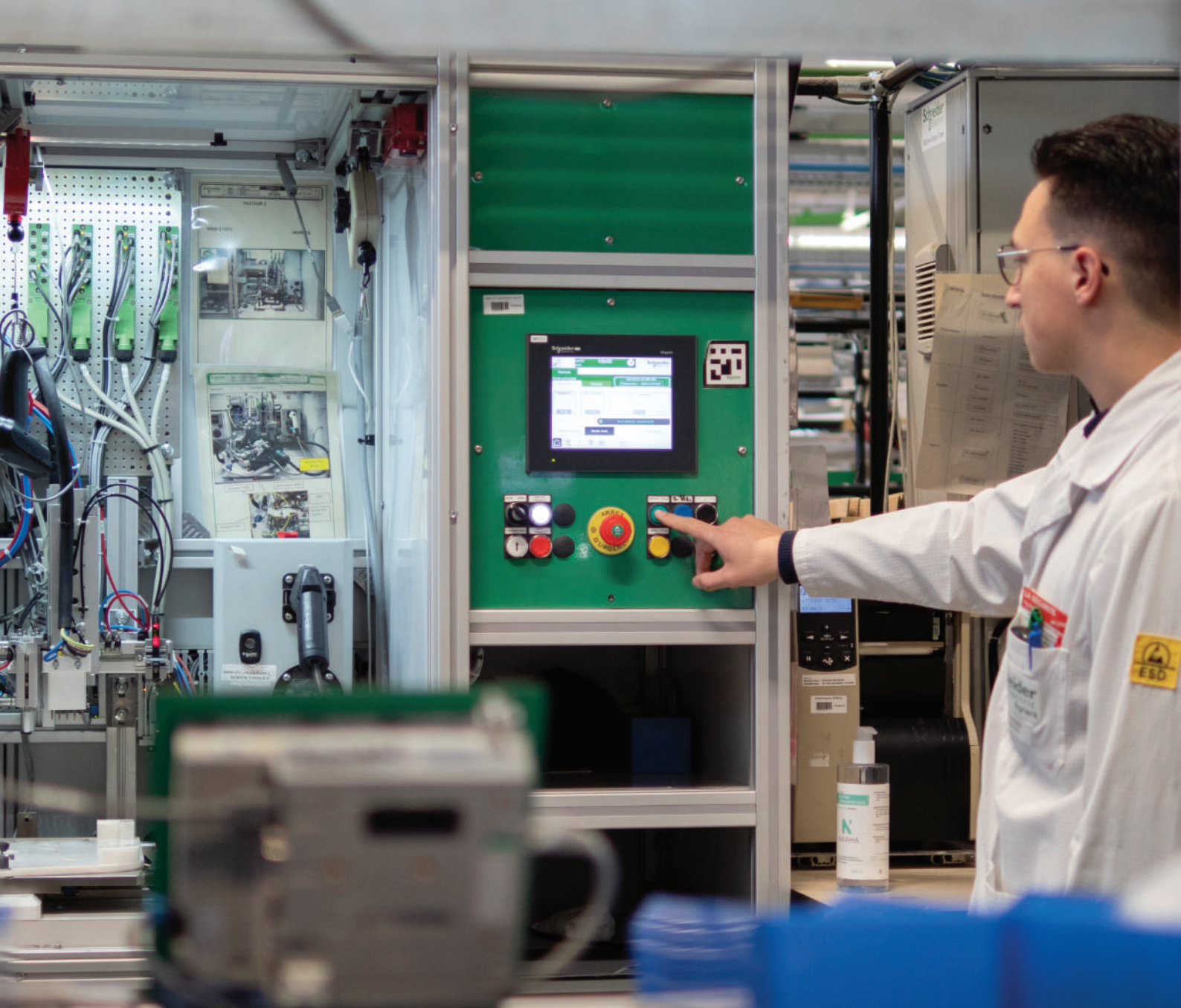




Automation and Control Essentials Catalog 2024

Everything you need for your control panels

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Life Is On

Schneider
Electric

A photograph of an industrial robotic arm, specifically a yellow KUKA model, positioned within a complex metal frame. The arm is extended towards the center of the frame. In the background, there are various industrial components, including a control panel with a small screen and buttons. The scene is lit with bright, cool-toned lights, creating a professional and technical atmosphere. The bottom portion of the image is overlaid with a semi-transparent green banner containing text.

The Essentials for your control panels

You will find all the essentials you need for high-quality control panels in this catalog. Choose the right products to set up your equipment with ease, complete your work faster, and give your business a boost.

New 2024 product highlights



> Harmony XB4/XB5
Universal LED Block

> Edge Box HMI

> Multi9

> TeSys Deca

> TeSys Giga

> ComPacT NSX

> ComPacT NSXm

> ATS130

> Altivar Solar ATV320

> PanelSeT SFN
Decarbonized
Enclosure

> ClimaSys Cooling Unit

> PowerLogic HeatTag

> Acti9 Active & AFDD

> TM172SI

> ABLU3 and ABLS

> ABLU3 and ABLS
(ABLS)



2021-2025

SCHNEIDER SUSTAINABILITY IMPACT

6 long-term commitments

CLIMATE



RESOURCES



TRUST



EQUAL



GENERATIONS



LOCAL



11+1 targets for 2021-2025

- 1 Grow our **green revenues** to 80%
- 2 Deliver **800 million tons** of **saved and avoided CO₂ emissions** to our customers
- 3 Reduce **CO₂ emissions** from **top 1,000 suppliers' operations** by 50%
- 4 Increase **green material content** in our products to 50%
- 5 100% of our primary and secondary **packaging** is **free from single-use plastic** and uses **recycled cardboard**
- 6 **100%** of our **strategic suppliers** provide **decent work** to their employees
- 7 Measure the **level of confidence** of our employees to report behaviors against our Principles of Trust
- 8 Increase **gender diversity**, from **hiring** to **front-line managers** and **leadership** teams **(50/40/30)**
- 9 Provide **access to green electricity** to **50 million people**
- 10 **Create opportunities for the next generation** – 2X number of opportunities for interns, apprentices, and fresh graduate hires
- 11 **Train 1 million underprivileged people** in energy management
- +1 100% of Country and Zone Presidents define **3 local commitments** that impact their communities in line with our sustainability transformations

The energy-efficient, Altivar Solar ATV320 is a solar-powered drive solution to cater water challenges and de-dieselisation of irrigation pumping, and agri-processing machineries. The solution was created to provide an affordable option for the people in rural and remote areas. It uses the most advanced Altivar Solar variable speed drive, which ranges from 0.5HP to 20HP and can run on both solar and power from the grid with advanced EcoStruxure livelihood platform.



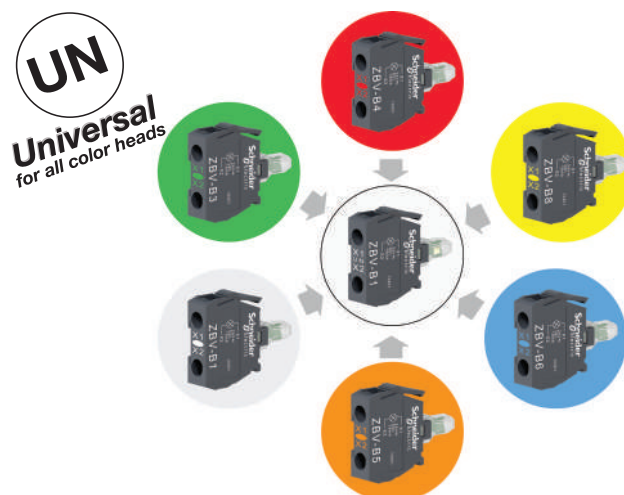
Universal LED block for all illuminated version

Harmony streamline the structure of pilot lights and actuators using LED by moving from 6 colored LEDs to a universal source of luminosity.

A unique technology that leads to the best lighting solution.

- Divide by 6 the stocked part numbers (for a given wiring and voltage solution)
- Astonishing intensity and contrast with enhanced color purity
- Reduce conception and installation time
- Simplified maintenance
- Avoid errors on pairing between heads and light blocks, nomenclatures are simplified

The universal light blocks are now identifiable in the catalog with the below logo as well as physically on the product with the two letters "UN".





Easily collect wireless data and enter into the Industry 4.0 era

Harmony XPS

Basic & Universal Safety Modules

- New design, width of 22.5 or 45mm.
- Smart Diagnostic auxiliary output
- Easy setup
- Secure transparent front flaps
- Modules in screw or spring removable terminals
- Time-delay selection on the front face from 0 to 900s (0 to 15min)
- Only two supply variants:
 - 24 VAC/DC
 - 48...240 VAC/DC (ultra-wide range power supply)



Relays : Complete offer

Schneider Electric has the most complete relay offer to meet your wide range of applications. Our Harmony relays include conventional Electromechanical Relays, Solid State Relays, Control Relays, Timer Relays, and NFC Control & Timer Relays. Enhance operational efficiency and optimize equipment availability with Harmony relays, which are designed, manufactured and tested to meet your needs for both wired logic functions and PLC interfaces.

- Comprehensive: A wide range to address your standard or performance needs
- Reliable: High product performance to ensure machine and system availability
- Time saving: Innovative features to improve user experience. Embedded test button to ease troubleshooting and commissioning
- A simplicity-driven design: To deliver maximum ease-of-use throughout the life cycle
- Green: Compliant to international certifications, and environment friendly



Harmony Control Relays - Near Field Communication (NFC) and conventional Control Relays



Harmony Timer Relays - Near Field Communication (NFC) and conventional Timer Relays



Harmony Electromechanical Relays - Interface, miniature, and power electromechanical relays



Harmony Solid State Relays - Slim interfaces, Modular DIN rail and Panel mount solid state relays



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you need from a distributor
close to you

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01. Harmony pushbuttons, switches, pilot lights and signaling devices

Harmony XVU and XVSV signaling solutions



Harmony XVU components for Ø 60 modular tower lights

1 IP65 light modules (for association)

Voltage		24 V							
LED unit type		High brightness							Pulse signal
Color		Green	Red	Orange	Blue	White	Yellow	Multi-color	Multi-color
Reference	Steady	XVUC23	XVUC24	XVUC25	XVUC26	XVUC27	XVUC28	XVUC29	XVUC29P
	Blinking	XVUC43	XVUC44	XVUC45	XVUC46	XVUC47	XVUC48	–	–
	High flashing	XVUC63	XVUC64	XVUC65	XVUC66	XVUC67	XVUC68	–	–

2 IP54 audible units (for association)

Voltage		24 V			
Unit type		Buzzer	Sound	Sound with pulse signal	
Color		Silver	Dark grey		
Reference		XVUC9SQ	XVUC9S	XVUC9V	XVUC9VP

3 IP65 body units with top cover (for association)

Voltage		24 VAC/VDC		100...240 VAC	
Color		Silver	Dark grey		
Type		–	–	NPN	PNP
Reference		XVUC21BQ	XVUC21B	XVUC21M	XVUC21MP

Mounting bases for horizontal support (for association)

Base type	Fixing plates				Direct fixing plates	
	With fixed length aluminum pole		With height adjustment aluminum pole (1)			
	100 mm/3.937 in	400 mm/15.748 in	800 mm/31.496 in			
Color	Silver	Dark grey			Silver	Dark grey
Reference	XVUZ02Q	XVUZ02	XVUZ400	XVUZ800	XVUZ05 (2)	XVUZ01Q
	–	–	–	–	–	XVUZ01 (3)
	–	–	–	–	–	XVUZ03 (4)
						XVUZ04 (5)

6 Mounting bases for vertical support (for association)

Base type	Fixing plates for mounting on vertical support (aluminum pole + metal bracket - IP42)			Fixing plates for vertical support
	100 mm	250 mm	400 mm	100 mm
Color	Dark grey	Dark grey	Dark grey	Dark grey
Reference	XVUZ100T	XVUZ250T	XVUZ400T	XVUZ12 (7)

Accessories (for association)

Unit type	Body extender	Flexible mounting unit for use on horizontal or vertical support, IP55	1/2" NPT conduit adaptor for customer supplied tubing
Color	Dark grey	Dark grey	Dark grey
Reference	XVUC020	XVUZ06 (6)	XVUZ00

(1) Pole height adjustable from 210 to 385 mm (2) For use with DC body unit only
 (3) 3-pin mounting (4) 2-pin mounting (5) 4-pin mounting (6) Only compatible with direct fixing plates
 (7) Compatible with all mounting bases for horizontal support except XVUZ01, XVUZ01Q, XVUZ02, and XVUZ04.

Harmony XVSV complete units

XVSV sound modules

Size	DIN 72			DIN 96		
Voltage	12 - 24 VDC			12 - 24 VDC		100 - 230 VAC
Color	Dark grey		White	Dark grey		White
Wiring	NPN	PNP	NPN	NPN	PNP	NPN
Reference	XVSV7BBN	XVSV7BBP	XVSV7BWN	XVSV9BBN	XVSV9BBP	XVSV9BWN
Reference	XVSV9MBN	XVSV9MWN				
Wall mounting plate (option)	XVSV016					

1



Illuminated units for incandescent bulbs or LEDs

Illuminated units with steady light signaling							
Color		Green	Red	Orange	Blue	White	Yellow
Light source (to be ordered separately)	Incandescent bulb 7 W max. or LED	XVBC33	XVBC34	XVBC35	XVBC36	XVBC37	XVBC38
Illuminated units with integral flashing light signaling							
Color		Green	Red	Orange	Blue	White	Yellow
Light source (to be ordered separately)	Incandescent bulb 7 W max., 24 V ~, 24...48 V --- or LED	XVBC4B3	XVBC4B4	XVBC4B5	XVBC4B6	XVBC4B7	XVBC4B8
	Incandescent bulb 7 W max., 24 V ~, 48...230 V ~ or LED	XVBC4M3	XVBC4M4	XVBC4M5	XVBC4M6	XVBC4M7	XVBC4M8

Illuminated units with integral LED



Light source voltage 24 V ---							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	Steady	XVBC2B3	XVBC2B4	XVBC2B5	XVBC2B6	XVBC2B7	XVBC2B8
	Flashing	XVBC5B3	XVBC5B4	XVBC5B5	XVBC5B6	XVBC5B7	XVBC5B8
Light source voltage 120 V ~							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	Steady	XVBC2G3	XVBC2G4	XVBC2G5	XVBC2G6	XVBC2G7	XVBC2G8
	Flashing	XVBC5G3	XVBC5G4	XVBC5G5	—	—	—
Light source voltage 230 V ~							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	Steady	XVBC2M3	XVBC2M4	XVBC2M5	XVBC2M6	XVBC2M7	XVBC2M8
	Flashing	XVBC5M3	XVBC5M4	XVBC5M5	XVBC5M6	XVBC5M7	XVBC5M8

Illuminated units with integral “flash” discharge tube



Light source voltage 24 V ---							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	5 Joule “flash” discharge tube	XVBC6B3	XVBC6B4	XVBC6B5	XVBC6B6	XVBC6B7	XVBC6B8
	10 Joule “flash” discharge tube	XVBC8B3	XVBC8B4	XVBC8B5	XVBC8B6	XVBC8B7	XVBC8B8
Light source voltage 120 V ~							
Color		Green	Red	Orange	Blue	Yellow	
Reference	5 Joule “flash” discharge tube	—	XVBC6G4	XVBC6G5	—	XVBC6G8	
	10 Joule “flash” discharge tube	XVBC8G3	XVBC8G4	XVBC8G5	XVBC8G6	XVBC8G8	
Light source voltage 230 V ~							
Color		Green	Red	Orange	Blue	White	Yellow
Reference	5 Joule “flash” discharge tube	XVBC6M3	XVBC6M4	XVBC6M5	XVBC6M6	XVBC6M7	XVBC6M8
	10 Joule “flash” discharge tube	—	XVBC8M4	XVBC8M5	XVBC8M6	XVBC8M7	XVBC8M8

Harmony XVB signaling solutions and Harmony XVR rotating beacons



1 Audible units

Unit type	Buzzer, 90 dB at 1 m		
Unit description	Adjustable: 70 or 90 dB, continuous or intermittent		
Voltage	12...48 V DC and AC	120...230 V ~	
Reference	XVBC9B	XVBC9M	

2 Base units (for direct or tube fixing)

Unit type	Base unit + cover with bottom or side cable entry	Base unit only with bottom or side cable entry	Base unit + cover with side cable entry	Base unit + cover with bottom entry, pre-cabled (length 1 m), and equipped with M12 end connector
Application	Use with banks without discharge tube unit (order separately)	Use with banks with discharge tube unit (order separately)	All types of banks. Can be used with AS-interface connection	
Reference	XVBC21	XVBC07	XVBC21A	XVBC21B

Accessories specific to XVBC indicator banks

Unit type	Cover only 3	Fixing plate for use on horizontal support
Material	Plastic	Plastic
Application	XVBC2, XVBC3, XVBC4, XVBC5, and XVBC9	Ø 25 mm aluminum support tube
Reference	XVBC081	XVBZ01

Unit type	Fixing bases comprising Ø 25 mm aluminum support tube glued into a black plastic fixing plate					
Color	Black aluminum	Aluminum	Black aluminum	Aluminum	Black aluminum	Aluminum
Height under base unit (mm)	80		380		780	
Reference	XVBZ02	XVBZ02A	XVBZ03	XVBZ03A	XVBZ04	XVBZ04A

Unit type	Support tube concealment cover		Adapter for side entry through base unit	
Material	ABS	ABS	ABS	
Application	Support tubes XVVBZ02, XVVBZ02A	Support tubes XVVBZ03, XVVBZ03A	13P cable gland	
Reference	XVBC020	XVBC030	XVBC14	

Unit type	Incandescent bulbs BA 15d base fitting				
Voltage	12 V	24 V	48 V	120 V	230 V
Power	7 W	6.5 W	6 W	7 W	7 W
Reference	DL1BEJ	DL1BEB	DL1BEE	DL1BEG	DL1BEM

Unit type	LEDs BA 15d base fitting				
Color	Green	Red	Orange	Blue	Yellow
Voltage	24 V ~				
Reference	DL1BDB3	DL1BDB4	DL1BDB5	DL1BDB6	DL1BDB8

Harmony XVR3 pre-cabled motorless rotating/flashing beacons

5 Beacon lights with buzzer, multi-functional beacon lights

LED unit type	Beacon			
Color	Green	Red	Orange	Blue
Voltage	12-24 VDC			
Reference	XVR3B03S	XVR3B04S	XVR3B05S	XVR3B06S
Voltage	100-230 VAC			
Reference	XVR3M03S	XVR3M04S	XVR3M05S	XVR3M06S

Beacon lights without buzzer

Color		Green	Red	Orange	Blue
LED unit type		Beacon			
Voltage	12-24 VDC	XVR3B03	XVR3B04	XVR3B05	XVR3B06
	48 VDC	XVR3E03	XVR3E04	XVR3E05	XVR3E06
	100-230 VAC	XVR3M03	XVR3M04	XVR3M05	XVR3M06



Harmony XB4 metal pushbuttons



1 Pushbuttons with flush push, unmarked

Color	 White	 Black	 Green	 Red	 Yellow	 Blue
Contact	NO			NC	NO	
Connection	Screw clamp terminals					
Complete product	XB4BA11	XB4BA21	XB4BA31	XB4BA42	XB4BA51	XB4BA61
Head	ZB4BA1	ZB4BA2	ZB4BA3	ZB4BA4	ZB4BA5	ZB4BA6
Complete flush mounting head in 30.5 mm diameter hole	XB4FA11	XB4FA21	XB4FA31	XB4FA42	XB4FA51	XB4FA61
Flush mounting head in 30.5 mm diameter hole	ZB4FA1	ZB4FA2	ZB4FA3	ZB4FA4	ZB4FA5	ZB4FA6
Body	ZB4BZ101			ZB4BZ102	ZB4BZ101	

2 Booted pushbuttons with flush push, unmarked

Complete product	–	XB4BP21	XB4BP31	XB4BP42	XB4BP51	XB4BP61
Head	ZB4BP1	ZB4BP2	ZB4BP3	ZB4BP4	ZB4BP5	ZB4BP6
Body	ZB4BZ101			ZB4BZ102	ZB4BZ101	

3 Pushbuttons with flush push, marked

Color	White	Black	Green	Red	Green	Red
Marking	↑	↓	"I" (white)	"O" (white)	"START" (white)	"STOP" (white)
Contact	NO			NO + NC	NO	NO + NC
Connection	Screw clamp terminals					
Complete product	XB4BA3341	XB4BA3351	XB4BA3311	–	–	–
Head	ZB4BA334	ZB4BA335	ZB4BA331	ZB4BL432 (1)	ZB4BA333	ZB4BL434
Complete flush mounting head in 30.5 mm diameter hole	XB4FA3341	XB4FA3351	XB4FA3311	XB4FL4325 (1)	–	–
Flush mounting head in 30.5 mm diameter hole	ZB4FA334	ZB4FA335	ZB4FA331	ZB4FL432 (1)	ZB4FA333	ZB4FL434
Body	ZB4BZ101			ZB4BZ105	ZB4BZ101	ZB4BZ105



4 Ø 40 trigger action Emergency stop mushroom head pushbuttons

Color	Red				
Contact	NO + NC Push-pull	1 NC monitoring Turn to release	2 NC Turn to release	NO + NC Turn to release	NO + NC Key release
Connection	Screw clamp terminals				
Complete product	XB4BT845	XB4BS8446	XB4BS8444	XB4BS8445	XB4BS9445
Head	ZB4BT84	ZB4BS844		ZB4BS944	
Body	ZB4BZ105	ZBE302 + ZB4BZ009	ZB4BZ104	ZB4BZ105	

5 Ø 40 mushroom head pushbutton, spring return

Color	Black	Green	Blue	Yellow
Contact	NO Push-pull			
Connection	Screw clamp terminals			
Complete product	XB4BC21	–	–	–
Head	ZB4BC2	ZB4BC3	ZB4BC6	ZB4BC5
Body	ZB4BZ101			

6 Illuminated ring for Emergency stop (2)

Color of the illuminated ring		 White /  Red	 Red		
Power supply		24 VAC/VDC		110... 120 VAC	230... 240 VAC
Complete product for standard mounting	Unmarked	ZBY9W3B140	ZBY9W2B140	ZBY9W2G140	ZBY9W2M140
	EMERGENCY STOP	ZBY9W3B330	ZBY9W2B330	ZBY9W2G330	ZBY9W2M330
	ARRET D'URGENCE	ZBY9W3B130	ZBY9W2B130	ZBY9W2G130	ZBY9W2M130
	PARADA DE EMERGENCIA	ZBY9W3B430	ZBY9W2B430	ZBY9W2G430	ZBY9W2M430
	NOT-HALT	ZBY9W3B230	ZBY9W2B230	ZBY9W2G230	ZBY9W2M230

(1) With projecting push.

(2) For compliance with standard EN/ISO 13850, paragraph 4.4.6, the Emergency stop function logo Ⓢ has been added.

Harmony XB4 metal pushbuttons



1 Pilot lights with universal LED

Color		White	Green	Red	Orange	Blue	Yellow
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB4BVB1	XB4BVB3	XB4BVB4	XB4BVB5	XB4BVB6	ZBVB1 (1)
	110...120 VAC	XB4BVG1	XB4BVG3	XB4BVG4	XB4BVG5	XB4BVG6	ZBVG1 (1)
	230...240 VAC	XB4BVM1	XB4BVM3	XB4BVM4	XB4BVM5	XB4BVM6	ZBVM1 (1)
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB4FVB1	XB4FVB3	XB4FVB4	XB4FVB5	XB4FVB6	ZBVB1 (2)
	110...120 VAC	XB4FVG1	XB4FVG3	XB4FVG4	XB4FVG5	XB4FVG6	ZBVG1 (2)
	230...240 VAC	XB4FVM1	XB4FVM3	XB4FVM4	XB4FVM5	XB4FVM6	ZBVM1 (2)

2 Illuminated pushbuttons with flush push and universal LED

Color		White	Green	Red	Orange	Blue	Yellow
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB4BW31B5	XB4BW33B5	XB4BW34B5	XB4BW35B5	XB4BW36B5	ZBVB1 (3)
	110...120 VAC	XB4BW31G5	XB4BW33G5	XB4BW34G5	XB4BW35G5	XB4BW36G5	ZBVG1 (3)
	230...240 VAC	XB4BW31M5	XB4BW33M5	XB4BW34M5	XB4BW35M5	XB4BW36M5	ZBVM1 (3)
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB4FW31B5	XB4FW33B5	XB4FW34B5	XB4FW35B5	XB4FW36B5	ZBVB1 (4)
	110...120 VAC	XB4FW31G5	XB4FW33G5	XB4FW34G5	XB4FW35G5	XB4FW36G5	ZBVG1 (4)
	230...240 VAC	XB4FW31M5	XB4FW33M5	XB4FW34M5	XB4FW35M5	XB4FW36M5	ZBVM1 (4)



3 Selector switches and key switches

Positions (number and type)		2 	2 	2 	3 	3 
		Stay put	Spring return	Stay put	Stay put	Spring return
Contact		NO		NO + NC	2 NO	
Connection		Screw clamp terminals				
Complete product	Black handle	XB4BD21	XB4BD41	XB4BD25	XB4BD33	XB4BD53
	Long black handle	XB4BJ21	–	–	XB4BJ33	XB4BJ53
	Key switch (No. 455)	XB4BG21	XB4BG61	–	XB4BG33	–
Complete flush mounting head in 30.5 mm diameter hole	Black	XB4FD21	XB4FD41	XB4FD25	XB4FD33	XB4FD53
	Long black handle	XB4FJ21	–	–	XB4FJ33	XB4FJ53
	Key switch (No. 455)	XB4FG21	XB4FG61	–	XB4FG33	–

4 Illuminated selector switches with universal LED and colored handle

Stay put positions		2 ∨				3 ∨		
Color		Green	Red	Orange	Green	Red	Orange	
Contact		NO + NC						
Connection		Screw clamp terminals						
Complete product	24 VAC/VDC	XB4BK123B5	XB4BK124B5	XB4BK125B5	XB4BK133B5	XB4BK134B5	XB4BK135B5	
	110...120 VAC	XB4BK123G5	XB4BK124G5	XB4BK125G5	XB4BK133G5	–	–	
	230...240 VAC	XB4BK123M5	XB4BK124M5	XB4BK125M5	XB4BK133M5	XB4BK134M5	XB4BK135M5	
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB4FK123B5	XB4FK124B5	XB4FK125B5	XB4FK133B5	XB4FK134B5	XB4FK135B5	
	110...120 VAC	XB4FK123G5	XB4FK124G5	XB4FK125G5	XB4FK133G5	XB4FK134G5	XB4FK135G5	
	230...240 VAC	XB4FK123M5	XB4FK124M5	XB4FK125M5	XB4FK133M5	XB4FK134M5	XB4FK135M5	

5 Double- and triple-headed pushbuttons

Type	1 flush and 1 projecting	2 flush	1 flush and 1 projecting	2 flush	2 flush + 1 red central projecting
Contact	NO + NC		NO + NC with 24 V pilot light		2 NO + NC
Connection	Screw clamp terminals				
Complete product	XB4BL73415	–	XB4BW73731B5	–	XB4BA731327
Head	ZB4BL7341	ZB4BA7121	ZB4BW7L3741	ZB4BW7A1721	–
Body	ZB4BZ105		ZB4BZ105 + ZBVB1		ZB4BZ103 + ZBE102

(1) To get a complete pilot light, this body must be combined with a ZB4BZ009 socket and a ZB4BV083 head (to be ordered separately).

