ATS01N112FT
3P	10 - 15	1.5 - 11	25A	ATS01N125FT
Three phase soft stop units 1.1 to 7.5kW				
3P	2 - 3	2 - 2.3	6A	ATS01N206QN
3P	5	4	9A	ATS01N209QN
3P	7.5	5.5	12A	ATS01N212QN
3P	10 - 15	7.5 - 11	22A	ATS01N222QN
3P	20	15	32A	ATS01N232QN

** For any accessories requests (Remote display terminal, Modbus serial link, fans...), please consult us*

PLC (Programmable Logic Controller)

The PLC XBC series are compact, performance, easy & convenient to monitor using free LS XG5000 software

Application: Control of machinery factory assembly line, pumps system or lighting control

LSIS - PLC and Accessories



PLC XBC Economic type



PLC XBC Standard type



Expansion XBE-RY16A



Communication Module
XBL-C41A



Connection cable
TG7-1H40S

Item	Specification	Reference
CPU Type (Main Unit)		
Block Type Unit (Economic type)	AC 100 ~ 240V, 6 points DC input, 4 point Relay output	XBCiDR14E
	AC 100 ~ 240V, 18 points DC input, 12 point Relay output	XBCiDR30E
Block Type Unit (Standard type)	AC 100 ~ 240V, 12 points DC input, 8 point Relay output	XBCiDR20SU
	AC 100 ~ 240V, 18 points DC input, 12 point Relay output	XBCiDR30SU
	AC 100 ~ 240V, 24 points DC input, 16 point Relay output	XBCiDR40SU
	AC 100 ~ 240V, 36 points DC input, 24 point Relay output	XBCiDR60SU
Modular type unit	DC 24V, 8-points DC24V input, 8-point Relay output	XBMiDR16S
Additional Module or Accessories		
Expansion I/O module	16-points DC24V input	XBEiDC16A
	32-points DC24V input	XBEiDC32A
	16-points relay output	XBEiRY16A
	16-points Transistor (sink) output	XBEiTn16A
	32-points Transistor (sink) output	XBEiTn32A
	8-points DC24V input, 8-point relay output	XBEiDR16A
Special module	4-channel, 8-channel analog input (Current/Voltage)	XBFiAD04A
Communication Module	Cnet (RS-422/485), 1 Ch	XBLiC41A
	Fast Ethernet (100Mbps), 1 Ch	XBLiEMTA
Loader Cable	Connection cable (PC to PLC), 9pin(PC)-6pin(PC)	PMCi310S
Option Module	Voltage/Current, Input 2Ch	XBOiAD02A
	Voltage/Current, Output 2Ch	XBOiDA02A
	Voltage/Current, Input 1Ch / Voltage/Current, Output 1Ch	XBOiAH02A
	RTC (Real time clock), Battery	XBOiRTCA
	DC24V, Input 4 points	XBOiDC04A
	TR (Sink), Input 4 points	XBOiTn04A
	RTD (Resistance temperature detect), Input 1 Ch	XBOiRD01A
Terminal Board	Connection cable: R40H/20HH-05S-XBM3 (length=0.5m)	TG71H40S

Capacitor Bank Panel

Capacitor banks are installed in the electrical room to improve the power factor which is related to the inductive load mainly caused by motors.

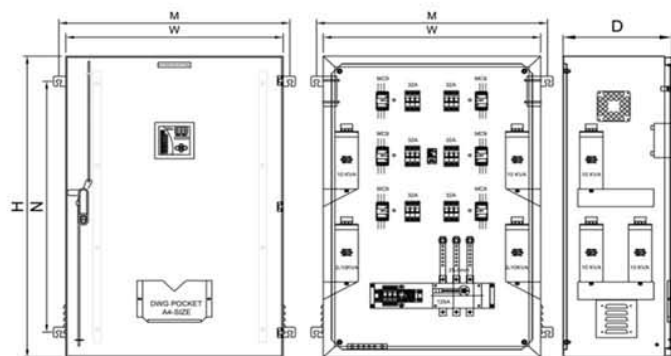
The capacitors create a capacitive load which compensates the inductive load thereby improving the power factor.

Most power utilities have penalties when your power factor drops below a certain value and will ask you to improve it using a capacitor bank.

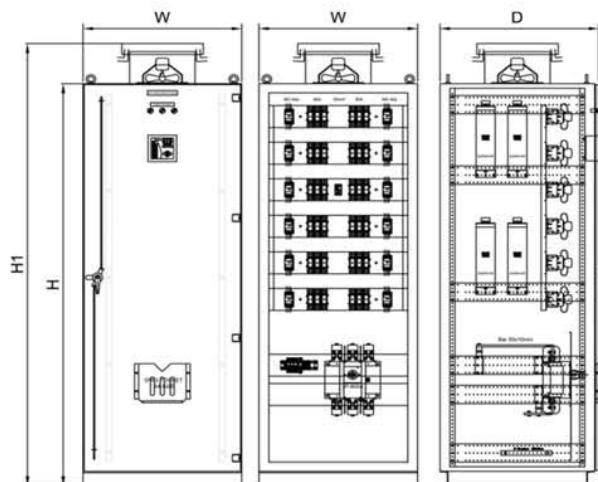
Capacitor Bank Panel

Capacitor Bank QTY of Steps	Qn (kVAr)	Steps (kVAr)	Dimension (mm)				Reference
			H	H1	W	D	
Wall Mounting Panel							
6	60	10	1200	N/A	800	400	CBP06006
4	80	20	1200	N/A	800	250	CBP08004
5	100	20	1200	N/A	800	400	CBP10005
6	120	20	1200	N/A	800	400	CBP12006
Floor Standing Panel							
8	160	20	1600	1820	800	600	CBP16008
8	200	25	1600	1820	800	600	CBP20008
10	250	25	1800	2020	800	600	CBP25010
12	300	25	2000	2220	800	800	CBP30012
10	300	30	1800	2020	800	800	CBP30010
12	360	30	2200	2420	800	800	CBP36012
10	400	40	2000	2220	800	800	CBP40010
12	440	(2x20kvar)+(10x40kvar)	2200	2420	800	800	CBP44012
12	480	40	2200	2420	800	800	CBP48012
10	500	50	2000	2220	800	800	CBP50010
12	550	(2x25kvar)+(10x50kvar)	2200	2420	800	800	CBP55012
12	600	50	2200	2420	800	800	CBP60012

* Capacitor Bank Panels include power factor regulator, load break switch, fuses, 3 phases capacitors



Capacitor Bank Panel 6 steps wall mounting



Capacitor Bank Panel 12 steps floor standing

Power Efficiency and Measurements



KWh Meters and Multi Meters

KWh Meters rated from 5A to 100A direct types and from 5A to 6000A with CTs Types.

