



Easy Series



Quality essential energy management and industrial automation devices.

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SCHNEIDER ELECTRIC

EASY SERIES

Quality essential energy management and industrial automation devices.

Schneider Electric's purpose is to empower all to make the most of our energy and resources, bridging progress and sustainability for all. At Schneider, we call this Life Is On.

Easy Series delivers a range of fit-for-purpose energy management and industrial automation products that focus on core features to meet the needs of customers at a value price.

The range includes a variety of energy management and industrial automation products that focus on core features to meet the needs of customers at a value price. Easy Series products are intuitive to set up and use. The series includes essential product lines such as circuit breakers, motor management, metering and push buttons, pilot lights and selector switches.



Schneider
Electric | Easy Series

EasyPact™ CVS

Molded-case circuit breakers (MCCB) with adjustable settings, rated from 16 to 630 A, ideal for applications in small to medium-sized buildings.



EasyPact™ CVS MCCBs
400 A - 630 A

100 A - 250 A

EasyPact™ TVS Motor Control

EasyPact TVS 3 pole contactors from 6A to 630A are for inductive motor applications and 4-pole contactors from 16 A to 125 A are for AC1 applications.



Circuit breaker Contactor Control Relay Thermal overload

EasyLogic™ PM2000 Series & Dual Circuit Meter

EasyPact TVS 3 pole contactors from 6A to 630A are for inductive motor applications and 4-pole contactors from 16 A to 125 A are for AC1 applications.



Plug & Play
PM22xx-equivalent
(METSEPM2220R)

EasyHarmony

The cost effective, reliable and ergonomic solution for your control and signalling applications. Plastic push-buttons, switches with metallic-look ring and pilot lights.



Pushbuttons, spring return:
flush push, mushroom head,
and push-push

Emergency switching off
pushbuttons: turn to release
and push-pull

Selector switches, 2 or
3-position: standard or long
handle Key switches

Double-headed
pushbuttons, spring return

CONTENTS

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- 40 EasyLogic™ PM2000 Series & Dual Circuit Meter**
- 48 EasyHarmony**

Shop the range at
au.rs-online.com/schneider-electric-easy-series



EasyPact™ CVS

General Overview

Low voltage circuit breakers from 100 to 630 A

EasyPact™ CVS is packed with world class features and designed especially to meet technical and commercial needs of customers

- Conforms to IEC 60947-1 and 2
- Breaking Capacities:
 - 25 kA (100 A - 250 A), 36 kA (100 A - 630 A),
 - 50 kA (400 A and 630 A)
- Complete range with Service breaking capacity, $I_{cs} = 100\%$ Ultimate breaking capacity, I_{cu}
- Two frame sizes for complete range helps in faster design and delivery of distribution systems
- Thermal magnetic trip units (100 A - 630 A) and electronic trip units (400 A and 630 A)
- Fault current limitation technology helps to reduce the thermal stresses and thus increases the life of cables and installation
- Front accessible common snap fit auxiliaries simplifies the installation procedures and reduces inventory costs
- Suitability for Isolation ensures that the circuit is isolated from the remainder of the system thus the personnel carry out work with complete safety
- Class 2 front face reinforces safety with unique modular construction where the auxiliaries are isolated from the main current path
- MCCB's can be either pad locked or key locked, thus ensuring safety and better control on installation
- High electrical and mechanical endurances



EasyPact™ CVS MCCBs
400 A - 630 A



General Overview

Easy choice for Quality and Value:
Safe, reliable and simple

Safe

Isolation

- EasyPact™ CVS circuit breakers are suitable for Isolation as defined in IEC 60947-2 standards. The aim of isolation is to separate a circuit or apparatus from the remainder of a system which is energized in order that personnel may carry out work on the isolated part in perfect safety
- MCCB locking with external padlocks enables a user to isolate and undertake maintenance with utmost safety.

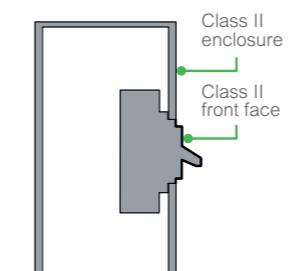


Isolation



Class II front Face

- All EasyPact™ CVS MCCBs are class II Front face devices, they may be installed through the door of class II switchboards without downgrading the switchboard insulation. Installation requires no special operation, even when the Circuit Breaker is equipped with a rotary handle.



Class II panel with circuit breaker having a class II front face



Locking in OFF position

- Key locks enable to lock the breaker in OFF position ensuring safety and better control on installation
- It also helps in interlocking multiple circuit breakers in an installation.



EasyPact™ CVS

General Overview

Reliable

Conforms to IEC 60947-2 for circuit breaker

- Tested at renown international laboratories like KEMA
- Complete range with Ics = 100% Icu



High electrical & Mechanical endurance

- 30000 mechanical operations for 100 A
- 12000 electrical operations for 100 A



Reliable accessories

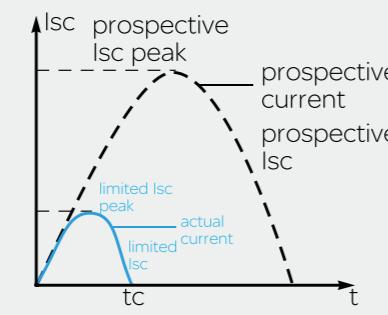
- Continuous rated shunt coils
- Multifunctional Aux./ Alarm contact
- Unique electrical fault trip indication (SDE)

EasyPact™ CVS offer protection for human as well as Electrical installation

- Earth leakage protection through Vigi Module to protect human against leakage current



EasyPact™ CVS Double break Roto mechanism



Current limitation technology

Fault current limitation technology

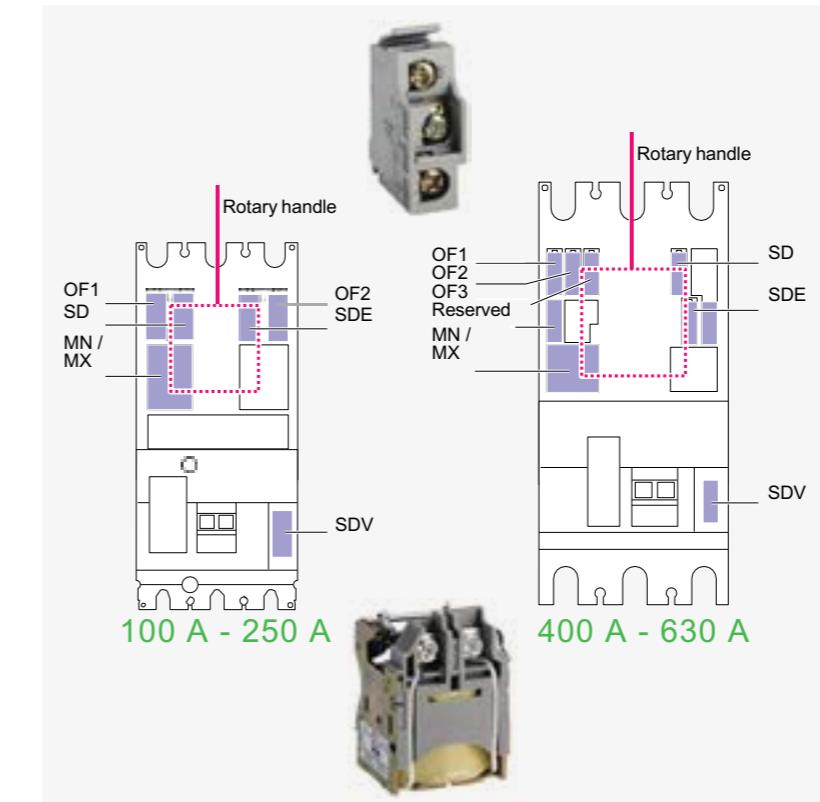
- EasyPact™ CVS Double break mechanism ensures high fault current limitation
 - Reduces thermal stresses on the electrical distribution network
 - Increases the life of cables and installation.

General Overview

Simple

Only two frame sizes up to 630 A

- Frame - I: 100 - 250 A
Frame - II: 400 - 630 A



- Common and snap-fit accessories up to 630 A
- Single OF contact for ON/OFF, Trip indication
- Single Shunt coil for remote tripping
- Single Under Voltage coil
- EasyPact™ CVS share same footprint of ComPact™ Family MCCBs
 - mounting dimensions
 - easy retrofitting
 - system upgradeability.

Stands for customer value



Switchboard Manufacturers

- Only two frame sizes up to 630 A
- Common accessories for complete range (ON/OFF/ Trip Auxiliaries/ Shunt/ UV etc.)
- Line load reversibility for entire range
- Suitable for class II switchboards.

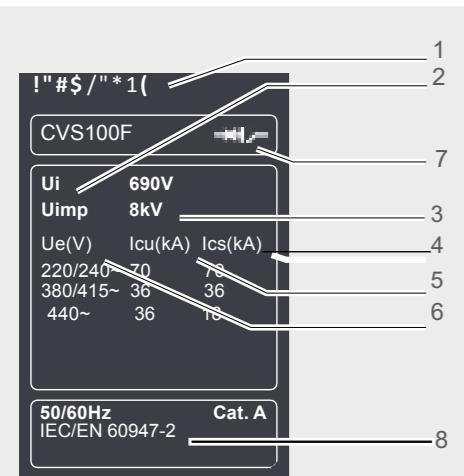
Contractors

- Sufficient pole pitch helps to terminate Copper and Aluminum busbars or cables
- Easy availability of the product due to less number of frame size
- Designed to perform in demanding applications.



EasyPact™ CVS

General Overview



Standardised characteristics indicated on the rating plate:

1. Type of device: frame size and breaking capacity class
2. **Ui**: rated insulation voltage
3. **Uimp**: rated impulse withstand voltage
4. **Ics**: service breaking capacity
5. **Icu**: ultimate breaking capacity for various values of the rated operational voltage **Ue**
6. **Ue**: operational voltage
7. Suitable for Isolation symbol
8. Reference standard

Note: when the circuit breaker is equipped with an extended rotary handle, the door must

Compliance with standards

EasyPact™ CVS circuit breakers and auxiliaries comply with the following international recommendations:

- IEC 60947-1: general rules
- IEC 60947-2: circuit breakers
- IEC 60947-3: switch-disconnectors.

Pollution degree

EasyPact™ CVS circuit breakers are certified for operation in pollution-degree III environments as defined by IEC 60947-1 and IEC 60664-1 standards (industrial environments).

Climatic withstand

EasyPact™ CVS circuit breakers have successfully passed the tests defined by the following standards for extreme atmospheric conditions:

- IEC 60068-2-1: dry cold (-55°C)
- IEC 60068-2-2: dry heat (+85°C)
- IEC 60068-2-30: damp heat (95% relative humidity at 55°C)
- IEC 60068-2-52 severity level 2: salt mist.

Environment

EasyPact™ CVS respects the European environment directive EC/2002/95 concerning the restriction of hazardous substances (RoHS). All EasyPact™ CVS production sites have set up an ISO 14001 certified environmental management system.

Ambient temperature

- EasyPact™ CVS circuit breakers can be used between -25°C and +70°C. For temperatures higher than 40°C (65°C for circuit breakers used to protect motor feeders), devices must be derated.
- Circuit breakers should be put into service under normal ambient, operating temperature conditions. Exceptionally, the circuit breaker can be put into service when the ambient temperature is between -35°C and -25°C.
- The permissible storage-temperature range for EasyPact™ CVS circuit breakers in the original packing is -50°C and +85°C.

Electromagnetic compatibility

EasyPact™ CVS circuit breakers with ETS2.3 electronic trip unit have successfully passed the tests defined by the following standards for EMC:

- IEC/EN 60947-2, Annex F: immunity tests for circuit breakers with electronic protection.

Gain peace of mind,
quality, and value for
your installations



EasyPact™ CVS

Functions and characteristics

Characteristics and performance



EasyPact™ CVS100/160/250

Common characteristics									
Rated voltages									
Insulation voltage (V)	Ui								690
Impulse withstand voltage (kV)	Uimp								8
Operational voltage (V)	Ue	AC 50/60 Hz							440
Suitability for isolation		IEC/EN 60947-2							yes
Utilisation category									A
Pollution degree		IEC 60664-1							3
Circuit breakers									
Performance				CVS100	CVS160	CVS250	CVS400	CVS630	
Electrical characteristics as per IEC 60947-2									
Rated current (A)	In	40°C		100	160	250	400	630	
Number of poles				3, 4	3, 4	3, 4	3, 4	3, 4	
Breaking capacity levels									
Breaking capacity (kA rms)	Icu	AC 50/60 Hz	220/240 V 380/415 V 440 V	40 70 90 25 36 50 20 36 50	40 70 90 25 36 50 20 36 50	40 70 90 25 36 50 20 36 50	40 70 36 50 30 42	40 70 36 50 30 42	
Service breaking capacity (kA rms)	Ics	AC 50/60 Hz	220/240 V 380/415 V 440 V	40 70 90 25 36 50 15 18 38	40 70 90 25 36 50 15 18 38	40 70 90 25 36 50 15 18 38	40 70 36 50 23 32	40 70 36 50 23 32	
Durability (C-O cycles)									
Mechanical				30000	25000	20000	15000	15000	
Electrical	415V	In/2		30000 12000	25000 12000	20000 10000	12000 6000	8000 4000	
Protection									
Short-circuit protection	Magnetic only								
b	b	b	b	b	b				
Overload/short-circuit protection	Thermal magnetic Electronic With neutral protection (Off-0.5-1)								
b	b	b	b	b	b	b	b	b	b
Earth-leakage protection	By Vigi module								
b	b	b	b	b	b	b	b	b	b
Installation/connections									
Dimensions and weights									
Dimensions (mm) W x H x D	Fixed, front connections	3P		105 x 161 x 86	105 x 161 x 86	105 x 161 x 86	140 x 255 x 110	140 x 255 x 110	
		4P		140 x 161 x 86	140 x 161 x 86	140 x 161 x 86	185 x 255 x 110	185 x 255 x 110	
Weight (kg)	Fixed, front connections	3P		1.8	1.8	2.0	4.7	5.2	
		4P		2.2	2.3	2.6	6.3	7.1	
Connections									
Connection terminals	Pitch	Without spreaders		35/45 mm	35/45 mm	35/45 mm	45/52.5 mm	45/52.5 mm	
		With spreaders					45/70 mm	45/70 mm	
Large Cu or Al cables	Cross-section mm²			300	300	300	4 x 240	4 x 240	



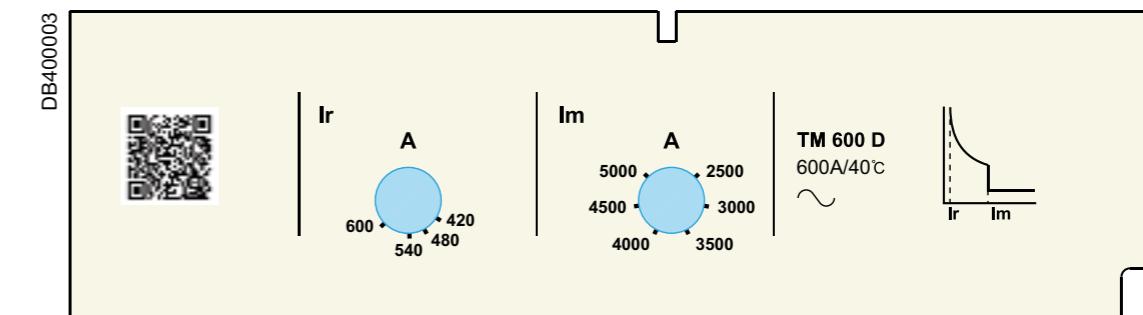
EasyPact™ CVS400/630

Functions and characteristics

Protection of distribution systems

TM-D thermal-magnetic trip units can be used on EasyPact™ CVS100-630 circuit breakers with performance levels B/F/N.