(2) To get a complete pilot light, this body must be combined with ZB4BZ009 socket and ZB4FV083 head (to be ordered separately).

(3) To get a complete illuminated pushbutton, this body must be combined with a ZB4BZ009 socket and a ZB4BW383 head (to be ordered separately).

(4) To get a complete pilot light, this body must be combined with ZB4BZ009 socket and ZB4FW383 head (to be ordered separately).

Harmony XB5 plastic pushbuttons



1 Pushbuttons with flush push, unmarked

Color	 White	 Black	 Green	 Red	 Yellow	 Blue
Contact	NO			NC	NO	
Connection	Screw clamp terminals					
Complete product for standard mounting	XB5AA11	XB5AA21	XB5AA31	XB5AA42	XB5AA51	XB5AA61
Standard mounting head	ZB5AA1	ZB5AA2	ZB5AA3	ZB5AA4	ZB5AA5	ZB5AA6
Complete flush mounting head in 30.5 mm diameter hole	XB5FA11	XB5FA21	XB5FA31	XB5FA42	XB5FA51	XB5FA61
Flush mounting head in 30.5 mm diameter hole	ZB5FA1	ZB5FA2	ZB5FA3	ZB5FA4	ZB5FA5	ZB5FA6
Body	ZB5AZ101			ZB5AZ102	ZB5AZ101	

2 Booted pushbuttons with flush push, unmarked

Complete product for standard mounting	–	XB5AP21	XB5AP31	XB5AP42	XB5AP51	XB5AP61
Standard mounting head	–	ZB5AP2	ZB5AP3	ZB5AP4	ZB5AP5	ZB5AP6
Body	–	ZB5AZ101		ZB5AZ102	ZB5AZ101	

3 Pushbuttons with flush push, marked

Color	 White	 Black	 Green	 Red	 Green	 Red
Marking	 ↑	 ↓	"I" (white)	"O" (white)	"START" (white)	"STOP" (white)
Contact	NO			NC	NO	NC
Connection	Screw clamp terminals					
Complete product for standard mounting	XB5AA3341	XB5AA3351	XB5AA3311	–	–	–
Standard mounting head	ZB5AA334	ZB5AA335	ZB5AA331	ZB5AL432 (1)	ZB5AA333	ZB5AL434
Complete flush mounting head in 30.5 mm diameter hole	XB5FA3341	XB5FA3351	XB5FA3311	XB5FL4322 (1)	–	–
Flush mounting head in 30.5 mm diameter hole	ZB5FA334	ZB5FA335	ZB5FA331	ZB5FL432 (1)	ZB5FA333	ZB5FL434 (1)
Body	ZB5AZ101			ZB5AZ102	ZB5AZ101	ZB5AZ102



4 Ø 40 trigger action Emergency stop mushroom head pushbuttons

Color	Red				
Contact	NO + NC Push-pull	1 NC monitoring Turn to release	2 NC Turn to release	NO + NC Turn to release	NO + NC Key release
Connection	Screw clamp terminals				
Complete product for standard mounting	XB5AT845	XB5AS8446	XB5AS8444	XB5AS8445	XB5AS9445
Standard mounting head	ZB5AT84	ZB5AS844		ZB5AS944	
Body	ZB5AZ105	ZBE302 + ZB5AZ009	ZB5AZ104	ZB5AZ105	

5 Ø 40 mushroom head pushbuttons, spring return

Color	Black	Green	Blue	Yellow
Contact	NO Push-pull			
Connection	Screw clamp terminals			
Complete product for standard mounting	XB5AC21	–	–	–
Standard mounting head	ZB5AC2	ZB5AC3	ZB5AC6	ZB5AC5
Body	ZB5AZ101			

6 Illuminated Emergency stop head

Color of the illuminated ring	White / Red		Red	
Power supply	24 VAC/VDC		110-120 VAC	
Contact	NO + 2NC Turn to release	NO + NC Turn to release	NO + 2NC Turn to release	NO + NC Turn to release
Connection	Screw clamp terminals			
Complete product for standard mounting	XB5AS84W3B41	XB5AS84W3B5	–	–
Standard mounting head	ZB5AS84W3B		ZB5AS84W2B	ZB5AS84W2G
Body	ZB5AZ141	ZB5AZ105	ZB5AZ141	ZB5AZ105

7 Illuminated ring for Emergency stop (2)

Color of the illuminated ring	White / Red		Red	
Power supply	24 VAC/VDC		110-120 VAC	
Complete product for standard mounting	Unmarked	ZBY9W3B140	ZBY9W2B140	ZBY9W2G140
	EMERGENCY STOP	ZBY9W3B330	ZBY9W2B330	ZBY9W2G330
	ARRET D'URGENCE	ZBY9W3B130	ZBY9W2B130	ZBY9W2G130
	PARADA DE EMERGENCIA	ZBY9W3B430	ZBY9W2B430	ZBY9W2G430
	NOT-HALT	ZBY9W3B230	ZBY9W2B230	ZBY9W2G230

(1) With projecting push.

(2) For compliance with standard EN/ISO 13850, paragraph 4.4.6, the Emergency stop function logo ® has been added.

Harmony XB5 plastic pushbuttons



1 Pilot lights with universal LED

Color		White	Green	Red	Orange	Blue	Yellow
Connection		Screw clamp terminals					
Complete product for standard mounting	24 VAC/VDC	XB5AVB1	XB5AVB3	XB5AVB4	XB5AVB5	XB5AVB6	ZBVB1 (1)
	110...120 VAC	XB5AVG1	XB5AVG3	XB5AVG4	XB5AVG5	XB5AVG6	ZBVG1 (1)
	230...240 VAC	XB5AVM1	XB5AVM3	XB5AVM4	XB5AVM5	XB5AVM6	ZBVM1 (1)
Monolithic product for standard mounting	24 VAC/VDC	XB5EVB1	XB5EVB3	XB5EVB4	XB5EVB5	XB5EVB6	XB5EVB8
	110...120 VAC	XB5EVG1	XB5EVG3	XB5EVG4	XB5EVG5	—	XB5EVG8
	230...240 VAC	XB5EVM1	XB5EVM3	XB5EVM4	XB5EVM5	XB5EVM6	XB5EVM8
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB5FVB1	XB5FVB3	XB5FVB4	XB5FVB5	XB5FVB6	ZBVB1 (2)
	110...120 VAC	XB5FVG1	XB5FVG3	XB5FVG4	XB5FVG5	XB5FVG6	ZBVG1 (2)
	230...240 VAC	XB5FVM1	XB5FVM3	XB5FVM4	XB5FVM5	XB5FVM6	ZBVM1 (2)

2 Illuminated pushbuttons with flush push with universal LED

Color		White	Green	Red	Orange	Blue	Yellow
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product for standard mounting	24 VAC/VDC	XB5AW31B5	XB5AW33B5	XB5AW34B5	XB5AW35B5	XB5AW36B5	ZBVB1 (3)
	110...120 VAC	XB5AW31G5	XB5AW33G5	XB5AW34G5	XB5AW35G5	XB5AW36G5	ZBVG1 (3)
	230...240 VAC	XB5AW31M5	XB5AW33M5	XB5AW34M5	XB5AW35M5	XB5AW36M5	ZBVM1 (3)
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB5FW31B5	XB5FW33B5	XB5FW34B5	XB5FW35B5	XB5FW36B5	ZBVB1 (4)
	110...120 VAC	XB5FW31G5	XB5FW33G5	XB5FW34G5	XB5FW35G5	XB5FW36G5	ZBVG1 (4)
	230...240 VAC	XB5FW31M5	XB5FW33M5	XB5FW34M5	XB5FW35M5	XB5FW36M5	ZBVM1 (4)



3 Selector switches and key switches

Positions		2 	2 	2 	3 	3 
Contact		NO		NO + NC	2 NO	
Connection		Screw clamp terminals				
Complete product for standard mounting	Black handle	XB5AD21	XB5AD41	XB5AD25	XB5AD33	XB5AD53
	Long black handle	XB5AJ21	—	—	XB5AJ33	XB5AJ53
	Key switch (No. 455)	XB5AG21	XB5AG61	—	XB5AG33	—
Complete flush mounting head in 30.5 mm diameter hole	Black handle	XB5FD21	XB5FD41	XB5FD25	XB5FD33	XB5FD53
	Long black handle	XB5FJ21	—	—	XB5FJ33	XB5FJ53
	Key switch (No. 455)	XB5FG21	XB5FG61	—	XB5FG33	—

4 Illuminated selector switches with universal LED and colored handle

Stay put positions		2 			3 		
Color		 Green	 Red	 Orange	 Green	 Red	 Orange
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product for standard mounting	24 VAC/VDC	XB5AK123B5	XB5AK124B5	XB5AK125B5	XB5AK133B5	XB5AK134B5	XB5AK135B5
	110...120 VAC	XB5AK123G5	—	XB5AK125G5	—	—	—
	230...240 VAC	XB5AK123M5	XB5AK124M5	XB5AK125M5	XB5AK133M5	XB5AK134M5	XB5AK135M5
Complete flush mounting head in 30.5 mm diameter hole	24 VAC/VDC	XB5FK123B5	XB5FK124B5	XB5FK125B5	XB5FK133B5	XB5FK134B5	XB5FK135B5
	110...120 VAC	XB5FK123G5	XB5FK124G5	XB5FK125G5	XB5FK133G5	XB5FK134G5	XB5FK135G5
	230...240 VAC	XB5FK123M5	XB5FK124M5	XB5FK125M5	XB5FK133M5	XB5FK134M5	XB5FK135M5

5 Double- and triple-headed pushbuttons

Type	1 flush 1 projecting	2 flush	1 flush 1 projecting	2 flush + 1 red central projecting
Contact	NO + NC		NO + NC with 24V pilot light	2 NO + NC
Connection	Screw clamp terminals			
Complete product	XB5AL73415	–	XB5AW73731B5 –	XB5AA731327 –
Head	ZB5AL7341	ZB5AA7121	ZB5AW7L3741 –	– ZB5AA71124
Body	ZB5AZ105		ZB5AZ105 + ZBVB1	ZB5AZ103 + ZBE102

(1) To get a complete pilot light, this body must be combined with a ZB5AZ009 socket and a ZB5AV083 head (to be ordered separately - see previous page).

(2) To get a complete pilot light, this body must be combined with ZB5AZ009 socket and ZB5FV083 head (to be ordered separately).

(3) To get a complete illuminated pushbutton, this body must be combined with a ZB5AZ009 socket and a ZB5AW383 head (to be ordered separately - see previous page).

(4) To get a complete illuminated pushbutton, this body must be combined with ZB5AZ009 socket and ZB5FW383 head (to be ordered separately).

Harmony XB4 and XB5 pushbuttons: other functions



1 Buzzer

Color		Black	Red illumination	Yellow illumination		
Wiring connector		Screw clamp terminals				
Monolithic product	24 VAC/VDC	XB5KSB	XB5KS2B4	XB5KS2B8		
	110...120 VAC/VDC	XB5KSG	XB5KS2G4	XB5KS2G8		
	230...240 VAC	XB5KSM	XB5KS2M4	XB5KS2M8		
USB and RJ45 ports						
Description		Panel-mounted USB and RJ45 ports in 22.5 mm hole with notch		Protection covers		
Characteristics		USB interface, type A jack	Ethernet interface, RJ45 jack	Black	Rigid, transparent	Metal
Connection type		USB port 3.0 A-A	RJ45 port Cat. 6	—	—	—
Degree of protection		IP20	IP20	IP65/IP67	IP65/IP67	IP65/IP67/IP69K
Reference		XB5PUSB3	XB5PRJ45	ZBSP1	ZBSP2	ZBSP3

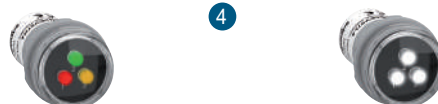
2 USB and RJ45 ports

Description	Panel-mounted USB and RJ45 ports in 22.5 mm hole with notch		Protection covers		
Characteristics	USB interface, type A jack	Ethernet interface, RJ45 jack	Black	Rigid, transparent	Metal
Connection type	USB port 3.0 A-A	RJ45 port Cat. 6	–	–	–
Degree of protection	IP20	IP20	IP65/IP67	IP65/IP67	IP65/IP67/IP69K
Reference	XB5PUSB3	XB5PRJ45	ZBSP1	ZBSP2	ZBSP3



3 Timers

Description	Panel-mounted timer function with LED status and 1 static output in 22.5 mm hole				
Output type	1 static output				
Time delay type	Type A (delay on energization)				
Time delay range		0.5...10 s	3...60 s	0.5...10 min	3...60 min
Reference	24 VDC	XB5DTB22	XB5DTB23	XB5DTB24	XB5DTB25
	100...240 VAC 50/60 Hz	XB5DTGM2	XB5DTGM3	XB5DTGM4	XB5DTGM5



4 3-phase pilot lights with integral LED

Description	Panel-mounted 3-phase voltage indicator pilot lights with 3 LEDs in 30 mm hole		
Connection	Faston connector, 6.3 mm		
Colors	Red, green, yellow	3 white LEDs	
Complete product	400 VAC	XB5EV57K4	XB5EV57L4



5 XB4 complete potentiometers

Description	Panel-mounted complete potentiometers in 22.5 mm hole		
Connection	Screw terminals		
Resistance (in kΩ)	1	4.7	10
Reference	XB4BD912R1K	XB4BD912R4K7	XB4BD912R10K
Resistance (in kΩ)	47	100	470
Reference	XB4BD912R47K	XB4BD912R100K	XB4BD912R470K

6 XB5 complete potentiometers

Description	Panel-mounted complete potentiometers in 22.5 mm hole			
Connection	Screw terminals			
Resistance (in kΩ)	1	2.2	4.7	10
Reference	XB5AD912R1K	XB5AD912R2K2	XB5AD912R4K7	XB5AD912R10K
Resistance (in kΩ)	47	100	470	
Reference	XB5AD912R47K	XB5AD912R100K	XB5AD912R470K	

Harmony: other functions



1 Harmony XB5S biometric switches standalone

Receiver	Monostable	Bistable
Power supply	24 VDC/PNP output	
Cable 2 m	XB5S2B2L2	XB5S1B2L2
M12 connector	XB5S2B2M12	XB5S1B2M12

2 Harmony XB5S biometric switches RGPD/USB

Receiver	Monostable		Bistable		
Power supply	24 VDC/PNP output				
Features	Standalone RGPD	USB RGPD	Standalone RGPD	USB RGPD	
Cable 2 m	XB5S6B2L2	XB5S9B2L2	XB5S7B2L2	XB5S8B2L2	
M12 connector	XB5S6B2M12	XB5S9B2M12	XB5S7B2M12	XB5S8B2M12	



3 Harmony XB5 digital panel meter

Product type	Display module	
LED color	Green	Red
Input range	4...20 mA DC	
Reference	XBH1AA0R4	XB1HAA0G4



4 Harmony XB4R/XB5R wireless and batteryless pushbuttons

Receiver	Non-programmable + 1 black cap		
Power supply	24 VDC		
Pushbutton	1 plastic	1 metal	1 plastic in handy box
Reference	XB5RFB01	XB4RFA02	XB5RMB03



5 Harmony Hub wireless gateway

Receiver	Modbus/TCP Ethernet	Modbus serial line
Power supply	24 VDC	
Reference	ZBRN1	ZBRN2
Accessories	ZBRCETH	—
Relay antenna	ZBRA1	ZBRA1
Passive antenna	ZBRA2	ZBRA2

Note: A wide range of wireless sensors can be connected to the Harmony Hub gateway to collect functional and environmental data.

Accessories for Harmony pushbuttons



1 Harmony Hub Ecosystem (1)

Type	Temperature & Humidity Sensor	Self-powered current monitoring wireless clamp	Rope pull switch with wireless battery-less transmitter
Measurement Range	-25...90 °C at 35 °C 10%...98%	0.5 A to 500 A	–
Reference	ZBRTT1	ZBRTC●	ZBRP1

2 Contact blocks (for XB4 and XB5 pushbuttons)

Type	Electrical blocks						Body fixing collars for XB4 or XB5	
Contact	NO	NC	NC with monitoring	NO	NC	–	–	–
Connection	Screw clamp terminals			Spring clamp terminals			–	–
Sold in lots of	5	5	5	4	4	10		
Reference	Contact block	ZBE101	ZBE102	ZBE302	ZBE1015	ZBE1025	ZB4BZ009	ZB5AZ009

3 Light blocks with integral LED (for XB4 and XB5 pushbuttons)

Color			Universal for all colour 		
Connection			Screw clamp terminals		Spring clamp terminals
Reference	Contact block	24 VAC/VDC	ZBVB1	ZBVB15	
		110...120 VAC	ZBVG1	ZBVG15	
		230...240 VAC	ZBVM1	ZBVM15	

4 Wireless and battery-less interface to be used with ZBRR and ZBRN (for XB4 and XB5 pushbuttons)

Function	Push only (1 state)	Push and release (2 states)
Reference	ZBRT1	ZBRT2

5 Visual feedback for wireless pushbutton

Function	Visual feedback confirming the signal reception of ZBRT wireless transmitter
Reference	ZBRV1

6 Legend holders 30 x 40 mm for 8 X 27 mm legends

White marking/Red or black background						Black marking/Yellow background		
O	–	I	ZBY2147	AUTO	–	ARRET D'URGENCE	ZBY9120	ZBY9130T (2)
OFF	ZBY2312	ON	ZBY2311	START	ZBY2303	EMERGENCY STOP	ZBY9320	ZBY9330T (2)
Without marking/Red or black background						Without marking/Yellow background		
Red	ZBY2101	Black	ZBY2101				ZBY9121	



7 Illuminated ring without legend for customization (use with ZBY9W101)

Description	Ø60 mm, can be used with all Ø22 mm heads	Ø60 mm, can be used with all Ø22 mm heads
Marking	No Marking	No Marking
Signaling	Fixed, Red	Fixed, Red + white
Supply Voltage	24 V	24 V
Reference	ZBY9W2B501	ZBY9W3B501

8 Customizable Circular legend for illuminated ring without legend (2)

Description	Ø60 mm
Reference	ZBY9W101

9 Legend holders for flush mounting head

Without legend				With blank legend without marking, black or red background			
8 x 27 mm legend for XB4F & XB5F	ZBZF32	18 x 27 mm legend	ZBZF33	8 x 27 mm legend	ZBYF2101	18 x 27 mm legend	ZBYF6101

10 Transparent boots for pushbuttons (sold in lots of 10)

For pushbuttons	Circular projecting	Circular flush	Circular flush or projecting	Flush, double headed	Triple headed	Flush/projecting double headed	Flush/projecting double headed for water jet cleaning
Reference	ZBP0	ZBPA	ZBP0A	ZBA708	ZBA709	ZBA710	ZBA711

11 Flush mounting kits

For use with	Pushbuttons and pilot lights				Selector switches and illuminated pushbuttons		
Range and appearance	XB4 chromium plated, depth 9.8 mm	XB5 plastic, black depth 9.8 mm	XB5 plastic, black, depth 12.3 mm with 1- or 2-line legend		XB5 plastic, black, depth 12.3 mm	XB5 plastic, black, depth 12.3 mm with 1- or 2-line legend	
			1-line legend	2-line legend		1-line legend	2-line legend
Reference	ZB4BZ021	ZB5AZ021	ZB5AZ023	ZB5AZ025	ZB5AZ022	ZB5AZ024	ZB5AZ026

(1) These are examples of compatible sensors, more information is available in the product catalog.

(2) Create customized marking on this reference using the web customization tool.

Harmony XAP die-cast metal enclosures

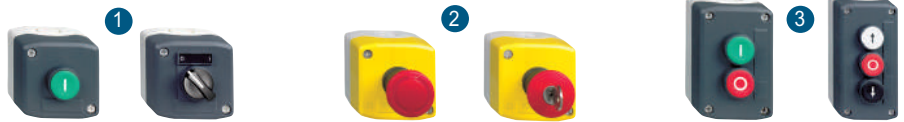


1	Harmony XAPK (yellow RAL 1004) (1)									
Usable depth		49 mm		74.5 mm						
Number of cut-outs (22 mm)		0	1	0	1					
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	XAPK11	XAPK1201	XAPK14	XAPK1501					
2 Harmony XAPD with 49 mm usable depth (grey RAL 7035) (1)										
Number of cut-outs (22 mm)		0	1	2	3	4	6			
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	XAPD11	XAPD1201	XAPD1202	–	–	–			
	80 x 130 / M20	XAPD21	–	XAPD2202	XAPD2203	XAPD2204	–			
	80 x 175 / M25	XAPD31	–	–	XAPD3203	XAPD3204	XAPD3206			
3 Harmony XAPD with 74.5 mm usable depth (grey RAL 7035) (1)										
Number of cut-outs (22 mm)		0	1	2	3	4	5	6	8	10
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	XAPD14	XAPD1501	XAPD1502	–	–	–	–	–	–
	80 x 130 / M20	XAPD24	–	XAPD2502	XAPD2503	XAPD2504	–	–	–	–
	80 x 175 / M25	XAPD34	–	–	XAPD3503	XAPD3504	–	XAPD3506	–	–
	80 x 220 / M25	XAPD44	–	–	–	XAPD4504	XAPD4505	XAPD4506	XAPD4508	–
	80 x 310 / M32	XAPD54	–	–	–	–	XAPD5505	–	XAPD5508	XAPD5510
Number of cut-outs (30 mm)		0	1	2	3	4	5	6	8	10
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	–	XAPD1601 (2)	–	–	–	–	–	–	–
	80 x 130 / M20	–	–	XAPD2602 (2)	–	–	–	–	–	–
	80 x 175 / M25	–	–	–	XAPD3603 (2)	–	–	–	–	–
	80 x 220 / M25	–	–	–	–	XAPD4604 (2)	–	–	–	–
	80 x 310 / M32	–	–	–	–	–	–	XAPD5606 (2)	–	–
4 Harmony XAPO with 74.5 mm usable depth (orange RAL 2008)										
Cut-outs diameter		22 mm					30 mm with notch			
Number of cut-outs		1	2	3	4	6	1	2	3	4
Dimension (W x H)/ Cable gland hole	80 x 80 / M20	XAPO1501	–	–	–	–	XAPO1601	–	–	–
	80 x 130 / M20	–	XAPO2502	–	–	–	–	XAPO2602	–	–
	80 x 175 / M25	–	–	XAPO3503	XAPO3504	–	–	–	XAPO3603	–
	80 x 220 / M25	–	–	–	–	XAPO4506	–	–	–	XAPO4604
5 Harmony XAPG with 49 mm usable depth (grey RAL 7032)										
Number of cut-outs (22 mm)		0	1	2	3	4				
Dimension (W x H)/ Cable gland hole	80 x 80 / 3/4 NPT	XAPG19100	XAPG19201	XAPG19702	–	–				
	80 x 130 / 3/4 NPT	–	–	XAPG29202	XAPG29703					
	80 x 175 / 3/4 NPT	XAPG39100	–	–	XAPG39203	XAPG39704				
6 Harmony XAPG with 74.5 mm usable depth (grey RAL 7032)										
Number of cut-outs (22 mm)		0	1	2	3	4	5			
Dimension (W x H)/ Cable gland hole	80 x 80 / 3/4 NPT	XAPG19400	XAPG19501	–	–	–	–			
	80 x 130 / 3/4 NPT	XAPG29400	–	XAPG29502	–	–	–			
	80 x 175 / 3/4 NPT	–	–	–	XAPG39503	XAPG39804	–			
	80 x 220 / 3/4 NPT	–	–	–	–	XAPG49504	–			
	80 x 310 / 3/4 NPT	–	–	–	–	–	XAPG59505			
Number of cut-outs (30 mm)		0	1	2	3	4	5			
Dimension (W x H)/ Cable gland hole	80 x 80 / 3/4 NPT	–	XAPG19601	–	–	–	–			

(1) Full customization of front cover with legend panel is possible through online product configurator.

(2) Flush mounting head can be mounted with ZB4FBZ014 accessory.

Harmony XAL plastic control stations



1

Control stations with 1 pushbutton, type XALD

Number and type of pushbuttons		1 start or stop			1 start and stop	
Color or type		 Green	 Green	 Red	 Handle	 Key
Marking		"I" (white)	"START" (white)	"O" (white)	"O-I" (white)	"O-I" (white)
Contact		NO		NC	NO	
Connection		Screw clamp terminals				
Complete product	Flush pushbutton	XALD102 (1)	XALD103 (1)	XALD112	–	–
	Selector switch	–	–	–	XALD134 (1)	XALD144 (1)

2

Control stations with 1 Emergency stop pushbutton, type XALK

Number and type of pushbuttons		1 x Ø 40 trigger action Emergency stop mushroom head pushbutton						
Color		 Red						
Type		Turn to release				Key release		
Contact		1 NC monitoring	NC	2 NC	2 NC + NO	NC	2 NC	2 NC + NO
Connection		Screw clamp terminals						
Complete product		XALK1786	XALK178 (1)	XALK178F (1)	XALK178G (1)	XALK188 (1)	XALK188F	XALK188G (1)

3

Control stations with pushbuttons, type XALD

Number and type of pushbuttons		2 start and stop flush mounting			2 up/down flush mounting		
Color/Marking		1 "I" green	1 "Start" green	1 pilot light 24 VDC	1 "Up" white		
		1 "O" red	1 "Stop" red	1 "I" green	1 "Down" black	1 "O" red	1 E-stop red
		–	–	1 "O" red	–	1 "Down" black	
Contact		NO + NC			2 NO		NO + NC + NO
Connection		Screw clamp terminals					
Complete product		XALD213 (1)	XALD215 (1)	XALD363B (1)	XALD222 (1)	XALD324 (1)	XALD328 (1)

(1) Add H7 for UL/CSA conforming version, e.g. XALD102H7.

Harmony XAC pendant control stations

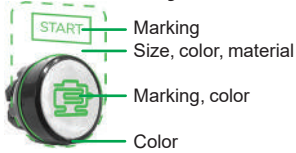


Harmony XACA pendant control stations for Ø 22 plastic signaling units					
Number of pushbuttons	2	3	4	6	8
Type	Pistol grip		Standard		
Color	Yellow		Yellow		
Pushbutton 1: Raise (1)	Yes	Yes	Yes	Yes	Yes
Pushbutton 2: Lower (1)	Yes	Yes	Yes	Yes	Yes
Emergency stop (2)	–	Yes	–	–	–
Pushbutton 3: Left (1)	–	–	Yes	Yes	Yes
Pushbutton 4: Right (1)	–	–	Yes	Yes	Yes
Pushbutton 5: Forward (1)	–	–	–	Yes	Yes
Pushbutton 6: Reverse (1)	–	–	–	Yes	Yes
Pushbutton 7: O (1)	–	–	–	–	Yes
Pushbutton 8: I (1)	–	–	–	–	Yes
Reference	XACA201	XACA2014	XACA471	XACA671	XACA871

(1) With NO contact.

(2) With NC contact.