Measurement: Class 1

EDS - Monophase (1 mod) KWH Meter - Direct Type - Mech



EDS-1Y-18M-50

Primary (A)	Class	Rating Voltage (V)	Power Consumption (W)	Reference
5 - 50	1	230	0.4	EDS1Y18M50

**Din Rail Mounted*

**A minimum of 5A load is required for EDC calibration accuracy*

EDS - Monophase (4 mod) KWH Meter - Direct Type - Mech



EDS-1Y-M-100

Primary (A)	Class	Rating Voltage (V)	Power Consumption (W)	Reference
10 - 100	1	230	0.6	EDS1YM100

**Din Rail Mounted*

**A minimum of 10A load is required for EDC calibration accuracy*

EDS - Three Phases (7 mod) KWH Meter - Direct Type - Mech



EDS-353-M-100

Primary (A)	Class	Rating Voltage (V)	Power Consumption (W)	Reference
10 - 100	1	380	0.6	EDS353M100

**Din Rail Mounted*

**A minimum 10A load is required for EDC calibration accuracy*

EDS - Three phases (4 mod) KWH Meter



EDS-353-L

Primary (A)	Class	Rating Voltage (V)	Power Consumption (W)	Display	Reference
5 - 6000	1	3 x 220/380	<0.6W	LCD	EDS353L

**Measurements of active power only*

EDS - Multi Meter Panel Reader



EDS-MMCT3-E-C

Type	Class	Dimension	Display	Reference
Panel Mounting	1	96 x 96 x 80.5	LCD	EDSMMCT3EC

**Door mounted*

**I, V, PF, Fr, P, Q, S, Kwh, Kvarh, IHD*

Protection and Control Relay

Earth fault relay
Earth leakage relays & ZCTs
Phase monitoring relay
Power factor regulator
Compliant with IEC and BS Standards

Mikro - Earth Fault Relay



MK201A

Type	Descriptions	Reference
MK	Panel Mounted Earth Fault Relay	MK201A
IDMT	Panel Mounted Earth Fault Relay (IEC Curve)	IDMT202
OCEF	Panel Mounted Over Current and Earth Fault Relay combined	MK1000

**These items can be used with any MCCB and ACBs above 630Amps*

Mikro - Earth Leakage Relay & ZCT



DIN 300



ZCT

Type	Descriptions	Reference
ELR	DIN Rail Mounted Earth Leakage Relay	DIN300
ELR	Panel Mounted Earth Leakage Relay	ELR301A
ZCT	Special Core ZCT - 40mm; up to 150A	ZCT40S
ZCT	Special Core ZCT - 60mm, up to 250A	ZCT60S
ZCT	Special Core ZCT - 80mm, up to 400A	ZCT80S
ZCT	Special Core ZCT - 120mm, up to 630A	ZCT120S

**These items can be used with any MCCBs below 630 Amps*

Schneider - Control Relay



RM4TR32

Type	Descriptions	Reference
RM4 TR – Rotational direction of phases + Phases failure + Under voltage + Over voltage		
50/60Hz	Adjustable time delay 0.1s ... 10 s, 2 C/O output relay, supply voltage 380-500Vac	RM4TR32

Lovato – Kit complete with relay and electrodes



LVMKIT25

Type	Descriptions	Reference
Modular starter kit	Level relay LVM25 240 + two SN1 electrodes with 1 probe each	LVMKIT25

Mikro - Power Factor Regulator



PFR

Type	Descriptions	Reference
PFR-6	Panel Mounted Power Factor Regulator 6 Steps	PFR60i415i50
PFR-8	Panel Mounted Power Factor Regulator 8 Steps	PFR80i415i50
PFR-12	Panel Mounted Power Factor Regulator 12 Steps	PFR120i415i50
PFR-14	Panel Mounted Power Factor Regulator 14 Steps	PFR140i415i50

**For any other requirements in relay control, please consult us*

Ammeter, Voltmeter and Cam switch

Accuracy Class: Class 1

- Analog and Digital Voltmeter: 500V
- Analog Ammeter: from 50A to 5000A
- Digital Ammeter: from 50A to 2000A

Working voltage: until 400V

Working temperature: between -25° C and +55° Celsius

Compliant with EN 60051, IEC 414 and IEC 51

Analog Voltmeter / Frequency - AC Circuits



90° Scale

Frame Size (mm)	Description	Voltage (V)	Reference
96x96	Voltmeter	0 to 500	EDSVMA96500V
96x96	Frequency 45-65Hz	220	EDSFRMHz220V
96x96	Power Factor Cosφ	380	EDSPFA380VAC