TM-D thermal-magnetic trip units



Protection

TM-D trip units are used mainly in electrical distribution applications for protection of cables supplied by transformers.

Thermal protection (Ir)

Thermal protection operates according to:

- Ir that can be adjusted in amps from 0.7 to 1 times the rating of the trip unit (16 A to 250 A), corresponding to settings from 11 to 250 A for the range of trip units
- a non-adjustable time delay.

Magnetic protection (Im)

Short-circuit protection with a fixed or adjustable pick-up Im that initiates instantaneous tripping if exceeded.

- TM-D: fixed pick-up, Im, for 16 A to 250 A ratings and adjustable from 5 to 10 x In for 400 A ratings, 4.2 to 8.3 x In for 600 A rating.

Protection versions

- 3-pole:
 - 3P 3D: 3-pole frame (3P) with detection on all 3 poles (3D).
- 4-pole:
 - 4P 3D: 4-pole frame (4P) with detection on 3 poles (3D),
 - 4P 4D: 4-pole frame (4P) with detection on all 4 poles (same threshold for phases and neutral).

EasyPact™ CVS

Functions and characteristics

Thermal-magnetic trip units		TM16D to 250D												TM320D to 600D					
Ratings (A)	In at 40°C ¹	16	25	32	40	50	63	80	100	125	160	200	250	320	400	500	600		
Circuit breaker	CVS100	■	■	■	■	■	■	■	■	-	-	-	-	-	-	-	-	-	
	CVS160	-	-	-	-	-	-	-	■	■	■	■	■	-	-	-	-	-	
	CVS250	-	-	-	-	-	-	-	-	-	■	■	■	-	-	-	-	-	
	CVS400	-	-	-	-	-	-	-	-	-	-	-	-	■	■	-	-	-	
	CVS630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	■	■	-	
Magnetic protection																			
Pick-up (A) accuracy ±20%	Im	Fixed	-	-	-	-	-	-	-	-	-	-	-	Adjustable	-	-	-	-	
	CVS100	190	300	400	500	500	640	800	-	-	-	-	-	-	-	-	-	-	
	CVS160/250	-	-	-	-	-	-	-	800	1250	1250	2000	2500	-	-	-	-	-	
	CVS400	-	-	-	-	-	-	-	-	-	-	-	-	1600 to 3200 (320 A) 2000 to 4000 (400 A)	-	-	-	-	
	CVS630	-	-	-	-	-	-	-	-	-	-	-	-	2500 to 5000	-	-	-	-	
Thermal protection																			
Pick-up (A) tripping between 1.05 and 1.30 Ir	Ir = In x ...	Adjustable in amps from 0.7 to 1 x In																	
Neutral protection																			
Unprotected neutral	4P 3D	No detection																	
Fully protected neutral	4P 4D	1 x Ir																	

¹ For temperatures not equal to 40°C, the thermal protection characteristics are modified. See the temperature derating table.

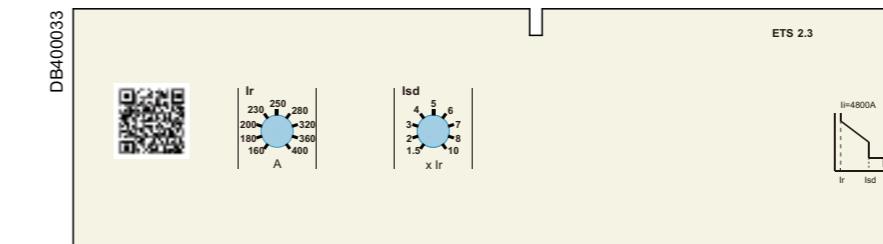
Note: All the trip units have a transparent lead-sealable cover that protects access to the adjustment dials.

Functions and characteristics

Protection of distribution systems

ETS 2.3 electronic trip unit and accessories

ETS2.3 electronic trip unit



Circuit breakers equipped with ETS2.3 trip units can be used to protect distribution systems supplied by transformers.

Protection

Settings are made using the adjustment dials with adjustment possibilities.

Overloads: Long time protection (Ir)

Inverse time protection against overloads with an adjustable current pick-up Ir set using a dial and a non-adjustable time delay tr.

Short-circuits: Short-time protection with fixed time delay (Isd)

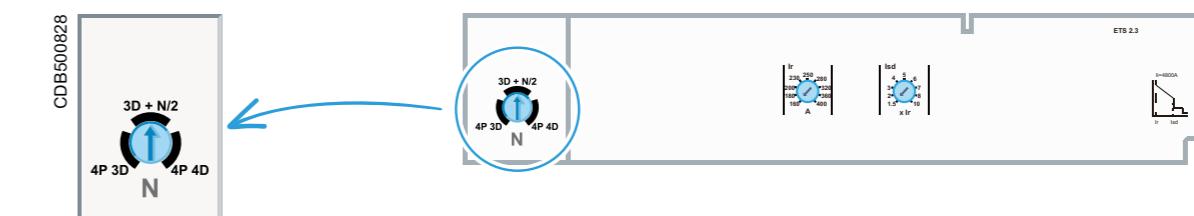
Protection with an adjustable pick-up Isd. Tripping takes place after a very short delay used to allow discrimination with the downstream device.

Short-circuits: Non-adjustable instantaneous protection

Instantaneous short-circuit protection with a fixed pick-up.

Neutral protection

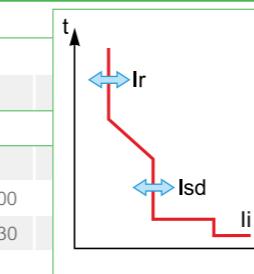
- On 3-pole circuit breakers, neutral protection is not possible.
- On four-pole circuit breakers, neutral protection may be set using a three-position switch:
 - 4P 3D: neutral unprotected,
 - 4P 3D + N/2: neutral protection at half the value of the phase pick-up, i.e. 0.5 x Ir,
 - 4P 4D: neutral fully protected at Ir.



EasyPact™ CVS

Functions and characteristics

ETS2.3											
Ratings (A)		In at 40°C ¹		400		630					
Circuit breaker		CVS400		<input checked="" type="checkbox"/>		-					
		CVS630		-		<input checked="" type="checkbox"/>					
L Long-time protection											
Pick-up (A) tripping between 1.05 and 1.20 Ir	In = 400 A	Ir =	160	180	200	230	250	280	320	360	400
	In = 630 A	Ir =	250	280	315	370	400	440	505	565	630
Time delay (s) accuracy 0 to -20%	tr	keypad setting	Non-adjustable		200		8		5.5		
		1.5 x Ir	200		8		5.5		20 minutes before and after tripping		
Thermal memory		7.2 x Ir		20 minutes before and after tripping							
S Short-time protection with fixed time delay											
Pick-up (A) accuracy ±10%	Isd = Ir x ...	1.5	2	3	4	5	6	7	8	10	
	tsd	Non-adjustable									
	Non-tripping time	20									
	Maximum break time	80									
I Instantaneous protection											
Pick-up (A) accuracy ±15%	II non-adjustable	4800 6930									
	Non-tripping time	10 ms									
	Maximum break time	50 ms for I>II									



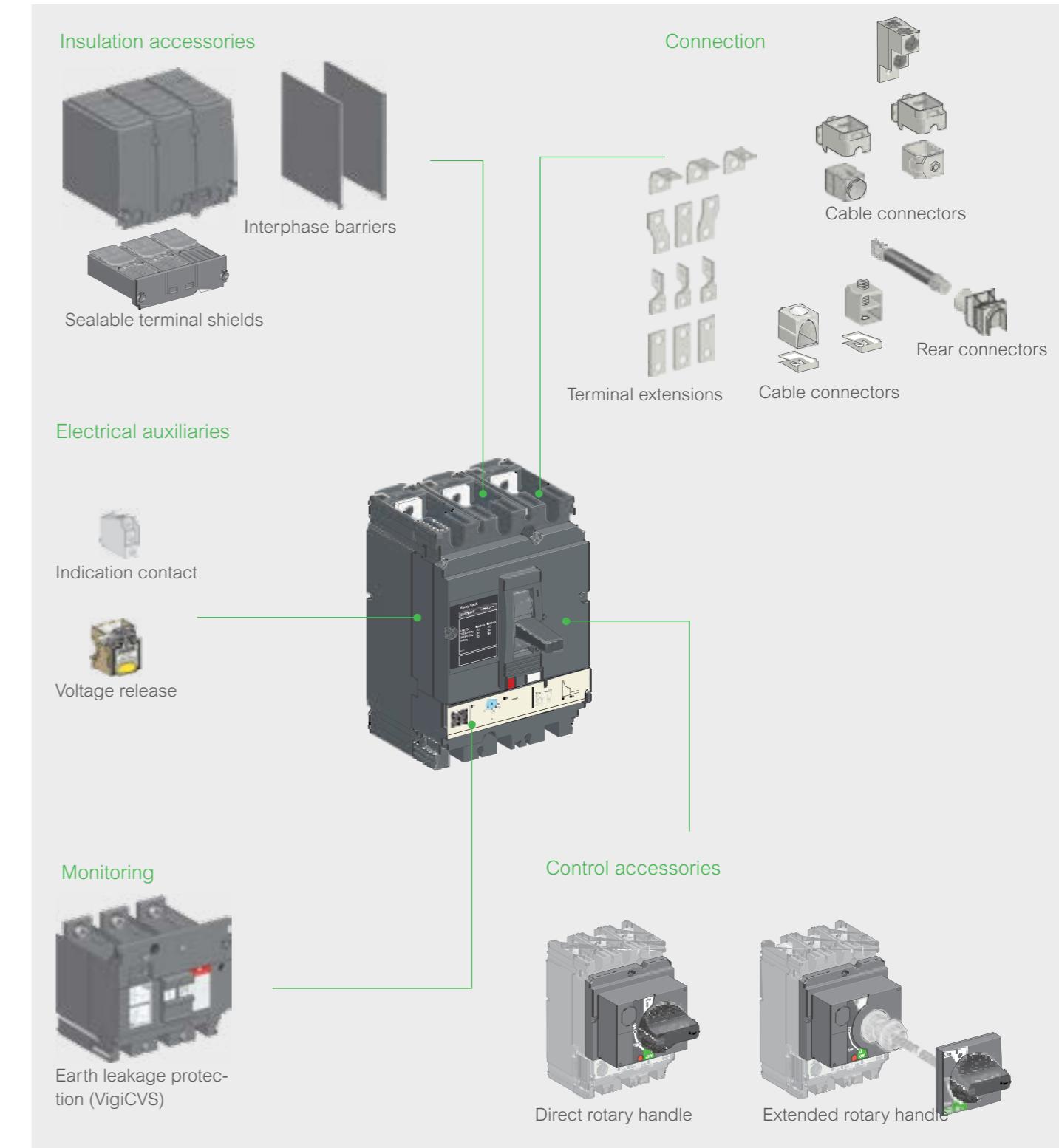
¹ If the trip units are used in high-temperature environments, the ETS^{2.3} setting must take into account the thermal limitations of the circuit breaker. See the temperature derating table.

Note: All the trip units have a transparent lead-sealable cover that protects access to the adjustment dials.

Functions and characteristics

Accessories and auxiliaries

Overview



CVS100/160/250: complete fixed/FC device

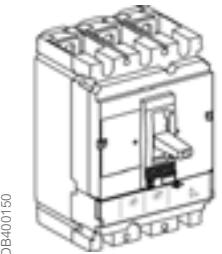
Reference Numbers

EasyPact™ CVS100/160/250

(25 kA/36kA, 380/415 V)

EasyPact™ CVS100/160/250B (25kA)

With TM-D thermal-magnetic trip unit



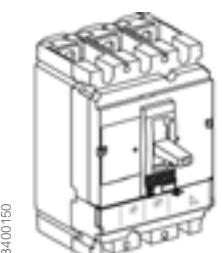
EasyPact™ CVS100B (25 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM16D	LV510300	260-9711	LV510310	260-9719
TM25D	LV510301	260-9712	LV510311	260-9720
TM32D	LV510302	260-9713	LV510312	260-9721
TM40D	LV510303	260-9714	LV510313	260-9723
TM50D	LV510304	260-9715	LV510314	260-9724
TM63D	LV510305	260-9716	LV510315	260-9725
TM80D	LV510306	260-9717	LV510316	260-9726
TM100D	LV510307	260-9718	LV510317	260-9727

EasyPact™ CVS160B (25 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM125D	LV516302	260-9755	LV516312	260-9757
TM160D	LV516303	260-9756	LV516313	260-9758

EasyPact™ CVS250B (25 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM200D	LV525305	260-9765	LV525315	-
TM250D	LV525306	260-9767	LV525316	-

EasyPact™ CVS100/160/250F (36kA)

With TM-D thermal-magnetic trip unit



EasyPact™ CVS100F (36 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM16D	LV510330	260-9728	LV510340	260-9736
TM25D	LV510331	260-9729	LV510341	260-9737
TM32D	LV510332	260-9730	LV510342	260-9739
TM40D	LV510333	260-9731	LV510343	260-9740
TM50D	LV510334	260-9732	LV510344	260-9741
TM63D	LV510335	260-9733	LV510345	260-9742
TM80D	LV510336	260-9734	LV510346	260-9743
TM100D	LV510337	260-9735	LV510347	260-9745

EasyPact™ CVS160F (36 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM125D	LV516332	260-9761	-	-
TM160D	LV516333	260-9762	-	-

EasyPact™ CVS250F (36 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM200D	LV525335	260-9768	LV525345	-
TM250D	LV525336	260-9769	LV525346	-

CVS100/160/250N: complete fixed/FC device

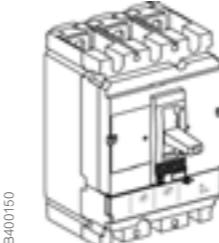
Reference Numbers

EasyPact™ CVS100/160/250N

(50 kA 380/415 V)

EasyPact™ CVS160/250N

With TM-D thermal-magnetic trip unit



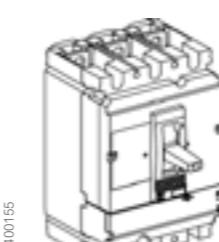
EasyPact™ CVS100N (50 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM16D	LV510470	260-9746	-	-
TM25D	LV510471	260-9747	-	-
TM32D	LV510472	260-9748	-	-
TM40D	LV510473	260-9749	-	-
TM50D	LV510474	260-9751	-	-
TM63D	LV510475	260-9752	-	-
TM80D	LV510476	260-9753	-	-
TM100D	LV510477	260-9754	-	-

EasyPact™ CVS160N (50 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM125D	LV516462	260-9763	-	-
TM160D	LV516463	260-9764	-	-

EasyPact™ CVS250N (50 kA at 380/415 V)				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
TM200D	LV525452	260-9771	-	-
TM250D	LV525453	260-9773	-	-

EasyPact™ CVS 250NA switch-disconnector

With NA switch-disconnector unit



EasyPact™ CVS250NA				
Rating	3P 3d	3P 3d RS Stock No.	4P 3d	4P 3d RS Stock No.
250	LV525425	260-9770	-	-

Accessories

Reference Numbers

EasyPact™ and Vigi CVS100/160/250

EasyPact™ CVS100/160/250F (36kA)

Rear connections			
2 short			LV429235
2 long			LV429236
Bare cable connectors			
Steel connectors	1 x (1.5 to 95 mm ²) ; y 160 A	Set of 3	LV429242
		Set of 4	LV429243
Aluminium connectors	1 x (25 to 95 mm ²) ; y 250 A	Set of 3	LV429227
		Set of 4	LV429228
	1 x (120 to 185 mm ²) ; y 250 A	Set of 3	LV429259
		Set of 4	LV429260
Clips for connectors		Set of 10	LV429241
Aluminium connectors for 2 cables ⁽¹⁾	2 x (50 to 120 mm ²) ; y 250 A	Set of 3	LV429218
		Set of 4	LV429219
6.35 mm voltage tap for steel or aluminium connectors		Set of 10	LV429348
Terminal extensions			
Spreaders from 35 to 45 mm pitch ⁽¹⁾		Set of 3	LV431563
		Set of 4	LV431564
Insulation accessories			
1 short terminal shield for breaker	3 P	LV429515	
	4 P	LV429516	
1 long terminal shield for breaker	3 P	LV429517	
	4 P	LV429518	
Interphase barriers for breaker		Set of 6	LV429329
2 insulating screens for breaker (45 mm pitch)	3 P	LV429330	
	4 P	LV429331	

⁽¹⁾ Supplied with 2 or 3 interphase barriers.