Choose your style with Harmony customization tool



Pushbutton Ø 22 mm: base product customizable (1)

Type	Harmony XB4B, metal	Harmony XB5A, plastic
Pushbutton, black, 1 NO contact block	XB4BA21	XB5AA21
Pilot light, red, 24 VAC/VDC	XB4BVB4	XB5AVB4
Legend plate, 30 x 50 mm, dark grey color	ZBYM6101	ZBYP6101
Legend holder, 30 x 50 mm	—	ZBY6101



Flush mounted pushbutton: base product customizable (1)

Type	Harmony XB4F, metal	Harmony XB5F, plastic
Pushbutton, black, 1 NO contact block	XB4FA21	XB5FA21
Selector switch, 2 positions, 1 NO contact block	XB4FD21	XB5FD21
Pilot light, red, 24 VAC/VDC	XB4FVB4	XB5FVB4
Legend plate, 30 x 50 mm, dark grey color	—	ZBYFP6101
Legend holder, 40 x 50mm	—	ZBYF2101



Plastic control station: base product customizable (1)

Type	Grey color	Yellow color
1 hole	XALD01	XALK01
2 holes	XALD02	—
5 holes	XALD05	—



Legend panel: base product customizable (1)

Template size (mm/in.)	Reference
100 x 100/3.93 x 3.93	ZBYLEG101000
300 x 400/11.81 x 15.74	ZBYLEG304000
500 x 400/19.68 x 15.74	ZBYLEG504000

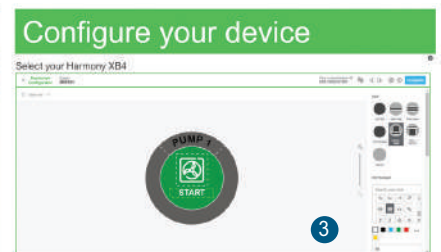
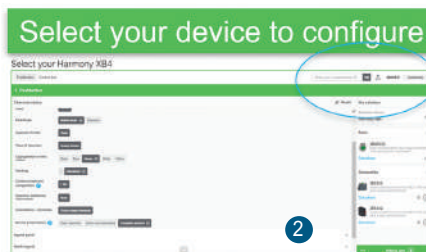
(1) Fast, easy, and intuitive: for other color or type

- 1 Go to [Product Selector](#)
- 2 Select your device
- 3 Define your customization

> Metal



> Plastic



Harmony XB7 Ø 22 monolithic pushbuttons



Pushbutton with flush push, unmarked

Color	 White	 Black	 Green	 Red	 Yellow	 Blue
Contact	NO			NO + NC		
Connection	Screw clamp terminals					
Complete product	XB7NA11	XB7NA21	XB7NA31	XB7NA45	XB7NA85	XB7NA65



Pushbutton with flush push, marked

Color	 White	 Black	 Green	 Green	 Red
Marking	↑	↓	"I" (white)	"START" (white)	"STOP" (white)
Contact	NO			NO	NC
Connection	Screw clamp terminals				
Complete product	XB7NA11341	XB7NA21343	XB7NA3131	XB7NA3133	XB7NA4234



Ø 40 trigger action Emergency stop mushroom head pushbuttons

Color	 Red		
Contact	NO + NC Push-pull	NO + NC Turn to release	2 NC Key release
Connection	Screw clamp terminals		
Complete product	XB7NT845	XB7NS8445	XB7NS9444



Pilot lights with integral LED

Color		 Green	 Red	 Yellow	 Blue	 Clear	 Orange
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB7EV03BP	XB7EV04BP	XB7EV05BP	XB7EV06BP	XB7EV07BP	XB7EV08BP
	120 VAC	XB7EV03GP	XB7EV04GP	XB7EV05GP	XB7EV06GP	XB7EV07GP	XB7EV08GP
	230 VAC	XB7EV03MP	XB7EV04MP	XB7EV05MP	XB7EV06MP	XB7EV07MP	XB7EV08MP



Illuminated pushbutton with flush push with integral LED

Color		 Green	 Red	 Orange	 Blue	 Clear	 Yellow
Contact		NO + NC					
Connection		Screw clamp terminals					
Complete product	24 VAC/VDC	XB7NW33B1	XB7NW34B1	XB7NW35B1	XB7NW36B1	XB7NW37B1	XB7NW38B1
	120 VAC	XB7NW33G1	XB7NW34G1	–	XB7NW36G1	XB7NW37G1	XB7NW38G1
	230 VAC	XB7NW33M1	XB7NW34M1	XB7NW35M1	–	XB7NW37M1	XB7NW38M1



Selector switches with black handle

Positions		2 ∨	2 ∨	3 ∨	2 ↙	3 ↘
Type		Stay put			Key withdrawal in LH position	Key withdrawal in center position
Contact		NO	NO + NC	2 NO	NO	2 NO
Connection		Screw clamp terminals				
Complete product	24 VAC/VDC	XB7ND21	XB7ND25	XB7ND33	XB7NG21	XB7NG33

Other control components



Harmony XD4 joystick controllers

Number of directions	2	4	2	4
Contact	1 NO per direction			
Position	Stay put		Spring return	
Reference	XD4PA12	XD4PA14	XD4PA22	XD4PA24

Harmony cam switches

Function	Ammeter	Voltmeter	Changeover	ON-OFF switches		Stepping
Thermal current	12 Amps					
Number of poles	6	6	4	1	3	3
Multi-screw fixing	K1F003MLH	K1F027MLH	K1D002ULH	K1A001ALH	K1C003ALH	K1C003QLH
Ø 22 fixing	K1F003MCH	K1F027MCH	K1D002UCH	K1A001ACH	—	K1C003QCH

Harmony XPE foot switches

Material/Color	Plastic black	Plastic yellow	Metal blue	Metal blue	Metal blue	Metal orange
Cover	No	Yes	No		Yes	
Contact	1 NC + 1 NO		2 NC + 2 NO		1 NC + 1 NO	
Without trigger mechanism	XPEA110	XPEY310	XPEM110	XPEM111	XPEM310	XPER310
Trigger mechanism	–	XPEY510	XPEM810	–	XPEM510	XPER510

Harmony remote control system and pendant control stations for hoisting



Harmony Pocket Remote

Transmitter	No. of push-buttons	3	4	6	8	10
	Reference	ZART03	ZART04	ZART06	ZART08	ZART10
Receiver	Connection	Pre-wired 1.5 m				
	Power supply	12-24 VDC				
	Standard output	5		11		
	Reference	ZARB05WSP		ZARB11WSP		

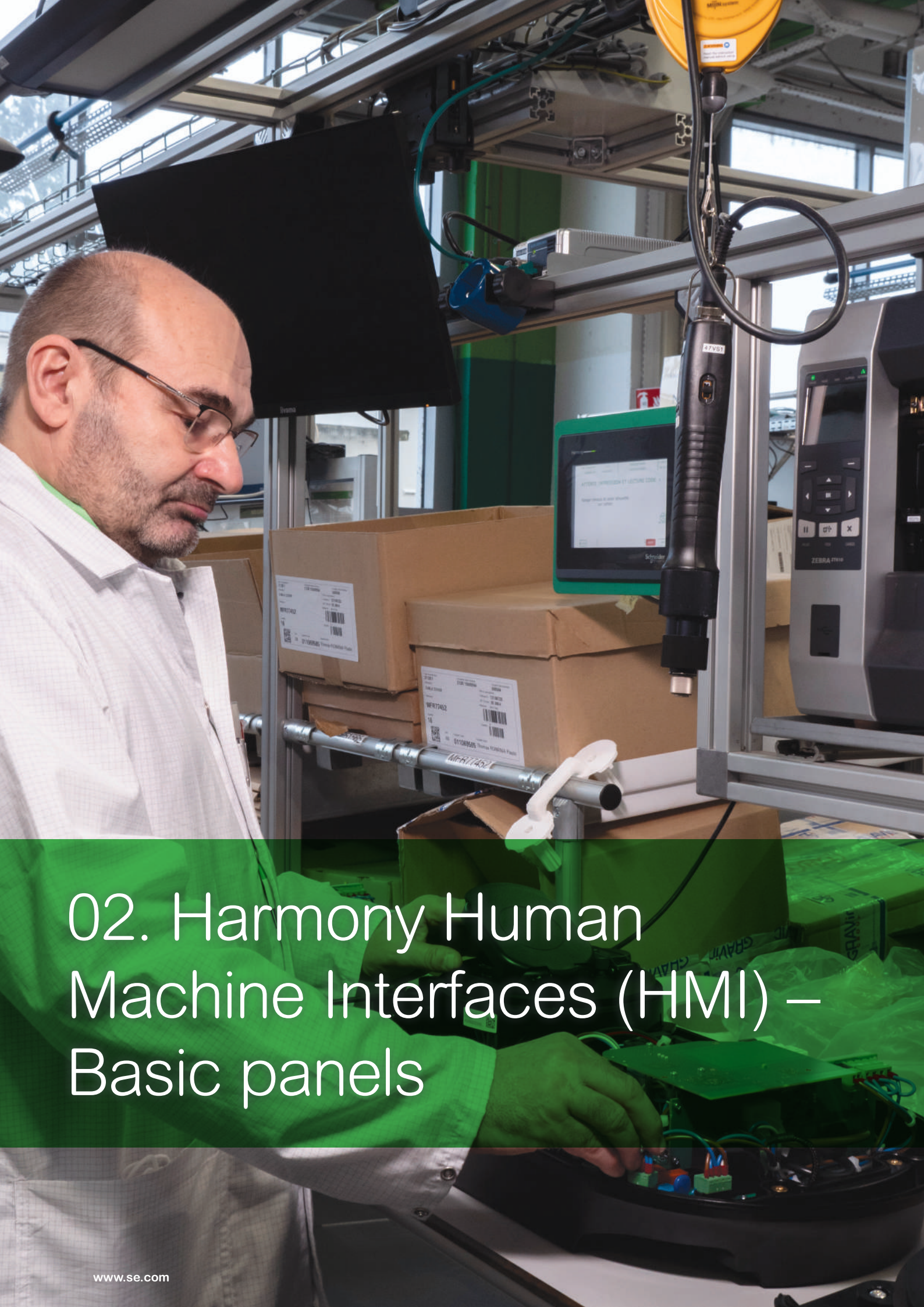
Harmony wireless remote control system (compact)

Motion pushbutton		6				
Auxiliary pushbuttons		1				
LED or display		LED				
Emergency stop mushroom head		1 Emergency stop mushroom head SIL 2 cat 3 PLd				
Base	Standard output	10				
	Safety output	2				
Handheld	Reference	ZART8LS				
Base	Power supply	48...240 VAC				24 VDC
	Connection	Cable gland			Pre-wired 1.5 m	
	Reference	ZARB10WS			ZARB10WSP	ZARB10WSPDC

Harmony wireless remote control system (standard)

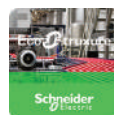
Motion pushbutton		6			
Auxiliary pushbuttons		2		2	6
LED or display		LED		Display	Display
Emergency stop mushroom head		1 Emergency stop mushroom head SIL 3 cat 4 PLd			
Base	Standard output	12		12	18
	Safety output	2		2	2
Inputs		–		–	18
Handheld	Reference	ZART8L		ZART8D	ZART12D
Base	Reference	ZARB12W		ZARB18W	ZARB18W
	Connection	Cable gland			





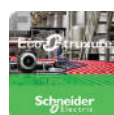
02. Harmony Human Machine Interfaces (HMI) – Basic panels

Harmony STO7, ST6 and STW6 models



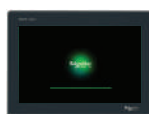
Harmony STO7 touch panels - most compact panels

Screen size		4.3"		
Screen resolution (pixels)		480 x 272		
Touch screen or keypad		Touch screen		
Software		EcoStruxure Operator Terminal Expert		
Memory capacity	Application memory	26 MB		
	Backup memory	128 KB		
	Expansion memory	No		
Communication	Ethernet port	No		1 LAN port
	Serial line	RS-232C (9-way terminal block)	RS-232C/RS-485 (RJ45 8-way)	No
	USB connection	1 type A host connector + 1 mini-B connector		
Operating temperature		0...50 °C		
Industrial certifications		CE, RCM, EAC, KC, UL, cUL, IECEx / ATEX Zone 2/22, RoHS, WEEE, REACH		
Cut-out (mm) (1)		112.5 x 77.5		
Dimensions (mm)		124.9 x 90.4 x 38.8		
Reference		HMISTO705	HMISTO715	HMISTO735



Harmony ST6 - New level of aesthetics with visually powerful EcoStruxure Operator Terminal Expert software

Screen size		4.3"	7"	10.1"	12.1"	15.6"
Screen resolution (pixels)		480 x 272	800 x 480	1,024 x 600	1,280 x 800	1,366 x 768
Touch screen or keypad		Touch screen				
Software		EcoStruxure Operator Terminal Expert				
Memory capacity	Application memory	128 MB				
	Backup memory	NVRAM 512 KB				
	Expansion memory	No				
Communication	Ethernet port	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX x2				
	Serial line	RS-232C/485 (COM1) RS-232C (COM1) and RS-485 (COM2)				
	USB connection	USB 2.0 (Type A) + USB 2.0 (micro-B)				
Operating temperature		0...50 °C				
Industrial certifications		CE, UL, cUL, RCM, KC, EAC, RoHS, WEEE, REACH				
Cut-out (mm)		118.5 x 92.5	190 x 135	255 x 185	295 x 217	394 x 250
Dimensions (mm)		134.5 x 108.5 x 43	208 x 153 x 45	273 x 203 x 47	313 x 235 x 50	412 x 268 x 50
Reference		HMIST6200	HMIST6400	HMIST6500	HMIST6600	HMIST6700

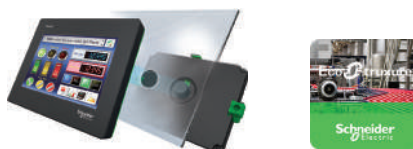


Harmony STW6 - New level of aesthetics and ready-to-use with a pre-installed browser

Screen size		4.3"	7"	10.1"	12.1"	15.6"
Screen resolution (pixels)		480 x 272	800 x 480	1,024 x 600	1,280 x 800	1,366 x 768
Touch screen or keypad		Touch screen				
Software		Linux Browser HTML5				
Memory capacity	System memory	512 MB				
	Backup memory	NVRAM 128 KB				
	Expansion memory	No				
Communication	Ethernet port	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX x2				
	Serial line	No				
	USB connection	USB 2.0 (Type A) + USB 2.0 (micro-B)				
Operating temperature		0...50 °C				
Industrial certifications		CE, UL, cUL, RCM, KC, EAC, RoHS, WEEE, REACH				
Cut-out (mm)		118.5 x 92.5	190 x 135	255 x 185	295 x 217	394 x 250
Dimensions (mm)		134.5 x 108.5 x 43	208 x 153 x 45	273 x 203 x 47	313 x 235 x 50	412 x 268 x 50
Reference		HMISTW6200	HMISTW6400	HMISTW6500	HMISTW6600	HMISTW6700

(1) An accessory adapter is available to fit in monochrome STO cut-out.

Harmony STM6 modular, faceless and Edge Box HMI models



Harmony STM6 - New level of aesthetics with unique pushbutton 22 mm mounting system

Screen size		4.3"	7"	—
Screen resolution (pixels)		480 x 272	800 x 480	—
Touch screen or keypad		Touch screen		—
Software		EcoStruxure Operator Terminal Expert		
Memory capacity	Application memory	128 MB		
	Backup memory	NVRAM 512 KB		
	Expansion memory	No		
Communication	Ethernet port	IEEE802.3i/IEEE802.3u, 10BASE-T/100BASE-TX		
	Serial line	RS-232C/485 (COM1)x2		
	USB connection	USB 2.0 (Type A) + USB 2.0 (micro-B)		
Operating temperature		0...50 °C		
Industrial certifications		CE, UL, cUL, RCM, KC, EAC, UL Class1 Div2, Marine, RoHS, WEEE, REACH		
Cut-out (mm)		hole 22.5	hole 22.5	DIN Rail mounting
Dimensions (mm)		145.6 x 108.2 x 53.9	201.2 x 137.2 x 57.7	150.49 x 109.97 x 63.3
Reference		HMISTM6200	HMISTM6400	HMISTM6BOX (1)



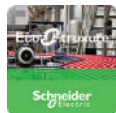
Harmony Edge Box HMI - affordable box to get ready for Cloud service thanks to the power of EcoStruxure Machine SCADA Expert

Software		EcoStruxure Machine SCADA Expert
Memory	Device memory	1GB
	Application memory	220 MB
Communication	Ethernet port	2 x Ethernet TCP/IP (10BASE-T/100BASE-TX)
	Serial line	RS-232C/485 (COM 1)
	USB connection	1x USB 2.0 (Type A), 1 x USB 2.0 Micro-B
Operating temperature		0...60°C
Industrial certifications		CE, UL, cUL, RCM, KC, EAC, UL Class1 Div2, Marine, RoHS, WEEE, REACH
Mounting		DIN Rail mounting
Dimensions (mm)		150.49 x 109.97 x 63.3
Reference		HMISTM6BOXIOT (2)

(1) Web Viewer run time license pre-activated.

(2) Runtime 500 tags EcoStruxure Machine SCADA Expert pre-activated + 1 Mobile Access Client activated + EcoStruxure Secure Connect pre-installed.

Programming software



EcoStruxure Operator Terminal Expert, programming software for Harmony STO7, ST6 and STM6 basic panels

Compatibility	Harmony STO7, ST6 and STM6 basic panels	
Type of EcoStruxure Operator Terminal Expert license	Professional License (1)	Basic Edition License (2)
Number of stations	1	
License format	Digital	Digital
License duration	Unlimited	
Reference	HMIPELCZSPAZZ	HMI EELCZLSPAZZ

Web Viewer run time licenses - EcoStruxure Operator Terminal Expert Monitor and operate the HMI screen remotely with mirroring function

Compatibility	Harmony ST6 and STM6 panels powered by EcoStruxure Operator Terminal Expert		
License type	Single	Team	Entity
Number of Operator Panels	1	10	100
Licenses format	Digital		
License Duration	Unlimited (not transferable between HMI operator panels)		
Reference	HMIWRT001A	HMIWRT010A	HMIWRT100A

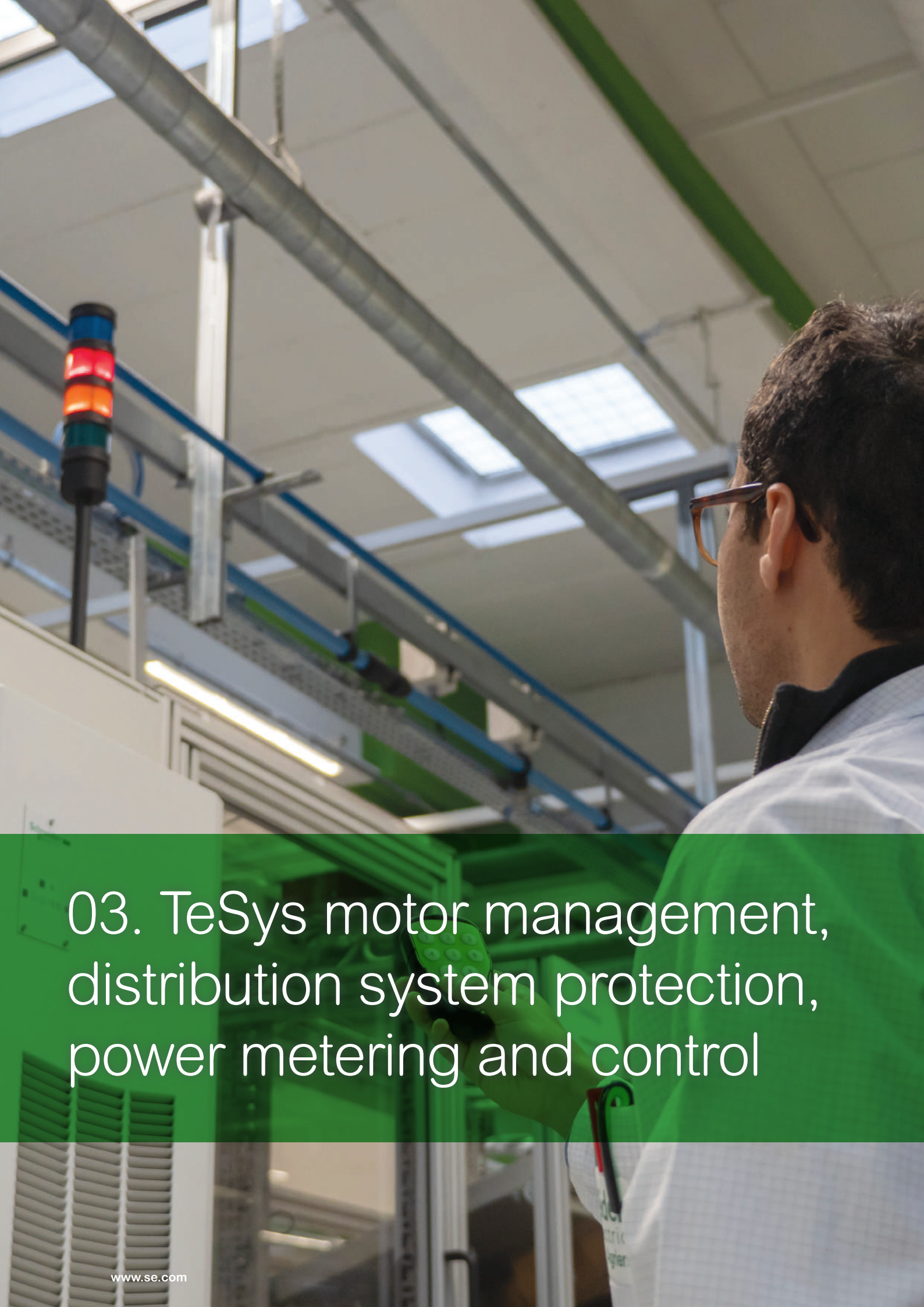


EcoStruxure Machine SCADA Expert, programming software for Edge Box HMI

Compatibility	Harmony Edge Box HMI HMISTM6BOXIOT
Type license	Buildtime 500 tags
Number of stations	1
License format	Digital
License Duration	Unlimited
Reference	HMIEMSEBT500A

(1) Supports Web Server API in ST6/STO7 and OPC UA in ST6.

(2) Does not support Web Server API or OPC UA.



03. TeSys motor management, distribution system protection, power metering and control

TeSys Universal

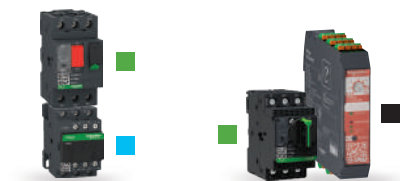
Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay	Ultra compact motor starter
Range name	TeSys K, TeSys Deca & Giga	TeSys GV.ME/P	TeSys GV.L	TeSys GS	TeSys K, TeSys Deca & Giga	TeSys H
Product reference prefix	LC	GV	GV.L	GS	LR	LZ
Motor starter structure - 4 functions to be covered:						
 Disconnection and breaking	☐	☒	☒	☒	☐	☐
 Short-circuit protection	☐	☒	☒	☒	☐	☐
 Overload protection	☐	☒	☐	☐	☒	☒
 Control	☒	☐	☐	☐	☐	☒

Voltage coil code

	■ ■	■ ■	■ ■
	AC	DC	DC < 2.4 V
24 V	B7	BD	BL
48 V	E7	ED	EL
110 V	F7	FD	
220 V	M7		
230 V	P7		

3



Motor power AC3 380/400 V	0.37...0.55 kW	0.75 kW	1.1...1.5 kW	2.2 kW	3 kW	4 kW	5.5 kW
TeSys K mini contactor (1)							
Ie max. AC3 (Ue ≤ 440 V)	6 A	6 A	6 A	6 A	9 A	9 A	12 A
Ie AC1 (T < 60°C)	20 A	20 A	20 A	20 A	20 A	20 A	20 A
Contactor with NO auxiliary contact (2)	LC1K0610 ■ ■	LC1K0610 ■ ■	LC1K0610 ■ ■	LC1K0610 ■ ■	LC1K0910 ■ ■	LC1K0910 ■ ■	LC1K1210 ■ ■
Contactor with NC auxiliary contact (2)	LC1K0601 ■ ■	LC1K0601 ■ ■	LC1K0601 ■ ■	LC1K0601 ■ ■	LC1K0901 ■ ■	LC1K0901 ■ ■	LC1K1201 ■ ■
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Thermal-magnetic circuit breaker	GV2P06	GV2P07	GV2P08	GV2P10	GV2P14	GV2P14	GV2P16
Rotary handle							
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	15 KA
Thermal-magnetic circuit breaker	GV2ME06	GV2ME07	GV2ME08	GV2ME10	GV2ME14	GV2ME14	GV2ME16
Pushbutton control							
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	15 KA
Magnetic circuit breaker	GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14	GV2LE14	GV2LE16
Tumbler control							
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Magnetic circuit breaker	GV2L06	GV2L07	GV2L08	GV2L10	GV2L14	GV2L14	GV2L16
Rotary handle							
Switch-disconnector fuse	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD
Fuse type	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38
Operational current Ie/400 V	2 A	4 A	4 A	6 A	8 A	12 A	16 A
Thermal overload relay cI10A	LR2K0306	LR2K0308	LR2K0310	LR2K0312	LR2K0314	LR2K0316	LR2K0321
TeSys H ultra-compact motor starter							
Breaking capacity Icu/400 V	> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA
Magnetic circuit breaker	GV2L06	GV2L07	GV2L08	GV2L10	GV2L14	GV2L14	GV2L16
Rotary handle							
Breaking capacity Icu/400 V	> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA	> 100 KA
Magnetic circuit breaker	GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14	GV2LE14	GV2LE16
Tumbler control							
Ultra-compact starter							
Standard version	LZ1H2X...	LZ1H2X...	LZ1H6X...	LZ1H6X...	LZ1H6X...	LZ1H6X...	LZ1H6X...
"Safety" version	LZ7H2X...	LZ7H2X...	LZ7H6X...	LZ7H6X...	LZ7H6X...	LZ7H6X...	LZ7H6X...

(1) Naming rule for the TeSys K range: LC1K... for AC; LP1K... for DC; LP4K... for DC < 2.4 V. For more details, please refer to the TeSys catalog.

(2) The end of the product references must be replaced with a coil voltage code as indicated above (eg.: "P7" for 230 VAC, "BD" for 24 VDC). For more details, please refer to the TeSys catalog.