Analog Ammeters & Hour Counter - AC Circuits



90° Scale



EDSHM1

Frame Size (mm)	Scale(A)	Measuring Range	Nominal Current (A)	Reference
96x96	0 - 50 - 100	50	5	EDSAMA9650A
96x96	0 - 75 - 150	75	5	EDSAMA9675A
96x96	0 - 100 - 200	100	5	EDSAMA96100A
96x96	0 - 150 - 300	150	5	EDSAMA96150A
96x96	0 - 200 - 400	200	5	EDSAMA96200A
96x96	0 - 250 - 500	250	5	EDSAMA96250A
96x96	0 - 300 - 600	300	5	EDSAMA96300A
96x96	0 - 400 - 800	400	5	EDSAMA96400A
96x96	0 - 600 - 1200	600	5	EDSAMA96600A
96x96	0 - 1000 - 2000	1000	5	EDSAMA961000A
96x96	0 - 1200 - 2400	1200	5	EDSAMA961200A
96x96	0 - 1250 - 2500	1250	5	EDSAMA961250A
96x96	0 - 1600 - 3000	1600	5	EDSAMA961600A
96x96	0 - 2000 - 4000	2000	5	EDSAMA962000A
96x96	0 - 2500 - 5000	2500	5	EDSAMA962500A
96x96	0 - 3000 - 6000	3000	5	EDSAMA963000A
96x96	0 - 4000 - 8000	4000	5	EDSAMA964000A
96x96	0 - 5000 - 10 000	5000	5	EDSAMA965000A
48x48	Mechanical Hour Counter			EDSHM1

Digital Meters - AC Circuits



EDSAMD96

Size of Meters	Description	Voltage (V)	Reference
96x96	Voltmeter 0-500V	200	EDSVMD96
96x96	Ammeter 50-2000A	200	EDSAMD96
96x96	Frequency 45-65Hz	200	EDSHZD96

Cam Switches



EDSAMTSA4

Contact Rating (A)	Switching Positions	Voltage (Vac) Max.	Used for	Reference
3 Poles				
10	7	600	Voltmeter	EDSVMTSV7
10	4	600	Ammeter	EDSAMTSA4

**For other types of Analog meters such as Watt meters, Power Factor Meter, Frequency Meters, please consult us*

Current Transformer

Accuracy class: Class 1

Compliant with EN 60051; IEC 414 and IEC 51

All CTs are rated 5A for secondary current

EDS - AC Transformers



MBO CT



EDSMR85i



EDSPCT5P10

Primary (A)	Secondary (A)	Internal ID: Ø (mm)	Class	Burden(VA)	Reference
EDS - CTs for Cables & Busbars, AC Circuits					
50	5	30	1	1.5	EDSMBO6230i505A
75	5	30	1	1.5	EDSMBO6230i755A
100	5	30	1	2.5	EDSMBO6230i1005A
150	5	30	1	3	EDSMBO6230i1505A
200	5	30	1	5	EDSMBO6230i2005A
250	5	40	1	5	EDSMBO6240i2505A
300	5	40	1	5	EDSMBO6240i3005A
400	5	60	1	5	EDSMBO60i4005A
600	5	60	1	7.5	EDSMBO40i6005A
800	5	60	1	7.5	EDSMBO60i8005A
EDS - CTs for Large Busbars, AC Circuits					
800	5	85	1	10	EDSMR85i8005A
1000	5	85	1	15	EDSMR85i10005A
1200	5	85	1	15	EDSMR85i12505A
1600	5	85	1	15	EDSMR85i16005A
2000	5	125	1	20	EDSMR125i20005A
2500	5	125	1	20	EDSMR125i25005A
3000	5	125	1	20	EDSMR125i30005A
4000	5	125	1	30	EDSMR125i40005A
5000	5	125	1	30	EDSMR125i50005A
EDS - PCTs for Cables & Busbars, AC Circuits					
300	5	45	5P10	15	EDSPCT5P10300A
400	5	45	5P10	15	EDSPCT5P10400A
600	5	68	5P10	15	EDSPCT5P10600A
800	5	85	5P10	15	EDSPCT5P10800A
1000	5	82	5P10	15	EDSPCT5P101000A
1200	5	82	5P10	15	EDSPCT5P101200A
1600	5	82	5P10	15	EDSPCT5P101600A
2000	5	125	5P10	15	EDSPCT5P102000A
2500	5	125	5P10	15	EDSPCT5P102500A
3000	5	120	5P10	15	EDSPCT5P103000A
4000	5	140	5P10	15	EDSPCT5P104000A
5000	5	140	5P10	15	EDSPCT5P105000A



EDSDH200VA220i24V

Description to Output	Input	Dimensions H x Ø (mm)	Rated Load	Efficiency	Reference
220 VAC to 24 VAC		50x105	100 VA	0.92	EDSDH100VA220i24V
220 VAC to 24 VAC		60x125	200 VA	0.94	EDSDH200VA220i24V
220 VAC to 24 VAC		60x135	300 VA	0.94	EDSDH300VA220i24V
220 VAC to 24 VAC		75x140	400 VA	0.95	EDSDH400VA220i24V
220 VAC to 24 VAC		85x150	600 VA	0.95	EDSDH600VA220i24V
400 VAC to 220 VAC		85x160	800 VA	0.95	EDSDH800VA400i230V

Other transformers are available on request, please consult us

Digital Multi-Meter Parameters

Multi-function meter is measuring all low voltage electrical networks..

In addition, Diris A meters have a detection function of connection errors.

- Accurate measurement (class 0.2 for U and I, 0.5 for P Q and S)
- Optimized visibility with large LCD Display.
- Direct access with large keys from the front panel.

Compliant with IEC62053 - IEC 61010 - IEC 61000-4 - IEC 60068-2

Socomec - Diris Panel Multi-Meters



DIRIS A10



DIRIS A20



DIRIS A40

Range	Type	Front Rating	Display	Reference
DIRIS A10	4 DIN modules	IP52	LCD	48250011
DIRIS A20	Panel Mounting	IP52	LCD	48250200
DIRIS A40	Panel Mounting	IP53	LCD	48250201

Note: For any other types of Meters or for Building Software consolidation, please consult us

MEASUREMENTS	A10	A20	A40
Current, Voltage, Frequency	•	•	•
Active, reactive and apparent power, power factor	•	•	•
Predictive power			•
Temperature(s)	•		2...4 option
Average current, voltage and frequency			•
Average power			•
ENERGY MANAGEMENT SOLUTIONS	A10	A20	A40
Energy meter : cl. 0.5S IEC 62053-22	•	•	•
Pulse meter			2...6 option
Load curves			•