Accessories

Reference Numbers

EasyPact™ and Vigi CVS100/160/250

Electrical auxiliaries

Auxiliary contacts (changeover)			
OF or SD or SDE or SDV			29450
OF or SD or SDE or SDV low level			29452
SDE adaptor, mandatory for trip unit TM, MA			
			LV429451

Voltage releases

Voltage	MX	MN
AC 110-130 V 50/60 Hz	LV429386	LV429406
DC 220-240 V 50/60 Hz and 208-277 V 60 Hz	LV429387	LV429407

Rotary handles

With black handle	LV429337
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Extended rotary handle

With black handle	LV429338
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Locks

Toggle locking device for 1 to 3 padlocks	29370
By removable device	

Locking of rotary handle

Keylock adaptor (keylock not included)			LV429344
Keylock (keylock adaptor not included)	Ronis 1351B.500		41940
	Profalux KS5 B24 D4Z		42888

CVS400/630: complete fixed/FC device

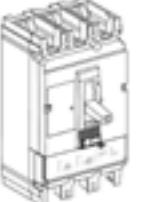
Reference Numbers

EasyPact™ CVS400/630F/N

(25 kA/36kA, 380/415 V)

EasyPact™ CVS400/630F

With TM-D thermal-magnetic trip unit



DB400008

EasyPact™ CVS400F (36 kA at 380/415 V)				
Rating	3P 3d	4P 3d		
TM320D	LV540305	260-9780	LV540308	260-9782
TM400D	LV540306	260-9781	LV540309	260-9783
EasyPact™ CVS630F (36 kA at 380/415 V)				
Rating	3P 3d	4P 3d		
TM500D	LV563305	260-9793	LV563308	260-9796
TM600D	LV563306	260-9795	LV563309	260-9797

EasyPact™ CVS400/630N

With TM-D thermal-magnetic trip unit



DB400008

EasyPact™ CVS400N (50 kA at 380/415 V)				
Rating	3P 3d	4P 3d		
TM320D	LV540315	260-9784	LV540318	260-9786
TM400D	LV540316	260-9785	LV540319	260-9787
EasyPact™ CVS630N (50 kA at 380/415 V)				
Rating	3P 3d	4P 3d		
TM500D	LV563315		LV563318	
TM600D	LV563316		LV563319	

EasyPact™ CVS400/630F

ETS 2.3 electronic trip unit (LS0I protection)



DB400021

		3P 3d	4P 3d, 4d, 3d + N/2
EasyPact™ CVS400F (36 kA at 380/415 V)	400 A	LV540505	LV540506
EasyPact™ CVS630F (36 kA at 380/415 V)	630 A	LV563505	LV563506

EasyPact™ CVS400/630N

ETS 2.3 electronic trip unit (LS0I protection)



DB400021

		3P 3d	4P 3d, 4d, 3d + N/2
EasyPact™ CVS400N (50 kA at 380/415 V)	400 A	LV540510	LV540511
EasyPact™ CVS630N (50 kA at 380/415 V)	630 A	LV563510	LV563511

EasyPact™ TVS

General Overview

Low voltage motor starter solutions from 6 to 630 A

The EasyPact™ TVS provides the essential performance, reliability, and cost- effectiveness required to meet the majority of LV motor starter needs.

Contactor

- 9 sizes from 6 to 630A
- 2.2 kW to 335 kW (AC3 / 400V)
- AC control
- Embedded auxiliary contacts



Thermal overload relay

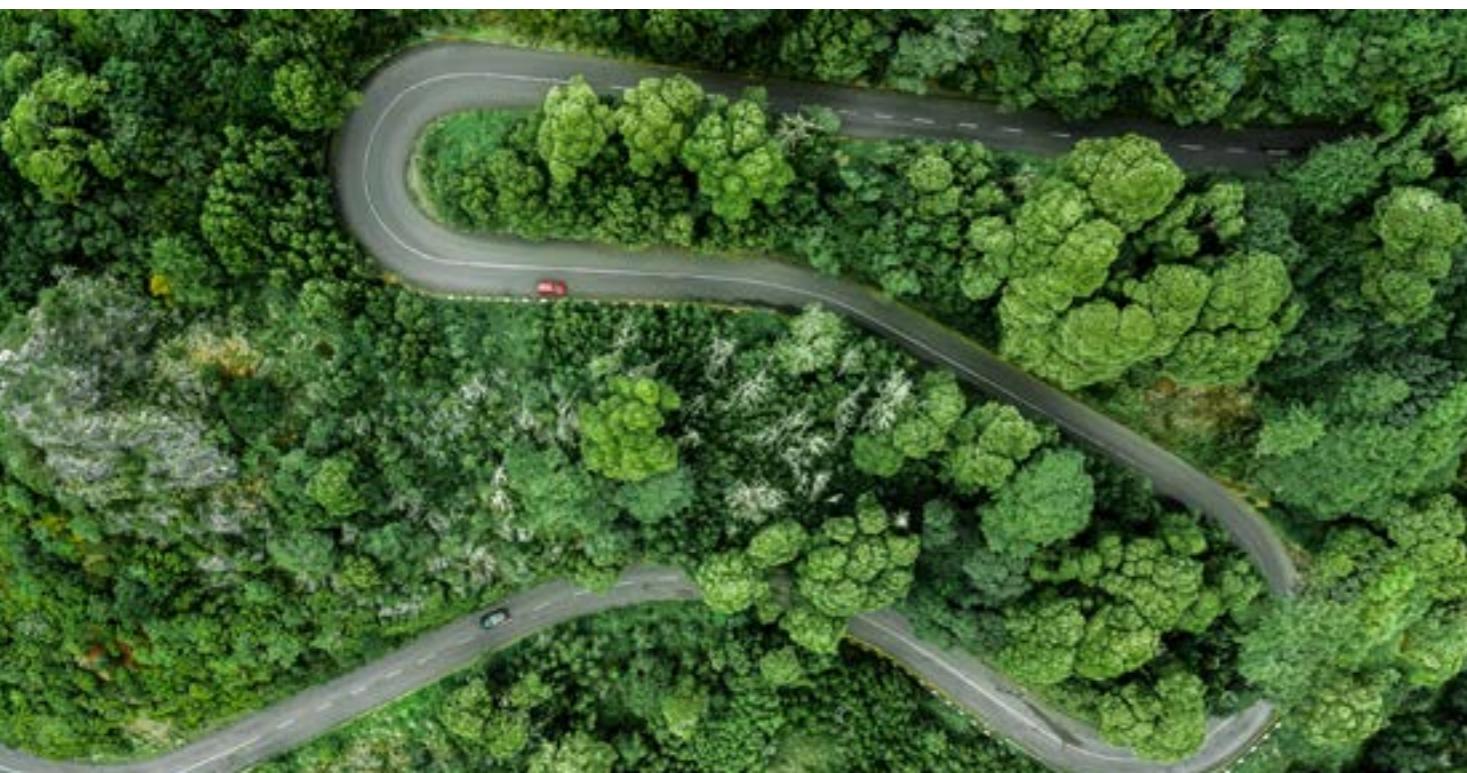
- Direct mounting under contactors
- Class 10A

Motor protection circuit breaker

- One size from 0.37 to 15 kW
- Width = 44.5 mm
- Icu breaking capacity up to 100 kA

Control relay

- 2 NO / 2 NC
- 3 NO / 1 NC
- 4 NO / 0 NC

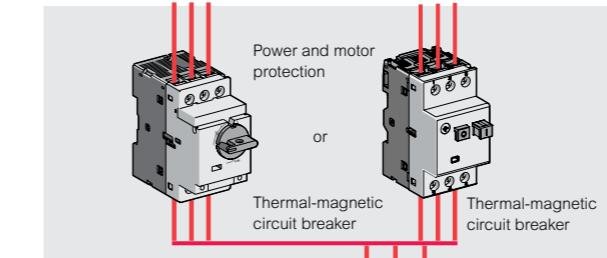


General Overview

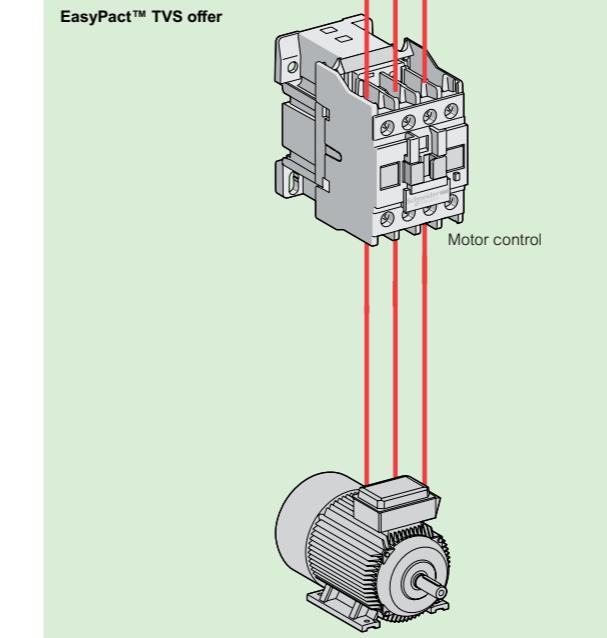
2 principles to build your starter solution

2-components solution

(Thermal-magnetic circuit breaker + Contactor)

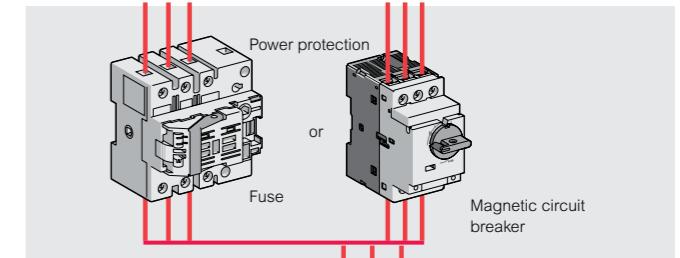


EasyPact™ TVS offer

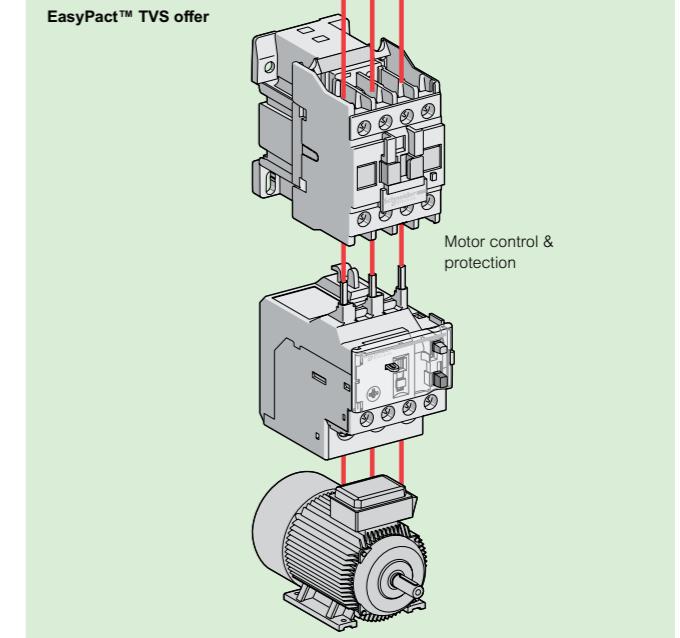


3-components solution

(Magnetic circuit breaker or fuse + Contactor + TOR)

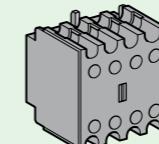


EasyPact™ TVS offer

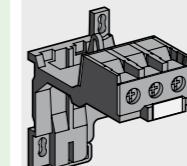


To build the essential solutions in an easy and simple way

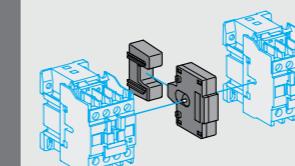
Control



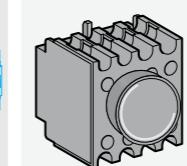
Terminal Block



Reverse starter



Star-Delta solution



EasyPact™ TVS

General Overview

EasyPact™ TVS range

Comprehensive, simple, and capable motor starter solutions

EasyPact™ TVS provides all the performance, reliability, and cost-effectiveness required to meet the majority of LV motor starter needs.

Precision engineered to deliver the optimal set of capabilities, EasyPact™ TVS is a value-leader and ideal choice for AC1 and AC3 applications in HVAC, textile, material handling, and manufacturing environments, to name just a few.

Choose EasyPact™ TVS when you need to cover the broadest range of motor starting applications, simply, easily, and effectively.



Complete
range%

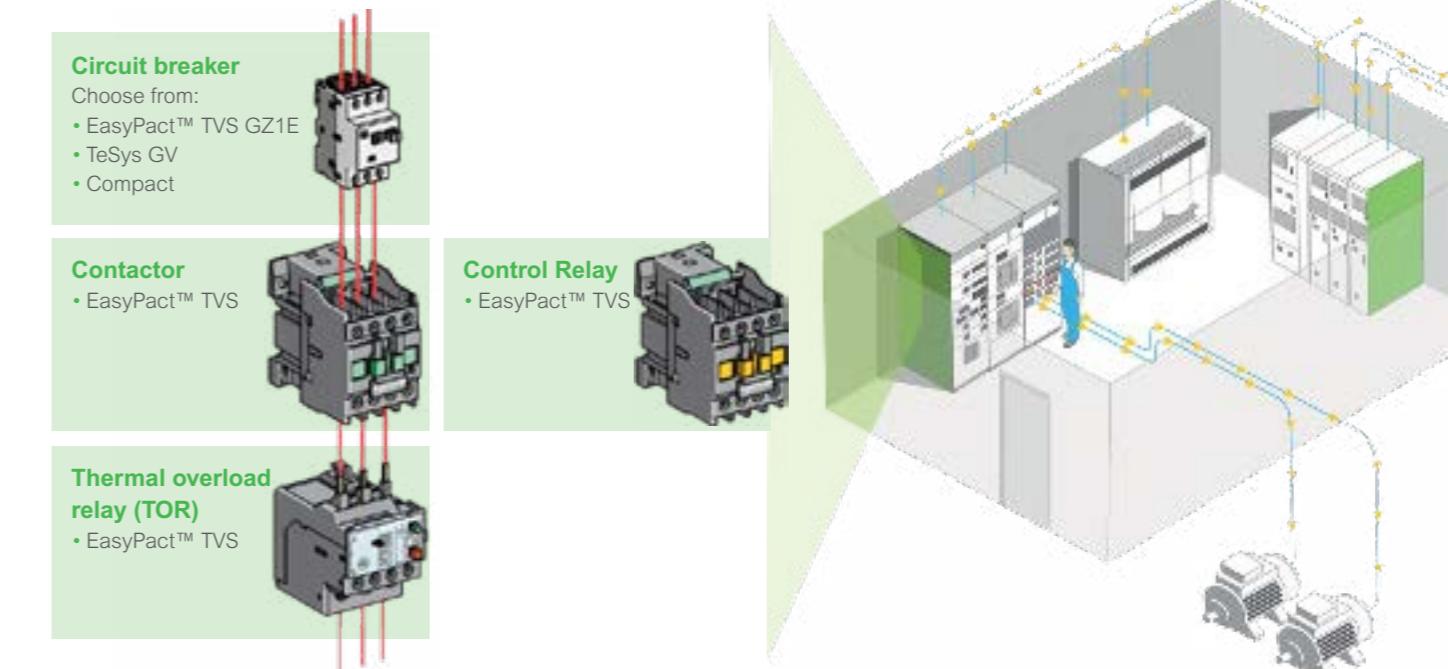
of motor starter solutions

80 years

of leadership in motor
starter technology

General Overview

The performance you need



Four products to protect and control

Electric motors keep processes and facilities running, help enhance productivity and, when effectively controlled, keep costs in line.