TeSys Universal

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay	Compact starter controller
Range name	TeSys K, TeSys Deca & Giga	TeSys GV.ME/P	TeSys GV.L	TeSys GS	TeSys K, TeSys Deca & Giga	TeSys Ultra
Product reference prefix	LC	GV	GV.L	GS	LR	LU
Motor starter structure - 4 functions to be covered:						
	Disconnection and breaking					
	Short-circuit protection					
	Overload protection					
	Control					

3



Voltage coil code

	■ ■	■ ■	■ ■	■ ■	★ ★
	AC	DC	DC < 2.4 W	AC/DC	AC/DC
24 V	B7	BD	BL	BNE	B/BL
48 V	E7	ED	EL	BNE	ES
110 V	F7	FD		KUE	FU
220 V	M7			KUE	FU
230 V	P7			KUE	FU

Motor power AC3 380/400 V	0.37...0.55 kW	0.75 kW	1.1...1.5 kW	2.2 kW	3 kW	4 kW
TeSys Deca Contactors						
Ie max. AC3 (Ue ≤ 440 V)	9 A	9 A	9 A	9 A	9 A	9 A
Ie AC1 (T < 60°C)	25 A	25 A	25 A	25 A	25 A	25 A
Contactor (1)	LC1D09 ■ ■	LC1D09 ■ ■	LC1D09 ■ ■	LC1D09 ■ ■	LC1D09 ■ ■	LC1D09 ■ ■
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Thermal-magnetic circuit breaker	GV2P06	GV2P07	GV2P08	GV2P10	GV2P14	GV2P14
Rotary handle						
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Thermal-magnetic circuit breaker	GV2ME06	GV2ME07	GV2ME08	GV2ME10	GV2ME14	GV2ME14
Pushbutton control						
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Magnetic circuit breaker	GV2LE06	GV2LE07	GV2LE08	GV2LE10	GV2LE14	GV2LE14
Tumbler control						
Breaking capacity Icu/400 V	100 KA	100 KA	100 KA	100 KA	100 KA	100 KA
Magnetic circuit breaker	GV2L06	GV2L07	GV2L08	GV2L10	GV2L14	GV2L14
Rotary handle						
Switch-disconnector fuse	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD
Fuse type	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38
Operational current Ie/400 V	2 A	4 A	4 A	6 A	8 A	12 A
Thermal overload relay ci10A	LRD06	LRD07	LRD08	LRD10	LRD12	LRD14
Thermal overload relay ci20	–	–	LRD1508	LRD1510	LRD1512	LRD1514
TeSys Ultra Compact Motor Starter						
Breaking capacity Icu/400 V	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
Power base	LUB12	LUB12	LUB12	LUB12	LUB12	LUB12
Control unit	LUCA1X ★ ★	LUCA05 ★ ★	LUCA05 ★ ★	LUCA12 ★ ★	LUCA12 ★ ★	LUCA12 ★ ★
LAD5C.. and LAD9AP3.. modules provide pre-wired solutions for GV + LC1D control circuits. Use LUFC00 for TeSys Ultra.						

(1) The end of the product references must be replaced with a coil voltage code as indicated above (eg.: "P7" for 230 VAC, "BD" for 24 VDC). For more details, please refer to the TeSys catalog.

TeSys Universal

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay	Compact starter controller
Range name	TeSys K, TeSys Deca & Giga	TeSys GV.ME/P	TeSys GV.L	TeSys GS	TeSys K, TeSys Deca & Giga	TeSys Ultra
Product reference prefix	LC	GV	GV.L	GS	LR	LU
Motor starter structure - 4 functions to be covered:						
	Disconnection and breaking					
	Short-circuit protection					
	Overload protection					
	Control					



Voltage coil code

	■ ■	■ ■	■ ■	■ ■	★ ★
	AC	DC	DC < 2.4 W	AC/DC	AC/DC
24 V	B7	BD	BL	BNE	B/BL
48 V	E7	ED	EL	BNE	ES
110 V	F7	FD		KUE	FU
220 V	M7			KUE	FU
230 V	P7			KUE	FU

3

Motor power AC3 380/400 V	5.5 kW	7.5 kW	9 kW	11 kW	15 kW	18.5 kW
TeSys Deca Contactors						
I _e max. AC3 (U _e ≤ 440 V)	12 A	18 A	25 A	25 A	32 A	
I _e AC1 (T < 60°C)	25 A	32 A	40 A	40 A	50 A	
Contactor (1)	LC1D12 ■ ■	LC1D18 ■ ■	LC1D25 ■ ■	LC1D25 ■ ■	LC1D32 ■ ■	
Breaking capacity I _{cu} /400 V	100 KA	100 KA	100 KA	100 KA	100 KA	
Thermal-magnetic circuit breaker	GV2P16	GV3P18	GV3P25	GV3P25	GV3P32	
Rotary handle						
Breaking capacity I _{cu} /400 V	15 KA	15 KA	15 KA	15 KA	15 KA	
Thermal-magnetic circuit breaker	GV2ME16	GV2ME20	GV2ME21	GV2ME22	GV2ME32	
Pushbutton control						
Breaking capacity I _{cu} /400 V	15 KA	15 KA	15 KA	15 KA	15 KA	
Magnetic circuit breaker	GV2LE16	GV2LE20	GV2LE22	GV2LE22	GV2LE32	
Tumbler control						
Breaking capacity I _{cu} /400 V	100 KA	100 KA	100 KA	100 KA	100 KA	
Magnetic circuit breaker	GV2L16	GV2L20	GV2L22	GV3L25	GV3L32	
Rotary handle						
Switch-disconnector fuse	GS1DD	GS1DD	GS1DD	GS1DD	GS1DD	
Fuse type	10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	
Operational current I _e /400 V	16 A	16 A	25 A	25 A	32 A	
Thermal overload relay cI10A	LRD16	LRD21	LRD22	LRD22	LRD32	
	-	-	-	LRD325 (2)	LRD332 (2)	
Thermal overload relay cI20	LRD1516	LRD1521	LRD1522	LRD1522	LRD1532	
	-	-	-	LRD325L (2)	LRD332L (2)	
TeSys Ultra Compact Motor Starter						
Breaking capacity I _{cu} /400 V	50 kA	50 kA	50 kA	50 kA	50 kA	25 kA
Power base	LUB12	LUB32	LUB32	LUB32	LUB32	LUB38
Control unit	LUCA12 ★ ★	LUCA18 ★ ★	LUCA32 ★ ★	LUCA32 ★ ★	LUCA32 ★ ★	LUCA38 ★ ★
LAD5C.. and LAD9AP3.. modules provide pre-wired solutions for GV + LC1D control circuits. Use LUFC00 for TeSys Ultra.						

(1) The end of the product references must be replaced with a coil voltage code as indicated above (eg.: "P7" for 230 VAC, "BD" for 24 VDC). For more details, please refer to the TeSys catalog.
 (2) BTR screws (EverLink).

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay
Range name	TeSys D, TeSys Deca & Giga	TeSys GV	TeSys GV.L	TeSys GS	TeSys D, TeSys Deca & Giga
Product reference prefix	LC	GV	GV.L	GS	LR
Motor starter structure - 4 functions to be covered:					
	Disconnection and breaking	☐	☐	☐	☐
	Short-circuit protection	☐	☐	☐	☐
	Overload protection	☐	☐	☐	☐
	Control	☐	☐	☐	☐

3



Voltage coil code

	■ ■	■ ■	■ ■	■ ■	■ ■	■ ■	■ ■
	AC	DC	DC < 2.4 W	AC/DC	DC < 0.5 W	AC	DC
24 V	B7	BD	BL	BNE	BBE	B7	BD
48 V	E7	ED	EL	BNE		E7	ED
110 V	F7	FD		KUE		F7	FD
220 V	M7			KUE		M7	
230 V	P7			KUE		P7	

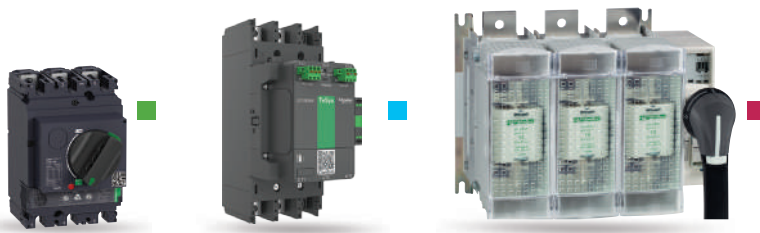
Motor power AC3 380/400 V	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
TeSys Deca Contactors							
I _e max. AC3 (U _e ≤ 440 V)	40 A	50 A	65 A	80 A	95 A	115 A	150 A
I _e AC1 (T < 60°C)	60 A	80 A	80 A	125 A	125 A	200 A	200 A
Contactor (1)	LC1D40A ■ ■	LC1D50A ■ ■	LC1D65A ■ ■	LC1D80A ■ ■	LC1D95 ■ ■	LC1D115 ■ ■	LC1D150 ■ ■ / LC1F150 ■ ■
Breaking capacity I _{cu} /400 V	50 KA	50 KA	50 KA	100 KA	100 KA	100 KA	70 KA
Thermal-magnetic circuit breaker	GV3P40	GV3P50	GV3P65	GV4P80	GV4P115	GV4P115	GV5P150H
Rotary handle							
Breaking capacity I _{cu} /400 V	50 KA	50 KA	50 KA	50 KA	100 KA	100 KA	36 KA
Thermal-magnetic circuit breaker	GV3P40	GV3P50	GV3P65	GV3P73	GV4P115	GV4P115	GV5P150F
Rotary handle							
Breaking capacity I _{cu} /400 V	50 KA	50 KA	50 KA	100 KA	100 KA	100 KA	70 KA
Magnetic circuit breaker	GV3L40	GV3L50	GV3L65	GV4L80	GV4L115	GV4L115	NSX160HMA
Rotary handle							
Breaking capacity I _{cu} /400 V	50 KA	50 KA	50 KA	50 KA	100 KA	100 KA	50 KA
Magnetic circuit breaker	GV3L40	GV3L50	GV3L65	GV3L73	GV4L115	GV4L115	NSX160NMA
Rotary handle							
Switch-disconnector fuse	GS2F	GS2F	GS2J	GS2J	GS2J	GS2J	GS2J GS2LL GS2L
Fuse type	14 x 51	14 x 51	22 x 58	22 x 58	22 x 58	22 x 58	T00 T0
Operational current I _e /400 V	40 A	50 A	80 A	100 A	100 A	125 A	160 A
Thermal overload relay cI10A	—	—	—	LRD3361	LRD3365	LRD4367	LRD4369
Thermal overload relay cI20	LRD340	LRD350	LRD365	—	—	LR9D5369 (2)	LR9D5369 (2)
	LRD340L	LRD350L	LRD365L	LR2D3563	—	LR9D5569 (2)	LR9D5569 (2)

(1) The end of the product references must be replaced with a coil voltage code as indicated above (eg.: "P7" for 230 VAC, "BD" for 24 VDC). For more details, please refer to the TeSys catalog.

(2) Electronic products.

Build your motor starter!

	Contactor	Thermal-magnetic circuit breaker	Magnetic circuit breaker	Switch-disconnector fuse	Thermal overload relay
Range name	TeSys K, TeSys Deca & Giga	TeSys GV5/GV6, ComPacT NSX/NS	ComPacT NSX/NS	TeSys GS	TeSys K, TeSys Deca & Giga
Product reference prefix	LC	GV.P/LV4/33	GV.L	GS	LR
Motor starter structure - 4 functions to be covered:					
	Disconnection and breaking	☐	☒	☒	☐
	Short-circuit protection	☐	☒	☒	☐
	Overload protection	☐	☒	☐	☒
	Control	☒	☐	☐	☐



TeSys Giga Contactor LC1G115...LC1G800	Advanced Version	Standard Version	TeSys F Contactor LC1F1000	AC	DC
Control Voltage code (●●●)	LC1G.....A	LC1G.....N	110 V	F7	FD
24...48 V AC/DC	BEE*	-	220 V	M7	MD
48...130 V AC/DC	EHE	EHE	230 V	M7	
100...250 V AC/DC	-	KUE	240 V	U7	
200...500 V AC/DC	LSE	-			
*LC1G115-LC1G500					

3

Motor power AC3 400 V	55 kW	75 kW	90 kW	110 kW	132 kW	160 kW	200 kW	250 kW	335 kW	450 kW	500 kW
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TeSys Giga contactor											
Ie max. AC3 (Ue ≤ 440 V)	115 A	150 A	185 A	225 A	265 A	330 A	400 A	500 A	630 A	800 A	1000 A
Ie AC1 (T< 60°C)	250 A	275 A	305 A	330 A	385 A	440 A	550 A	700 A	1050 A	1050 A	1250 A (2)
Contactor (1)	LC1G115....	LC1G150....	LC1G185....	LC1G225....	LC1G265....	LC1G330....	LC1G400....	LC1G500....	LC1G630....	LC1G800....	LC1F1000..

2 devices: Type-2 protection

Breaking capacity Icu/400 V	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA
Thermal-magnetic circuit breaker	GV5P150H	GV5P150H	GV5P220H	GV5P220H	GV6P320H	GV6P320H	GV6P500H	GV6P500H	NS800H	NS800H/NS1000H	NS1000L
Trip unit	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0
Breaking capacity Icu/400 V	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	36 kA	50 kA	50 kA	42 kA
Thermal-magnetic circuit breaker	GV5P150F	GV5P150F	GV5P220F	GV5P220F	GV6P320F	GV6P320F	GV6P500F	GV6P500F	NS800N	NS800N	NS1000L
Trip unit	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 2.2M	Micrologic 5.0	Micrologic 5.0	Micrologic 5.0

3 devices: Type-2 protection

Breaking capacity Icu/ 400 V	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	70 kA	130 kA	130 kA	130 kA
Magnetic circuit breaker	NS160H	NS160H	NSX250H	NSX250H	NSX400H	NSX400H	NSX630H	NSX630H	NS800L	NS800L	NS1000L
Trip unit	MA	MA	MA	MA	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	(3)	(3)	(3)
Overload relay (4)	LR9G225	LR9G225	LR9G225	LR9G225	LR9G500	LR9G500	LR9G500	LR9G500	LR9G500	-	LRD05 + Current transformer 800/1 A
Breaking capacity Icu/ 400 V	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	130 kA	130 kA	130 kA
Magnetic circuit breaker	NS160N	NS160N	NSX250N	NSX250N	NSX400N	NSX400N	NSX630N	NSX630N	NS800L	NS800L	NS1000L
Trip unit	MA	MA	MA	MA	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	Micrologic 1.3-M	(3)	(3)	(3)
Overload relay (4)	LR9G225	LR9G225	LR9G225	LR9G225	LR9G500	LR9G500	LR9G500	LR9G500	LR9G500	-	LRD05 + Current transformer 800/1 A (5)
Breaking capacity Icu/ 400 V	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA	80 kA
Switch-disconnector fuse	GS2L	GS2L	GS2N	GS2N	GS2N	GS2QQ	GS2S	GS2S	GS2S	GS2V	GS2V
Fuse size (type DIN - aM fuses)	0	0	1	1	2	2	3	3	4	4	4
Operational current Ie/ 400 V	125 A	160 A	200 A	250 A	315 A	400 A	500 A	500 A	800 A	800 A	1000 A
Overload relay (4)	LR9G115	LR9G225	LR9G225	LR9G225	LR9G500	LR9G500	LR9G500	LR9G500	LR9G630	LRD10 + current transformer 5A/5VA (5)	LRD10 + current transformer 5A/5VA (5)

(1) Contactor references must be completed with coil voltage code as indicated above table (eg.: "LSE" for 200...500V AC/DC control voltage) and ended with A for Advanced version and N for Standard version. For more details, please refer to the TeSys Giga catalog.

(2) 1250 A at 40 °C.

(3) Micrologic 5.0 + Plug LR Off.

(4) LR9G- Electronic thermal over-load relay with trip class selection from 5e...30e with phase imbalance and ground fault protections.

(5) Thermal overload relay class 10 A.

TeSys Universal

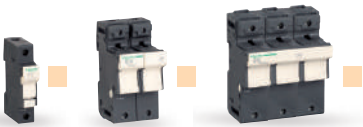
Build your motor starter!

		Main/Emergency stop switch-disconnector	Fuse carrier	Control relay
Range name		TeSys Vario	TeSys DF	TeSys CAD, CAK
Product reference prefix		V	DF	CAD, CAK
Motor starter structure - 4 functions to be covered:				
	Disconnection and breaking			
	Short-circuit protection			
	Overload protection			
	Control			

3



TeSys Vario		Application	Standard		High performance								
		Ith (A)	12	20	12	20	25	32	40	63	80	125	175
Main switch disconnector	Door mounting	D22 fixing	VBDN12	VBDN20	VBD02	VBD01	VBD0	VBD1	VBD2	–	–	–	–
		Screw fixing	–	–	VBF02	VBF01	VBF0	VBF1	VBF2	VBF3	VBF4	VBF5	VBF6
Emergency stop switch disconnector	Door mounting	D22 fixing	VCDN12	VCDN20	VCD02	VCD01	VCD0	VCD1	VCD2	–	–	–	–
		Screw fixing	–	–	VCF02	VCF01	VCF0	VCF1	VCF2	VCF3	VCF4	VCF5	VCF6
	Back mounting	D22 fixing	VCCDN12	VCCDN20	VCCD02	VCCD01	VCCD0	VCCD1	VCCD2	–	–	–	–
		Screw fixing	–	–	VCCF02	VCCF01	VCCF0	VCCF1	VCCF2	VCCF3	VCCF4	VCCF5	VCCF6



TeSys DF fuse carrier					
Fuse type		8x32	10x38	14x51	22x58
Fuse carrier	1 pole	DF81	DF101	DF141	DF221
	2 poles	DF82	DF102	DF142	DF222
	3 poles	DF83	DF103	DF143	DF223
Thermal current Ith (A)		25	32	50	125



TeSys Control relay				
Auxiliary contact		AC control coil	DC control coil	DC control coil low consumption
NO	NC	4.5 VA	3 W	1.8 W
4	—	CA2KN40●●	CA3KN40●●	CA3KN40BW3
3	1	CA2KN31●●	CA3KN31●●	CA3KN31BW3
2	2	CA2KN22●●	CA3KN22●●	CA3KN22BW3
		8 VA	5.4 W	2.4 W
5	—	CAD50●●		
3	2	CAD32●●		

Voltage coil code

	AC	DC	DC <2.4 W
24 V	B7	BD	BL
48 V	E7	ED	EL
110 V	F7	FD	FL
220 V	M7		
230 V	P7		

Distribution system protection

ComPacT NSXm molded-case circuit breakers and switch-disconnectors up to 160 A and 70 kA at 415 V



For breaking capacity, replace ● with: E (16 kA at 380/415 V), B (25 kA at 380/415 V), F (36 kA at 380/415 V), N (50 kA at 380/415 V), or H (70 kA at 380/415 V).

ComPacT NSXm circuit breaker

With thermal-magnetic trip unit TM-D

EverLink™ connectors

Rating	Trip unit	3P	4P 3d	4P 4d
16 A	TM16D	C11●3TM016L	C11●6TM016L	C11●4TM016L
25 A	TM25D	C11●3TM025L	C11●6TM025L	C11●4TM025L
32 A	TM32D	C11●3TM032L	C11●6TM032L	C11●4TM032L
40 A	TM40D	C11●3TM040L	C11●6TM040L	C11●4TM040L
50 A	TM50D	C11●3TM050L	C11●6TM050L	C11●4TM050L
63 A	TM63D	C11●3TM063L	C11●6TM063L	C11●4TM063L
80 A	TM80D	C11●3TM080L	C11●6TM080L	C11●4TM080L
100 A	TM100D	C11●3TM100L	C11●6TM100L	C11●4TM100L
125 A	TM125D	C12●3TM125L	C12●6TM125L	C12●4TM125L
160 A	TM160D	C12●3TM160L	C12●6TM160L	C12●4TM160L

ComPacT NSXm NA switch-disconnector

EverLink™ connectors

Rating	3P	4P
50 A	C113050LS	C114050LS
100 A	C113100LS	C114100LS
160 A	C123160LS	C124160LS

Note: For accessories and more details, please refer to the ComPacT NSX & NSXm catalog.

PowerPact B molded-case circuit breakers up to 125 A and 65 kA at 480 V



PowerPact B-Frame 125 A unit-mount thermal-magnetic circuit breakers (480 VAC) Delta rated

With factory sealed trip unit (suitable for reverse connection)

B-Frame, 125 A, 3P, 480 VAC 50/60 Hz with EverLink™ connectors

Current rating at 40 °C (A)	Fixed AC magnetic trip (A)		Interrupting rating standard (80%) rated		
	Hold	Trip	D - 18 kA	G - 35 kA	J - 65 kA
15	400	600	BDL36015LU	BGL36015LU	BJL36015LU
20	400	600	BDL36020LU	BGL36020LU	BJL36020LU
25	400	600	BDL36025LU	BGL36025LU	BJL36025LU
30	400	600	BDL36030LU	BGL36030LU	BJL36030LU
35	400	600	BDL36035LU	BGL36035LU	BJL36035LU
40	400	600	BDL36040LU	BGL36040LU	BJL36040LU
45	400	600	BDL36045LU	BGL36045LU	BJL36045LU
50	480	720	BDL36050LU	BGL36050LU	BJL36050LU
60	640	960	BDL36060LU	BGL36060LU	BJL36060LU
70	640	960	BDL36070LU	BGL36070LU	BJL36070LU
80	800	1200	BDL36080LU	BGL36080LU	BJL36080LU
90	1000	1500	BDL36090LU	BGL36090LU	BJL36090LU
100	1000	1500	BDL36100LU	BGL36100LU	BJL36100LU
110	1000	1500	BDL36110LU	BGL36110LU	BJL36110LU
125	1000	1500	BDL36125LU	BGL36125LU	BJL36125LU

Note: For accessories and more details, please refer to the PowerPact B catalog.

Distribution system protection

Multi9 miniature circuit breakers

Feeder products - C60BP - UL 489 - Z, C, D curves – Tunnel terminals



Main characteristics

Number of 18 mm/0.71 in. poles	Rating (A) 25 °C/77 °F	Breaking capacity (kA rms) AIR UL 489/CSA C22.2 No 5				Icu IEC 60947 - 2			
Poles	Voltage (Ue)	277 V~	240 V~	120 V~	60 V ≡	440 V~	415 V~	240 V~	60 ≡
1P	0.5 to 35	10	14	14	10	–	3	10	20
	40 to 63	–	10	10	10	–	3	10	20
Poles	Voltage (Ue)	480Y/277 V~		240 V~	125 V ≡	440 V~	415 V~	240 V~	125 ≡
2P	1 to 25	10		14	10	6	10	20	–
	30 to 35	10		14	–	6	10	20	–
3P	1 to 35	10		14	–	6	10	20	–
2P/3P	40 to 63	–		10	–	6	10	20	–

Tunnel terminal connection

Type	UL489 and CSA voltages	1P		2P	3P
Auxiliaries		Remote indication and tripping			
Rating (In)		Curve		Curve	Curve
		Z	C	C	C
C60 _{SP}					
0.5	480 Y/277 V and 240 V	M9F44170	M9F42170	–	–
1		M9F44101	M9F42101	M9F42201	M9F42301
2		M9F44102	M9F42102	M9F42202	M9F42302
3		M9F44103	M9F42103	M9F42203	M9F42303
4		M9F44104	M9F42104	M9F42204	M9F42304
5		M9F44105	M9F42105	M9F42205	M9F42305
6		M9F44106	M9F42106	M9F42206	M9F42306
8		M9F44108	M9F42108	M9F42208	M9F42308
10		M9F44110	M9F42110	M9F42210	M9F42310
15		M9F44115	M9F42115	M9F42215	M9F42315
20		M9F44120	M9F42120	M9F42220	M9F42320
25		M9F44125	M9F42125	M9F42225	M9F42325
30		M9F44130	M9F42130	M9F42230	M9F42330
35		M9F44135	M9F42135	M9F42235	M9F42335
40	240 V	M9F44140	M9F42140	M9F42240	M9F42340
45		M9F44145	M9F42145	M9F42245	M9F42345
50		M9F44150	M9F42150	M9F42250	M9F42350
63		M9F44163	M9F42163	M9F42263	M9F42363

Note: For accessories and more details, please refer to the Multi9 catalog.

In order to check the availability of the Multi9 range in your country, please contact your local Schneider Electric representative.

Except for the US market, use of the Acti9 range is still possible.

Except for the North American market, Acti9 range is the another solution.

For existing version and as well as Ring Terminal version, use C60BPR.

Distribution system protection

Multi9 miniature circuit breakers

Supplementary protection products - C60SP - UL 1077 - B, C, D curves – Tunnel terminals



Main characteristics

Number of 18 mm/0.71 in. poles	Rating (A) 25 °C/77 °F	Breaking capacity (kA rms) AIR UL 1077/CSA C22.2 No 235				Icu IEC 60947 - 2			
Poles	Voltage (Ue)	277 V~	240 V~	120 V~	65 V ~	440 V~	415 V~	240 V~	60 ~
1P	0.5 to 32	10	14	14	10	—	3	10	20
	40 to 63	5	10	10	10	—	3	10	20
Poles	Voltage (Ue)	480Y/277 V~		240 V~	125 V ~	440 V~	415 V~	240 V~	125 ~
2P	1 to 25	10		14	10	6	10	20	—
	32	10		14	—	6	10	20	—
3P/4P	2 to 32	10		14	—	6	10	20	—
2P/3P/4P	40 to 63	5		10	—	6	10	20	—

Tunnel terminal connection

Type	1P			2P		3P		4P	
Auxiliaries	Remote indication and tripping								
Rating (In)	Curve			Curve		Curve		Curve	
	B	C	D (=K)	Curve B	C	B	C	B	C
C60 _{SP}									
0.5	M9F21170	M9F22170	M9F23170	—	—	—	—	—	—
1	M9F21101	M9F22101	M9F23101	M9F21201	M9F22201	—	—	—	—
2	M9F21102	M9F22102	M9F23102	M9F21202	M9F22202	M9F21302	M9F22302	M9F21402	M9F22402
3	M9F21103	M9F22103	M9F23103	M9F21203	M9F22203	—	—		
4	M9F21104	M9F22104	M9F23104	M9F21204	M9F22204	—	—		
5	M9F21105	M9F22105	M9F23105	M9F21205	M9F22205	—	—		
6	M9F21106	M9F22106	M9F23106	M9F21206	M9F22206	M9F21306	M9F22306	M9F21406	M9F22406
8	M9F21108	M9F22108	M9F23108	M9F21208	M9F22208	M9F21308	M9F22308	M9F21408	M9F22408
10	M9F21110	M9F22110	M9F23110	M9F21210	M9F22210	M9F21310	M9F22310	M9F21410	M9F22410
13	M9F21113	M9F22113	M9F23113	M9F21213	M9F22213	M9F21313	M9F22313	M9F21413	M9F22413
16	M9F21116	M9F22116	M9F23116	M9F21216	M9F22216	M9F21316	M9F22316	M9F21416	M9F22416
20	M9F21120	M9F22120	M9F23120	M9F21220	M9F22220	M9F21320	M9F22320	M9F21420	M9F22420
25	M9F21125	M9F22125	M9F23125	M9F21225	M9F22225	M9F21325	M9F22325	M9F21425	M9F22425
32	M9F21132	M9F22132	M9F23132	M9F21232	M9F22232	M9F21332	M9F22332	M9F21432	M9F22432
40	M9F21140	M9F22140	M9F23140	M9F21240	M9F22240	M9F21340	M9F22340	M9F21440	M9F22440
45	M9F21145	M9F22145	—	M9F21245	M9F22245	M9F21345	M9F22345	M9F21445	M9F22445
50	M9F21150	M9F22150	—	M9F21250	M9F22250	M9F21350	M9F22350	M9F21450	M9F22450
63	M9F21163	M9F22163	—	M9F21263	M9F22263	M9F21363	M9F22363	M9F21463	M9F22463

Note: For accessories and more details, please refer to the Multi9 catalog.

In order to check the availability of the Multi9 range in your country, please contact your local Schneider Electric representative.

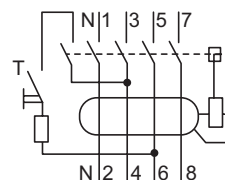
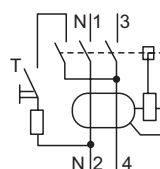
Except for the US market, use of the Acti9 range is still possible.