Optional functions for DIRIS A20/A40 Multi-Meters

Type	Description	Reference
DIRIS A20		
COMMUNICATION	RS485 link with JBUS / MODBUS protocol (speed up to 38400 bauds)	48250082
1 OUTPUT	1 output assignable to: • Pulses: configurable (type, weight, time) in kWh or kvarh • Monitoring: I, In, V, U, F, ΣP , ΣQ , ΣS , $\Sigma PFL/C$, THDs and timer and Control of apparatus	48250080
DIRIS A40		
JBUS / MODBUS	RS485 link with JBUS / MODBUS protocol (speed up to 38400 bauds)	48250092
Ethernet communication	Ethernet link with MODBUS/TCP or JBUS/MODBUS RTU over TCP.	48250203
Ethernet communication with J/MOD-BUS gateway	• Ethernet link with MODBUS/TCP or JBUS/MODBUS RTU over TCP • Connection of 1 to 247 RS485 JBUS/MODBUS slaves.	48250204
2 INPUTS- 2 OUTPUTS	A maximum of 3 modules may be connected, providing up to 6 inputs and 6 outputs. Per module 2 outputs assignable to: • monitoring: 3I, In, 3V, 3U, F, $\pm \Sigma P$, $\pm \Sigma Q$, ΣS , $\Sigma PFL/C$, THDs, Ppred, Qpred, Spred, internal T°C, and hour meter • remote control	48250094
MEMORY	• Storing up to a maximum of 62 days of P $\pm$, Q $\pm$ with an internal or external synchronization signal of 5, 8, 10, 15, 20, 30 and 60 minutes. • Storing of 10 hour-dated last alarms. • Storing of the last minimum and maximum instantaneous values for 3U, 3V, 3I, In, F, $\Sigma P\pm$, $\Sigma Q\pm$, ΣS , THDs • Storing of 3U, 3V and F average values based on synchronization function (maximum 60 days).	48250097
TEMPERATURE	Internal temperature indicator + connection for 3 sensors PT 100	48250206

Capacitor for Power Factor Correction

Capacitors reach an expected life of more than 150,000 hours.

- Cylindrical aluminum case

Great mechanical/electrical reliability:

- 3 x screw terminals (3 x M10 bolt terminals over 30kVAR)
- Overpressure protection to disconnect it from the supply in the event of internal failure and at the end of its operational life.
- Power range: 5 to 50 kVAR

Applicable standards: IEC, ANS / IEEE, NEMA

Samwha - Three Phases Capacitors



Capacitor Bank

Power (kVAR)	Current In (A)	Dimensions DxH (mm)	Reference
415 V - 50/60 Hz			
5	7	Φ63x165mm	RMCI415050KT
10	13.9	Φ86x230mm	RMCI415100KT
15	20.9	Φ86x275mm	RMCI415150KT
20	27.8	Φ86x350mm	RMCI415200KT
25	34.8	Φ86x350mm	RMCI415250KT
30	41.7	Φ116x305mm	RMCI415300KT
40	55.6	Φ136x305mm	RMCI415400KT
50	69.6	Φ136x380mm	RMCI415500KT

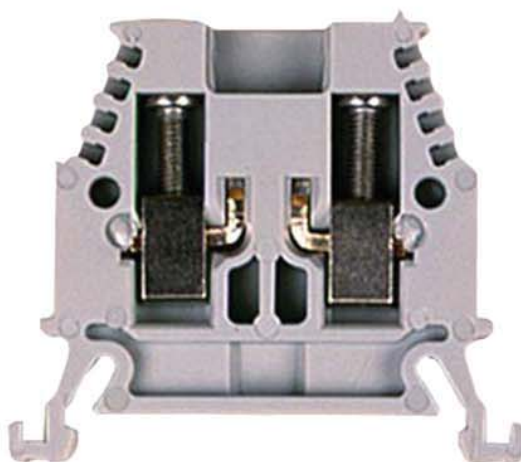
Samwha - Reactor for Capacitor



Reactor for Capacitor

Power (kVAR)	Current In (A)	Dimensions WxHxD (mm)	Reference
15	14.1	240x200x155	DRA735i416i0010K
20	18.7	240x200x170	DRA735i416i0014K
25	23.4	240x220x175	DRA735i416i0017K
30	28.1	240x260x175	DRA735i416i0020K
40	37.5	240x245x175	DRA735i416i0027K
50	46.8	240x265x185	DRA735i416i0034K
60	56.2	300x270x185	DRA735i416i0041K
70	65.6	300x270x200	DRA735i416i0047K
75	70.3	300x270x205	DRA735i416i0051K
80	75.0	300x270x210	DRA735i416i0054K
100	93.7	300x325x210	DRA735i416i0068K
120	112.4	300x325x225	DRA735i416i0081K
160	149.9	300x330x235	DRA735i416i0108K

Electrical Accessories



Push Button, Selector Switches and Pilot Light

Plastic IP 54 protected monolithic pushbuttons, switches and pilot lights.

Schneider Electric - Pushbuttons, Spring Return



Push Button

Head Shape	Description	Type of Contacts			Color	Reference
		N/O	N/C	C/O		
Round	Pushbuttons, Spring Return Ø22	1	-	-	Black	XB7NA21
		1	-	-	Green	XB7NA31
		-	1	-	Red	XB7NA42
		1	1	-	Black	XB7NA25
		1	1	-	Green	XB7NA35
		1	1	-	Red	XB7NA45
		1	-	-	Yellow	XB7NA81

Schneider Electric - Selector Switches, Circular Heads



Selector Switch

Head Shape	Description	Type of Contacts			Positions	Reference
		N/O	N/C	C/O		
Round	Standard Black Handle Ø22	1	-	-	2 Stay put	XB7ND21
		1	1	-	2 Stay put	XB7ND25
		2	-	-	3 Stay put	XB7ND33
	Key Switch (key: 455) Ø22	1	-	-	2 from LH Pos.	XB7NG21
		2	-	-	3 from center Pos.	XB7NG33