EasyPact™ TVS solutions give you everything you need to control and protect motor loads in a wide variety of applications. Each essential component is compact while being quick and easy to install.

They combine seamlessly together to provide all of the essential functions for reliable control, with overload and short circuit protection.

80%

of common applications
covered

Part of the EasyPact™ family of protection and control solutions

The EasyPact™ TVS range of motor starters delivers the perfect balance of:

The performance you need

Application-optimized EasyPact™ TVS features answer 80% of your motor starting needs.

At a cost-effective investment

With simplicity of selection, purchasing, stocking, and installation designed into every unit, pay only for what you need and avoid specifying lower quality alternatives just to obtain excellent value.

With the quality you demand

Using advanced manufacturing methods and premium materials, EasyPact™ TVS delivers the Schneider Electric commitment to quality without compromise.

Delivering the essential capabilities

Motor protection circuit breaker

- One size from 0.37 to 15 kW
- Width = 44.5 mm
- Icu breaking capacity up to 100 kA

Thermal overload relay

- The complete range offers optional direct mounting under contactors
- Class 10 A

Contactor

- Nine sizes from 6 to 630A
- 2.2 kW to 335 kW (AC3 / 400 V)
- AC control
- Embedded auxiliary contacts
- Type1 co-ordination

Control relay

- Choose from three combinations of contact types: 2 NO / 2 NC, 3 NO / 1 NC, 4 NO / 0 NC

EasyPact™ TVS

General Overview

A cost-effective investment

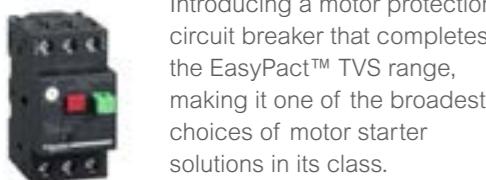
Optimized cost and maximum flexibility

In response to increasingly tight budgets in today's cost-conscious business environment, the EasyPact™ TVS range has been engineered with optimization in mind.

All components provide an optimum range of features, performance, and quality at their price point.

Extended flexibility

A maximum number of solutions are covered with an extended range of products, helping you reduce stocking requirements and simplify design.



Easy ordering and stocking

An intuitive sales reference system ensures EasyPact™ TVS components are straightforward to understand, order, and stock.

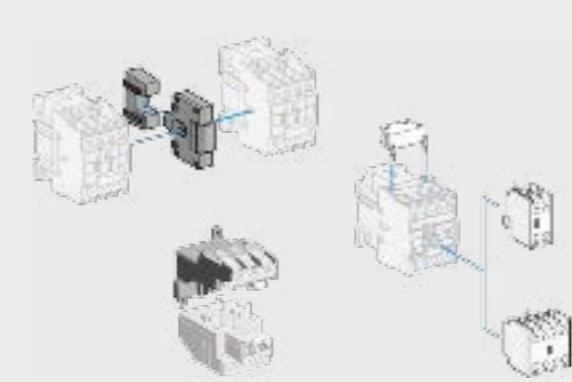


Easy installation

EasyPact™ TVS components are easy to install in new panels or retrofit in existing motor control panels. Devices are designed for compatibility, which reduces the amount of cabling and time required, while enhancing reliability.

9 sizes

cover common applications from 6 to 630 A



Key accessories for do-it-yourself solutions

Control

- Auxiliary contact block (LAEN)

Star Delta

- Time delay auxiliary contact block (LAETSD)

Reversing starter

- Mechanical interlock (LAEM)

Terminal block

- Enables separate mounting of thermal overload relay (LAEB)

General Overview

The quality you demand

The reliability and expertise you depend on

Being the Global Specialist in Energy Management™ means more than simply supplying industry-leading products, integrated solutions, and comprehensive services to customers around the world.

It also means leveraging our strong local presence and multidisciplinary expertise to ensure all your projects deliver more for less-on time and on budget.

Choose the leader

Schneider Electric leadership in energy management and power protection has resulted in an unparalleled portfolio of high quality products trusted for use in demanding applications.

All offers are easy to find and order, and you can count on our global network of skilled sales, engineering, and support professionals to help you be your most efficient.

An assurance of safety

The EasyPact™ TVS range conforms to the IEC 60947 standards, and all components are fully tested, approved, and certified by national, international, and third party organizations.

Proven quality

When you want exceptional quality and value in a motor starter, turn to Schneider Electric

The EasyPact™ TVS range is manufactured from premium materials in ISO 9001 and ISO 14000 certified production plants.

Motor protection circuit breaker

The EasyPact™ TVS circuit breaker is designed specifically for motor protection applications, offering simplicity in a single size combined with breaking capacity performance up to 100 kVA.

Control relay

Three types of EasyPact™ TVS control relays, with 4 normally open (NO) and normally closed (NC) contacts, support any requirement to interface EasyPact™ TVS contactors with manual control devices or automation equipment.

**ISO9001
ISO14000**

quality certified manufacturing

100%

Commitment to quality



EasyPact™ TVS

Functions and characteristics

EasyPact™ TVS contactors

3-pole contactors from 6 to 630 A



Size		1					2		3			
Rated operational current AC-3	A	6	9	12	18	25	32	38	40	50	65	
Rated operational current AC-1	A	20	25	32	36	50	60	70	80			
Rated operational power in AC-3	220/230 V	1.1	2.2	3	4	5.5	7.5	9	11	15	18.5	
	380/400 V	2.2	4	5.5	7.5	11	15	18.5	18.5	22	30	
	415/440 V	2.2	4	5.5	9	11	15	18.5	22	25/30	37	
	500 V	3	5.5	7.5	10	15	18.5	18.5	22	30	37	
	660/690 V	3	5.5	7.5	10	15	18.5	18.5	30	33	37	
Width	mm	45		45.5		56		75				
Coil rated operating voltage		24...440 V AC according to the coil voltage code (see below)										
Auxiliary built in contact		1 NO or 1 NC					1 NO + 1 NC					
References ^[1]		LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65	

^[1] Partial



Size		4		5		6					
Rated operational current AC-3	A	80	95	120	160	200	250				
Rated operational current AC-1	A	110	120	150	200	250	300				
Rated operational power in AC-3	220/230 V	22	25	37	45	55	75				
	380/400 V	37	45	55	75	90	132				
	415/440 V	45	45	59	80	100	140				
	500 V	45	55	75	90	110	160				
	660/690 V	45	45	80	100	110	160				
Width	mm	85		120		168.5					
Coil rated operating voltage		24...440 V AC according to the coil voltage code (see below)									
Auxiliary built in contact		1 NO + 1 NC					-				
References ^[1]		LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250				

^[1] Partial

Functions and characteristics

EasyPact™ TVS contactors

3-pole contactors from 6 to 630 A



Size		7		8		9					
Rated operational current AC-3	A	300	400	500		630					
Rated operational current AC-1	A	320	500	700		1000					
Rated operational power in AC-3	220/230 V	90	110	147		185					
	380/400 V	160	200	250		335					
	415/440 V	160/185	220/250	280/295		375/400					
	500 V	200	257	355		400					
	660/690 V	220	280	335		450					
Width	mm	213	213	233		309					
Coil rated operating voltage		24...440 V AC according to the coil voltage code (see below)									
Auxiliary built in contact		-									
References ^[1]		LC1E300	LC1E400	LC1E500		LC1E630					

^[1] Partial

Common characteristics

Contactors compatible with:

- LAENp auxiliary contact blocks
- LAETSD time delay auxiliary contact (from 25 A contactor)
- LAERCpp RC switch suppressor (up to 95 A)
- LAEMp mechanical interlock
- LAEPp set of power connections (up to 95 A)

Utilisation categories

- Class AC-1: AC loads with $\cos \phi$ at least equal to 0.95 (resistive load, heating, distribution, etc.)
- Class AC-3: squirrel-cage motors with breaking taking place with the motor running.

EasyPact™ TVS

Functions and characteristics

EasyPact™ TVS thermal overload relays



Presentation

EasyPact™ TVS thermal overload relays are designed to protect a.c. circuits and motors against:

- overloads
- phase failure
- long starting time
- prolonged stalled rotor condition.

The thermal relay controls permanently the current driven by the motor. When this current exceeds the setting it's auxiliary contacts will change state, causing the motor to stop.

Description

1. Adjustment dial Ir.

2. Test button.

Operation of the Test button allows:

- checking of control circuit wiring,
- simulation of relay tripping (actuates both the N/O and N/C contacts)

3. Stop button. Actuates the N/C contact; does not affect the N/O contact.

4. Reset button.

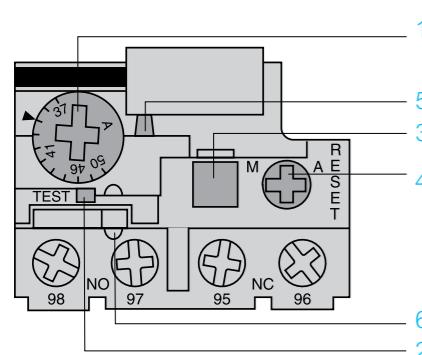
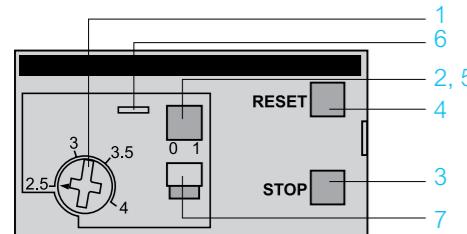
5. Trip indicator.

6. Setting locked by sealing the cover.

7. Selector for manual or automatic reset.

LRE relays are supplied with the selector in the manual position, protected by a cover.

Deliberate action is required to move it to the automatic position.



Functions and characteristics

EasyPact™ TVS thermal overload relays



TOR Com. Ref	Possible Imax Calibration	Compatible with Contactor (size 1 & 2) Com. Ref.						
		LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38
LRE01	0.10...0.16 A	■	■	■	■	■	■	■
LRE02	0.16...0.25 A	■	■	■	■	■	■	■
LRE03	0.25...0.40 A	■	■	■	■	■	■	■
LRE04	0.40...0.63 A	■	■	■	■	■	■	■
LRE05	0.63...1 A	■	■	■	■	■	■	■
LRE06	1...1.6 A	■	■	■	■	■	■	■
LRE07	1.6...2.5 A	■	■	■	■	■	■	■
LRE08	2.5...4 A	■	■	■	■	■	■	■
LRE10	4...6 A	■	■	■	■	■	■	■
LRE12	5.5...8 A		■	■	■	■	■	■
LRE14	7...10 A		■	■	■	■	■	■
LRE16	9...13 A			■	■	■	■	■
LRE21	12...18 A				■	■	■	■
LRE22	16...24 A					■	■	■
LRE32	23...32 A						■	■
LRE35	30...38 A							■

Common characteristics

- Class: 10 A
- Operating voltage: max. 690 V AC.

EasyPact™ TVS

Functions and characteristics

EasyPact™ TVS thermal overload relays



TOR Com. Ref	Possible Imax Calibration	Compatible with Contactor (size 3 & 4) Com. Ref.				
		LC1E40	LC1E50	LC1E65	LC1E80	LC1E95
LRE322	17...25 A	■	■	■	■	■
LRE353	23...32 A	■	■	■	■	■
LRE355	30...40 A	■	■	■	■	■
LRE357	37...50 A	■	■	■	■	■
LRE359	48...65 A			■	■	■
LRE361	55...70 A				■	■
LRE363	63...80 A				■	■
LRE365	80...104 A					■



TOR Com. Ref	Possible Imax Calibration	Compatible with Contactor (size 5, 6, 7, 8 & 9) Com. Ref.							
		LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E630
LRE480	51...81 A	■	■	□	□	□	□	□	□
LRE481	62...99 A	■	■	□	□	□	□	□	□
LRE482	84...135 A	■	■	□	□	□	□	□	□
LRE483	124...198 A		□	■	□	□	□	□	□
LRE484	146...234 A			□	■	■	■	□	□
LRE485	174...279 A			□	■	■	■	□	□
LRE486	208...333 A				■	■	■	□	□
LRE487	259...414 A				■	■	□	□	□
LRE488	321...513 A					□	■	□	□
LRE489	394...630 A					□		■	

Note:

■ means the relay can match with contactor both in electrical and mechanical.

□ means the relay can match with contactor only in electrical (can not directly mounting).

Functions and characteristics

EasyPact™ TVS motor protection circuit breaker GZ1 0.1 A to 32 A

Presentation

Connection

These circuit-breakers are designed for connection by screw clamp terminals. This technique ensures secure, permanent and durable clamping that is resistant to harsh environments, vibration and impact and is even more effective when conductors without cable ends are used. Each connection can take two independent conductors.

Motor ON/OFF pushbutton control

Energisation is controlled manually by operating the Start button "I" 1.

De-energisation is controlled manually by operating the Stop button "O" 2, or automatically by the thermal-magnetic protection elements or by a voltage trip attachment.

Protection of motors and personnel

For thermal magnetic circuit breakers GZ1E, Motor protection is provided by the thermal-magnetic protection elements incorporated in the motor circuit-breaker. The magnetic elements (short-circuit protection) have a non-adjustable tripping threshold, which is equal to about 13 times the maximum setting current of the thermal trips.

The thermal elements (overload protection) include automatic compensation for ambient temperature variations. The rated operational current of the motor is displayed by means of a graduated knob 3.

GZ1 E motor circuit-breakers are easily installed in any configuration thanks to their universal fixing arrangement: screw fixing or clip-on mounting on symmetrical, asymmetrical or combination rails.

Circuit breakers for motor protection and control

EasyPact™ TVS motor circuit breakers GZ1 provide easy and essential solutions for:

- Isolation
- protection against short circuits and overloads
- on-off manual control of motors up to 15 kW.

They are conforming to, depending of the versions, IEC 60947-2 and IEC 60947-4-1.

GZ1					
	Protection against Short-circuits	Overload	Range	Control	Terminals (W x H x D)
GZ1E*	Yes	Yes	Up to 15kW	Push button	Screw clamp 44.5 x 89 x 66

Motor circuit breakers versus fuse protection?

Circuit breakers are a common solution for protecting motor against short circuit s and overloads. As a comparison, a fuse based solution can only provide a partial protection depending on the choice of the fuse type and rating. The thermal magnetic circuit breaker is adjustable and can be fine-tuned to the practical motor load.

The fuse based solution offers a very fast protection.