Except for the North American market, Acti9 range is the another solution.

Distribution system protection

Multi9 miniature circuit breakers

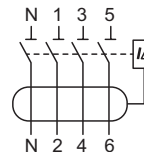
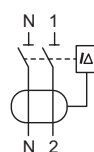
Ground fault protector (GFP) UL1053 & IEC/EN 61008



GFP UL 1053 type A-SI

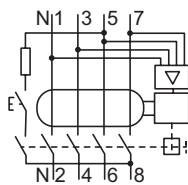
Supported standards	UL, IEC		2P		4P	
A-SI type	Rating (A)	Sensitivity (mA)	Reference		Reference	
		UL 1053	IEC / EN 61008	120 or 240 V 230 or 240 V	240 V 480 V / 277 V 230 / 400 or 240 / 415 V	120 or 240 V 230 or 240 V
	A	mA	mA			240 V 480 V / 277 V 230 / 400 or 240 / 415 V
	25	26	30	M9R81225	M9R41225	—
		86	100	M9R12225	M9R44225	—
		260	300	M9R84225	—	—
	40	26	30	M9R81240	M9R41240	—
		260	300	M9R84240	—	—
	63	26	30	M9R81263	—	—
		86	100	—	—	—
	100	86	100	—	—	—
		260	100	—	—	—

Residual current circuit breakers (RCCB) ID - IEC/EN 61008-1



RCCB - ID residual current circuit breakers

Type	AC		A - SI	
Auxiliaries	2P	Sensitivity	30 mA	300 mA
	25 A	M9R11225	—	—
	40 A	M9R11240	M9R14240	M9R31240
Voltage rating (Ue)	230-240 V, 50 Hz			
Auxiliaries	4P	Sensitivity	30 mA	300 mA
	40 A	M9R11440	M9R14440	M9R31440
	63 A	M9R11463	M9R14463	M9R31463
Voltage rating (Ue)	400 - 415 V, 50 Hz			



Acti9 iID B-SI type residual current circuit breakers

Type	B-SI		B-SI		B-SI	
4P	Rating (A)	Sensitivity	30 mA	300 mA	300 mA	500 mA
	25	B-SI	A9Z61425	A9Z64425	—	—
	40	B-SI	A9Z61440	A9Z64440	A9Z65440	A9Z66440
	63	B-SI	A9Z61463	A9Z64463	A9Z65463	A9Z66463
	40	B-SI	A9Z61480	A9Z64480	A9Z65480	A9Z66480
	125	B	A9R41492	A9R44492	A9R45492	A9R46492
Voltage rating (Ue)	230/400 V					
Operating frequency	50 Hz					

Note: For accessories and more details, please refer to the Multi9 catalog.

In order to check the availability of the Multi9 range in your country, please contact your local Schneider Electric representative.

Except for the US market, use of the Acti9 range is still possible.

Except for the North American market, Acti9 range is the another solution.

Distribution system monitoring

Power metering and control

PowerTag wireless energy sensor

IEC



PowerTag Energy 63 A

Pole	Design	Type of mounting	Voltage	Reference
1P+W	Monoconnect	Top and Bottom	200...240V~	A9MEM1520
1P+N	Monoconnect	Top	200...240V~	A9MEM1521
	Monoconnect	Bottom	200...240V~	A9MEM1522
	Flex	Top and Bottom	200...240V~	A9MEM1560
	Flex	Top and Bottom	100...127V~	A9MEM1564
3P	Monoconnect	Top and Bottom	380...415V~	A9MEM1540
	Flex	Top and Bottom	380...415V~	A9MEM1573 (1)
	Monoconnect	Top and Bottom	200...240V~	A9MEM1543
3P+N	Monoconnect	Top	220/380...240/415V~	A9MEM1541
	Monoconnect	Bottom	220/380...240/415V~	A9MEM1542
	Flex	Top and Bottom	220/380...240/415V~	A9MEM1570
	Flex	Top and Bottom	120/208...137/240V~	A9MEM1574

3

UL IEC



PowerTag Energy Flex 160 A

Pole	Rating	Voltage	Reference
3P/3P+N	160 A	100/173... 277/480V~	A9MEM1580

IEC



PowerTag Energy Monoconnect 250/630 A

Pole	Max current	Voltage	Reference
3P	250 A	230/400 V~	LV434020 (2)
	630 A	230/400 V~	LV434022 (3)
3P + N	250 A	230/400 V~	LV434021
	630 A	230/400 V~	LV434023

UL IEC



PowerTag Energy Rope up to 2000 A

Pole	Max current	Voltage	Reference
3P/3P + N	200 A	100/173... 277/480 V~	A9MEM1590
	600 A	100/173... 277/480 V~	A9MEM1591
	1000 A	100/173... 277/480 V~	A9MEM1592
	2000 A	100/173... 277/480 V~	A9MEM1593

(1) Suitable with TeSys LC1D and GV<63A

(2) Suitable with GV5

(3) Suitable with GV6

Distribution system monitoring

Power metering and control

EcoStruxure Panel Server



EcoStruxure Panel Server

IoT gateway for an intelligent power network management providing easy and fast connections to multiple concurrent edge control or cloud applications.

Main characteristics of EcoStruxure Panel Server (Ethernet)

Application	Energy monitoring solutions	
Energy Data management / Software compatibility	Advanced Panel Server Local energy server and Data logger Cloud software (EcoStruxure Energy Hub, EcoStruxure Asset Advisor, EcoStruxure Resource Advisor) Edge software (EcoStruxure Power Monitoring Expert, EcoStruxure Building Operation, EcoStruxure Power Operation) Third party SCADA	
Communication type	Radio frequency, Modbus RS485, and Modbus TCP/IP	
Installation	DIN rail	
IP rating	Front Face: IP40 Others: IP20	
Dimensions & Weight (Width x Depth x Height (mm) / Weight (g))	Entry Panel Server: 103.1 x 54 x 70.2 mm / 163 g Universal Panel Server: 104.2 x 72 x 70.2 mm / 200 g Advanced Panel Server: 104.2 x 72 x 70.2 mm / 200 g	
Number of connections	Entry Panel Server	Up to 20 wireless devices 64 Modbus TCP/IP client connections
	Universal Panel Server	Up to 85 PowerTag Energy wireless sensors / Up to 40 wireless mixed sensors 32 Modbus RTU/TCP/IP server connections without repeater 128 Modbus RTU/TCP/IP server connections with repeater 64 Modbus TCP/IP client connections
	Universal Panel Server Wired by Design	32 Modbus RTU/TCP/IP server connections without repeater 128 Modbus RTU/TCP/IP server connections with repeater 64 Modbus TCP/IP client connections
	Advanced Panel Server	Up to 85 PowerTag Energy wireless sensors / Up to 40 wireless mixed sensors 32 Modbus RTU/TCP/IP server connections without repeater 128 Modbus RTU/TCP/IP server connections with repeater 64 Modbus TCP/IP client connections
Certification	IEC/UL 61010 -1 - 2 - 201, CSA C22.2 no 6101 - 1 - 12 - 2 - 201, IEC 62974 - 1, IEC 62443 - 4 - 1, IEC 61326 - 1, EN 301 - 489 - 17, EN 55032, CISPR 11, EN300 - 328, IEEE 802.15.4, IEEE 802.11a/b/g/n	

EcoStruxure Panel Server Models

Type	Set	Reference
Entry Panel Server	1	PAS400 (110-277 Vac/Vdc Power Supply)
Universal Panel Server	3	PAS600 (110-277 Vac/Vdc Power Supply)
		PAS600L (24 Vdc Power Supply)
		PAS600P (PoE Power Supply)
Universal Panel Server Wired by Design	2	PAS600LWD (24 Vdc Power Supply)
		PAS600PWD (PoE Power Supply)
Advanced Panel Server	3	PAS800 (110-277 Vac/Vdc Power Supply)
		PAS800L (24 Vdc Power Supply)
		PAS800P (PoE Power Supply)
Panel Server Antenna	2	PASA-ANT1 External Wi-Fi Antenna (Universal and Advanced Panel Server)
		PASA-ANT1 External IEEE 802.15.4 Antenna (PAS600P and Advanced Panel Server)

Note: For accessories and more details, please refer to the PowerTag and Panel Server catalogs.

Distribution system monitoring

Power metering and control

Energy meter and power meter



Energy meter

Type of network	1P+N	1P+N	1P+N, 3P, 3P+N
Self-powered	Yes	Yes	Yes
Display	1 line	1 line	3 lines
Width (mm)	17.5	36	90
Current input	45 A	100 A	63 A
Multi tariff	2	-	-
Communication	Modbus RS485	Modbus RS485	Modbus RS485
Active Energy accuracy	Cl 1	Cl 1	Cl 1
I/O	1 Pulse O	-	-
Reference	A9MEM2050	A9MEM2455	A9MEM3150

Note: For more details, please refer to the PowerLogic catalog.



Power meter

Type of network	1P+N, 3P, 3P+N	1P+N, 3P, 3P+N	1P+N, 3P, 3P+N
Self-powered	No	No	No
Display	6 lines	6 lines	6 lines
Width (mm)	96	96	96
Current input	External CT	External CT	External CT
Multi tariff	-	4	8
Communication	Modbus RS485	Ethernet	Ethernet
Active Energy accuracy	Cl 0.5S with 15th harmonic	Cl 0.5S with 31st harmonic	Cl 0.2S with 63rd harmonic
I/O	1DO	2DI/ 2DO	2DI/ 2DO
Reference	METSEPM5110	METSEPM5320	METSEPM5560

A man with a beard and glasses, wearing a dark sweater over a light blue shirt, is looking down at a device held by a woman. The woman is partially visible on the right, looking towards the man. They are in a high-tech environment with blue and green lighting and abstract patterns in the background.

04. Optimum and Medium Offers for Power Quality Solutions

PowerLogic™ AccuSine PCS+

AccuSine PCS+ is a power correction system designed to mitigate power quality issues caused by harmonics, reactive power, and unbalance in electrical systems. AccuSine PCS+ helps improve energy efficiency, reduces downtime, and extends the lifespan of electrical equipment.

AccuSine PCS+ is a solution for industries and commercial buildings seeking to ensure utility compliance to harmonic standards like IEEE 519 – 2022 and enhance power quality.



PowerLogic AccuSine PCS+ (208–240 V)

Reference	Rating	Installation	Cable Entry	IP rating	Weight (kg)	Dimensions (mm) (Width × Depth × Height)
PCSP060D2IP00	60 A, 208...240 V, 50/60 Hz	Chassis for OEM cabinets	Bottom	IP00 / UL Type Open	90	421 x 349 x 1300
PCSP060D2IP00 PCSPWMKIT60A	60 A, 208...240 V, 50/60 Hz	Wall mount	Bottom	IP20 / UL Type 1	88	426 x 366 x 1534
PCSP060D2N12	60 A, 208...240 V, 50/60 Hz	Floor standing	Top or Bottom	UL Type 12	291	800 x 500 x 2100
PCSP060D2IP54	60 A, 208...240 V, 50/60 Hz			IP54		800 x 600 x 2100
PCSP120D2IP00	120 A, 208...240 V, 50/60 Hz	Chassis for OEM cabinets	Bottom	IP00 / UL Type Open	110	421 x 384 x 1400
PCSP120D2IP00 PCSPWMKIT120A	120 A, 208...240 V, 50/60 Hz	Wall mount	Bottom	IP20 / UL Type 1	113	426 x 402 x 1629
PCSP120D2N12	120 A, 208...240 V, 50/60 Hz	Floor standing	Top or Bottom	UL Type 12	293	800 x 500 x 2100
PCSP120D2IP54	120 A, 208...240 V, 50/60 Hz			IP54		
PCSP200D2IP00	200 A, 208...240 V, 50/60 Hz	Chassis for OEM cabinets	Bottom	IP00 / UL Type Open	175	582 x 438 x 1323
PCSP200D2IP00 PCSPWMKIT200A	200 A, 208...240 V, 50/60 Hz	Wall mount	Bottom	IP20 / UL Type 1	171	581 x 456 x 1596
PCSP200D2N12	200 A, 208...240 V, 50/60 Hz	Floor standing	Top or Bottom	UL Type 12	402	900 x 600 x 2100
PCSP200D2IP54	200 A, 208...240 V, 50/60 Hz			IP54		
PCSP300D2IP00	300 A, 208...240 V, 50/60 Hz	Chassis for OEM cabinets	Bottom	IP00 / UL Type Open	220	582 x 438 x 1560
PCSP300D2IP00 PCSPWMKIT300A	300 A, 208...240 V, 50/60 Hz	Wall mount	Bottom	IP20 / UL Type 1	210	581 x 456 x 1833
PCSP300D2N12	300 A, 208...240 V, 50/60 Hz	Floor standing	Top or Bottom	UL Type 12	436	900 x 600 x 2100
PCSP300D2IP54	300 A, 208...240 V, 50/60 Hz			IP54		

PowerLogic AccuSine PCS+ (380–480 V)

Reference	Rating	Installation	Cable Entry	IP rating	Weight (kg)	Dimensions (mm) (Width × Depth × Height)
PCSP060D5IP00	60 A, 380...480 V, 50/60 Hz	NA	Bottom	IP00 / UL Type Open	90	421 x 349 x 1300
PCSP060D5IP00 PCSPWMKIT60A	60 A, 380...480 V, 50/60 Hz	Wall mount	Bottom	IP20/UL Type 1	88	426 x 366 x 1534
PCSP060D5N12	60 A, 380...480 V, 50/60 Hz	Floor standing	Top or Bottom	UL Type 12	291	800 x 500 x 2100
PCSP060D5IP54	60 A, 380...480 V, 50/60 Hz			IP54		
PCSP120D5IP00	120 A, 380...480 V, 50/60 Hz	NA	Bottom	IP00 / UL Type Open	110	421 x 384 x 1400
PCSP120D5IP00 PCSPWMKIT120A	120 A, 380...480 V, 50/60 Hz	Wall mount	Bottom	IP20/UL Type 1	113	426 x 402 x 1629
PCSP120D5N12	120 A, 380...480 V, 50/60 Hz	Floor standing	Top or Bottom	UL Type 12	293	800 x 500 x 2100
PCSP120D5IP54	120 A, 380...480 V, 50/60 Hz			IP54		
PCSP200D5IP00	200 A, 380...480 V, 50/60 Hz	NA	Bottom	IP00 / UL Type Open	175	582 x 438 x 1323
PCSP200D5IP00 PCSPWMKIT200A	200 A, 380...480 V, 50/60 Hz	Wall mount	Bottom	IP20/UL Type 1	171	581 x 456 x 1596
PCSP200D5N12	200 A, 380...480 V, 50/60 Hz	Floor standing	Top or Bottom	UL Type 12	402	900 x 600 x 2100
PCSP200D5IP54	200 A, 380...480 V, 50/60 Hz			IP54		
PCSP300D5IP00	300 A, 380...480 V, 50/60 Hz	NA	Bottom	IP00 / UL Type Open	220	582 x 438 x 1560
PCSP300D5IP00 PCSPWMKIT300A	300 A, 380...480 V, 50/60 Hz	Wall mount	Bottom	IP20/UL Type 1	210	581 x 456 x 1833
PCSP300D5N12	300 A, 380...480 V, 50/60 Hz	Floor standing	Top or Bottom	UL Type 12	436	900 x 600 x 2100
PCSP300D5IP54	300 A, 380...480 V, 50/60 Hz			IP54		

PowerLogic™ AccuSine PCSn

Built on the award-winning AccuSine+ platform, AccuSine PCSn is a new solution designed for commercial buildings and light industry specially to compensate for neutral current harmonics produced by single-phase non-linear loads.

AccuSine PCSn can also be configured for Harmonic Mitigation, Power Factor Correction, and Mains Load Balancing.



PowerLogic AccuSine PCSn (208–415 V)

Reference	Rating	Installation	Cable entry	IP rating	Unit type	Weight (kg)	Dimensions (mm) (Width × Depth × Height)
PCSN060Y4CH00	60 A 208...415 V, 50/60 Hz	Chassis for OEM cabinets	Bottom	IP00 / UL Type Open	Main Module	68.6	440 x 265 x 960
PCSN060Y4CH00E	60 A 208...415 V, 50/60 Hz				Expansion Module		
PCSN060Y4W20	60 A 208...415 V, 50/60 Hz	Wall mount	Bottom	IP20	Main Module	68.6	440 x 265 x 960
PCSN060Y4W20E	60 A 208...415 V, 50/60 Hz				Expansion Module		
PCSN060Y4N1	60 A 208...415 V, 50/60 Hz	Wall mount	Bottom	UL Type 1	Main Module	88.9	444.50 x 264.16 x 1440.18
PCSN060Y4N1E	60 A 208...415 V, 50/60 Hz				Expansion Module		
PCSN060Y4R19	60 A 208...415 V, 50/60 Hz	Chassis for OEM cabinets	Side	IP20	Main Module	68.6	440 x 265 x 960
PCSN060Y4R19E	60 A 208...415 V, 50/60 Hz				Expansion Module		

PowerLogic™ AccuSine EVC+

AccuSine EVC+ stands for Electronic VAR Compensation. It is the latest technology for Power Factor correction. AccuSine EVC+ can correct leading and lagging Power Factor within ¼ cycle.

AccuSine EVC+ can also be configured to filter major harmonic currents like 5th, 7th, 11th, and 13th order.



PowerLogic AccuSine EVC+ (208–480 V)

Reference	Rating	Installation	Cable entry	IP rating	KVAR rating 208 V	KVAR rating 380 – 480 V	Weight (kg)	Dimensions (mm) (Width × Depth × Height)
EVCP100D5CH00	100 kVAR 208...480 V	Chassis for OEM cabinets	Bottom	IP00 / UL OPEN	55	100	90	440 x 265 x 1260
EVCP100D5W20	100 kVAR 208...480 V	Wall mount		IP20			90	440 x 280 x 1260
EVCP100D5W31	100 kVAR 208...480 V			IP31			130	540 x 383 x 1685
EVCP100D5W02	100 kVAR 208...480 V			UL Type 2			130	540 x 383 x 1685

PowerLogic™ DVR

PowerLogic™ DVR (Digital Voltage Regulator) is a device that injects and absorbs energy to mitigate and eliminate the effect of electrical disturbances and offers an extremely stable voltage ($V_n \pm 1\%$) with a very fast response.

PowerLogic™ DVR offers $\pm 20\%$ continuous voltage regulation. Corrects one or two-phase sags up to 70% of rated voltage & three-phase sags up to 40% of rated voltage.

PowerLogic™ DVR uses no batteries or energy storage. It is always ready, and no recharge or reset time is required.



PowerLogic DVR (380/400/415 V), 40% Sag

Reference	Rating	Installation	Cable entry	IP rating	Weight (kg)	Dimensions (mm) (Width × Depth × Height)
DVR15040400 + DVRBP630	150 KVA, 380...415V, 50/60 Hz	Indoor, Floor standing	Bottom	IP20	1450	1828 x 750 x 2152
DVR22040400 + DVRBP630	220 KVA, 380...415V, 50/60 Hz					
DVR30040400 + DVRBP630	300 KVA, 380...415V, 50/60 Hz					
DVR44040400M + DVR44040400S + DVRBP1250	440 KVA, 380...415V, 50/60 Hz				2875	3528 x 750 x 2152
DVR50040400M + DVR50040400S + DVRBP1250	500 KVA, 380...415V, 50/60 Hz					
DVR60040400M + DVR60040400S + DVRBP1250	600 KVA, 380...415V, 50/60 Hz					
DVR75040400M + 2 x (DVR75040400S) + DVRBP2000	750 KVA, 380...415V, 50/60 Hz				4325	4742 x 750 x 2152
DVR90040400M + 2 x (DVR90040400S) + DVRBP2000	900 KVA, 380...415V, 50/60 Hz					

EasyLogic™ APF

EasyLogic APF active harmonic filters bring stability and reliability to your power network by improving the power quality and energy efficiency, to ensure business continuity and achieve sustainability goals.

Active harmonic filtering for commercial buildings, light industry, and other less-critical applications.



EasyLogic APF (400 V 50/60Hz)

Reference	Rating	Installation	Cable entry	IP rating	Weight (kg)	Dimensions (mm) (Width × Depth × Height)
EZAPF05044W20	50 A, 400 V, 50/60 Hz	Wall mount	Top	IP20	28	507 x 185 x 620
EZAPF10044W20	100 A, 400 V, 50/60 Hz				41	507 x 205 x 750
EZAPF15044W20	150 A, 400 V, 50/60 Hz				55	507 x 275 x 805
EZAPF05044W31	50 A, 400 V, 50/60 Hz	Wall mount	Side	IP31	32	600 x 210 x 835
EZAPF10044W31	100 A, 400 V, 50/60 Hz				45	600 x 230 x 960
EZAPF15044W31	150 A, 400 V, 50/60 Hz				60	600 x 300 x 1015
EZAPF05044R20	50 A, 400 V, 50/60 Hz	Rack mount	Rear	IP20	28	530 x 603 x 180
EZAPF10044R20	100 A, 400 V, 50/60 Hz				41	530 x 733 x 200
EZAPF15044R20	150 A, 400 V, 50/60 Hz				55	530 x 788 x 270
EZAPF30044F20	300 A, 400 V, 50/60 Hz	Floor standing	Top	IP20	342	1000 x 600 x 2000
EZAPF45044F20	450 A, 400 V, 50/60 Hz				405	

EasyLogic APF (208 V 50/60Hz)

Reference	Rating	Installation	Cable entry	IP rating	Weight (kg)	Dimensions (mm) (Width × Depth × Height)
EZAPF05024W20	50 A, 208 V, 50/60 Hz	Wall mount	Top	IP20	41	507 x 205 x 750
EZAPF10024W20	100 A, 208 V, 50/60 Hz				41	507 x 205 x 750
EZAPF05024W31	50 A, 208 V, 50/60 Hz	Wall mount	Side	IP31	45	600 x 230 x 960
EZAPF10024W31	100 A, 208 V, 50/60 Hz				45	600 x 230 x 960
EZAPF10024R20	100 A, 208 V, 50/60 Hz	Rack mount	Rear	IP20	41	530 x 733 x 200

EasyLogic APF (480 V 50/60Hz)

Reference	Rating	Installation	Cable entry	IP rating	Weight (kg)	Dimensions (mm) (Width × Depth × Height)
EZAPF05053W20	50 A, 480 V, 50/60 Hz	Wall mount	Top	IP20	41	507 x 205 x 750
EZAPF10053W20	100 A, 480 V, 50/60 Hz				41	507 x 205 x 750
EZAPF15053W20	150 A, 480 V, 50/60 Hz				55	507 x 275 x 805
EZAPF05053W31	50 A, 480 V, 50/60 Hz	Wall mount	Side	IP31	45	600 x 230 x 960
EZAPF10053W31	100 A, 480 V, 50/60 Hz				45	600 x 230 x 960
EZAPF15053W31	150 A, 480 V, 50/60 Hz				60	600 x 300 x 1015
EZAPF10053R20	100 A, 480 V, 50/60 Hz	Rack mount	Rear	IP20	41	530 x 733 x 200
EZAPF15053R20	150 A, 480 V, 50/60 Hz				55	530 x 788 x 270

A man with glasses and a woman with glasses are looking at a tablet together in a technical environment. The man is on the left, wearing a dark jacket, and the woman is on the right, wearing a black turtleneck and a necklace. They are both focused on the tablet. In the background, there are shelves with various electronic components and a fan.

05. Altivar soft starters and Altivar variable speed drives

Altivar Soft Starter ATS01 is for HVAC, pumps, compressors, and other basic motors



1 Altivar soft starter ATS01 for 0.37 to 11 kW motors and single or 3-phase supply voltage 110...480 V 50/60 Hz (1)									
Power for single-phase motor (2)	Under 230 V (kW)	0.37		0.75		1.1		1.5	2.2
	Under 110 V (HP)	—	—	0.5	—	1		1.5	2
	Under 230 V (kW)	0.37	0.55	0.75	1.1	1.5		2.2	3
	Under 230 V (HP)	0.5	—	1	1.5	2		3	4
	Under 400 V (kW)	1.1	—	2.2	3	4		5.5	7.5
Power for 3-phase motor (2)	Under 400 V (HP)	1.5	—	3	—	4		5.5	7.5
	Under 460 V (HP)	0.5	1.5	2	3	5		7.5	10
Nominal current I_{cL} (A) (3)		3		6		9		12	25
Reference		ATS01N103FT		ATS01N106FT		ATS01N109FT		ATS01N112FT	ATS01N125FT
2 Three-phase supply voltage: 200...240 V 50/60 Hz- Replace the ●● with LU									
Motor Power in KW		0.75/1.1	1.5	2.2/3		4/5.5		7.5	ATS01●●●●LU
Motor Power in HP		1/1.5	2	3/-		5/7.5		10	
Three-phase supply voltage: 380...415 V 50/60 Hz- Replace the ●● with QN									
Motor Power in KW		1.5/2.2/3	4	5.5		7.5/11		15	ATS01●●●●QN
Three-phase supply voltage: 440...480 V 50/60 Hz- Replace the ●● with RT									
Motor Power in HP		2/3	5	7.5		10/15		20	ATS01●●●●RT
I_{cL} starter rating (A) (3)		6	9	12		22		32	
References		ATS01N206●●	ATS01N209●●	ATS01N212●●		ATS01N222●●		ATS01N232●●	

(1) Number of possible start-stops/hour: 100 for starting time of 1 s maximum, 20 for starting time of 5 s maximum.

(2) Standard motor power ratings, HP power ratings indicated according to standard UL508.

(3) I_{cL} corresponds to the starter rating.

Altivar Soft Starter ATS130 is for HVAC, pumps, compressors, and other basic motors



Altivar Soft Starter ATS130 3-phase supply voltage 200...480 V 50/60 Hz (8), and 24V DC control power supply (4)							
Motor power (5)	208V (HP)	10	10	20	20	25	30
	230V (kW)	11	11	18.5	22	22	30
	230V (HP)	10	15	20	25	30	40
	400V (kW)	18.5	22	30	37	45	55
	460V (HP)	25	30	40	50	60	75
Rated operational current I_{cL} (A)		38	45	65	73	80	105
Reference		ATS130N2D38LT	ATS130N2D38LT	ATS130N2D65LT	ATS130N2D73LT	ATS130N2D80LT	ATS130N2C11LT

Build your motor starter with ATS130						
	Thermal-Magnetic circuit breaker	GV3P●●1	GV3P●●1	GV3P●●1	GV3P●●1	GV4P●●
	Fixing kit (7)	VW3G921304				VW3G921305
	Altivar Soft Starter ATS130 (6)	ATS130N2D38LT	ATS130N2D45LT	ATS130N2D65LT	ATS130N2D73LT	ATS130N2D80LT
	Optional cooling fan (8)	VW3G941305				

(4) Number of possible start-stops/hour: 50 for starting time of 1s maximum, 10 for starting time 5s maximum, 5 for starting of 10 s maximum.

(5) IE3 motor power ratings, HP power ratings indicated according to standard UL508.

(6) Reduction of number of start- stops / hour for this mounting conditions . For more details, please refer to the product datasheet on our website www.se.com.

(7) Fixing kits for GV3 or GV4 used to maintain in position the circuit breaker and to connect it to ATS130.