Schneider Electric - Emergency Stop, 40mm Circular Heads



Emergency Stop
Turn to Release

Head Shape	Description	Type of Contacts			Color	Reference
		N/O	N/C	C/O		
Round	Emergency Stop Turn to Release	-	1	-	Red	XB7NS8442
		1	1	-	Red	XB7NS8445
	Emergency Stop Key Release	-	2	-	Red	XB7NS9444
		1	1	-	Red	XB7NS9445

Schneider Electric - Pilot Light



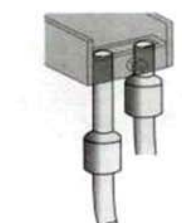
Pilot Light

Head Shape	Description	Supply Voltage	Color	Reference
Round	LED - Ø22mm	24VDC	White	XB7EV01BP
			Green	XB7EV03BP
			Red	XB7EV04BP
			Yellow	XB7EV05BP
			Blue	XB7EV06BP
		230VAC	Green	XB7EV03MP
			Red	XB7EV04MP
			Yellow	XB7EV05MP
			Blue	XB7EV06MP
			White	XB7EV07MP

Terminal Accessories

High quality cable lugs and terminal blocks

EDS - Single Conductor Cable End Medium type



Single Conductor
Cable End

Cable Size(sq.mm)	Color	Dimensions (mm)				Sold in lots of	Reference
		Øb	Øb1	C	C1		
0.75	White	2.8	1.50	14.6	8.0	100	EDSCBE7508WH
1.5	Blue	3.5	2.00	14.6	8.0	100	EDSCBE1508RD
2.5	Grey	4.0	2.60	15.2	8.0	100	EDSCBE2508GY
4	Orange	4.4	3.20	19.5	12.0	100	EDSCBE4012OR
6	Green	6.3	3.90	20.0	12.0	100	EDSCBE6012GR
10	Brown	7.6	4.90	21.5	12.0	50	EDSCBE1012BR
16	White	8.8	6.20	22.0	12.0	50	EDSCBE1612WH
25	Black	11.2	7.90	29.0	16.0	20	EDSCBE2516BK
35	Red	12.7	8.70	30.0	16.0	20	EDSCBE3516RD

EDS - Terminal Block, End Plate & Bracket



Terminal Block

Conductor Cross Sector(mm²)	Terminal Width (mm)	Electrical Ratings		End Plate	Reference
		Voltage (V)	Current (A)		
0.5 - 2.5	6.2	800	40	EDS2UK5N-P	EDSTMB5N
4.0 - 6.0	8.2	800	55	EDS2UK6N-P	EDSTMB6N
10.0 - 16.0	12.2	800	100	EDS2UIK16-P	EDSTMB2UIK16
25.0 - 35.0	15.2	800	125	N/A	EDSTMB35
up to 50	17	600	90	-	EDSTMB60BK
up to 70	24	600	130	-	EDSTMB100K
up to 150	31	600	240	-	EDSTMB200K

End Bracket

EDSEBK

EDS - Cable Spiral, Tie & Gland



Cable Spirals Wrap



Cable Ties

Descriptions	Dimensions Characteristics (mm)	Sold in lots of	Reference
Cable Spirals Wrap	Ø 7.5 - 60	10m	EDSSWB10
Cable Ties Plate Mounting	LxW = 20x20	20m	EDSCTM20
	LxW = 25x25	20m	EDSCTM25
Cable Ties	LxW = 100x 2.5	100	EDSCBT100i025BK
	LxW = 200x2.5	100	EDSCBT200i025BK
	LxW = 250x2.5	100	EDSCBT250i025BK
	LxW = 300x2.5	100	EDSCBT300i035BK

Terminal Accessories

High quality copper cable lugs & sleeves for insulation & phase identification

EDS - Single Conductor Cable Lugs



Single Conductor Cable Lugs

Cable Size (sq.mm)	Color	Type	L (mm)	D (mm)	A (mm)	Ø (mm)	Sold in lots of	Reference
6	Silver	Medium	21	10	3.8	6	1	EDSCBL0606SL
10	Silver	Medium	25	12	4.5	6	1	EDSCBL1006SL
16	Silver	Medium	30	12	5.4	8	1	EDSCBL1608SL
25	Silver	Medium	30	13	6.8	8	1	EDSCBL2508SL
35	Silver	Medium	35	15	8.2	8	1	EDSCBL3508SL
50	Silver	Medium	40	18	9.5	8	1	EDSCBL5008SL
70	Silver	Medium	45	21	11.2	8	1	EDSCBL7008SL
95	Silver	Medium	51	25	13.5	10	1	EDSCBL9510SL
120	Silver	Medium	54	28	15	10	1	EDSCBL12010SL
150	Silver	Medium	63	30	16.5	12	1	EDSCBL15012SL
185	Silver	Medium	73	34	18.5	12	1	EDSCBL18512SL

EDS - Vinyl Sleeves



Sleeves

Cable Size (sq.mm)	Color	Type	Sold in lots of	Reference
6	Yellow	PVC	10	EDSSLV055YE
	Red	PVC	10	EDSSLV055RD
	Blue	PVC	10	EDSSLV055BL
	Black	PVC	10	EDSSLV055BK
	Green	PVC	10	EDSSLV055GR
10	Yellow	PVC	10	EDSSLV8YE
	Red	PVC	10	EDSSLV8RD
	Blue	PVC	10	EDSSLV8BL
	Black	PVC	10	EDSSLV8BK
	Green	PVC	10	EDSSLV8GR
16	Yellow	PVC	10	EDSSLV14YE
	Red	PVC	10	EDSSLV14RD
	Blue	PVC	10	EDSSLV14BL
	Black	PVC	10	EDSSLV14BK
	Green	PVC	10	EDSSLV14GR
25	Yellow	PVC	10	EDSSLV22YE
	Red	PVC	10	EDSSLV22RD
	Blue	PVC	10	EDSSLV22BL
	Black	PVC	10	EDSSLV22BK
35	Yellow	PVC	10	EDSSLV38YE
	Red	PVC	10	EDSSLV38RD
	Blue	PVC	10	EDSSLV38BL
	Black	PVC	10	EDSSLV38BK
50	Yellow	PVC	10	EDSSLV38YE
	Red	PVC	10	EDSSLV38RD
	Blue	PVC	10	EDSSLV38BL
	Black	PVC	10	EDSSLV38BK
70	Yellow	PVC	10	EDSSLV060YE
	Red	PVC	10	EDSSLV060RD
	Blue	PVC	10	EDSSLV060BL
	Black	PVC	10	EDSSLV060BK
95	Yellow	PVC	10	EDSSLV80YE
	Red	PVC	10	EDSSLV80RD
	Blue	PVC	10	EDSSLV80BL
	Black	PVC	10	EDSSLV80BK
120 / 150	Yellow	PVC	10	EDSSLV125YE
	Red	PVC	10	EDSSLV125RD
	Blue	PVC	10	EDSSLV125BL
	Black	PVC	10	EDSSLV125BK
185	Yellow	PVC	10	EDSSLV185YE
	Red	PVC	10	EDSSLV185RD
	Blue	PVC	10	EDSSLV185BL
	Black	PVC	10	EDSSLV185BK