EasyPact™ TVS

Reference Numbers

EasyPact™ TVS Motor Control

EasyPact™ TVS Contactors with: 1 NO contact (LC1E••10) or 1 NC contact (LC1E••01)



3-pole contactors – 2,2KW		
3P CONTACTOR EasyPact™ TVS 1NC 2,2KW 400V AC3 110VAC	LC1E0601F5	260-9599
3P CONTACTOR EasyPact™ TVS 1NC 2,2KW 400V AC3 240VAC	LC1E0601U5	260-9601
3P CONTACTOR EasyPact™ TVS 1NC 2,2KW 400V AC3 415VAC	LC1E0601N5	260-9600
3P CONTACTOR EasyPact™ TVS 1NO 2,2KW 400V AC3 24VAC	LC1E0610B5	260-9602
3P CONTACTOR EasyPact™ TVS 1NO 2,2KW 400V AC3 110VAC	LC1E0610F5	260-9603
3P CONTACTOR EasyPact™ TVS 1NO 2,2KW 400V AC3 240VAC	LC1E0610U5	260-9605
3P CONTACTOR EasyPact™ TVS 1NO 2,2KW 400V AC3 415VAC	LC1E0610N5	260-9604
3-pole contactors – 4KW		
3P CONTACTOR EasyPact™ TVS 1NC 4KW 400V AC3 24VAC	LC1E0901B5	260-9606
3P CONTACTOR EasyPact™ TVS 1NC 4KW 400V AC3 110VAC	LC1E0901F5	260-9607
3P CONTACTOR EasyPact™ TVS 1NC 4KW 400V AC3 240VAC	LC1E0901U5	260-9610
3P CONTACTOR EasyPact™ TVS 1NC 4KW 400V AC3 415VAC	LC1E0901N5	260-9608
3P CONTACTOR EasyPact™ TVS 1NO 4KW 400V AC3 24VAC	LC1E0910B5	260-9611
3P CONTACTOR EasyPact™ TVS 1NO 4KW 400V AC3 110VAC	LC1E0910F5	260-9612
3P CONTACTOR EasyPact™ TVS 1NO 4KW 400V AC3 240VAC	LC1E0910U5	260-9614
3P CONTACTOR EasyPact™ TVS 1NO 4KW 400V AC3 415VAC	LC1E0910N5	260-9613
3-pole contactors – 5,5KW		
3P CONTACTOR EasyPact™ TVS 1NC 5,5KW 400V AC3 24VAC	LC1E1201B5	260-9616
3P CONTACTOR EasyPact™ TVS 1NC 5,5KW 400V AC3 110VAC	LC1E1201F5	260-9617
3P CONTACTOR EasyPact™ TVS 1NC 5,5KW 400V AC3 240VAC	LC1E1201U5	260-9619
3P CONTACTOR EasyPact™ TVS 1NC 5,5KW 400V AC3 415VAC	LC1E1201N5	260-9618
3P CONTACTOR EasyPact™ TVS 1NO 5,5KW 400V AC3 24VAC	LC1E1210B5	260-9626
3P CONTACTOR EasyPact™ TVS 1NO 5,5KW 400V AC3 110VAC	LC1E1210F5	260-9627
3P CONTACTOR EasyPact™ TVS 1NO 5,5KW 400V AC3 240VAC	LC1E1210U5	260-9629
3P CONTACTOR EasyPact™ TVS 1NO 5,5KW 400V AC3 415VAC	LC1E1210N5	260-9628
3-pole contactors – 7,5KW		
3P CONTACTOR EasyPact™ TVS 1NC 7,5KW 400V AC3 24VAC	LC1E1801B5	260-9635
3P CONTACTOR EasyPact™ TVS 1NC 7,5KW 400V AC3 110VAC	LC1E1801F5	260-9636
3P CONTACTOR EasyPact™ TVS 1NC 7,5KW 400V AC3 240VAC	LC1E1801U5	260-9639
3P CONTACTOR EasyPact™ TVS 1NC 7,5KW 400V AC3 415VAC	LC1E1801N5	260-9638
3P CONTACTOR EasyPact™ TVS 1NO 7,5KW 400V AC3 24VAC	LC1E1810B5	260-9640
3P CONTACTOR EasyPact™ TVS 1NO 7,5KW 400V AC3 110VAC	LC1E1810F5	260-9641
3P CONTACTOR EasyPact™ TVS 1NO 7,5KW 400V AC3 240VAC	LC1E1810U5	260-9644
3P CONTACTOR EasyPact™ TVS 1NO 7,5KW 400V AC3 415VAC	LC1E1810N5	260-9642
3-pole contactors – 11KW		
3P CONTACTOR EasyPact™ TVS 1NC 11KW 400V AC3 24VAC	LC1E2501B5	260-9649
3P CONTACTOR EasyPact™ TVS 1NC 11KW 400V AC3 48VAC	LC1E2501E5	260-9650
3P CONTACTOR EasyPact™ TVS 1NC 11KW 400V AC3 110VAC	LC1E2501F5	260-9651
3P CONTACTOR EasyPact™ TVS 1NC 11KW 400V AC3 240VAC	LC1E2501U5	260-9653
3P CONTACTOR EasyPact™ TVS 1NC 11KW 400V AC3 415VAC	LC1E2501N5	260-9652
3P CONTACTOR EasyPact™ TVS 1NO 11KW 400V AC3 24VAC	LC1E2510B5	260-9658
3P CONTACTOR EasyPact™ TVS 1NO 11KW 400V AC3 110VAC	LC1E2510F5	260-9659
3P CONTACTOR EasyPact™ TVS 1NO 11KW 400V AC3 240VAC	LC1E2510U5	260-9661
3P CONTACTOR EasyPact™ TVS 1NO 11KW 400V AC3 415VAC	LC1E2510N5	260-9660

Note: Contactors with: 1 NO contact (LC1E••10) or 1 NC contact (LC1E••01)

Reference Numbers

EasyPact™ TVS Motor Control

EasyPact™ TVS Contactors with: 1 NO contact (LC1E••10) or 1 NC contact (LC1E••01) (cont.)



3-pole contactors – 15KW		
3P CONTACTOR EasyPact™ TVS 1NC 15KW 400V AC3 24VAC	LC1E3201B5	260-9666
3P CONTACTOR EasyPact™ TVS 1NC 15KW 400V AC3 110VAC	LC1E3201F5	260-9667
3P CONTACTOR EasyPact™ TVS 1NC 15KW 400V AC3 240VAC	LC1E3201U5	260-9669
3P CONTACTOR EasyPact™ TVS 1NC 15KW 400V AC3 415VAC	LC1E3201N5	260-9668
3P CONTACTOR EasyPact™ TVS 1NO 15KW 400V AC3 24VAC	LC1E3210B5	260-9670
3P CONTACTOR EasyPact™ TVS 1NO 15KW 400V AC3 110VAC	LC1E3210F5	260-9672
3P CONTACTOR EasyPact™ TVS 1NO 15KW 400V AC3 240VAC	LC1E3210U5	260-9674
3P CONTACTOR EasyPact™ TVS 1NO 15KW 400V AC3 415VAC	LC1E3210N5	260-9673
3-pole contactors – 18,5KW		
3P CONTACTOR EasyPact™ TVS 1NC 18,5KW 400V AC3 24VAC	LC1E3801U5	260-9676
3P CONTACTOR EasyPact™ TVS 1NC 18,5KW 400V AC3 415VAC	LC1E3801N5	260-9675
3P CONTACTOR EasyPact™ TVS 1NO 18,5KW 400V AC3 24VAC	LC1E3810B5	260-9677
3P CONTACTOR EasyPact™ TVS 1NO 18,5KW 400V AC3 110VAC	LC1E3810F5	260-9678
3P CONTACTOR EasyPact™ TVS 1NO 18,5KW 400V AC3 240VAC	LC1E3810U5	260-9680
3P CONTACTOR EasyPact™ TVS 1NO 18,5KW 400V AC3 415VAC	LC1E3810N5	260-9679

Contactors (with 1 NO +1 NC contact)

3-pole contactors – 18,5KW		
3P CONTACTOR EasyPact™ TVS 18,5KW 400V AC3 24VAC	LC1E40B5	260-9684
3P CONTACTOR EasyPact™ TVS 18,5KW 400V AC3 110VAC	LC1E40F5	260-9685
3P CONTACTOR EasyPact™ TVS 18,5KW 400V AC3 240VAC	LC1E40U5	260-9688
3P CONTACTOR EasyPact™ TVS 18,5KW 400V AC3 415AC	LC1E40N5	260-9686
3-pole contactors – 22KW		
3P CONTACTOR EasyPact™ TVS 22KW 400V AC3 24VAC	LC1E50B5	260-9691
3P CONTACTOR EasyPact™ TVS 22KW 400V AC3 110VAC	LC1E50F5	260-9692
3P CONTACTOR EasyPact™ TVS 22KW 400V AC3 240VAC	LC1E50U5	260-9695
3P CONTACTOR EasyPact™ TVS 22KW 400V AC3 415AC	LC1E50N5	260-9694
3-pole contactors – 30KW		
3P CONTACTOR EasyPact™ TVS 30KW 400V AC3 24VAC	LC1E65B5	260-9699
3P CONTACTOR EasyPact™ TVS 30KW 400V AC3 110VAC	LC1E65F5	260-9701
3P CONTACTOR EasyPact™ TVS 30KW 400V AC3 415AC	LC1E65N5	260-9702
3-pole contactors – 37KW		
3P CONTACTOR EasyPact™ TVS 37KW 400V AC3 24VAC	LC1E80B5	260-9703
3P CONTACTOR EasyPact™ TVS 37KW 400V AC3 110VAC	LC1E80F5	260-9704
3P CONTACTOR EasyPact™ TVS 37KW 400V AC3 240VAC	LC1E80U5	260-9706
3P CONTACTOR EasyPact™ TVS 37KW 400V AC3 415AC	LC1E80N5	260-9705
3-pole contactors – 45KW		
3P CONTACTOR EasyPact™ TVS 45KW 400V AC3 24VAC	LC1E95B5	260-9707
3P CONTACTOR EasyPact™ TVS 45KW 400V AC3 110VAC	LC1E95F5	260-9708
3P CONTACTOR EasyPact™ TVS 45KW 400V AC3 240VAC	LC1E95U5	260-9710
3P CONTACTOR EasyPact™ TVS 45KW 400V AC3 415AC	LC1E95N5	260-9709

Note: Contactors with: 1 NO contact (LC1E••10) or 1 NC contact (LC1E••01). All contactors from 40A – 160A come with 1NO + 1NC

EasyPact™ TVS

Reference Numbers

EasyPact™ TVS Motor Control

EasyPact™ TVS Contactors (with 1 NO +1 NC contact) (cont.)



3-pole contactors – 55kW

3P CONTACTOR EasyPact™ TVS 55kW 400V AC3 24VAC	LC1E120B5	260-9620
3P CONTACTOR EasyPact™ TVS 55kW 400V AC3 110V	LC1E120F5	260-9622
3P CONTACTOR EasyPact™ TVS 55kW 400V AC3 220V	LC1E120M5	260-9623
3P CONTACTOR EasyPact™ TVS 55kW 400V AC3 240V	LC1E120U5	260-9625
3P CONTACTOR EasyPact™ TVS 55kW 400V AC3 415V	LC1E120N5	260-9624

3-pole contactors – 90kW

3P CONTACTOR EasyPact™ TVS 90kW 400V AC3 24VAC	LC1E160B5	260-9630
3P CONTACTOR EasyPact™ TVS 90kW 400V AC3 110V	LC1E160F5	260-9631
3P CONTACTOR EasyPact™ TVS 90kW 400V AC3 220V	LC1E160M5	260-9632
3P CONTACTOR EasyPact™ TVS 90kW 400V AC3 240V	LC1E160U5	260-9634
3P CONTACTOR EasyPact™ TVS 90kW 400V AC3 415V	LC1E160N5	260-9633

Contactors with no 'NO or NC' contact



3-pole contactors – 110kW

3P CONTACTOR EasyPact™ TVS 110kW 400V AC3 24VAC	LC1E200B5	260-9645
3P CONTACTOR EasyPact™ TVS 110kW 400V AC3 110V	LC1E200F5	260-9646
3P CONTACTOR EasyPact™ TVS 110kW 400V AC3 240V	LC1E200U5	260-9648
3P CONTACTOR EasyPact™ TVS 110kW 400V AC3 415V	LC1E200N5	260-9647



3-pole contactors – 132kW

3P CONTACTOR EasyPact™ TVS 132kW 400V AC3 24VAC	LC1E250B5	260-9654
3P CONTACTOR EasyPact™ TVS 132kW 400V AC3 110V	LC1E250F5	260-9655
3P CONTACTOR EasyPact™ TVS 132kW 400V AC3 240V	LC1E250U5	260-9657
3P CONTACTOR EasyPact™ TVS 132kW 400V AC3 415V	LC1E250N5	260-9656



3-pole contactors – 160kW

3P CONTACTOR EasyPact™ TVS 160kW 400V AC3 24VAC	LC1E300B5	#N/A
3P CONTACTOR EasyPact™ TVS 160kW 400V AC3 110V	LC1E300F5	260-9662
3P CONTACTOR EasyPact™ TVS 160kW 400V AC3 240V	LC1E300U5	260-9664
3P CONTACTOR EasyPact™ TVS 160kW 400V AC3 415V	LC1E300N5	260-9663



3-pole contactors – 200kW

3P CONTACTOR EasyPact™ TVS 200kW 400V AC3 110V	LC1E400F7	260-9681
3P CONTACTOR EasyPact™ TVS 200kW 400V AC3 240V	LC1E400U7	260-9683
3P CONTACTOR EasyPact™ TVS 200kW 400V AC3 415V	LC1E400N7	260-9682



3-pole contactors – 250kW

3P CONTACTOR EasyPact™ TVS 250kW 400V AC3 110V	LC1E500F7	260-9689
3P CONTACTOR EasyPact™ TVS 250kW 400V AC3 240V	LC1E500U7	260-9690
3P CONTACTOR EasyPact™ TVS 250kW 400V AC3 415V	LC1E500N7	#N/A



3-pole contactors – 335kW

3P CONTACTOR EasyPact™ TVS 335kW 400V AC3 110V	LC1E630F7	260-9696
3P CONTACTOR EasyPact™ TVS 335kW 400V AC3 240V	LC1E630U7	260-9698
3P CONTACTOR EasyPact™ TVS 335kW 400V AC3 415V	LC1E630N7	260-9697

Note: We do not provide in-built 1NO or 1NC from 200A onwards (3-pole contactors – 110kW till 335kW).