(8) The number of starts per hour can be increased by adding a fan. For more details, please refer to the product datasheet on our website www.se.com.

Altivar Soft Starter ATS22 is for building and industrial segments



1 Altivar soft starter ATS22 units for 3-phase power supply voltage 230...440 V and 220 V 50-60 Hz control power supply Connection in the motor power supply line or in the motor delta connection (1)

Motor power in kW (motor power supply line)	230 V	4	7.5	11	15	18.5	22	30	37
	400 V	7.5	15	22	30	37	45	55	75
	440 V	7.5	15	22	30	37	45	55	75
Nominal current I _{CL} (A) (2)		17	32	47	62	75	88	110	140
Number of starts/hour	Without fan	6	6	6	6	6	6	4	4
	With fan (3)	10	10	10	10	10	10	10	10
Reference		ATS22D17Q	ATS22D32Q	ATS22D47Q	ATS22D62Q	ATS22D75Q	ATS22D88Q	ATS22C11Q	ATS22C14Q

Motor power in kW (motor power supply line)	230 V	45	55	75	90	110	132	160
	400 V	90	110	132	160	220	250	315
	440 V	90	110	132	160	220	250	355
Nominal current I _{CL} (A) (2)		170	210	250	320	410	480	590
Number of starts/hour	Without fan	4	—	—	—	—	—	—
	With fan (3)	10	4	4	4	4	4	4
Reference		ATS22C17Q	ATS22C21Q	ATS22C25Q	ATS22C32Q	ATS22C41Q	ATS22C48Q	ATS22C59Q

2 Altivar soft starter ATS22 units for 3-phase power supply voltage 230...500 V and 220 V 50-60 Hz control power supply Connection in the motor power supply line

Motor power in kW	230 V	4	7.5	11	15	18.5	22	30	37
	400 V	7.5	15	22	30	37	45	55	75
	440 V	7.5	15	22	30	37	45	55	75
	500 V	9	18.5	30	37	45	55	75	90
Nominal current I _{CL} (A) (2)		17	32	47	62	75	88	110	140
Number of starts/hour	Without fan	—	—	—	—	—	—	—	—
	With fan (3)	4	4	4	4	4	4	4	4
References		ATS22D17S6	ATS22D32S6	ATS22D47S6	ATS22D62S6	ATS22D75S6	ATS22D88S6	ATS22C11S6	ATS22C14S6

Motor power in kW	230 V	45	55	75	90	110	132	160
	400 V	90	110	132	160	220	250	315
	440 V	90	110	132	160	220	250	355
	500 V	110	132	160	220	250	315	400
Nominal current I _{CL} (A) (2)		170	210	250	320	410	480	590
Number of starts/hour	Without fan	4	—	—	—	—	—	—
	With fan (3)	10	4	4	4	4	4	4
Reference		ATS22C17S6	ATS22C21S6	ATS22C25S6	ATS22C32S6	ATS22C41S6	ATS22C48S6	ATS22C59S6

Note: All values given for Altivar soft starter ATS22 are defined for 3.5 x I_n and 20 s starting time, with motors with thermal protection class 10. These values are for an ambient temperature of 40 °C.

(1) When connected in the delta configuration, starters allow the use of motors of a larger rating relative to that of the starter. In this configuration, the nominal motor current should not exceed 1.5 I_{CL}.

(2) I_{CL} corresponds to the starter rating.

(3) All soft starters from motor power 55 kW to 160 kW (ATS22C21.. to ATS22C59..) are equipped with a fan as standard.

For soft starters under 55 kW (ATS22D17.. to ATS22C17..), the number of starts per hour can be increased by adding a fan. For more details, please refer to the product datasheets on our website www.se.com.

Altivar 212 - IP21 drives for building and HVAC projects (fan, pump, compressor)



Three-phase supply voltage: 200...240 V 50/60 Hz, without EMC filter (1)							
Motor	Power indicated on rating plate in kW	0.75	1.5	2.2	3	4	5.5
	Power indicated on rating plate in HP	1	2	3	—	5	7.5
Altivar 212	Max. continuous output current (In) 230 V in A (2)	4.6	7.5	10.6	13.7	18.7	24.2
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	107 x 192 x 150			142 x 232 x 150		180 x 307 x 170
	EMC plate not mounted (mm)	107 x 143 x 150			142 x 184 x 150		180 x 232 x 170
Reference		ATV212H075M3X	ATV212HU15M3X	ATV212HU22M3X	ATV212HU30M3X	ATV212HU40M3X	ATV212HU55M3X

Motor	Power indicated on rating plate in kW	7.5	11	15	18.5	22	30
	Power indicated on rating plate in HP	10	15	20	25	30	40
Altivar 212	Max. continuous output current (In) 230 V in A (2)	32	46.2	61	74.8	88	117
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	180 x 307 x 170	245 x 405 x 190			240 x 542 x 214	320 x 723 x 290
	EMC plate not mounted (mm)	180 x 232 x 170	246 x 330 x 190			240 x 420 x 214	320 x 605 x 290
Reference		ATV212HU75M3X	ATV212HD11M3X	ATV212HD15M3X	ATV212HD18M3X	ATV212HD22M3X	ATV212HD30M3X

Three-phase supply voltage: 380...480 V 50/60 Hz, with integrated category C2 or C3 EMC filter (1)							
Motor	Power indicated on rating plate in kW	0.75	1.5	2.2	3	4	5.5
	Power indicated on rating plate in HP	1	2	3	3	5	7.5
Altivar 212	Max. continuous output current (In) in A (2)	2.2	3.7	5.1	7.2	9.1	12
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	107 x 192 x 150			142 x 232 x 150		
	EMC plate not mounted (mm)	107 x 143 x 150			142 x 184 x 150		
Reference		ATV212H075N4	ATV212HU15N4	ATV212HU22N4	ATV212HU30N4	ATV212HU40N4	ATV212HU55N4

Motor	Power indicated on rating plate in kW	7.5	11	15	18.5	22	22
	Power indicated on rating plate in HP	10	15	20	25	30	30
Altivar 212	Max. continuous output current (In) in A (2)	16	22.5	30.5	37	43.5	43.5
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	180 x 307 x 170	245 x 405 x 190			240 x 542 x 214	
	EMC plate not mounted (mm)	180 x 232 x 170	245 x 330 x 190			240 x 420 x 214	
Reference		ATV212HU75N4	ATV212HD11N4	ATV212HD15N4	ATV212HD18N4	ATV212HD22N4S	ATV212HD22N4

Motor	Power indicated on rating plate in kW	30	37	45	55	75
	Power indicated on rating plate in HP	40	50	60	75	100
Altivar 212	Max. continuous output current (In) in A (2)	58.5	79	94	116	160
Dimensions: W x H x D (mm)	EMC plate mounted (mm)	240 x 542 x 214	240 x 663 x 244		320 x 723 x 290	
	EMC plate not mounted (mm)	240 x 420 x 214	240 x 550 x 244		320 x 605 x 290	
Reference		ATV212HD30N4	ATV212HD37N4	ATV212HD45N4	ATV212HD55N4	ATV212HD75N4

(1) Drives are supplied with an EMC plate, for customer assembly.

(2) These values are given for a nominal switching frequency of 12 kHz up to ATV212HD15M3X and up to ATV212HD15N4 or 8 kHz for ATV212HD18M3X... HD30M3X and ATV212HD18N4...HD75N4, for use in continuous operation. The switching frequency can be set between 6 and 16 kHz for all ratings. Above 8 kHz or 12 kHz, depending on the rating, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current. The nominal motor current must not exceed this derating value. See the derating curves on our website www.se.com.

Setup ATV212 with "Ecostruxure Industrial Device" Mobile Application



Free

"Ecostruxure Industrial Device" mobile application for IOS or Android

Download the application via application stores:



Modbus RS232 Serial Cable with RJ45 Connectors on both sides

Ecostruxure Device Connector - Bluefer is necessary to connect mobile application to ATV212

Altivar 12 ultra-compact variable speed drives for commercial equipment



1 Altivar 12 drives with heatsink and single-phase supply voltage: 100...120 V 50/60 Hz (1) (2)

Motor	Power indicated on plate in kW (3)	0.18	0.37	0.75
	Power indicated on plate in HP (3)	0.25	0.5	1
Altivar 12	Max. continuous output current (3)	1.4	2.4	4.2
	Embedded communication	Modbus Serial Line		
	Application intelligence	Embedded functions		
	Withstand to harsh environment	Up to 60 °C with derating		
Dimensions: W x H x D (mm) (4)		72 x 143 x 102	72 x 143 x 121	105 x 142 x 156
Reference		ATV12 H018F1 (4)	ATV12 H037F1	ATV12 H075F1

Altivar 12 drives with heatsink and single-phase supply voltage: 200...240 V 50/60 Hz (1) (2)

Motor	Power indicated on plate in kW (3)	0.18	0.37	0.55	0.75	1.5	2.2
	Power indicated on plate in HP (3)	0.25	0.55	0.75	1	2	3
Altivar 12	Max. continuous output current (3)	1.4	2.4	3.5	4.2	7.5	10
	Dimensions: W x H x D (mm) (4)	72 x 143 x 102	72 x 143 x 121	72 x 143 x 131		105 x 142 x 156	
Reference		ATV12 H018M2 (4)	ATV12 H037M2	ATV12 H055M2	ATV12 H075M2	ATV12 HU15M2	ATV12 HU22M2

Altivar 12 drives with heatsink and three-phase supply voltage: 200...240 V 50/60 Hz (1) (2)

Motor	Power indicated on plate in kW (3)	0.18	0.37	0.75	1.5	2.2	3	4
	Power indicated on plate in HP (3)	0.25	0.55	1	2	3	—	5
Altivar 12	Max. continuous output current (3)	1.4	2.4	4.2	7.5	10	12.2	16.7
	Dimensions: W x H x D (mm) (4)	72 x 143 x 102	72 x 143 x 121	72 x 143 x 131	105 x 143 x 131		140 x 184 x 141	
Reference		ATV12 H018M3 (4)	ATV12 H037M3	ATV12 H075M3	ATV12 HU15M3	ATV12 HU22M3	ATV12 HU30M3	ATV12 HU40M3

2 Accessories for Altivar 12 drives

Accessory	Simple Loader configuration tool (5)	Multi-Loader configuration tool (5)	USB/RJ45 cable for PC-drive connection
Compatibility	All Altivar 12 variable speed drives		
Reference	VW3A8120	VW3A8121	TCSMCNAM3M002P

Note: Altivar 12 variable speed drives are designed for 3-phase asynchronous motors.

(1) Min. (U1) and max. (U2) nominal supply voltage: 100 (U1)...120 V (U2), 200 (U1)...240 V (U2).

(2) Altivar 12 variable speed drives are supplied with built-in EMC filters and comply with standard IEC/EN 61800-3. For more information, please refer to the product datasheet on our website www.se.com.

(3) These values are given for a nominal switching frequency of 4 kHz, for continuous operation. For derated operation, please refer to the product catalog. ATV12 variable speed drives can supply a transient output current of 1.5 x In for 60 s for every 10 min. cycle.

(4) All dimensions provided are without EMC plate installed.

(5) For more information about this tool, please refer to the product datasheet on our website www.se.com.

Communication modules and accessories for ATV320 variable speed drives



3 Communication buses and networks for ATV320

Type of communication module (6)	CANopen daisy chain (7) (8) (9)	CANopen SUB-D9 (7) (8) (9)	CANopen open style (7) (8) (9)
Reference	VW3A3608	VW3A3618	VW3A3628
Type of communication module (6)	Modbus TCP and Ethernet/IP network module (8)	PROFIBUS DP V1 communication module (8)	DeviceNet communication module (8)
Reference	VW3A3616	VW3A3607	VW3A3609
Type of communication module (6)	EtherCat communication module (8)	ProfiNet communication module (8)	Powerlink Communication module
Reference	VW3A3601	VW3A3627	VW3A3619

4 Accessories

Type of accessory	Communication adapter module (6)	Advance keypad	
Compatibility	ATV320● compact	All Altivar Machine ATV320 variable speed drives	
Reference (8)	VW3A3600	VW3A1111	
Type of accessory	Simple Loader configuration tool (10)	Multi-Loader configuration tool (10)	USB/RJ45 cable for PC-drive connection
Compatibility	All Altivar Machine ATV320 variable speed drives		
Reference	VW3A8120	VW3A8121	TCSMCNAM3M002P

(6) Altivar Machine ATV320 products with a compact control block require the VW3A3600 option adapter module in order to use any optional communication module.

(7) The Modbus serial link always uses the RJ45 communication port. If simultaneous use of the Modbus serial link and the CANopen machine bus is required, a CANopen communication module is needed.

(8) The Altivar Machine ATV320 drive can only take one communication module.

(9) When one of the CANopen communication modules is inserted in the Altivar Machine ATV320 drive, CANopen communication via the RJ45 communication port is disabled.

(10) For more information about this tool, please refer to the product datasheet on our website www.se.com.

Altivar Machine ATV320 variable speed drives for simple and advanced machines



1 ATV320 drives with compact control block and single-phase supply voltage 200...240 V 50/60 Hz

Motor	Power indicated on plate in kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2
	Power indicated on plate in HP	0.25	0.5	0.75	1	1.5	2	3
Altivar 320	Max. continuous output current (1)	1.5	3.3	3.7	4.8	6.9	8	11
Dimensions: W x H x D (mm)		72 x 143 x 109	72 x 143 x 128	72 x 143 x 138			105 x 142 x 158	
Reference		ATV320 U02M2C	ATV320 U04M2C	ATV320 U06M2C	ATV320 U07M2C	ATV320 U11M2C	ATV320 U15M2C	ATV320 U22M2C

ATV320 drives with compact control block and three-phase supply voltage 380...500 V 50/60 Hz

Motor	Power indicated on plate in kW	0.37	0.55	0.75	1.1	1.5	2.2	3	4
	Power indicated on plate in HP	0.5	0.75	1	1.5	2	3	4	5
Altivar 320	Max. continuous output current (1)	1.5	1.9	2.3	3	4.1	5.5	7.1	9.5
Dimensions: W x H x D (mm)		105 x 143 x 158					140 x 184 x 158		
Reference		ATV320 U04N4C	ATV320 U06N4C	ATV320 U07N4C	ATV320 U11N4C	ATV320 U15N4C	ATV320 U22N4C	ATV320 U30N4C	ATV320 U40N4C

Motor	Power indicated on plate in kW	5.5	7.5	11	15
	Power indicated on plate in HP	7.5	10	15	20
Altivar 320	Max. continuous output current (1)	14.3	17	27.7	33
Dimensions: W x H x D (mm)		150 x 232 x 178		180 x 330 x 198	
Reference		ATV320 U55N4C	ATV320 U75N4C	ATV320 D11N4C	ATV320 D15N4C

ATV320 drives with book control block and single-phase supply voltage 200...240 V 50/60 Hz

Motor	Power indicated on plate in kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2
	Power indicated on plate in HP	0.25	0.5	0.75	1	1.5	2	3
Altivar 320	Max. continuous output current (1)	1.5	3.3	3.7	4.8	6.9	8	11
Dimensions: W x H x D (mm)		45 x 325 x 245					60 x 325 x 245	
Reference		ATV320 U02M2B	ATV320 U04M2B	ATV320 U06M2B	ATV320 U07M2B	ATV320 U11M2B	ATV320 U15M2B	ATV320 U22M2B

ATV320 drives with book control block and three-phase supply voltage 380...500 V 50/60 Hz

Motor	Power indicated on plate in kW	0.37	0.55	0.75	1.1	1.5	2.2	3	4
	Power indicated on plate in HP	0.5	0.75	1	1.5	2	3	4	5
Altivar 320	Max. continuous output current (1)	1.5	1.9	2.3	3	4.1	5.5	7.1	9.5
Dimensions: W x H x D (mm)		45 x 325 x 245					60 x 325 x 245		
Reference		ATV320 U04N4B	ATV320 U06N4B	ATV320 U07N4B	ATV320 U11N4B	ATV320 U15N4B	ATV320 U22N4B	ATV320 U30N4B	ATV320 U40N4B

Motor	Power indicated on plate in kW	5.5	7.5	11	15
	Power indicated on plate in HP	7.5	10	15	20
Altivar 320	Max. continuous output current (1)	14.3	17	27.7	33
Dimensions: W x H x D (mm)		150 x 232 x 232		180 x 330 x 232	
Reference		ATV320 U55N4B	ATV320 U75N4B	ATV320 D11N4B	ATV320 D15N4B

2 Altivar with high IP enclosure and single-phase supply voltage: 200...240 V 50/60Hz

Motor	Power indicated on plate in kW	0.18	0.37	0.55	0.75	1.1	1.5	2.2
	Power indicated on plate in HP	0.25	0.5	0.75	1	1.5	2	3
Altivar 320	Max. continuous output current (1)	1.5	3.3	3.7	4.8	6.9	8	11
Dimensions: W x H x D (mm) (2)		250 x 340 x 182					250 x 340 x 235	
Reference		ATV320 U02M2W(S)	ATV320 U04M2W(S)	ATV320 U06M2W(S)	ATV320 U07M2W(S)	ATV320 U11M2W(S)	ATV320 U15M2W(S)	ATV320 U22M2W(S)

Altivar with high IP enclosure and three-phase supply voltage 380...500 V 50/60 Hz

Motor	Power indicated on plate in kW	0.37	0.55	0.75	1.1	1.5	2.2	3	4
	Power indicated on plate in HP	0.5	0.75	1	1.5	2	3	4	5
Altivar 320	Max. continuous output current (1)	1.5	1.9	2.3	3	4.1	5.5	7.1	9.5
Dimensions: W x H x D (mm) (2)		250 x 340 x 200					250 x 340 x 235		
Reference		ATV320 U04N4W(S)	ATV320 U06N4W(S)	ATV320 U07N4W(S)	ATV320 U11N4W(S)	ATV320 U15N4W(S)	ATV320 U15M2W(S)	ATV320 U30N4W(S)	ATV320 U40N4W(S)

Motor	Power indicated on plate in kW	5.5	7.5
	Power indicated on plate in HP	7.5	10
Altivar 320	Max. continuous output current (1)	14.3	17
Dimensions: W x H x D (mm) (2)		320 x 521 x 335	
Reference		ATV320 U55N4W(S)	ATV320 U75N4W(S)

Note: Altivar Machine ATV320 variable speed drives are designed for 3-phase synchronous and asynchronous motors. ATV320 drives are supplied with braking chopper as standard. For braking resistor selection, please refer to the product catalog on our website www.se.com.

(1) Altivar Machine ATV320 variable speed drives can supply a transient output current of $1.5 \times I_n$ for 60 s.

(2) To obtain the new references for ATV320 IP66 drives, replace the last character with "W" (without switch) or "WS" (with switch).



06. Harmony interface, measurement and control relays

Zelio Logic smart relays



Compact smart relays and compact “discovery” packs

AC supply voltage		24 VAC		48 VAC	100...240 VAC		
Number of inputs/outputs		12	20	20	10	12	20
Number of discrete inputs		8	12	12	6	8	12
Number of outputs		4 relay	8 relay	8 relay	4 relay	4 relay	8 relay
Clock		Yes	Yes	No	No	Yes	No
Compact smart relays	With display	SR2B121B	SR2B201B	SR2A201E	SR2A101FU (1)	SR2B121FU	SR2A201FU (1)
	Without display (1)	SR2E121B	SR2E201B	–	SR2D101FU (1)	SR2E121FU	SR2D201FU (1)
Compact discovery packs (2)		–	–	–	–	SR2PACKFU	–
DC supply voltage		12 VDC			24 VDC		
Number of inputs/outputs		12	20	10	12	20	20
Number of discrete inputs		8	12	6	8	12	12
including 0-10 V analog inputs		4	6	–	4	2	6
Number of outputs		4 relay	8 relay	4 relay	4	8 relay	8
Clock		Yes	Yes	No	Yes	No	Yes
Compact smart relays	With display	SR2B121JD	SR2B201JD	SR2A101BD (1)	SR2B12●BD (3)	SR2A201BD (1)	SR2B20●BD (3)
	Without display	–	–	SR2D101BD (1)	SR2E121BD	SR2D201BD (1)	SR2E201BD
Compact discovery packs (2)		–	–	–	SR2PACKBD	–	SR2PACK2BD

Modular smart relays (4) with display and modular “discovery” packs

Supply voltage		24 VAC		100...240 VAC		12 VDC	24 VDC
Number of inputs/outputs		10	26	10	26	26	26
Number of discrete inputs		6	16	6	16	16	16
including 0-10 V analog inputs		–	–	–	–	6	4
Number of outputs		4 relay	10 relay	4 relay	10 relay	10 relay	4
Clock		Yes	Yes	Yes	Yes	Yes	Yes
Modular smart relays (2)		SR3B101B	SR3B261B	SR3B101FU	SR3B261FU	SR3B261JD	SR3B10●BD (5)
Modular discovery packs (2)		–	–	SR3PACKFU	SR3PACK2FU	–	SR3PACKBD



Extension modules for Zelio Logic SR3B●●●●●● (6)

Type of module		Communication modules (4)		Discrete I/O modules (5)			Analog I/O modules
Network type		Modbus	Ethernet	–	–	–	–
Number of inputs/outputs		–	–	6	10	14	4
Number of discrete inputs		–	–	4	6	8	2 (0...10 V, 0...20 mA, PT100)
Number of outputs		–	–	2 relay	4 relay	6 relay	2 (0...10 V)
References	24 VAC	–	–	SR3XT61B	SR3XT101B	SR3XT141B	–
	100...240 VAC	–	–	SR3XT61FU	SR3XT101FU	SR3XT141FU	–
	12 VDC	–	–	SR3XT61JD	SR3XT101JD	SR3XT141JD	–
	24 VDC	SR3MBU01BD	SR3NET01BD	SR3XT61BD	SR3XT101BD	SR3XT141BD	SR3XT43BD

Zelio Soft 2 software and accessories

Type of device		Zelio Soft multilingual programming software		Connecting cables		Wireless connection	Back-up memory
Description		Free downloadable file on se.com (7)		Serial PC/Smart relay	USB PC/Smart relay	Bluetooth interface	EEPROM
References		ESR2SFT01		SR2CBL01	SR2USB01	SR2BTC01	SR2MEM02

(1) Programming on smart relay in LADDER language only.

(2) The packs are composed of one smart relay with display and relay output, and one SR2USB01 connecting cable.

(3) Replace the ● with the number 1 to order a smart relay with relay output or the number 2 for a smart relay with transistor output (e.g. SR2B121BD).

(4) The modular base can be equipped with one I/O extension module. The 24 VDC modular base can be equipped with one communication module and/or one I/O extension module.

(5) Replace the ● with the number 1 to order a smart relay with relay output or the number 2 for a smart relay with transistor output (e.g. SR3B101BD).

(6) The power supply for the extension modules is provided via the Zelio Logic modular relays.

(7) Programming software for Zelio Logic is freely available on se.com. This software is compatible with Windows 10.

Harmony Relay RXG and RSB electromechanical relays



RXG interface relays

Type		RXG relays without test button				RXG relays with test button			
Contact		1 CO		2 CO		1 CO		2 CO	
Current		10 A		5 A		10 A		5 A	
Connection		Flat pins (Faston type)				Flat pins (Faston type)			
LED display		Without LED	With LED	Without LED	With LED	Without LED	With LED	Without LED	With LED
Complete product	6 VDC	—	—	—	—	—	RXG12RD	RXG21RD	—
	12 VDC	RXG15JD	RXG13JD	—	—	RXG11JD	RXG12JD	RXG21JD	RXG22JD
	24 VDC	RXG15BD	RXG13BD	RXG25BD	RXG23BD	RXG11BD	RXG12BD	RXG21BD	RXG22BD
	48 VDC	—	—	—	—	—	RXG12ED	—	RXG22ED
	110 VDC	—	—	—	—	—	RXG12FD	—	RXG22FD
	24 VAC	—	RXG13B7	RXG25B7	RXG23B7	RXG11B7	RXG12B7	RXG21B7	RXG22B7
	48 VAC	—	—	—	RXG23E7	—	RXG12E7	RXG21E7	RXG22E7
	120 VAC	RXG15F7	RXG13F7	RXG25F7	RXG23F7	RXG11F7	RXG12F7	RXG21F7	RXG22F7
	220 VAC	—	—	RXG25M7	RXG23M7	—	—	RXG21M7	RXG22M7
230 VAC	RXG15P7	RXG13P7	RXG25P7	RXG23P7	RXG11P7	RXG12P7	RXG21P7	RXG22P7	
Screw connector socket		RGZE1S35M		RGZE1S48M		RGZE1S35M		RGZE1S48M	
Screw clamp socket		RGZE05E		RGZE08E		RGZE05E		RGZE08E	
Push-in socket		RGZE05P		RGZE08P		RGZE05P		RGZE08P	
Pre-mounted product	24 VDC	—	RXG13BDPV	—	RXG23BDPV	—	RXG12BDPV	RXG21BDPV	RXG22BDPV
	24 VAC	—	—	—	—	—	RXG12B7PV	RXG21B7PV	RXG22B7PV
	230 VAC	—	RXG13P7PV	—	RXG23P7PV	—	RXG12P7PV	RXG21P7PV	RXG22P7PV

Note: RXG pre-mounted version includes: Relay + Screw connector socket + Protection Module (Diode for DC coil/Varistor for AC coil) + clamp, sold in lots of 30 units.



RSB interface relay

Contact		1 CO	1 CO	2 CO
Current		12 A	16 A	8 A
Connection		PCB Type		
Complete product	12 VDC	RSB1A120JD	RSB1A160JD	RSB2A080JD
	24 VDC	RSB1A120BD	RSB1A160BD	RSB2A080BD
	48 VDC	RSB1A120ED	RSB1A160ED	RSB2A080ED
	110 VDC	RSB1A120FD	RSB1A160FD	RSB2A080FD
	24 VAC	RSB1A120B7	RSB1A160B7	RSB2A080B7
	48 VAC	RSB1A120E7	RSB1A160E7	RSB2A080E7
	120 VAC	RSB1A120F7	RSB1A160F7	RSB2A080F7
	220 VAC	RSB1A120M7	RSB1A160M7	RSB2A080M7
	230 VAC	RSB1A120P7	RSB1A160P7	RSB2A080P7
Pre-mounted product	240 VAC	RSB1A120U7	RSB1A160U7	RSB2A080U7
	Screw connector socket	RSZE1S35M	RSZE1S48M	RSZE1S48M
	Push-in socket	RSZE05P	RSZE08P	RSZE08P
Pre-mounted product	12 VDC	RSB1A120JDPV	–	RSB2A080JDPV
	24 VDC	RSB1A120BDPV	RSB1A160BDPV	RSB2A080BDPV
	24 VAC	RSB1A120B7PV	–	RSB2A080B7PV
	120 VAC	RSB1A120F7PV	–	RSB2A080F7PV
	220 VAC	–	–	RSB2A080M7PV
	230 VAC	RSB1A120P7PV	RSB1A160P7PV	RSB2A080P7PV

Note: RSB pre-mounted version includes: Relay + Screw connector socket + Protection Module + Clamp + Label, sold in lots of 30 units.