Soft Cable

ATS can provide soft single core cables according to your needs

EDS - Soft NYY/PVC Mono Core Cable

Cable Size (sq.mm)	Color	Structure Core Ø (mm)	Insulated Thickness (mm)	Total Diameter (mm)	Max Amps (A)	Reference
0.75	White	0.2	0.7	2.7	9.0	EDSSCB00075WH
1.5	Black	0.3	0.7	3.0	17.0	EDSSCB00150BK
	Blue	0.3	0.7	3.0	17.0	EDSSCB00150BL
	Red	0.3	0.7	3.0	17.0	EDSSCB00150RD
	Yellow	0.3	0.7	3.0	17.0	EDSSCB00150YE
	Yellow & Green	0.3	0.7	3.0	17.0	EDSSCB00150YG
2.5	Black	0.3	0.8	3.6	23.0	EDSSCB00250BK
	Blue	0.3	0.8	3.6	23.0	EDSSCB00250BL
	Red	0.3	0.8	3.6	23.0	EDSSCB00250RD
	Yellow	0.3	0.8	3.6	23.0	EDSSCB00250YE
	Yellow & Green	0.3	0.8	3.6	23.0	EDSSCB00250YG
4	Black	0.3	0.8	4.2	35.0	EDSSCB00400BK
	Blue	0.3	0.8	4.2	35.0	EDSSCB00400BL
	Red	0.3	0.8	4.2	35.0	EDSSCB00400RD
	Yellow	0.3	0.8	4.2	35.0	EDSSCB00400YE
6	Black	0.3	0.8	5.1	47.0	EDSSCB00600BK
	Yellow & Green	0.3	0.8	5.1	47.0	EDSSCB00600YG
10	Black	0.4	1.0	6.5	69.0	EDSSCB01000BK
	Yellow & Green	0.4	1.0	6.5	69.0	EDSSCB01000YG
16	Black	0.4	1.0	7.8	92.0	EDSSCB01600BK
	Yellow & Green	0.4	1.0	7.8	92.0	EDSSCB01600YG
25	Black	0.4	1.2	9.5	115.0	EDSSCB02500BK
35	Black	0.4	1.2	11.0	130.0	EDSSCB03500BK
50	Black	0.38	1.5	13.3	180.0	EDSSCB05000BK
70	Black	0.38	1.5	15.2	200.0	EDSSCB07000BK
95	Black	0.38	1.8	17.7	250.0	EDSSCB09500BK
120	Black	0.38	1.8	19.5	315.0	EDSSCB12000BK
185	Black	0.38	2.3	24.5	400.0	EDSSCB18500BK

Lightning and Building Protection Equipment



EDS
Electrical Distribution Systems

Indelec
SMART LIGHTNING SOLUTIONS

Lightning Protection and Accessories

Air Terminals offering a customized solution for each project

Fully autonomous operation, no power cable required

Robust design able to withstand multiple lightning strikes

Straightforward installation & maintenance using Indelec's tools & accessories

Compliant with NFC 17-102

Indelec - Air Terminals

	Type	Protection Area	Description	Reference
	PrimeR 20	37 - 58 Meters	PrimeR Air Terminal	P1303
	PrimeR 45	63 - 89 Meters	PrimeR Air Terminal	P1301
	P3 S40	58 - 84 Meters	Prevector 3 Air Terminal	P1523
	P3 S50	68 - 95 Meters	Prevector 3 Air Terminal	P1533
	P3 S60	79 - 107 Meters	Prevector 3 Air Terminal	P1543
	Accessories	-	Indelec Test clamp	P7001F

Indelec - Measurements

	Type	Description	Reference
	Digital	Earth Resistance tester + Accessories	P8004
	Digital	Lightning Flash Counter	P8015
	Digital	Installation Maintenance Test Kit for PrimeR	P1390
	Digital	Installation Maintenance Test Kit for Prevector	P1590

Indelec - AC Surge Arresters

	Poles	Nominal discharge current In	Max. discharge current I _{max}	Description	Reference
	1P	25 kA	100 kA	Type1 DSU-440	P8331H
	N	50 kA	50 kA	Type 1 DE	P8318E
	3P+N	12.5 kA	200 kA	Type1+2 DTR-440	P8330H
	3P+N	20 kA	160 kA	Type 2 DTT-440	P8323H
	1P+N	20 kA	80 kA	Type2 DMT-440	P8322

Note: Item DSU is uncompleted system, required 3xDSU440 + 1xDE

LS - AC Surge Arresters

	Poles	Nominal discharge current In	Max. discharge current I _{max}	Description	Reference
	2P	5 kA	10 kA	BKS-A Class III	BKSA2P10kA220VA
	2P	30 kA	60 kA	BKS-D Class II	BKSD2P60kA380VA
	4P	30 kA	60 kA	BKS-D Class II	BKSD4P60kA380VA

Note: DC Surge Arrestor is also available.