Reference Numbers

EasyPact™ TVS Motor Control

EasyPact™ TVS Control Relays



Control Relay – 2NO/2NC

CONTROL RELAY EasyPact™ TVS 2NO 2NC COIL 24VAC	CAE22B5	260-9555
CONTROL RELAY EasyPact™ TVS 2NO 2NC COIL 110VAC	CAE22F5	260-9556
CONTROL RELAY EasyPact™ TVS 2NO 2NC COIL 240VAC	CAE22U5	260-9559
CONTROL RELAY EasyPact™ TVS 2NO 2NC COIL 415VAC	CAE22N5	260-9557

Control Relay – 3NO/1NC

CONTROL RELAY EasyPact™ TVS 3NO 1NC COIL 24VAC	CAE31B5	260-9560
CONTROL RELAY EasyPact™ TVS 3NO 1NC COIL 110VAC	CAE31F5	260-9561
CONTROL RELAY EasyPact™ TVS 3NO 1NC COIL 240VAC	CAE31U5	260-9563
CONTROL RELAY EasyPact™ TVS 3NO 1NC COIL 415VAC	CAE31N5	260-9562

Control Relay – 4NO

CONTROL RELAY EasyPact™ TVS 4NO COIL 24VAC	CAE40B5	260-9565
CONTROL RELAY EasyPact™ TVS 4NO COIL 48VAC	CAE40E5	260-9566
CONTROL RELAY EasyPact™ TVS 4NO COIL 110VAC	CAE40F5	260-9567
CONTROL RELAY EasyPact™ TVS 4NO COIL 240VAC	CAE40U5	260-9569
CONTROL RELAY EasyPact™ TVS 4NO COIL 415VAC	CAE40N5	260-9568

EasyPact™ TVS Motor Circuit Breakers



Motor Circuit Breaker – 3-pole

EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 0.4-0.63A	GZ1E04	260-9571
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 0.63-1A	GZ1E05	260-9572
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 1-1.6A	GZ1E06	260-9573
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 1.6-2.5A	GZ1E07	260-9574
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 2.5-4A	GZ1E08	260-9575
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 4-6.3A	GZ1E10	260-9576
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 6-10A	GZ1E14	260-9577
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 9-14A	GZ1E16	260-9578
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 17-23A	GZ1E21	260-9579
EasyPact™ TVS GZ1 MOTOR CIRCUIT BREAKER 20-25A	GZ1E22	260-9580

EasyPact™ TVS

Reference Numbers

EasyPact™ TVS Motor Control

Accessories



Auxiliary Contact Block

AUXILIARY CONTACT BLOCK EasyPact™ TVS 1NO 1NC	LAEN11	260-9592
AUXILIARY CONTACT BLOCK EasyPact™ TVS 2NO	LAEN20	260-9593
AUXILIARY CONTACT BLOCK EasyPact™ TVS 2NC	LAEN02	260-9591
AUXILIARY CONTACT BLOCK EasyPact™ TVS 2NO 2NC	LAEN22	260-9594



Mechanical Interlock

MECHANICAL INTERLOCK EasyPact™ TVS 6 65	LAEM1	260-9584
MECHANICAL INTERLOCK EasyPact™ TVS 80 95	LAEM4	260-9585
MECHANICAL INTERLOCK EasyPact™ TVS 120 160	LAEM5	260-9587
MECHANICAL INTERLOCK EasyPact™ TVS 200 250	LAEM6	260-9588
MECHANICAL INTERLOCK EasyPact™ TVS 300 400 500	LAEM7	260-9589
MECHANICAL INTERLOCK EasyPact™ TVS 630	LAEM8	260-9590



Terminal Block

Terminal block for EasyPact™ TVS LRE01 UP TO LRE35	LAEB1	260-9582
Terminal block for EasyPact™ TVS LRE322 UP TO LRE365	LAEB3	260-9583



RC Surge Block

RC SURGE BLOCK 24 48 VAC EasyPact™ TVS 6 95	LAERCE	260-9595
RC SURGE BLOCK 50 127 VAC EasyPact™ TVS 6 95	LAERCGB	260-9596
RC SURGE BLOCK 110 240 VAC EasyPact™ TVS 6 95	LAERCU	260-9598
RC SURGE BLOCK 380 415 VAC EasyPact™ TVS 6 95	LAERCN	260-9597

EasyLogic™ PM2000 Series

General Overview

Multifunction energy and power meters



EasyLogic™ PM2000 series & Dual Circuit Meter

The easy choice for energy cost management applications in commercial buildings and SME industries

EasyLogic™ PM2000 series energy and power meters provide all the measurement capabilities required to monitor an electrical installation in a single 96 x 96 mm unit, available with LCD display.

The easy choice...

- for quality - Designed and manufactured in ISO-certified Schneider Electric facilities.
- for value - The right balance of features and price.
- for peace of mind - Reliable performance where you need it.

Leaner, more efficient order management thanks to field settable CT or PT ratios, modularity Fast and efficient installation & commissioning.

Safety marks for CE and UL compliance in accordance with latest IEC/UL 61010-1 Ed-3 standard.

Performance without compromise - exceptional reliability in its class

- Assured quality that you can trust to meet your needs throughout its lifecycle
- Outstanding value for an optimized feature set
- Simple to choose and easy to install and use for many applications

General Overview

The EasyLogic™ PM2000 multi-function energy and power meter

Offering all the measurement capabilities required to monitor electrical installation in a single 96 x 96 mm unit, with LCD display.

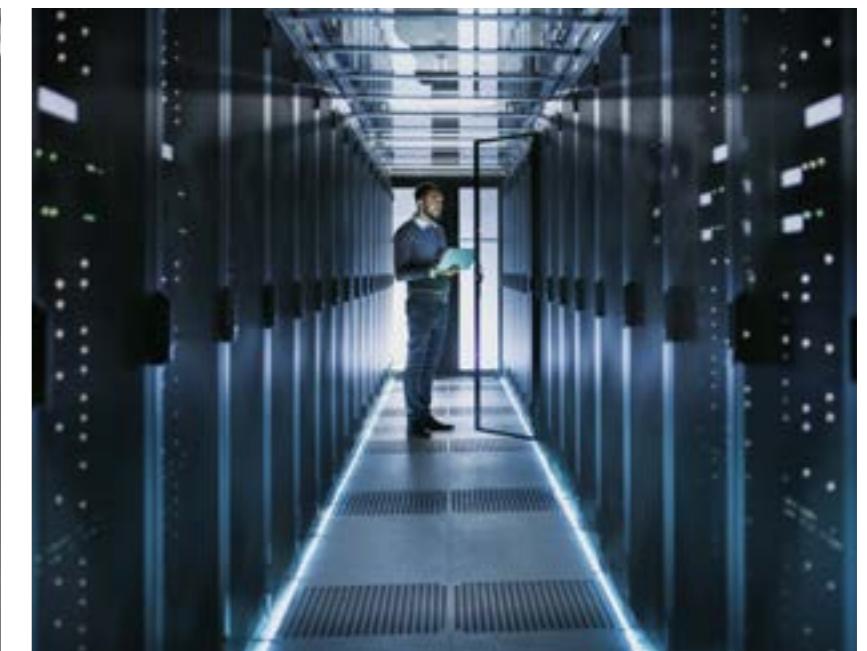
Applications

Cost management applications

- Bill checking to verify that you are only charged for the energy you use
- Aggregation of energy consumption, including WAGES, and cost allocation per area, per usage, per shift or per time within the same facility
- Energy cost and usage analysis per zone, per usage or per time period to optimise energy usage.

Network management applications

- Metering of electrical parameters to better understand the behaviour of your electrical distribution system
- Power quality analysis.



EasyLogic™ PM2000 Series

Functions and characteristics

PM2000 technical specifications



PM2000 LCD display

General	
<ul style="list-style-type: none"> • Use on LV and MV systems with onsite programmable PT/CT ratio • Basic metering with THD %, Individual Harmonics, RTC and min/max readings 	
Current	Average line current of 3-phase, per-phase, and calculated neutral current
Voltage	Average voltage of L-L, L-N parameters, and per-phase
Frequency	Any available line
Real, reactive, and apparent power	Total and per-phase value
Displacement power factor	Average and per-phase signed, four quadrant
True Power Factor	Average and per-phase signed, four quadrant
% Unbalance	Among the phase for Amps, V L-N, V L-L
Energy values stored in non-volatile memory	
Commercial ref. number	Model
METSEPM2220	PM2220
METSEPM2230	PM2230
METSEPM220R	PM220R
Demand values	
Current average	Present, Last, Predicted, Peak, and Peak Date Time
Active power	Present, Last, Predicted, Peak, and Peak Date Time
Reactive power	Present, Last, Predicted, Peak, and Peak Date Time
Apparent power	Present, Last, Predicted, Peak, and Peak Date Time
Demand sync methods	Thermal, Timed, Command Sync, and Clocked Sync
Demand calculation mode	Sliding, fixed and rolling block
Demand intervals	Settable from 1 to 60 minutes, in the step of 1 minute
Display	
PM2000 series	Full scape, monochrome graphical LCD of 128 x 128 resolution with viewable area of 67 x 62.5 mm
Visualization mode for signs	IEC or IEEE type in LCD display meter
Communication	
RS-485 serial	Channel connection Industry standard Modbus RTU protocol
Integration with software	SCADA/DCS/PMS/EMS/BAS/BMS software
Native Plug and Play support	<ul style="list-style-type: none"> • Schneider Electric energy management system software EcoStruxure™ Power Monitoring Expert, • EcoStruxure™ PowerSCADA Operation, & ION Setup programming support
Min/Max values	
Minimum & Maximum value recording of 3-ph average or total	For 8 parameters, viz., V L-L, V L-N, Amps, PF, Hz, W, VA, VAR with date and time stamp, resettable separately through set up mode
Alarms	
Alarming with time stamping in PM2x30 meters	A different combination of set point driven alarms and digital alarms with 1 s time stamping. The alarms can be programmed and combined to trigger digital outputs, the meter keeps an alarm logs with the active and historical alarms with date and time stamping in 40 registers
Diagnostics	
Diagnostic page	Indicates LED/LCD status, sl number, diag pages, OS & RS version, Run Hour counter in PM2100
Lock/ Un-Lock	
Page Lock & Unlock (PM2100 series)	Unique feature to ensures that commonly referred page is restored in 4 minutes of inactive time
Rate 1 counter ^[2]	
Kg CO ₂ emission (example)	Rate counter can be configured to display the CO ₂ emission in kg CO ₂ format based on the kWh measured either in delivered or received direction
Rate 2 counter ^[2]	
Tariff counter (example)	Rate counter can also be configured to calculate the electricity cost based on the energy consumption in customized currency format
Configurable snap shot	
Configurable snap shot ^[2]	Snap shot of Avg Voltage, Avg Current, Total Active Power & Energy delivered as measured by the meter at configurable time in Hours: Minutes format. Static page is refreshed with new values by next day at pre-configured time

Functions and characteristics

PM2000 electrical characteristics



Rear of PM2000 closed

Type of measurement	True RMS 64 samples per cycle
Measurement accuracy	
Current, average & per-phase	± 0.5%
Voltage average & per-phase	± 0.5%
Frequency	± 0.05%
Power Factor, average & per-phase	± 0.01
Power (W-Active, VA- Apparent)	± 0.5%
Power (VAR- Reactive)	± 1.0%
Real/ Active Energy (Wh)	<ul style="list-style-type: none"> • Class 0.5S as per IEC 62053-22 • Class 1.0 as per IEC 62053-21 for both CT nominal of 5 A and 1 A^[3]
Reactive Energy	Class 1.0 as per IEC 62053-24
Apparent Energy	± 0.5%
THD % and Individual Harmonics- V & A	± 5% FS for THD % & Individual harmonics
Input-voltage	
VT primary	999 kV L-L max, secondary voltage depends on VT ratio
U nominal	277 V L-N/480 V L-L
Measured V with full range	<ul style="list-style-type: none"> • 20-277 V L-N/35 - 480 V L-L, cat III • 20-347 V L-N/35 - 600 V L-L, cat II
Permanent overload	750 V AC L-L
Impedance	u 5 MΩ
Frequency nominal	50/60 Hz
VA burden	< 0.2 VA at 240 V AC L-N
Input-current	
CT ratings	<ul style="list-style-type: none"> • Primary adjustable 1 A to 32768 A • Secondary 1 A or 5 A I-nominal
Measured Amps with overrange & Crest Factor	5 mA to 6 A
Over current withstand	<ul style="list-style-type: none"> • Continuous 12 A • 10s/ hr 50 A • 1s/ hr 500 A
Impedance	< 0.3 mΩ
Frequency nominal	50/60 Hz
VA Burden	<0.024 VA at 6 A
AC control power	
Operating range	44-277 V AC, ±10% (80-277 V AC, ±10% with I/O card)
Burden	<6 VA at 277 V AC L-N (<8 VA for PM2x30 and PM2x25C)
Frequency	45 to 65 Hz
Ride-through time	<ul style="list-style-type: none"> • 100 ms typical at 120 V AC and maximum burden (50 ms with Analog IO card for PM2x30) • 400 ms typical at 230 V AC and maximum burden (50 ms with Analog IO card for PM2x30)
DC control power	
Operating range	48-277 V DC, ±10% (100-277 V AC ±10% with I/O card)
Burden	<2 W at 277 V DC (<3.3 W for PM2x30 and PM2x25C)
Ride-through time	50 ms typical at 125 V DC and maximum burden
Real time clock	
RTC with battery backup	3 years (when meter is in Power OFF condition)
Displays update	
Instantaneous	1s
Demand	15s
Harmonics	5s
Wiring configuration	
User programmable	<ul style="list-style-type: none"> • 1ph, 2w, L-N • 1ph, 2w, L-L • 1ph, 3w, L-L with N (2phase) • 3ph, 3w, Delta, Ungrounded • 3ph, 3w, Delta • 3ph, 3w, Wye • 3ph, 4w, Open Delta • 3ph, 4w, Delta • 3ph, 4w, Wye

³ : for 1 A CT nominal, additional error of ± 1% from 50 mA to 150 mA, ±2% for current >10 mA to <50 mA. Partial standard compliance for Class 0.5S meter type (energy test clause only).

EasyLogic™ PM2000 Series

Functions and characteristics

PM2000 series mechanical characteristics

Mechanical characteristics	
Weight	~ 300 gm
IP degree of protection	IP54 front side, IP30 meter body as per IEC 60529
Material	Polycarbonate meets UL 94V-0 flammability rating
Dimensions W x H x D	96 x 96 x 54 mm maximum (depth of the meter from housing mounting flange) and 13 mm (protrusion of meter from housing flange). Meter depth with IO module is 74 mm
Mounting position	Vertical
Panel thickness	5 mm maximum
Environmental characteristics	
Operating temperature	Meter -10 to +60°C (14 to 140°F)
Storage temperature	Meter -25 to +70°C (-13 to 158°F)
Humidity rating	5 to 95% RH non condensing
Pollution degree	2
Altitude	≤ 2000 m (6562 ft) Category III
Product life	Minimum 7 years
Electromagnetic compatibility (tested as per IEC 61326-1)	
Electrostatic discharge	IEC 61000-4-2
Immunity to radiated field	IEC 61000-4-3
Immunity to fast transients	IEC 61000-4-4
Immunity to impulse waves	IEC 61000-4-5
Conducted immunity	IEC 61000-4-6
Immunity to magnetic fields	IEC 61000-4-8
Immunity to voltage dips	IEC 61000-4-11
Emissions	Emissions FCC Part 15 Class A/CE
Safety	
Europe	CE, as per IEC 61010-1 Ed-3
US and Canada	cULus as per UL61010-1 and CAN/CSA-C22.2 No. 61010-1, for 600 V AC
Measurement Category (Voltage and Current inputs)	• CAT III up to 480 V L-L • CAT II up to 600 V L-L
Overvoltage Category (Control power)	CAT III up to 300 V L-N
Dielectric	As per IEC/UL 61010-1 Ed-3
Protective Class	II, Double insulated for user accessible parts
Green premium	EOL, REACH, PEP, RoHS complied
Other certification	RCM (Australia), EAC (Russia)
Communication	
RS-485 port	<ul style="list-style-type: none"> Modbus RTU: 2-Wires, with ground & shield, 4800, 9600, 19200 or 38400 baud, Parity – Even, Odd, None, 1 stop bit if parity is Odd or Even, 2 stop bits if None DLF3000: Firmware update through communication port
Pulse Output – POP	<ul style="list-style-type: none"> Max 40 V DC, 20 mA 20 ms ON time Configurable pulse weight from 1 to 9999000 pulses/k_h (kWh, kWh, or kVARh)
Isolation	2.5 kV RMS, double insulated
Protection features	Password protected for set-up & clearing energy and Min/Max data
Display language	English, Spanish, French, Chinese, German, Portuguese, Russian, Turkish. EN default, other languages selectable in communication variants of PM2000 series
Technical publication	Printed installation guide (IG) with the meter in multi language (EN, ES, FR, DE, PT, RU, TR, ZH) User guide soft copy format in EN, ES, FR, ZH languages
Human machine interface	
Display type	LCD display: Monochrome graphical LCD of 128 x 128 mm resolution with viewable area of 67 x 62.5 mm
Keypad	PM2000 series: 4 buttons for intuitive navigation of HMI/ UI pages
CAL LED Indicator	Red colour, meter constant is configurable from 1 to 9,999,000 pulses/k_h (kWh, kWh, or kVARh)
Comm. activity	Green LED (for indicating RS-485 interface or heart beat pulse)