Harmony Relay RSL, RXM and RPM electromechanical relays



RSL interface relays

Type		RSL relays		Sockets for RSL relays		Pre-assembled relays/sockets	
Contact		1 CO		–		1 CO	
Current		6 A - standard	6 A - low level	–		6 A	
Connection		PCB pins		Screw connector	Spring terminal	Screw connector	Spring terminal
LED display		Without LED		–		With LED	
Complete product	12 VAC/VDC	RSL1AB4JD	RSL1GB4JD	RSLZVA1	RSLZRA1	RSL1PVJU	RSL1PRJU
	24 VAC/VDC	RSL1AB4BD	RSL1GB4BD	RSLZVA1	RSLZRA1	RSL1PVBU	RSL1PRBU
	48 VAC/VDC	RSL1AB4ED	RSL1GB4ED	RSLZVA2	RSLZRA2	RSL1PVEU	RSL1PREU
	60 VAC/VDC	RSL1AB4ND	RSL1GB4ND	RSLZVA2	RSLZRA2	–	
	110 VAC/VDC	–		–		RSL1PVFU	RSL1PRFU
	230 VAC/VDC	–		–		RSL1PVPU	RSL1PRPU



RXM•AB miniature relays

Type		RXM●AB relays with test button					
Contact		2 CO		3 CO		4 CO	
Current		12 A		10 A		6 A	
Connection		Flat pins (Faston type)					
LED display		Without LED	With LED	Without LED	With LED	Without LED	With LED
Complete product	12 VDC	RXM2AB1JD	RXM2AB2JD	RXM3AB1JD	RXM3AB2JD	RXM4AB1JD	RXM4AB2JD
	24 VDC	RXM2AB1BD	RXM2AB2BD	RXM3AB1BD	RXM3AB2BD	RXM4AB1BD	RXM4AB2BD
	48 VDC	RXM2AB1ED	RXM2AB2ED	RXM3AB1ED	—	RXM4AB1ED	RXM4AB2ED
	110 VDC	RXM2AB1FD	RXM2AB2FD	RXM3AB1FD	RXM3AB2FD	RXM4AB1FD	RXM4AB2FD
	24 VAC	RXM2AB1B7	RXM2AB2B7	RXM3AB1B7	RXM3AB2B7	RXM4AB1B7	RXM4AB2B7
	48 VAC	RXM2AB1E7	RXM2AB2E7	RXM3AB1E7	RXM3AB2E7	RXM4AB1E7	RXM4AB2E7
	120 VAC	RXM2AB1F7	RXM2AB2F7	RXM3AB1F7	RXM3AB2F7	RXM4AB1F7	RXM4AB2F7
	230 VAC	RXM2AB1P7	RXM2AB2P7	RXM3AB1P7	RXM3AB2P7	RXM4AB1P7	RXM4AB2P7
	220 VDC	—		—		RXM4AB1MD	—
240 VDC	—		—		RXM4AB1U7	—	
Screw clamp socket (1)		RXZE2M114		—		RXZE2M114	
Screw connector socket (2)		RXZE2M114M		—		RXZE2M114M	
Screw connector socket (2)		RXZE2S108M		RXZE2S111M		RXZE2S114M	
Push-in socket		RXZE14P		RXZE14P		RXZE14P	
Pre-mounted product	24 VDC	—	RXM2AB2BDPVM (3)	—		RXM4AB1BDPVM (3)	RXM4AB2BDPVM (3)
	24 VAC	—	RXM2AB2B7PVM (3)	—		RXM4AB1B7PVM (3)	RXM4AB2B7PVM (3)
	230 VAC	—	RXM2AB2P7PVM (3)	—		RXM4AB1P7PVM (3)	RXM4AB2P7PVM (3)
	24 VDC	—	RXM2AB2BDPVS (4)	—		RXM4AB1BDPVS (4)	RXM4AB2BDPVS (4)
	24 VAC	—	RXM2AB2B7PVS (4)	—		RXM4AB1B7PVS (4)	RXM4AB2B7PVS (4)
	230 VAC	—	RXM2AB2P7PVS (4)	—		RXM4AB1P7PVS (4)	RXM4AB2P7PVS (4)



RPM power relays (15 A)

Type		RPM relays with test button							
Contact		1 CO		2 CO		3 CO		4 CO	
Current		15 A							
Connection		Flat pins (Faston type)							
LED display		Without LED	With LED	Without LED	With LED	Without LED	With LED	Without LED	With LED
Complete product	12 VDC	RPM11JD	RPM12JD	RPM21JD	RPM22JD	RPM31JD	RPM32JD	RPM41JD	RPM42JD
	24 VDC	RPM11BD	RPM12BD	RPM21BD	RPM22BD	RPM31BD	RPM32BD	RPM41BD	RPM42BD
	48 VDC	RPM11ED	RPM12ED	RPM21ED	RPM22ED	RPM31ED	RPM32ED	RPM41ED	RPM42ED
	110 VDC	RPM11FD	–	RPM21FD	RPM22FD	RPM31FD	–	RPM41FD	RPM42FD
	24 VAC	RPM11B7	RPM12B7	RPM21B7	RPM22B7	RPM31B7	RPM32B7	RPM41B7	RPM42B7
	48 VAC	RPM11E7	RPM12E7	RPM21E7	RPM22E7	RPM31E7	RPM32E7	RPM41E7	RPM42E7
	120 VAC	RPM11F7	RPM12F7	RPM21F7	RPM22F7	RPM31F7	RPM32F7	RPM41F7	RPM42F7
	230 VAC	RPM11P7	RPM12P7	RPM21P7	RPM22P7	RPM31P7	RPM32P7	RPM41P7	RPM42P7
Screw connector socket		RPZF1		RPZF2		RPZF3		RPZF4	

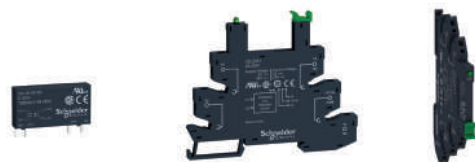
(1) With mixed contacts.

(2) With separate contacts.

(3) RXM pre-mounted version includes: Relay + Screw connector socket (mixed) + Clamp + Label, sold in lots of 30 units.

(4) RXM pre-mounted version includes: Relay + Screw connector socket (separate) + Clamp + Label, sold in lots of 30 units.

Harmony Relay SSL and SSP solid state relays



SSL1 Slim Interface Solid State Relays, 1NO contact (DC switching)

Load current		0.1 A		3.5 A	
Load voltage		1...48 VDC		1...24 VDC	
Type		Relays and sockets for customer assembly (1)	Pre-assembled with relay mounted on socket (2)	Relays and sockets for customer assembly (1)	Pre-assembled with relay mounted on socket (2)
Control Voltage	3...12 VDC	SSL1D101JD	SSL1D101JDPV SSL1D101JDPR	SSL1D03JD	SSL1D03JDPV SSL1D03JDPR
	15...30 VDC	SSL1D101BD	SSL1D101BDPV SSL1D101BDPR	SSL1D03BD	SSL1D03BDPV SSL1D03BDPR

SSL1 Slim Interface Solid State Relays, 1NO contact (Random switching, Zero voltage switching)

Load current		2 A			
Load voltage		24...280 VAC			
Switching		Random switching		Zero voltage switching	
Type		Relays and sockets for customer assembly (1)	Pre-assembled with relay mounted on socket (2)	Relays and sockets for customer assembly (1)	Pre-assembled with relay mounted on socket (2)
Control Voltage	3...12 VDC	SSL1A12JDR	SSL1A12JDRPV SSL1A12JDRPR	SSL1A12JD	SSL1A12JDPV SSL1A12JDPR
	15...30 VDC	SSL1A12BDR	SSL1A12BDRPV SSL1A12BDRPR	SSL1A12BD	SSL1A12BDPV SSL1A12BDPR

SSP1 1-phase Panel Mount Solid State Relays, 1NO contact (DC switching)

Control voltage		3.5...32 VDC			
Load voltage		1...150 VDC			
Load current	12 A	SSP1D412BDT			
	25 A	SSP1D425BDT			
	40 A	SSP1D440BDT			

SSP1 1-phase Panel Mount Solid State Relays, 1NO contact (Zero voltage switching)

Control voltage		3...32 VDC	4...32 VDC	90...280 VAC	
Load voltage		24...300 VAC	48...660 VAC	24...300 VAC	48...660 VAC
Load current	10 A	SSP1A110BDT	–	SSP1A110M7T	–
	25 A	SSP1A125BDT (3)	–	SSP1A125M7T	–
	50 A	SSP1A150BDT (3)	SSP1A450BDT (3)	SSP1A150M7T	SSP1A450M7T
	75 A	SSP1A175BDT	SSP1A475BDT (3)	–	SSP1A475M7T
	90 A	–	SSP1A490BDT (3)	–	SSP1A490M7T
	125 A	–	SSP1A4125BDT (3)	–	SSP1A4125M7T

SSP3 3-phase Panel Mount Solid State Relays, 3NO contact (Zero voltage switching)

Load voltage		48...530 VAC			
Control voltage		4...32 VDC	18...36 VAC	90...140 VAC	180...280 VAC
Load current	25 A	SSP3A225BDT	–	–	SSP3A225P7T
	50 A	SSP3A250BDT	SSP3A250B7T	SSP3A250F7T	SSP3A250P7T

SSP3 3-phase Panel Mount Solid State Relays, 3NO contact (Random switching)

Load voltage		48...530 VAC			
Control voltage		4...32 VDC	18...36 VAC	90...140 VAC	180...280 VAC
Load current	25 A	SSP3A225BDRT	–	–	–
	50 A	SSP3A250BDRT	SSP3A250B7RT	SSP3A250F7RT	SSP3A250P7RT

(1) To be used together with either screw connector socket (SSLZVA1) or spring terminal socket (SSLZRA1).

(2) SSL●PV (relay with screw connector socket; SSL1●PR (relay with spring terminal socket), sold in lots of 30 units.

(3) Available in smart diagnostic version with built-in visual indicator and alarm output to enable quick response to unexpected results and correct monitoring of SSR operation; identified by adding S at end of reference (etc. SSP1A125BDS).

Harmony Relay SSM and SSD solid state relays



SSM modular DIN rail solid state relays (DC switching)

Contact		1 NO			
Load current		6 A		12 A	
Load voltage		1...60 VDC	1...100 VDC	1...60 VDC	1...100 VDC
		12 mm		18 mm	
Control Voltage	4...32 VDC	SSM1D26BD	SSM1D36BD	SSM1D212BD	SSM1D312BD

SSM modular DIN rail solid state relays (Random switching)

Contact		1 NO				2 NO	
Load current		6 A		12 A		6 A	
Load voltage		24...280 VAC	48...600 VAC	24...280 VAC	48...600 VAC	24...280 VAC	48...600 VAC
		12 mm		18 mm			
Control Voltage	4...32 VDC	SSM1A16BDR	SSM1A36BDR	SSM1A112BDR	SSM1A312BDR	SSM2A16BDR	SSM2A36BDR
	18...36 VAC	SSM1A16B7R	—	SSM1A112B7R	—	—	—
	90...140 VAC		—	—	—	—	—
	200...265 VAC		—	—	—	—	—

SSM modular DIN rail solid state relays (Zero voltage switching)

Contact		1 NO			
Load current		6 A		12 A	
Load voltage		24...280 VAC	48...600 VAC	24...280 VAC	48...600 VAC
Control Voltage	4...32 VDC	SSM1A16BD	SSM1A36BD	SSM1A112BD	SSM1A312BD
	18...36 VDC	SSM1A16B7	–	SSM1A112B7	SSM1A312B7
	90...140 VAC	SSM1A16F7	–	SSM1A112F7	–
	200...265 VAC	SSM1A16P7	–	SSM1A112P7	–



SSD modular DIN rail solid state relays, 1NO contact (Zero voltage switching)

Output voltage	48...600 VAC		
	22.5 mm		
Load current	20 A		
Control voltage	4...32 VDC		
Configura- tion	Relay	SSD1A320BDC1	
	Contact - Screw	SSD1A320BDC2	
	Contact - Spring	SSD1A320BDC3	

SSD modular DIN rail solid state relays, 1NO contact (Random switching)

Output voltage	48...600 VAC							
	22.5 mm				45 mm			
Load current	20 A		35 A		45 A		60 A	
Control voltage	4...32 VDC	90...280 VAC/DC	4...32 VDC	90...280 VAC/DC	4...32 VDC	90...280 VAC/DC	4...32 VDC	90...280 VAC/DC
Configura- tion	Relay	SSD1A320BDC1	SSD1A320M7RC1	SSD1A335BDC1	SSD1A335M7RC1	–	SSD1A360BDC1	–
	Contact - Screw	SSD1A320BDC2	SSD1A320M7RC2	SSD1A335BDC2	SSD1A335M7RC2	SSD1A345BDC2	SSD1A360BDC2	SSD1A360M7RC2
	Contact - Spring	SSD1A320BDC3	SSD1A320M7RC3	SSD1A335BDC3	SSD1A335M7RC3	SSD1A345BDC3	SSD1A360BDC3	SSD1A360M7RC3

SSD modular DIN rail solid state relays, 1NO contact (DC switching)

Output voltage	1...200 VDC	
Control voltage	4...32 VDC	
Frontal width	22.5 mm	
Load current	20 A	30 A
Relay Configuration	SSD1D520BDC1	SSD1D530BDC1

Harmony Control Relays



3-phase Monitoring Relay, 1 output

Power Supply		Self-powered (1)					
Monitoring functions	Phase Loss	Yes	-	Yes	Yes	Yes	Yes
	Phase loss with voltage regeneration	-	Yes	-	-	-	-
	Phase Sequence	Yes	Yes	Yes	Yes	Yes	Yes
	Asymmetry	-	-	Yes	-	Yes	-
	Overvoltage	-	-	-	-	Yes	-
	Undervoltage	-	-	-	Yes	Yes	-
	Overcurrent and Undercurrent	-	-	-	-	-	Yes
Measuring Range		208...480 VAC					
Product References		RM17TG00	RM17TT00	RM17TA00	RM17TU00	RM17TE00	RM35BA10

3-phase Monitoring Relay, 2 outputs

Power Supply		Self-powered (1)						24...240 VAC/DC	
Monitoring functions	Phase Loss	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Phase Sequence	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes
	Asymmetry	-	Yes	-	-	Yes	-	-	-
	Overvoltage	-	-	-	Yes	Yes	Yes	-	-
	Undervoltage	-	-	Yes	Yes	Yes	Yes	-	-
	Overfrequency	-	-	-	-	Yes	-	-	-
	Underfrequency	-	-	-	-	Yes	-	-	-
	Absence of neutral	-	-	-	-	-	Yes	-	-
	Motor temperature via PTC probe	-	-	-	-	-	-	Yes	-
	Elevator Machine room temperature (Over temperature and under temperature)	-	-	-	-	-	-	-	Yes
Measuring Range		208...480 VAC	200...240 VAC 380...480 VAC	200...240 VAC 380...480 VAC	200...240 VAC 380...480 VAC	208...480 VAC	120...277 VAC	208...480 VAC	208...480 VAC
Product References		RM17TG20 RM22TG20	RM22TA31 RM22TA33	RM22TU21 RM22TU23	RM22TR31 RM22TR33	RMNF22TB30 (3)	RM35UB3N30	RM35TM50MW RM35TM250MW	RM35ATW5MW

1-phase Voltage Control Relay

Power Supply		Self-powered (1)				24...240 VAC/DC		380...415 V AC	110...240 VAC/DC
Monitoring functions	Undervoltage	Yes	-	-	-	-	Yes	Yes	-
	Overvoltage	-	-	-	-	Yes	Yes	Yes	-
	Overvoltage or Under-voltage	-	Yes	-	Yes	-	-	-	-
	Overvoltage and Undervoltage in window mode (4)	-	-	Yes	-	-	Yes	Yes	Yes
Relay output		1	2						
Measuring Range		Fixed at 165 VAC	9...15 VDC 65...260 VAC/DC 20...80 VAC/DC	65...260 VAC/DC 20...80 VAC/DC	0.05...5 VAC/DC 1...100 VAC/DC 15...600 VAC/DC	0.05...5 VAC/DC 1...100 VAC/DC 15...500 VAC/DC		15...500 VAC/DC	80...300 VAC/DC
Product References		RM17UAS15315M (adjustable time delay of 3 to 15 minutes)	RM17UAS14 RM17UAS15 RM17UAS16	RM17UBE15 RM17UBE16	RM35UA11MW RM35UA12MW RM35UA13MW	RM22UA21MR RM22UA22MR RM22UA23MR	RM22UA31MR RM22UA32MR RM22UA33MR	RM22UA33MT	RM22UB34

1-phase Current Control Relay

Power Supply		24...240 VAC/DC				380...415 VAC	
Monitoring functions	Undercurrent	-	-	-	-	-	-
	Overcurrent	Yes	Yes	-	-	-	-
	Overcurrent or Under-current	-	-	Yes	Yes	Yes	-
	Overcurrent and Undercurrent in window mode (2)	-	-	-	Yes	Yes	-
Relay output		1	2				
Measuring Range		2...20 A	4 mA...1 A	2...500 mA 0.15...15 A	4 mA...1 A 0.15...15 A	0.15...15 A	
Product References		RM17JC00MW	RM22JA21MR	RM35JA31MW RM35JA32MW	RM22JA31MR RM35JA32MR	RM35JA32MT	

Level Control Relay

Type		Resistive Probes			Discrete Sensor	
Power Supply		380...415 VAC	24...240 VAC/DC			24...240 VAC/DC
Relay output		1	2			1
Measuring Range		5...100 kΩ	0.25...5 kΩ 5...100 kΩ 0.05...1 kΩ			-
Product References		RM22LG11MT	RM22LG11MR	RM22LA32MR RM35LM33MW	RM35LV14MW	

Other Control Relays for your selection

Application	Frequency control	Speed control	Temperature control for elevator machine rooms
Product Reference	RM35HZ21FM	RM35S0MW	RM35ATL0MW RM35ATR5MW

(1) No need for auxiliary voltage to power the control relay. Energy is obtained directly from the line that the control relay is monitoring.

(2) Temperature Control, low threshold: - 1...11°C; high threshold: 34...46°C.

(3) 3-Phase NFC (Near Field Communication) Control Relay.

(4) Relay checks that the controlled value stays between minimum and a maximum threshold.

Harmony Time electronic timing relays



1	Timing relays with screw terminals for DIN rail mounting, 1 contact						
Type	1 function	2 functions	2 functions	1 function	Multifunction	Multifunction	
Functions (1)	A	A, At	L, Li	C	A, At, B, C, H, Ht, D, Di, Ac, Bw	Ad, Ah, N, O, P, Pt, T, Tt, W	
Timing range	0.1 s...100 h						
Type of output/current	1 solid state 0.7 A	1 relay output 1 CO/8 A					
Power supply	24...240 VAC/VDC	24 VDC, 24...240 VAC			12...240 VAC/VDC	24 VDC, 24...240 VAC	
Frontal width	17.5 mm						
Complete product (2)	RE17LAMW	RE17RAMU	RE17RLMU	RE17RCMU	RE17RMMW	RE17RMXMU	
2	Timing relays with screw terminals for DIN rail mounting, 2 contacts						
Type	3 functions	2 functions	Multifunction				
Functions (1)	A, At, Aw	C, Ct	A, At, Aw, C, Ct, D, Dt, Dw, Di, Dit, Diw, H, Ht, Hw, Qg, Qgt, Qgw, Qt, Qtt, Qtw, W, Wt				
Timing range	0.05 s...300 h						
Type of output/current	2 CO/8 A						
Power supply	24 VDC, 24...240 VAC						
Frontal width	22.5 mm						
Complete product	RE22R1MAMR	RE22R2CMR	RE22R2MYMR				
3	Timing relays with NFC technology for DIN rail mounting,screw terminals, 2 contacts						
Type	Multifunction						
Functions (1)	A, Ac, Ad, Ah, Ak, At, B, Bw, C, D, Di, Dt, Dit, H, Ht, L, Li, Lt, Lit, N, O, P, Pt, Qt, Qtt, Tl, Tt, W						
Timing range	0.1 s...999 h						
Type of output/current	2 relay outputs, 8A						
Power supply	24...240 VDC/VAC						
Frontal width	22.5 mm						
Complete product	RENF22R2MMW						
4	Miniature plug-in timing relays for DIN rail mounting						
Function (1)	A (Delay on energization)						
Timing range	0.1 s...100 h						
Type of output/current	2 CO/5 A			4 CO/5 A			
Power supply	24 VDC	120 VAC	230 VAC	24 VDC	120 VAC	230 VAC	
Dimension	21 x 27 mm miniature plug-in						
Complete product	REXL2TMBD	REXL2TMF7	REXL2TMP7	REXL4TMBD	REXL4TMF7	REXL4TMP7	
Socket	RXZE2S108M / RXZE14P			RXZE2S114M / RXZE14P			
5	48 x 48 mm analog plug-in (8-pins) timing relays for DIN rail or front panel mounting						
Type	1 function	4 functions	2 functions	4 functions			
Functions (1)	A	A1, A2, H1, H2	L, Li	A, B, C, Di			
Timing range	0.02 s...300 h						
Type of output/current	1 CO/5 A	1 + 1 (instant.)/5 A	2 CO/5 A				
Power supply	24...240 VAC/VDC						
Dimension	48 x 48 mm analog panel-mounted or plug-in						
Complete product	RE48ATM12MW	RE48AMH13MW	RE48ACV12MW	RE48AML12MW			
Screw connector socket (4)	RUZC2M			RUZC3M			

A: power on-delay relay
 Ac: on-delay & off-delay relay (5)
 Act: on-delay & off-delay relay (5) (6)
 Ad: pulse delayed relay (5)
 Ah: pulse delayed relay (single cycle) (5)
 Ak: asymmetrical on-delay & off-delay relay (5)
 Akt: asymmetrical on-delay & off-delay relay (5) (6)
 At: power on-delay relay (6)
 Aw: power on-delay relay with retrigger/restart control signal
 A1: power on-delay relay (R1 instantaneous, R2 timed)
 A2: power on-delay relay (both R1/R2 timed)
 B: interval relay (5)
 Bw: double interval relay (5)
 C: off-delay relay (5)
 Ct: off-delay relay (6)
 D: symmetrical flashing relay (starting pulse-off)
 Di: symmetrical flashing relay (starting pulse-on)

Dit: symmetrical flashing relay (starting pulse-on) (6)
 Diw: symmetrical flashing relay (starting pulse-on) with retrigger/restart control signal
 Dt: symmetrical flashing relay (starting pulse-off) (6)
 Dw: symmetrical flashing relay (starting pulse-off) with retrigger/restart control signal
 H: interval relay
 He: pulse on de-energization relay
 Ht: interval relay (6)
 Hw: interval relay with retrigger/restart control signal
 H1: interval relay (R1 instantaneous, R2 timed)
 H2: interval relay (both R1/R2 timed)
 K: delay on de-energization relay (without auxiliary supply)
 L: asymmetrical flashing relay (starting pulse-off)
 Li: symmetrical flashing relay (starting pulse-on)
 Lt: symmetrical flashing relay (6)
 N: safeguard relay

O: delayed safeguard relay
 P: pulse delayed relay with fixed pulse length
 Pt: pulse delayed relay with fixed pulse length (6)
 Qc: star-delta timing relay, 1CO output
 Qe: star-delta timing relay, 1 NC + 1 NO output & split common
 Qg: star-delta timing relay, 2 CO outputs & same common
 Qgt: star-delta timing relay, 2 CO outputs & same common (6)
 Qt: star-delta timing relay, 2 CO outputs & split common
 Qtt: star-delta timing relay, 2 CO outputs & split common (6)
 Tt: retriggerable bistable relay with control signal on
 W: interval relay with control signal off
 Wt: interval relay with control signal off (6)

(1) For more details about functions, please refer to the technical descriptions and schemes on our website www.se.com.

(2) For spring terminal version, order RE17●●S, like RE17RMMWS.

(3) With separate contacts.

(4) With mixed contacts.

(5) With control signal.

(6) With pause-summation control signal.



07. Modicon PLC, power supply and transformer, Uninterruptible Power Supply

Modicon PLC: M221



Modicon M221 logic controllers

Applications		Control of simple machines								
Supply voltage		100-240 V ~	24 V ̸	24 V ̸	100-240 V ~	24 V ̸	24 V ̸	100-240 V ~	24 V ̸	24 V ̸
Inputs/outputs	Logic inputs/outputs	16 logic I/O			24 logic I/O			40 logic I/O		
	No. and type of inputs	9 sink/source 24 V ̸ inputs, inc. 4 high-speed inputs			14 sink/source 24 V ̸ inputs, inc. 4 high-speed inputs			24 sink/source 24 V ̸ inputs, inc. 4 high-speed inputs		
	No. and type of outputs	7 relay outputs	7 source transistor outputs, inc. 2 high-speed outputs	7 sink transistor outputs, inc. 2 high-speed outputs	10 relay outputs	10 source transistor outputs, inc. 2 high-speed outputs	10 source transistor outputs, inc. 2 high-speed outputs	16 relay outputs	16 source transistor outputs, inc. 2 high-speed outputs	16 sink transistor outputs, inc. 4 high-speed outputs
	Connection of logic I/O	On removable screw terminal block								
	Analog inputs	2 x 0...10 V analog inputs								
	Connection of analog inputs	On dedicated removable connector								
Logic controller	No Ethernet port	TM221C16R	TM221C16T	TM221C16U	TM221C24R	TM221C24T	TM221C24U	TM221C40R	TM221C40T	TM221C40U
	With embedded Ethernet port	TM221CE16R	TM221CE16T	TM221CE16U	TM221CE24R	TM221CE24T	TM221CE24U	TM221CE40R	TM221CE40T	TM221CE40U



Modicon M221 Book logic controllers

Applications		Control of simple machines		
Supply voltage		24 V ̸		
Inputs/outputs	Logic inputs/outputs	16 logic I/O		32 logic I/O
	No. and type of inputs	8 sink/source 24 V ̸ inputs, inc. 4 high-speed inputs		16 sink/source 24 V ̸ inputs, inc. 4 high-speed inputs
	No. and type of outputs	8 relay outputs		16 source transistor outputs, inc. 2 high-speed outputs
	Connection of logic I/O	On removable screw terminal block or spring terminal block (1)		On HE 10 connector (with the Telefast Modicon ABE7 pre-wired system: connection cables and sub-bases)
	Analog inputs	2 x 0...10 V analog inputs		
	Connection of analog inputs	On dedicated removable connector		
Logic controller	No Ethernet port	TM221M16R		TM221M16T
		TM221M16RG (1)		TM221M16TG (1)
	With embedded Ethernet port	TM221ME16R		TM221ME16T
		TM221ME16RG (1)		TM221ME16TG (1)
				TM221M32TK
				–
				TM221ME32TK
				–

(1) Spring terminal block on references ending in the letter G.