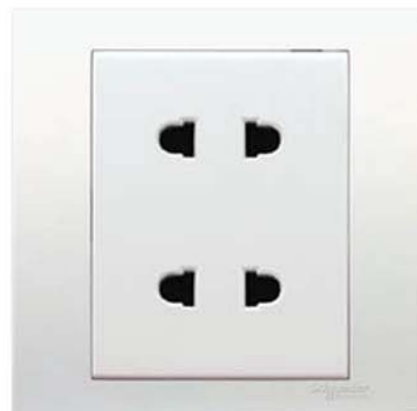
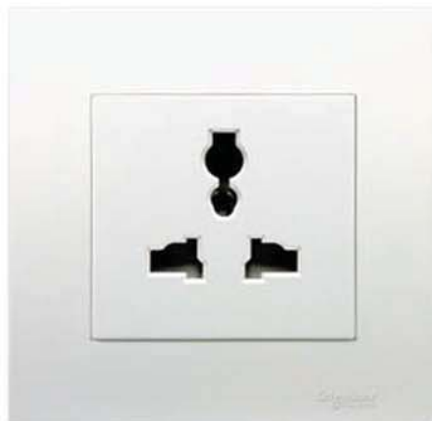
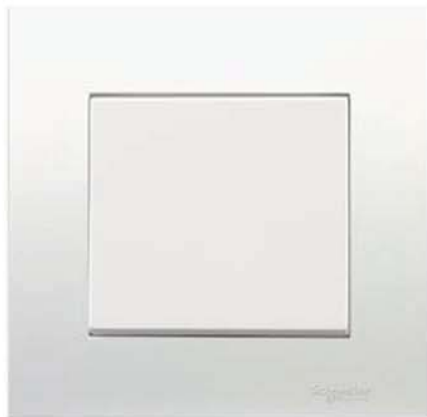
Indelec - Storm Detector

	Max detection	IP	Description	Reference
	15km	20	Storm Detector	P90040C
	15km	66	Antenna	(included)

EDS - Solar Obstruction Light

	Life Time	Luminosity	Description	Reference
	100,000 hrs	>10cd (flashing)	Built-in photocell - NIMH battery - IP65	NHLT101
	100,000 hrs	>10cd (flashing)	Built-in photocell - NIMH battery - IP65 - Incl. remote monitoring connection for battery and LED ring	NHLT101B
Mounting Bracket				PJ002

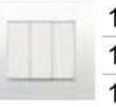
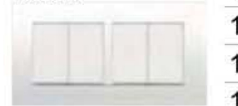
Wiring Accessories



Switches and Sockets

Wiring modern accessories for homes, apartments, office buildings & commercial office.
Compliant with IEC60669-1/BS 1363/IEC 60669-1/IEC 169-2:1977

Schneider Electric - Wiring Accessories

		Description	Reference
		Plate Switches	
    	KB31i1 KB31 KB32i1 KB32 KB33i1 KB33 KB31BPB KB34i1 & KB34	16AX 250V 1 Gang 1 Way Switch	KB31i1
		16AX 250V 1 Gang 2 Way Switch	KB31
		16AX 250V 2 Gang 1 Way Switch	KB32i1
		16AX 250V 2 Gang 2 Way Switch	KB32
		16AX 250V 3 Gang 1 Way Switch	KB33i1
		16AX 250V 3 Gang 2 Way Switch	KB33
		16AX 250V 4 Gang 1 Way Switch	KB34i1
		16AX 250V 4 Gang 2 Way Switch	KB34
		16AX 250V Intermediate Switch	KB31IA
		10A 250V Bell Press Switch	KB31BPB
     	KB426US KB426US2 KB431S KB113LS KB31RD400 KB31RF250	10A 250V 2 Gang Bell Press Switch	KB32BP
		Universal Socket Outlets	
		10A 250V 1 Gang 2-Pin Universal Socket	KB426US
		10A 250V 2 Gang 2-Pin Universal Socket	KB426US2
		13A 250V 1 Gang 3-Pin Universal Socket	KB413S
		13A 250V 1 Gang 3-Pin Large Dolly Switched Universal Socket	KB113LS
		13A 250V 1 Gang 3-Pin Large Dolly Switched Universal Socket with Neon	KB113LSN
		13 A 250V 2 Gang 3 Pin Universal Socket	KBT413S
		Dimmer & Fan Control	
		1 Gang 400W Light Dimmer	KB31RD400
		1 Gang 250VA Fan Speed Controller	KB31RF250
       	KB31TV KB32TV KB31TVF KB31TS KB32TS KB31RJ5E KB31RJ6 KB31TS KB32RJ6 KB32TSiRJ5E	VDI Outlets	
		1 Gang TV Co-Axial Outlet	KB31TV
		2 Gang TV Co-Axial Outlet	KB32TV
		1 Gang Cable TVF Connector	KB31TVF
		1 Gang TV Co-Axial Outlet + 1-Gang TVF Socket	KBT32TVITVF
		2 Gang TV and FM Outlet	KB32TVFM
		TV/FM/Satellite Socket without Looping	KB33SMATV
		1 Gang BT Master	KB406i1M
		1 Gang BT Slave	KB406i1S
		1 Gang Telephone Outlet with Shutter	KB31TS
		2 Gang Telephone Outlet with Shutter	KB32TS
		1 Gang Category 5e Data Outlet with Shutter	KB31RJ5E
		2 Gang Category 5e Data Outlet with Shutter	KB32RJ5E
		1 Gang Category 6 Data Outlet with Shutter	KB31RJ6
		2 Gang Category 6 Data Outlet with Shutter	KB32RJ6
		1 gang wall plate for key stone type data jack	KB31RJK
		2 gang wall plate for key stone type data jack	KB32RJK
		1 Gang Telephone Outlet + 1 Gang Category 5e Data Outlet with Shutter	KB32TSiRJ5E

Switches and Sockets

Wiring modern accessories for homes, apartments, office buildings & commercial office.
Compliant with IEC60669-1/BS 1363/IEC 60669-1/IEC 169-2:1977