Functions and characteristics

PM2000 Series and Dual circuit meter



LCD Meter Range

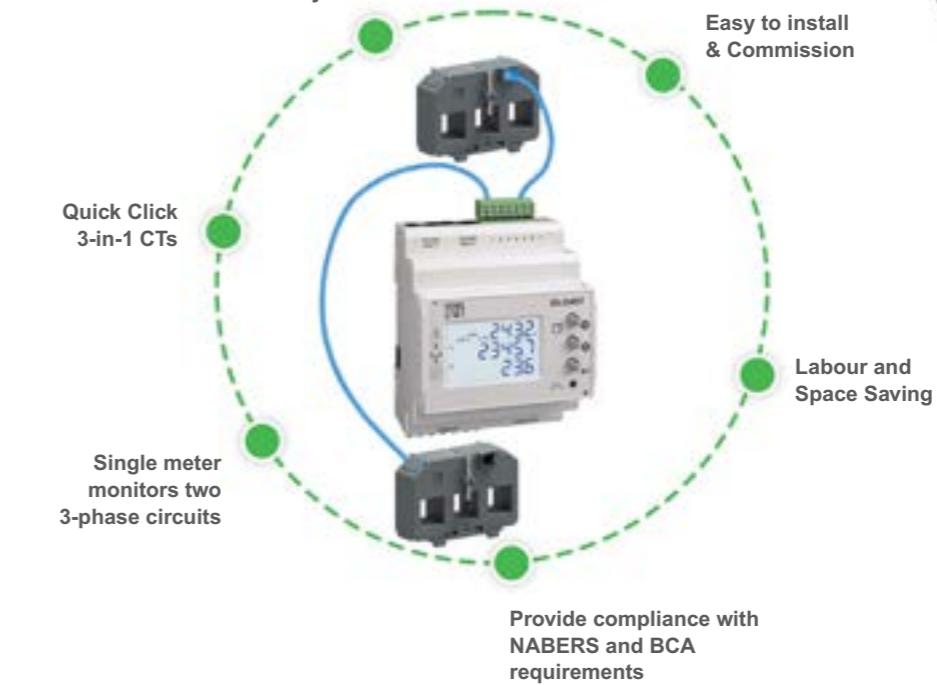
	PM2220	PM2220R	PM2230
V, A, F pf, Demand, THD%	Y	Y	Y
4Q Power - per Ph & Total. Total Energy	Y	Y	Y
Min/max & Real-time Clock (RTC)	Y	Y	Y
RS-485	Y	Y	Y
Individual harmonics	15th	15th	31st
Data log for energy, power, and parameters	-	-	Y
DI/DO modules	-	-	-
AI/AO modules	-	-	-
Active Energy (kWh) accuracy class	1.0	1.0	0.5S
Quick Click LVCT compatibility	-	Y	-

Dual Circuit Meter

The **Dual Circuit Meter** is a single power meter that monitors two 3-phase circuits, saving space and labour. Not only is it easy to install, but it provides compliance with Energy Efficiency rating requirements, e.g., NABERS, BCA etc.



EcoStruxure Power Ready



EasyLogic™ PM2000 Series

Functions and characteristics

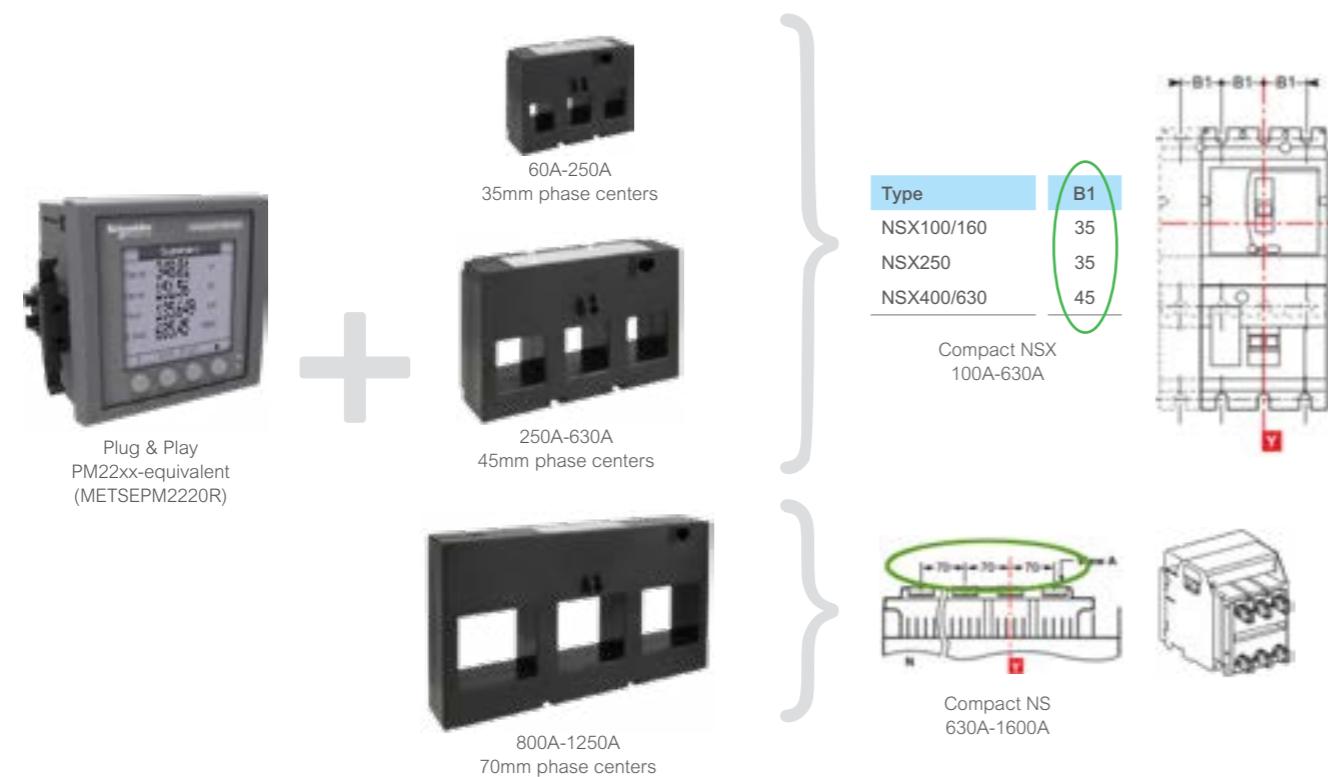
Quick Click series power meters (PM2200R)

The EasyLogic™ PM2200R multi-function power and energy meter with Quick Click CTs

Offering the same extensive measurement capabilities of the PM2200 meters - now with the option to significantly reduce installation time, cost, and complexity with new plug & play, 3-in-1 Quick Click CTs.

- 75% installation time savings
- Simplified (tool-less) physical installation
- Less skilled, lower cost labour required
- Minimized wiring errors and rework costs

Quick Click Offer – Application view



EasyLogic™ PM2000 Series

Reference Numbers

Power Meters

PM2000 Series Power Meter

EasyLogic™ VAF P & E RS485 15thHar CL 1	METSEPM2220	260-9821
EasyLogic™ VAF P&E RS485 31stHar CL 0.5S	METSEPM2230	260-9822
PM2220 POWER METER, RJ45 LVCT	METSEPM220R	#N/A
LVCT SOLIDC 3IN1 RJ45 35MMCTR 100A 1-3V	METSECTV35010	260-9808
LVCT SOLIDC 3IN1 RJ45 35MMCTR 125A 1-3V	METSECTV35013	260-9809
LVCT SOLIDC 3IN1 RJ45 35MMCTR 150A 1-3V	METSECTV35015	260-9810
LVCT SOLIDC 3IN1 RJ45 35MMCTR 200A 1-3V	METSECTV35020	260-9812
LVCT SOLIDC 3IN1 RJ45 35MMCTR 250A 1-3V	METSECTV35025	260-9813
LVCT SOLIDC 3IN1 RJ45 45MMCTR 250A 1-3V	METSECTV45025	260-9814
LVCT SOLIDC 3IN1 RJ45 70MMCTR 800A 1-3V	METSECTV70080	260-9818
LVCT SOLIDC 3IN1 RJ45 70MMCTR 1000A 1-3V	METSECTV70100	260-9819
LVCT SOLIDC 3IN1 RJ45 35MMCTR 60A 1-3V	METSECTV35006	260-9807
LVCT SOLIDC 3IN1 RJ45 35MMCTR 160A 1-3V	METSECTV35016	260-9811
LVCT SOLIDC 3IN1 RJ45 45MMCTR 400A 1-3V	METSECTV45040	260-9815
LVCT SOLIDC 3IN1 RJ45 45MMCTR 630A 1-3V	METSECTV45063	260-9816
LVCT SOLIDC 3IN1 RJ45 70MMCTR 1250A 1-3V	METSECTV70125	260-9820

EasyHarmony XA2 Series

General Overview

Plastic pushbuttons, switches and pilot lights



Control and signaling units Ø 22



Easy Harmony

Fit for purpose

All the products composing the Easy Harmony XA2 range have been designed to be used in numerous control and signaling applications:

- customers can easily select the key functions for standard applications
- their diameter, Ø 22 mm /0.866 in. makes them suitable for standard OEM and panel builder applications.
- with plastic material, they provide a solution for industrial applications demanding a high resistance to chemical agents.

Easy Harmony

- modular, plastic pushbuttons and switches with metallic-look ring,
- complete, plastic pilot lights with integral LED

General Overview

Control and signaling units Ø 22

Plastic pushbuttons, switches and pilot lights

Ease and comfort of choice

The range is available in the form of complete units. It involves:

- modular, plastic pushbuttons and switches with metallic-look ring. The modular design allows flexible and simple setup for complete products: the right product can be chosen among various types of heads and 2 types of functions are proposed (contact and signaling)
- complete pilot lights, provided with integral LED.

All products are fitted with screw clamp terminals allowing fast and easy connection.

Contact functions

- Pushbuttons with spring return and push-push (marked or unmarked)
- Selector switches and key switches, 2 or 3 positions
- Emergency switching off pushbuttons with push-pull and turn to release
- Double-headed pushbuttons with spring return



Contact and signaling functions

- Illuminated pushbuttons with integral LED, spring return and flush push
- Illuminated double-headed pushbuttons with integral LED, spring return



Signaling functions

- Pilot lights with integral LED
- Indicators with integral LED



Groomed ergonomics

- Metallic-look ring on pushbuttons and switches gives a modern look
- Ergonomic curve on the selector switches allows flexible operation

EasyHarmony XA2 Series

General Overview

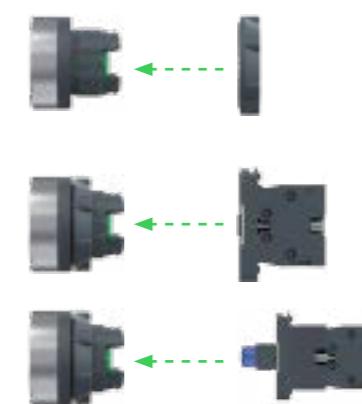
Control and signaling units Ø 22

Plastic pushbuttons, switches and pilot lights

Easy installation

- Installation of pushbuttons is simple and easy
- Mounting by single nut to the control panel
- Anti-rotation plate prevents the pushbutton head from rotation

- Single lock ring for mounting on control panel



- Clip-together component system for head, body, contacts, and LED light blocks



Up to IP 65
degree of protection

Proven robustness

- Conforming to most demanding international standards and approvals
- Tested and certified performance
- Excellent resistance to mechanical shock and vibration
- Supports extended temperature range from -40°C to +70°C



Service and availability

- Supported by the service of Schneider Electric
- Wide availability throughout an extensive distribution network

Helps customer
to improve the
reliability

Functions and characteristics

Control and signaling units Ø 22

Plastic pushbuttons, switches and pilot lights

Contact functions	Pushbuttons	Emergency switching off pushbuttons	Selector and key switches	Double-headed pushbuttons
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Description of range	Pushbuttons, spring return: flush push, mushroom head, and push-push	Emergency switching off pushbuttons: turn to release and push-pull	Selector switches, 2 or 3-position: standard or long handle Key switches	Double-headed pushbuttons
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Features	Products	Complete units		
	Shape of head	Circular		Rectangular
Drilling or cut-out for mounting		Ø 22 mm/0.866 in.		
Degree of protection		IP 65 conforming to standard IEC 60529	IP 54 conforming to standard IEC 60529 Selector switches: IP 65 Key switches: IP 54	IP 40 conforming to standard IEC 60529

Contact functions	Pushbuttons	Emergency switching off pushbuttons	Selector and key switches	Double-headed pushbuttons
International standards	IEC 60947-5-1, EN 60947-5-1, GB/T 14048.5-93			
Product certification	CCC, EAC, CE			
Cabling	Screw clamp terminal connections			
Mounting	Panel thickness	Ø 1 to 6 mm/0.04 to 0.24 in.		
Type references	X A2EA**/EA***/EC**/ EH0**	X A2ET**/ES*** EH0**	X A2ED**/EJ***/EG** XA2EA7A3415	
Pages	59	60	61	59

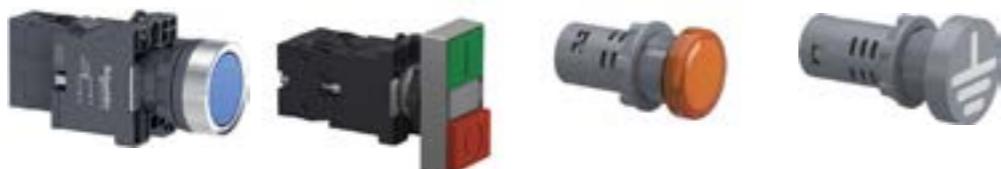
EasyHarmony XA2 Series

Functions and characteristics

Control and signaling units Ø 22

Plastic pushbuttons, switches and pilot lights

Contact and signaling functions	Illuminated pushbuttons	Illuminated double-headed pushbuttons	Pilot lights	Indicators
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Description of range	Illuminated pushbuttons with integral LED, spring return: flush push	Illuminated double-headed pushbuttons with integral LED, spring return	Pilot lights with integral LED	Indicators with integral LED
Features	Products	Complete units		
	Shape of head	Circular	Rectangular	Circular
Drilling or cut-out for mounting	Ø 22 mm/0.866 in.			
Degree of protection	IP 65 conforming to standard IEC 60529	IP 40 conforming to standard IEC 60529	IP 65 conforming to standard IEC 60529	IP 54 conforming to standard IEC 60529
International standards	IEC 60947-5-1, EN 60947-5-1, GB/T 14048.1-93, GB/14048.5-93	IEC 60947-5-1, EN 60947-5-1, GB/T 14048.1-2012, GB/14048.5-2017		
Product certification	CCC, EAC, CE		CCC, CE	
Cabling	Screw clamp terminal connections			
Mounting	Panel thickness	Ø 1 to 6 mm/ 0.04 to 0.24 in.		
Type references	XA2EW3***	XA2EW7L3741•5	XA2EV•LC/EV•E•LC/EV•D•LC/EV•34LC	XA2EV•34•PC
Pages	62	60	63	64

General Overview

Control and signaling units Ø 22

Plastic pushbuttons, switches and pilot lights

The Easy Harmony XA2 range of Ø 22/0.866 in. plastic control and signaling units combines simplicity of installation, flexibility and robustness. It meets the requirements of the majority of industrial applications. The metallic-look ring design on the pushbuttons and switches gives them a modern look. These products are available in the form of complete units.

This range includes:

- Contact functions: pushbuttons, selector/key switches, Emergency switching off pushbuttons, and double-headed pushbuttons designed for parameter settings, adjustments, and start/stop control of machines and installations
- Contact and signaling functions: illuminated pushbuttons and double-headed illuminated pushbuttons designed for control and signaling functions
- Signaling functions: pilot lights and indicators designed for visual signaling

The pushbutton, switch control (illuminated and non-illuminated), and pilot light offer is both broad and comprehensive:

- Pushbuttons, spring return with flush push, marked or unmarked, or mushroom head
- Emergency stop pushbuttons Ø 40/1.575 in., Ø 30/1.181 in., and Ø 60/2.362 in. with 2 types of head: push-pull and turn to release
- Pilot lights, indicators, and illuminated pushbuttons with integral LED
- Selector switches with different types of operator: standard handle, long handle, or key
- Choice of heads: circular and double-head
- Connection type: screw clamp connector
- Various accessories

Installation

Easy Harmony XA2 products are both simple and quick to install:

- Mounting by a single nut to the control panel,
- Body/fixing collar simply clip on the head.