Schneider Electric - Wiring Accessories

Description		Reference
British Standard Socket Outlet		
 KB15N	13A 250V 1 Gang Switched Socket	KB15
 KB25N	13A 250V Twin Gang Switched Socket	KB25
 KB31BD	13A 250V 1 Gang Switched Socket with Neon	KB15N
 KB31BDiC	13A 250V Twin Gang Switched Socket with Neon	KB25N
Hotel Accessories		
 KB31EKT	Bell Press switch with "Do Not Disturb" symbol	KB31BD
 KBT727V	Bell Press switch with "Do Not Disturb" and "Clean Up Room" symbol	KB31BDiC
	4A 2 way centre off Retractive Switch	KB31BPI2
	Hotel Key Card	KB31EKT
	115/240V Shaver Unit	KBT727V
Fused connection Unit & Cooker Control Switch		
 KB30FSG	13A 250V Fused Connection Unit	KB30FSG
 KB30NFSG	13A 250V Fused Connection Unit with Neon	KB30NFSG
 KB31DFSG	13A 250V Switched Fused Connection Unit	KB31DFSG
	13A 250V Switched Fused Connection Unit with Neon	KB31DNFSG
 KB31TB	25A 250V Connection Unit	KB31TB
 KB31DNFSG	45A 250V Cooker Control Unit	KBT15D45N
 KB31D20NE KB31D20NEi2	Double Pole Switch	
	20A 250V 1 Gang Double Pole Switch with Neon and Earth	KB31D20NE
	20A 250V 1 Gang 2 Way Double Pole Switch with Neon and Earth	KB31D20NE2
	20A 250V 2 Gang Double Pole Switch with Neon and Earth	KB32D20NE
	45A 250V Double Pole Switch with Neon	KB31DR45N
	45A 250V Twin Gang Vertical Double Pole Switch with Neon	KBT31VDR45N
Blank Plate, Surround & MISC items		
 KB30	1-Gang Blank Plate	KB30
 KBT30	Twin Gang Blank Plate	KBT30
	1 Gang Wall Plate with Aperture	KB31X
	Twin Gang SCV TV/FM Outlet	KBT30TVFM

LED Lighting



PHILIPS

LED Professional Trade

LED lighting is highly efficient, long lasting environmentally friendly and inherently controllable, enabling both new and traditional applications of light.

Schneider Electric - Wiring Accessories

	Description	Reference
 StreetStar	StreetStar	
	Street BRP210 Star 27W CW (5700K) LED36 220-240V	911401833498
	Street BRP210 Star 22W CW (5700K) LED29 220-240V	911401831398
	Street BRP210 Star 18W CW (5700K) LED24 220-240V	911401833598
 Essential Flood	SmartBright Essential Flood	
	SmartBright BVP161 Flood 30W WW (3000K) LED23 220-240V Gold	911401805998
	SmartBright BVP161 Flood 30W WW (3000K) LED23 220-240V Grey	911401805698
	SmartBright BVP161 Flood 30W CW (5700K) LED26 220-240V Gold	911401806398
	SmartBright BVP161 Flood 30W CW (5700K) LED26 220-240V Grey	911401805598
 Troffer G2	SmartBright Troffer G2	
	SmartBright RC098V Troffer 52W CW (6500K) W60 L120 LED44S GM G2	911401540221
	SmartBright RC098V Troffer 52W NW (4000K) W60 L120 LED44S GM G2	911401540321
	SmartBright RC098V Troffer 26W CW (6500K) W30 L120 LED22S GM G2	911401540421
	SmartBright RC098V Troffer 26W NW (4000K) W30 L120 LED22S GM G2	911401540521
 downlight	LED ESSGLO downlight	
	Essglo 59370 Downlight 3.5W WW (2700K) 080 SI	915005279601
	Essglo 59370 Downlight 3.5W NW (4000K) 080 SI	915005279701
	Essglo 59370 Downlight 3.5W CW (6500K) 080 SI	915005279801
	Essglo 59371 Downlight 5W WW (2700K) 090 SI	915005279901
	Essglo 59371 Downlight 5W NW (4000K) 090 SI	915005280001
	Essglo 59371 Downlight 5W CW (6500K) 090 SI	915005280101
	Essglo 59372 Downlight 7W WW (2700K) 105 SI	915005280201
	Essglo 59372 Downlight 7W NW (4000K) 105 SI	915005280301
	Essglo 59372 Downlight 7W CW (6500K) 105 SI	915005280401
 SmarBright Lowbay	SmartBright Lowbay	
	SmartBright Low Bay BY158P 20W WW (3000K) LED16 PSU	911401832299
	SmartBright Low Bay BY158P 20W NW (4000K) LED16 PSU	911401832399
	SmartBright Low Bay BY158P 20W CW (6500K) LED16 PSU	911401832499
	SmartBright Low Bay BY158P 29W WW (3000K) LED21 PSU	911401832599
	SmartBright Low Bay BY158P 29W NW (4000K) LED21 PSU	911401832699
	SmartBright Low Bay BY158P 29W NW (4000K) LED21 PSU	911401832899
	SmartBright Low Bay BY158P 40W WW (3000K) LED33 PSU	911401832799
	SmartBright Low Bay BY158P 40W NW (4000K) LED33 PSU	911401832999
	SmartBright Low Bay BY158P 40W CW (6500K) LED33 PSU	911401833099
 Retrofit-LED tube	SmartBright Low Bay BY118P 20W WW (3000K) LED16 PSU	911401833199
	Retrofit-LED tube	
	Master LEDtube T8 14W CW (6500K) L1200 I 865 HO	929001299408
	Master LEDtube T8 14W NW (4000K) L1200 I 840 HO	929001299308
	Master LEDtube T8 14W WW (3000K) L1200 I 830 HO	929001299208
	Master LEDtube T8 8W CW (6500K) L600 I 865 HO	929001299708
	Master LEDtube T8 8W NW (4000K) L600 I 840 HO	929001299608
	Master LEDtube T8 8W WW (3000K) L600 I 830 HO	929001299508

Partners



Certificates