Environment

The performance features of the Easy Harmony XA2 range meets the following specifications:

- Degrees of protection conforming to standard IEC 60529:
 - IP 65 for pushbuttons, Emergency switching off pushbuttons, illuminated pushbuttons, and pilot lights
 - IP 54 for key selector switch and indicators
 - P40 for double-headed pushbuttons
- International standards:
 - IEC 60947-5-1, EN 60947-5-1, GB/T 14048.1-93, GB/14048.5-93
- Product certification:
 - CCC, EAC, CE

For more technical information, please refer to the Schneider Electric website, Easy Harmony XA2 offer.

EasyHarmony XA2 Series

Functions and characteristics

Control and signaling units Ø 22

Plastic pushbuttons, switches and pilot lights: complete units

Contact functions	Pushbuttons, spring return		Pushbuttons, push-push	Double-headed push-buttons, spring return
Type of push	Flush push, unmarked	Flush push, marked	Mushroom head	Flush push, unmarked
Degree of protection	IP65	IP65	IP65	IP65
Color	White, Black, Green, Yellow, Blue, and Red	Green, Black, White, Red and Blue	Black, Green and Red	Black, Green, Yellow and Red
Type references	XA2EA•1/EA42	XA2EA33•1/EA43•2/ XA2EA6511	XA2EC•1/EC42	XA2EH0•1/EH042
Pages	59	59	59	59
				60

Contact functions	Emergency switching off pushbuttons	Selector switches and keyswitches		
Type of push	Turn to release and push-pull (Ø 30 mm/1.181 in., Ø 40 mm/1.575 in., Ø 60 mm/1.362 in.)	Standard handle, 2 or 3 positions	Long handle, 2 or 3 positions	Key, 2 or 3 positions
Degree of protection	IP65	IP65	IP65	IP54
Color	Red	Green, Black, White, Red and Blue	Black, Green and Red	Black, Green, Yellow and Red
Type references	XA2ET42/ES•42	XA2ED••	XA2EJ••	XA2EG21/EG•3
Pages	60	61	61	61

Contact and Signaling functions	Illuminated pushbuttons, spring return	Double-headed push-buttons, spring return with pilot light block	Pilot lights	Indicators
Type of push	Flush push	Flush push	N/A	N/A
Degree of protection	IP65	IP40	IP65	IP54
LED	Integral LEDs 24, 220...230, or 380...400 V	Integral LEDs 24 or 220...230 V	Integral LEDs 12 V, 24 V, 30 V, 48 V, 60...63.5 V, 110 V, 220...230 V, and 380...400 V	Integral LEDs 110 V, 220...230 V, and 380...400 V
Color	White, Green, Red, Amber and Blue	Red and Green	White, Green, Red, Amber, Blue, Yellow and Bi-color (Green/Red)	Red and Green
Type references	XA2EW3•B1/3•M1/3•Q1	XA2EW7L3741B5 XA2EW7L3741M5	XA2EV••LC/EV•E•LC/EV•D•LC/EV••34LC	XA2EV•34•PC
Pages	62	60	63	64

Reference Numbers

Control and signaling units Ø 22

Plastic spring return pushbuttons, marked and unmarked
Mushroom head pushbuttons, spring return

Spring return pushbuttons with flush push

Shape of head	Type of contacts		Color of push	Marking	Reference	RS Stock No.
	NO	NC				
Unmarked						
	1	—	White	—	XA2EA11	260-9827
	1	—	Black	—	XA2EA21	260-9828
	1	—	Green	—	XA2EA31	260-9829
	1	—	Yellow	—	XA2EA51	260-9836
	1	—	Blue	—	XA2EA61	260-9837
	1	—	Red	—	XA2EA42	260-9833
Marked						
	1	—	Green	"I"	XA2EA3311	260-9830
	1	—	Black	"A"	XA2EA3351	260-9832
	1	—	White	"A"	XA2EA3341	260-9831
	—	1	Red	"O"	XA2EA4322	260-9834
	—	1	Red	"STOP"	XA2EA4342	260-9835

Mushroom head pushbuttons, spring return

Shape of head	Type of contacts		Color of push	Diameter Ø (mm/in.)	Reference	RS Stock No.
	NO	NC				
XA2EC31						
	1	—	Black	40/1.575	XA2EC21	260-9840
	1	—	Green	40/1.575	XA2EC31	260-9841
	—	1	Red	40/1.575	XA2EC42	260-9842

Pushbuttons, push-push with flush push

Shape of head	Type of contacts		Color of push	Reference	RS Stock No.
	NO	NC			
XA2EH021					
	1	—	Black	XA2EH021	260-9856
	1	—	Green	XA2EH031	260-9857
	—	1	Red	XA2EH042	260-9858
	1	—	Yellow	XA2EH051	260-9859

EasyHarmony XA2 Series

Reference Numbers

Control and signaling units Ø 22

Double-headed pushbuttons, spring return
Emergency switching off pushbuttons

Double-headed pushbuttons, spring return



Shape of head	Description	Type of contacts		Caps (1) Marking	Background Color	Reference	RS Stock No.
		NO	NC				
Complete units							
	1 flush push, green	1	1	"I"	Green	XA2EA7A3415	260-9838
	1 flush push, red			"O"	Red		

Double-headed pushbuttons with 1 white central pilot light block



Shape of head	Description	Type of contacts		Caps (1) Marking	Back-ground Color	Pilot light Voltage V	Reference	RS Stock No.
		NO	NC					
Complete units								
	1 flush push, green	1	1	"I"	Green	24 z	XA2E-W7L3741B5	260-9955
	1 flush push, red			"O"	Red			
	1 central pilot light block, white			220...230 ~		XA2E-W7L3741M5	260-9956	

Emergency switching off pushbuttons



Shape of head	Type of push	Type of contacts		Diameter Ø (mm)/in.	Reference	RS Stock No.
		NO	NC			
	Push-pull	1		40/1.575	XA2ET42	260-9868
	Turn to release	1		30/1.181	XA2ES442	260-9864
				40/1.575	XA2ES542	260-9865
				60/2.362	XA2ES642	260-9866

Note: For information on dimensions, please refer to the Schneider Electric website, Easy Harmony XA2 offer.

(1) These caps are factory assembled and cannot be removed (risk of damage).

Reference Numbers

Control and signaling units Ø 22

Plastic selector switches, with standard or long handle Key switches

Selector switches, with standard handle or with long handle

Shape of head	Type of push	Type of contacts		Number and type of positions	Reference	RS Stock No.
		NO	NC			
Standard handle						
		1	–	2 - stay put	✓	XA2ED21 260-9843
		1	1	2 - stay put	✓	XA2ED25 260-9844
		2	–	3 - stay put	✓	XA2ED33 260-9846
		2	–	3 - spring return from 2 sides	↔	XA2ED53 260-9848
		1	–	2 - spring return	↔	XA2ED41 260-9847
Long handle						
		1	–	2 - stay put	✓	XA2EJ21 260-9860
		1	1	2 - stay put	✓	XA2EJ25 260-9861
		2	–	3 - stay put	✓	XA2EJ33 260-9862
		2	–	3 - spring return from 2 sides	↔	XA2EJ53 260-9863

Key switches

Shape of head	Type of push	Type of contacts		Number and type of positions	Reference	RS Stock No.
		NO	NC			
Key						
		1	–	2 - stay put, one side pull-out	✓	XA2EG21 260-9850
		2	–	2 - stay put, two sides pull-out	↔	XA2EG43 260-9853
		2	–	2 - spring return, one side pull-out	↔	XA2EG63 260-9854
		2	–	3 - spring return from 2 sides, middle pull-out	↔	XA2EG73 260-9855
		2	–	3 - stay put, middle pull-out	✓	XA2EG33 260-9852
		2	–	3 - stay put, 3 sides pull-out	↔	XA2EG03 260-9849

Note: For information on dimensions, please refer to the Schneider Electric website, Easy Harmony XA2 offer.

EasyHarmony XA2 Series

Reference Numbers

Control and signaling units Ø 22

Plastic illuminated pushbuttons with flush push, Bulbs for illuminated pushbuttons, Contact functions for all XA2 pushbuttons and switches

Illuminated pushbuttons with integral LED

Shape of head	Type of push	Supply voltage V	Type of contacts		Color	Reference	RS Stock No.
			NO	NC			
	Flush push	24 z	1	-	White	XA2EW31B1	260-9939
					Green	XA2EW33B1	260-9942
					Red	XA2EW34B1	260-9944
					Amber	XA2EW35B1	260-9950
				1	Blue	XA2EW36B1	260-9953
		220-230 ~	-	1	Red	XA2EW34B2	260-9945
			1	-	White	XA2EW31M1	260-9940
					Green	XA2EW33M1	260-9943
					Red	XA2EW34M1	260-9947
					Amber	XA2EW35M1	260-9951
		380-400 ~			Blue	XA2EW36M1	260-9954
			-	1	Red	XA2EW34M2	260-9948
			1	-	White	XA2EW31Q1	260-9941
					-	XA2EW34Q2	260-9949

Note: For information on dimensions, please refer to the Schneider Electric website, Easy Harmony XA2 offer.

Contact functions (for all XA2 pushbuttons and switches)

Description	To be used with	Type of contacts		Sold in lots of	Reference	RS Stock No.
		NO	NC			
Screw clamp terminal connections						
Contact blocks	All XA2 pushbuttons and switches	1	-	1	ZA2EE101	260-9957
		-	1	1	ZA2EE102	260-9958



PF132053

Reference Numbers

Control and signaling units Ø 22

Plastic pilot lights with integral LED

Pilot lights with integral LED, screw clamp terminal connection

Shape of head	Supply voltage V	Color of lens	Sold in lots of	Reference	RS Stock No.
	12 z	White	10	XA2EVJ1LC	260-9906
		Green	10	XA2EVJ3LC	260-9907
		Red	10	XA2EVJ4LC	260-9908
		Amber	10	XA2EVJ5LC	260-9909
		Blue	10	XA2EVJ6LC	260-9910
		Yellow	10	XA2EVJ8LC	260-9911
		White	10	XA2EVB1LC	260-9869
		Green	10	XA2EVB3LC	260-9871
		Red	10	XA2EVB4LC	260-9872
		Amber	10	XA2EVB5LC	260-9873
	24 z	Blue	10	XA2EVB6LC	260-9874
		Yellow	10	XA2EVB8LC	260-9875
		Green/Red	5	XA2EVB34LC	260-9870
		White	10	XA2EVC1LC	260-9876
		Green	10	XA2EVC3LC	260-9877
		Red	10	XA2EVC4LC	260-9878
		Amber	10	XA2EVC5LC	260-9879
		Blue	10	XA2EVC6LC	260-9880
		Yellow	10	XA2EVC8LC	260-9881
		White	10	XA2EVE1LC	260-9882
	30 z	Green	10	XA2EVE3LC	260-9883
		Red	10	XA2EVE4LC	260-9884
		Amber	10	XA2EVE5LC	260-9885
		Blue	10	XA2EVE6LC	260-9886
		Yellow	10	XA2EVE8LC	260-9887
		White	10	XA2VEE1LC	260-9888
		Green	10	XA2VEE3LC	260-9890
		Red	10	XA2VEE4LC	260-9891
		Amber	10	XA2VEE5LC	260-9892
		Blue	10	XA2VEE6LC	260-9893
	60...63.5 z	Yellow	10	XA2VEE8LC	260-9894
		White	10	XA2EVF1LC	260-9896
		Green	10	XA2EVF3LC	260-9900
		Red	10	XA2EVF4LC	260-9901
		Amber	10	XA2EVF5LC	260-9903
		Blue	10	XA2EVF6LC	260-9904
		Yellow	10	XA2EVF8LC	260-9905
		White	10	XA2EVF1LC	260-9896
		Green	10	XA2EVF3LC	260-9900
		Red	10	XA2EVF4LC	260-9901
Note: For information on dimensions, please refer to the Schneider Electric website, Easy Harmony XA2 offer.					

Note: For information on dimensions, please refer to the Schneider Electric website, Easy Harmony XA2 offer.

EasyHarmony XA2 Series

Reference Numbers

Control and signaling units Ø 22

Plastic pilot lights with integral LED and Indicators

Pilot lights with integral LED, screw clamp terminal connection

Shape of head	Supply voltage V	Color of lens	Sold in lots of	Reference	RS Stock No.
XA2E_CPM55_2 	220 c	White	10	XA2EVMD1LC	260-9923
		Green	10	XA2EVMD3LC	260-9925
		Red	10	XA2EVMD4LC	260-9926
		Amber	10	XA2EVMD5LC	260-9927
		Blue	10	XA2EVMD6LC	260-9928
		Yellow	10	XA2EVMD8LC	260-9929
XA2E_CPM57_2 	220-230 ~	White	10	XA2EVM1LC	260-9912
		Green	10	XA2EVM3LC	260-9917
		Red	10	XA2EVM4LC	260-9919
		Amber	10	XA2EVM5LC	260-9920
		Blue	10	XA2EVM8LC	260-9922
		Yellow	10	XA2EVM34LC	260-9915
		Green/Red	5	XA2EVQ1LC	260-9930
XA2E_CPM56_2 	380...400 ~	White	10	XA2EVQ3LC	260-9934
		Green	10	XA2EVQ4LC	260-9935
		Red	10	XA2EVQ5LC	260-9936
		Amber	10	XA2EVQ6LC	260-9937
		Blue	10	XA2EVQ8LC	260-9938
		Yellow	10	XA2EVE8LC	260-9887

Indicators, screw clamp terminal connection

Shape of head	Indicator type	Supply voltage V	Color of lens	Sold in lots of	Reference	RS Stock No.
 XA2E_CPM56_2	Isolation switch	110 ~	Green/Red	5	XA2EVF34SPC	260-9899
		220...230 ~	Green/Red	5	XA2EVM34SPC	260-9916
		380...400 ~	Green/Red	5	XA2EVQ34SPC	260-9933
 XA2E_CPM56_2	Circuit breaker	110 ~	Green/Red	5	XA2EVF34BPC	260-9897
		220...230 ~	Green/Red	5	XA2EVM34BPC	260-9913
		380...400 ~	Green/Red	5	XA2EVQ34BPC	260-9931
 XA2E_CPM56_2	Ground	110 ~	Green/Red	5	XA2EVF34GPC	260-9898
		220...230 ~	Green/Red	5	XA2EVM34GPC	260-9914
		380...400 ~	Green/Red	5	XA2EVQ34GPC	260-9932

Note: For information on dimensions, please refer to the Schneider Electric website, Easy Harmony XA2 offer.



Green Premium™

An industry leading portfolio of offers
delivering sustainable value



More than 75% of our product sales offer superior transparency on the material content, regulatory information, and environmental impact of our products:

- RoHS compliance
- REACH substance information
- Industry leading # of PEP's*
- Circularity instructions

The Green Premium program stands for our commitment to deliver customer valued sustainable performance. It has been upgraded with recognised environmental claims and extended to cover all offers including Products, Services, and Solutions.

CO₂ and P&L impact through... Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimisation of CO₂ emissions.

Cost of ownership optimisation through... Circular Performance

We're helping our customers optimise the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

Peace of mind through... Well-Being Performance

Green Premium products are RoHS and REACH compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through... Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organisations, we can support our customers in meeting their sustainability goals such as green building certifications.



Discover what we
mean by green
Check your products!



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