Modicon power supplies and transformers



Regulated switch mode power supplies 10 to 480 W for mounting on rail

Power		10 to 60 W			50 to 480 W		
Input voltage		100...240 V ~			100...240 V ~ and 140...340 V ~ (2)		
Certifications (1)		CE marking, CB Scheme, cULus listed,  recognized, RCM, EAC, NEC class 2 (3)					
Housing		Modular			Book		
Output voltage		5 V ~	12 V ~	24 V ~	12 V ~	24 V ~	48 V ~
Reference (according to output current)	0.4 A	–	–	ABLM1A24004	–	–	–
	0.6 A	–	–	ABLM1A24006	–	–	–
	1 A	–	ABLM1A12010	–	–	–	–
	1.2 A	–	–	ABLM1A24012	–	–	–
	2.1 A	–	ABLM1A12021	–	–	–	–
	2.1 A	–	–	–	–	ABLS1A24021	–
	2.5 A	–	–	ABLM1A24025	–	–	ABLS1A48025
	3.1 A	–	–	–	–	ABLS1A24031	–
	3.6 A	ABLM1A05036	–	–	–	–	–
	3.8 A	–	–	–	–	ABLS1A24038	–
	4.2 A	–	ABLM1A12042	–	–	–	–
	5 A	–	–	–	–	ABLS1A24050	–
	6.2 A	–	–	–	ABLS1A12062	–	–
	10 A	–	–	–	ABLS1A12100	ABLS1A24100	–
	20 A	–	–	–	–	ABLS1A24200	–



Regulated switch mode power supplies 72 to 960 W for mounting on rail (wide input voltage range)

Input voltage		100...120 V ~ and 200...500 V ~ (4)		380...500 V ~
Certifications (1)		CE marking, UL (508), CSA (60950-1), CB Scheme, EAC, RCM, KC		
Compatibility	With function modules	Yes with all Modicon power supply function modules (5)		
Output voltage		24 V ~		
Reference (according to output current)	3 A	ABL8RPS24030	–	–
	5 A	ABL8RPS24050	–	–
	10 A	ABL8RPS24100	–	–
	20 A	ABL8RPM24200	–	ABL8WPS24200
	40 A	–	–	ABL8WPS24400

Regulated switch mode power supplies 100 to 240 W for mounting on panel (6)

Input voltage		100...240 V ~	
Certifications (1)		CE marking, CB Scheme, cULus listed, CULus recognized, RCM, EAC	
Output voltage		12 V ~	24 V ~
Reference (according to output current)	4.5 A	–	ABLP1A24045
	6.2 A	–	ABLP1A24062
	8.5 A	ABLP1A12085	–
	10 A	–	ABLP1A24100

(1) Please consult detail on certifications for each reference in the individual datasheet available on our website www.se.com.

(2) Depending on product reference, consult our product datasheet on www.se.com.

(3) NEC class 2 for book only for ABLM●●, ABLS1A24021, ABLS1A24031, and ABLS1A24038.

(4) Except ABL8RPM24200: 100...240 V and 200...240 V ~.

(5) Compatible modules: buffer module, batteries and battery control modules, redundancy module, and discriminating downstream protection module.

(6) Mounting on DIN rail possible with additional accessories; ABLP1A01 for all references except ABLP1A24100, ABLP1A02 for ABLP1A24100.

For more information, see the Modicon power supply catalog on our website www.se.com.

Modicon power supplies and transformers



Function modules for continuity of service (only compatible with ABL8RP/ABL8WP power supplies)				
Type of function		Battery modules (3) (4)	Solutions to microbreaks and power outages (4)	Redundancy module
Input voltage		24 V ~		
Certifications (2)		CE marking, UL (508), CSA (60950-1), EAC, RCM		
Compatibility		With power supplies Yes, but only with ABL8RP/ABL8WP Modicon power supply		
Output voltage		24 V ~		
Reference (according to output current)	3 Ah	ABL8BPK24A03	–	–
	7 Ah	ABL8BPK24A07	–	–
	12 Ah	ABL8BPK24A12	–	–
	20 A	–	ABL8BBU24200 (1)	–
	40 A	–	ABL8BBU24400 (1)	ABL8RED24400

(1) Similar offer also available, see Schneider Electric DC UPS (see page below).

(2) Please consult detail on certifications for each reference in the individual datasheet available on our website www.se.com.

(3) Supplied with 20 or 30 A fuse, depending on the model.

(4) Holding time depending on the load. Please refer to the table of compatibility of battery module with holding time in the Modicon power supply catalog on our website www.se.com.

Uninterruptible Power Supply (UPS)



1

Easy UPS 24V DC DIN Rail Industrial					
Power Capacity	240 W	480 W			
Input/Output	Hardwire/24 V ---				
Input voltage range	21.6 to 28.6 V ---				
Mounting type	DIN rail mount				
Runtime	10 mins @ 10 A	5 mins @ 20 A			
Communication	I/O Relay, LEDs				
Number of batteries in parallel	4				
Safety Certifications	UL, TUV, CE and UKCA listed				

2

Easy UPS		
Series	1 Ph BVS Series	1 Ph SMV Series
Nominal Input Voltage Input Frequency	230 V 50/60 Hz (Auto sensing)	
Nominal Output Voltage Output Frequency	230 V ~ 50 Hz or 60 Hz +/- 1 Hz	
Power Capacity	300 W/500 VA to 600 W/1,000 VA	525 W/750 VA to 2,100 W/3,000 VA
Topology	Line interactive	
Battery type	Maintenance-free sealed lead-acid battery	

3

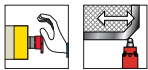
Easy UPS 1 Ph On-line					
Model	SRV 1,000 VA	SRV 2,000 VA	SRV 3,000 VA	SRV 6,000 VA	SRV 10,000 VA
Nominal Input Voltage Input Frequency	230 V ~ 50/60 Hz				
Output Voltage Frequency	220/230/240 V ~ 50/60 Hz +/-0.5%			220/230/240 V ~ 50/60 Hz +/-0.1%	
Output Power Capacity (Watts/VA)	800 W/1,000 VA	1,600 W/2,000 VA	2,400 W/3,000 VA	6,000 W/6,000 VA	10,000 W/10,000 VA
Topology	Online				
Mounting type	Rack & Tower				
Battery type	Maintenance-free sealed lead-acid battery				

Note: For more information depending on product reference, consult our product datasheet on www.se.com.



08. Harmony safety modules and Modicon safety controllers

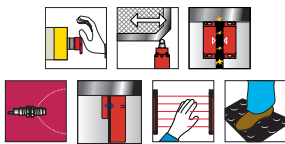
Harmony safety modules



Function: Emergency stop, guard switch

Harmony safety modules conforming to Cat. 4, PL e, SIL3, and STOP category 0

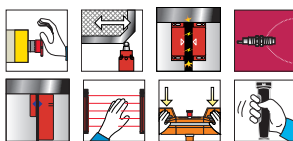
Terminal type		Captive screw clamp terminal	
Connections		Integrated in module	Removable from module
Number of instantaneous safety output contacts		3 NO	3 NO
Number of additional output contacts		1 solid state	1 solid state
Reference	24 VAC/VDC	XPSBAC14AP	XPSBAC14AC
	48...240 VAC/DC	XPSBAC34AP	XPSBAC34AC



Function: Emergency stop, switch monitoring, protective guard applications, coded magnetic switch monitoring, safety mats/edges, safety light curtain or RFID switch monitoring

Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0 (for XPSUAK) and STOP category 1 (for XPSUAT)

Terminal type		Captive screw clamp terminal		Spring clamp terminal	
Connections		Removable from module			
Number of instantaneous safety circuits		3 NO	2 NO + 1 NC	3 NO	2 NO + 1 NC
Number of delayed or immediate contacts		3 NO + 1 NC	–	3 NO + 1 NC	–
Number of additional outputs		1 solid state + 1 pulsed diagnostic output	1 pulsed diagnostic output	1 solid state + 1 pulsed diagnostic output	1 pulsed diagnostic output
Reference	24 VAC/VDC	–	XPSUAK12AP	–	XPSUAK12AC
		0...15 min	XPSUAT13A3AP	XPSUAT13A3AC	–
	48...240 VAC/VDC	–	XPSUAK32AP	–	XPSUAK32AC
		0...15 min	XPSUAT33A3AP	XPSUAT33A3AC	–



Function: Emergency stop, protective guard, enabling switch or two-hand control monitoring, coded magnetic switch, SIL2 proximity switches, safety light curtain or RFID switch monitoring (1) (2)

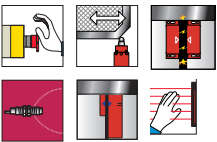
Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0

Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Type conforming to standard EN5074		IIIA or IIIC	IIIA or IIIC
Number of instantaneous safety circuits		2 NO	2 NO
Maximum number of two-hand control or enabling switch monitoring (Cat. 4, PL e, SIL3)		1	1
Maximum number of safety light curtain or RFID switch monitoring (Cat. 4, PL e, SIL3)		2	2
Maximum number of safety coded magnetic switches or other safety devices (Cat. 4, PL e, SIL3)		2	2
Number of additional outputs		1 pulsed diagnostic output	1 pulsed diagnostic output
Reference	24 VAC/VDC	XPSUS12AP	XPSUS12AC
	48...240 VAC/VDC	XPSUS32AP	XPSUS32AC

(1) Enabling switch and two-hand control with automatic start only.

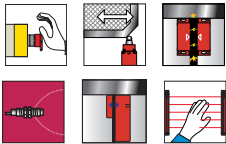
(2) Can also be used with XY2SB71 or XY2SB714 two-hand control stations.

Harmony safety modules



Function: Emergency stop, switch monitoring, protective guard applications, coded magnetic switch monitoring, safety light curtain or RFID switch monitoring

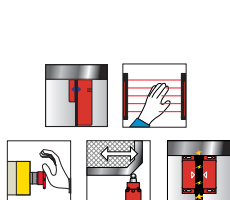
Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0			
Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Number of instantaneous safety circuits		3 NO	3 NO
Number of additional outputs		1 pulsed diagnostic output	1 pulsed diagnostic output
Reference	24 VAC/VDC	XPSUAF13AP	XPSUAF13AC
	48...240 VAC/VDC	XPSUAF33AP	XPSUAF33AC



Function: Emergency stop, switch monitoring, protective guard applications, coded magnetic switch monitoring, safety light curtain or RFID switch monitoring

Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0			
Terminal type		Captive screw clamp terminal	Spring clamp terminal
Connections		Removable from module	
Number of instantaneous safety circuits		3 NO + 1 NC	3 NO + 1 NC
Maximum number of safety functions for Cat. 4, PL e, SIL3		6	6
Number of additional outputs		1 pulsed diagnostic output	1 pulsed diagnostic output
Reference	24 VAC/VDC	XPSUDN13AP	XPSUDN13AC
	48...240 VAC/VDC	XPSUDN33AP	XPSUDN33AC

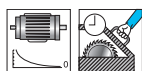
Harmony safety modules



Function: Emergency stop, switch monitoring and protective guard applications

Harmony safety modules conforming to Cat. 4, PL e, SIL3, and STOP category 1

Terminal type			Captive screw clamp terminal	Spring clamp terminal
Connections			Removable from module	
Number of instantaneous safety output contacts			2 NO	
Number of delayed or immediate output contacts			1 NO	
Number of additional outputs			1 solid-state	
Reference	24 VAC/DC	0...15 min	XPSBAT12A1AP	XPSBAT12A1AC



Function: Zero speed monitoring with delayed access to dangerous area

Harmony safety modules conforming to Cat. 3, PL e, SIL3, and STOP category 1

Terminal type	Captive screw clamp terminal		Spring clamp terminal
Connections	Removable from module		
Number of safety delayed output contact	1 NO (1)		
Number of additional outputs	1 Solid-state + 1 pulsed diagnostic output		
Voltage threshold selection	50...500 mV		
Time delay selection	0.5...60 s		
Reference	24 VAC/DC	XPSUVN11AP	XPSUVN11AC
	48...240 VAC/DC	XPSUVN31AP	XPSUVN31AC



Function: Increasing the number of safety contacts (2)

Harmony safety modules conforming to Cat. 4, PL e, SILCL3, STOP category 0

Terminal type	Captive screw clamp terminal		Spring clamp terminal
Connections	Removable from module		
Number of instantaneous safety circuits	4 NO		4 NO
Number of additional outputs	2 NC		2 NC
Reference	24 VAC/VDC	XPSUEP14AP	XPSUEP14AC
	48...240 VAC/VDC	XPSUEP34AP	XPSUEP34AC

(1) To increase the number of safety delayed output contacts, please consider to add the appropriate XPSUEP range extension outputs.

(2) This module can be used with just XPSU safety modules and is mounted via a side expansion connection included with the product, expect for XPSUAB.

Modicon MCM modular safety controllers



Safety controllers CPU

Safety controllers conforming to Cat. 4, PL e, SIL3

Description		Safety controller CPU	CPU + backplane connector	Safety controller CPU	CPU + backplane connector
Connections		Removable from controller			
Number and type of inputs		8 digital inputs + 2 for Start/Restart interlock		8 digital inputs + 4 for Start/Restart interlock	
Number and type of outputs		2 OSSD pairs + 4 test outputs + 2 status outputs		4 OSSD + 4 test outputs + 4 status outputs	
Terminal type		Screw (1)			
Reference	24 VDC	XPSMCMCP0802	XPSMCMCP0802BC	XPSMCMC10804	XPSMCMC10804B



Safe expansion modules

Safe expansion I/O modules

Description		Safe mixed I/O expansion modules		Safe input expansion modules			
Number and type of inputs		8 digital inputs + 2 for Start/Restart interlock	8 digital inputs + 4 for Start/Restart interlock	8 digital inputs	16 digital inputs	12 digital inputs	4-channel analogic inputs 0...20 mA/0...10 V
Number and type of outputs		2 OSSD pairs + 4 test outputs + 2 status outputs	4 single OSSD + 4 test outputs + 4 status outputs	4 test outputs	4 test outputs	8 test outputs for 4-wire safety mats	—
Resolution		—					
Terminal type		Screw (1)					
Reference	24 VDC	XPSMCMMX0802	XPSMCMMX0804 (2)	XPSMCMCI0800	XPSMCMCI1600	XPSMCMCI1200MT	XPSMCMAI0400 (2)



Safe output expansion modules

Description		Safe digital expansion modules		Safe relay output modules (without expansion bus connection, wired externally)		Safe relay output modules (with expansion bus connection)	
Number and type of inputs		2 for Start/Restart interlock	4 for Start/Restart interlock	1 for Start/Restart interlock	2 for Start/Restart interlock	4 for Start/Restart interlock	
Number and type of outputs		2 OSSD pairs + 2 status outputs	4 OSSD pairs + 4 status outputs	2 relays for 1 output (2 NO +1 NC)	4 relays for 2 independent outputs (4 NO + 2 NC)	4 relays	4 relays with 8 status outputs
Terminal type		Screw (1)					
Reference	24 VDC	XPSMCMDO0002	XPSMCMDO0004	XPSMCMER0002	XPSMCMER0004	XPSMCMRO0004	XPSMCMRO0004D



Safe speed monitoring modules

Description	Safe speed monitoring modules					
Number and type of inputs	- 1 Sin/Cos encoder and 2 proximity sensor inputs	- 2 Sin/Cos encoders and 2 proximity sensor inputs	- 1 TTL encoder and 2 proximity sensor inputs	- 2 TTL encoders and 2 proximity sensor inputs	- 1 HTL encoder and 2 proximity sensor inputs	- 2 HTL encoders and 2 proximity sensor inputs
Connector type	- 1x RJ 45 (ENC1) - Proximity sensor connection via terminal blocks	- 2x RJ 45 (ENC1/ENC2) - Proximity sensor connection via terminal blocks	- 1x RJ 45 (ENC1) - Proximity sensor connection via terminal blocks	- 2x RJ 45 (ENC1/ENC2) - Proximity sensor connection via terminal blocks	- 1x RJ 45 (ENC1) - Proximity sensor connection via terminal blocks	- 2x RJ 45 (ENC1/ENC2) - Proximity sensor connection via terminal blocks
Terminal type	Screw (1)					
Reference	XPSMCMEN0100SC	XPSMCMEN0200SC (3)	XPSMCMEN0100TT	XPSMCMEN0200TT	XPSMCMEN0100HT	XPSMCMEN0200HT

(1) References are given for products with a screw connector. For equivalent references with a spring clamp connector, add a "G" at the end of the reference. For example, XPSMCMMX0802 becomes XPSMCMMX0802G.

(2) Modules can be used with just the CPU XPSMCMC10804 or XPSMCMC10804BC CPU (screw or spring terminal type).

(3) When monitoring of only 2 proximity sensors is required, order an XPSMCMEN0200.

Modicon MCM modular safety controllers



Safe expansion modules (continued)

Safe communication expansion modules

Description	Safe RS 485 bus expansion module for remote extension	
Characteristics	1 connection interface: single channel transmitter/receiver network connection	2 connections interface: dual channel transmitter/receiver network connection
Terminal type	Screw (1)	
Reference	XPSMCMCO0000S1	XPSMCMCO0000S2



Non-Safe communication modules

Description	Non-Safe communication modules					
Fieldbus/network type	CANopen	Ethernet IP	EtherCAT	Modbus Serial (RTU)	Modbus TCP	Profibus DP
Fieldbus connector type	SUB-D 9-way (female)	1x RJ 45 (in/out)	2x RJ 45 (in/out)	1x RJ 45	1x RJ 45 (in/out)	SUB-D 9-way (male)
Terminal type	Screw (1)					
Reference	XPSMCMCO0000CO	XPSMCMCO0000EI	XPSMCMCO0000EC	XPSMCMCO0000MB	XPSMCMCO0000EM	XPSMCMCO0000PB

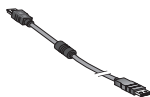
Software

Description	SoSafe configurable software
Application	To configure a logic connection between the inputs and outputs of the XPSMCMCP0802 and XPSMCMC10804 safety controller CPU (4) and the components of the application being developed
PC hardware requirements	RAM: 256 MB, Hard disk $\geq$ 300 MB of free space USB connector: 1.1 or 2.0, CD-ROM drive
PC software requirements	Windows XP with Service Pack 3 installed or Windows Vista, 32-bit, or Windows 7 or 8.1, 32-bit and 64-bit Microsoft Framework 3.5 installed on the PC
Reference	Free software available to download from www.se.com



Accessories

Description	Backplane expansion connector (2)	Memory card
Application	To connect the various expansion modules to the safety controller CPU	To save configuration data for subsequent transfer to a new device without using a PC
Reference	XPSMCMCN0000SG	XPSMCMME0000



Description	Configuration cable	RS 485 shielded cables			Encoder splitter cables	
Use	For software configuration, between a PC, the safety controller CPU, and the fieldbus communication modules. Equipped with 2x USB connectors: USB A and USB mini B	Between two Safe communication expansion modules			Between SIN/ COS safe speed monitoring module and PacDrive M drives and the associated servo motors	Between SIN/ COS safe speed monitoring modules and Lexium 62 (PacDrive 3), Lexium 32 servo drives and the associated servo motors
Reference	TCSXCNAMUM3P	TSXSXCMCN010	TSXSXCMCN025	TSXSXCMCN050	TSXESPPM001 (3)	TSXESPP3001 (3)

(1) References are given for products with a screw terminal. For equivalent references with a spring clamp connector, add a "G" at the end of the reference. For example, XPSMCMCO0000S1 becomes XPSMCMCO0000S1G.

(2) This connector only needs to be ordered for the XPSMCMCP0802 or XPSMCMC10804 safety controller when it is connected to expansion modules.

(3) With 1 m cable. For other cable lengths, replace the last number of the reference with 3 for a 3 m cable or 5 for a 5 m cable.

(4) Consider all CPUs with screw and spring clamp terminals.

A man with short dark hair and a beard, wearing a grey polo shirt, is shown in profile from the chest up. He is reaching out with his right hand to press a button on a control panel. The control panel is mounted on a grey metal structure and features a red emergency stop button above it. A yellow and black striped safety bar is visible on the right. The background is a blurred industrial environment with glass partitions and overhead lights. A semi-transparent green horizontal bar is positioned behind the man's arm.

09. Universal enclosures

Spacial SDB, SBM, and SBX steel industrial boxes



Spacial SDB steel industrial boxes

Degree of protection: IP55. Mechanical protection: IK07. Finish: painted with textured epoxy-polyester resin in RAL7035 light gray

Type of box				Metal junction boxes
				Without knock-outs
Type of cover				Low cover
Reference according to dimensions (H x W x D) in mm	85	85	49	NSYDBN88
	105	105	49	NSYDBN1010
	155	105	61	NSYDBN1510
	206	156	83	NSYDBN2015
	256	206	93	NSYDBN2520
	307	257	116	NSYDBN3025



Spacial SBM steel industrial boxes

Degree of protection: IP66. Mechanical protection IK10. Finish: painted with textured epoxy-polyester resin in RAL7035 light gray

Type of box				Steel industrial boxes
				Flat boxes
Reference according to dimensions (H x W x D) in mm	150	150	80	NSYSBM15158
	150	150	120	NSYSBM151512
	150	200	80	NSYSBM15208
	150	200	120	NSYSBM152012
	150	300	80	NSYSBM15308
	150	300	120	NSYSBM153012
	150	400	80	NSYSBM15408
	150	400	120	NSYSBM154012
	200	200	80	NSYSBM20208
	200	200	120	NSYSBM202012
	200	300	80	NSYSBM20308
	200	300	120	NSYSBM203012
	200	400	80	NSYSBM20408
	200	400	120	NSYSBM204012
	200	500	80	NSYSBM20508
	200	500	120	NSYSBM205012
	200	600	80	NSYSBM20608
	200	600	120	NSYSBM206012
	200	800	120	NSYSBM208012
	300	300	120	NSYSBM303012
	300	400	120	NSYSBM304012
	300	500	120	NSYSBM305012
	300	600	120	NSYSBM306012
	300	800	120	NSYSBM308012
	400	400	120	NSYSBM404012
	400	500	120	NSYSBM405012
	400	600	120	NSYSBM406012
	400	800	120	NSYSBM408012



Spacial SBX stainless steel industrial boxes

Degree of protection: IP66, stainless steel AISI 304L

Type of box				Stainless steel industrial boxes
Reference according to dimensions (H x W x D) in mm	150	150	80	NSYSBX15158
	150	300	80	NSYSBX15308
	200	200	80	NSYSBX20208
	200	300	80	NSYSBX20308
	200	400	120	NSYSBX204012
	300	300	120	NSYSBX303012

Spacial CRN and Spacial S3D steel wall-mounting enclosures



Spacial CRN and Spacial S3D (1) multi-purpose steel wall-mounting enclosures

Degree of protection: IP66 (single door), IP55 (double door). Mechanical protection: IK10. Finish: painted with textured epoxy-polyester resin in RAL7035 light grey

Range					Spacial CRN		Spacial S3D		Mounting plate
Composition					With plain mounting plate	Without mounting plate	With plain mounting plate	Without mounting plate	Plain mounting plate
Reference according to dimensions (H x W x D) in mm, and number of doors	200	200	150	1	—	NSYCRN22150	—	—	NSYMM22
	200	300	150	1	—	NSYCRN23150	—	—	NSYMM32
	250	200	150	1	NSYCRN252150P	NSYCRN252150	—	—	NSYMM2520
	300	200	150	1	—	—	NSYS3D3215P	NSYS3D3215	NSYMM32
	300	250	150	1	NSYCRN325150P	NSYCRN325150	NSYS3D32515P	NSYS3D32515	NSYMM3025
	300	250	200	1	NSYCRN325200P	NSYCRN325200	—	—	NSYMM3025
	300	300	150	1	NSYCRN33150P	NSYCRN33150	NSYS3D3315P	NSYS3D3315	NSYMM33
	300	300	200	1	NSYCRN33200P	NSYCRN33200	NSYS3D3320P	NSYS3D3320	NSYMM33
	300	400	150	1	—	—	NSYS3D3415P	NSYS3D3415	NSYMM43
	300	400	200	1	—	NSYCRN34200	NSYS3D3420P	NSYS3D3420	NSYMM43
	300	450	150	1	—	NSYCRN345150	—	—	NSYMM3045
	400	300	150	1	NSYCRN43150P	NSYCRN43150	NSYS3D4315P	NSYS3D4315	NSYMM43
	400	300	200	1	NSYCRN43200P	NSYCRN43200	NSYS3D4320P	NSYS3D4320	NSYMM43
	400	400	200	1	NSYCRN44200P	NSYCRN44200	NSYS3D4420P	NSYS3D4420	NSYMM44
	400	600	200	1	—	—	NSYS3D4620P	NSYS3D4620	NSYMM64
	400	600	250	1	NSYCRN46250P	NSYCRN46250	NSYS3D4625P	NSYS3D4625	NSYMM64
	400	600	300	1	—	NSYCRN46300	—	—	NSYMM64
	500	300	200	1	—	—	NSYS3D5320P	NSYS3D5320	NSYMM53
	500	400	150	1	NSYCRN54150P	NSYCRN54150	—	—	NSYMM54
	500	400	200	1	NSYCRN54200P	NSYCRN54200	NSYS3D5420P	NSYS3D5420	NSYMM54
	500	400	250	1	NSYCRN54250P	NSYCRN54250	NSYS3D5425P	NSYS3D5425	NSYMM54
	500	500	200	1	—	—	NSYS3D5520P	NSYS3D5520	NSYMM55
	500	500	250	1	NSYCRN55250P	NSYCRN55250	NSYS3D5525P	NSYS3D5525	NSYMM55
	600	400	150	1	NSYCRN64150P	NSYCRN64150	—	—	NSYMM64
	600	400	200	1	NSYCRN64200P	NSYCRN64200	NSYS3D6420P	NSYS3D6420	NSYMM64
	600	400	250	1	NSYCRN64250P	NSYCRN64250	NSYS3D6425P	NSYS3D6425	NSYMM64
	600	500	150	1	NSYCRN65150P	NSYCRN65150	—	—	NSYMM65
	600	500	200	1	NSYCRN65200P	NSYCRN65200	—	—	NSYMM65
	600	500	250	1	NSYCRN65250P	NSYCRN65250	NSYS3D6525P	NSYS3D6525	NSYMM65
	600	600	200	1	NSYCRN66200P	NSYCRN66200	NSYS3D6620P	NSYS3D6620	NSYMM66
	600	600	250	1	NSYCRN66250P	NSYCRN66250	NSYS3D6625P	NSYS3D6625	NSYMM66
	600	600	300	1	NSYCRN66300P	NSYCRN66300	NSYS3D6630P	NSYS3D6630	NSYMM66
	600	600	400	1	—	—	NSYS3D6640P	NSYS3D6640	NSYMM66
	600	800	300	1	—	NSYCRN68300	NSYS3D6830P	NSYS3D6830	NSYMM86
	700	500	200	1	NSYCRN75200P	NSYCRN75200	—	—	NSYMM75
	700	500	250	1	NSYCRN75250P	NSYCRN75250	NSYS3D7525P	NSYS3D7525	NSYMM75
	800	600	200	1	NSYCRN86200P	NSYCRN86200	NSYS3D8620P	NSYS3D8620	NSYMM86
	800	600	250	1	NSYCRN86250P	NSYCRN86250	NSYS3D8625P	NSYS3D8625	NSYMM86
	800	600	300	1	NSYCRN86300P	NSYCRN86300	NSYS3D8630P	NSYS3D8630	NSYMM86
	800	600	400	1	—	NSYCRN86400	NSYS3D8640P	NSYS3D8640	NSYMM86
	800	800	200	1	NSYCRN88200P	NSYCRN88200	—	—	NSYMM88
	800	800	250	1	—	—	NSYS3D8825P	NSYS3D8825	NSYMM88
	800	800	300	1	NSYCRN88300P	NSYCRN88300	NSYS3D8830P	NSYS3D8830	NSYMM88
	800	1000	300	1	—	—	NSYS3D81030P	NSYS3D81030	NSYMM108
	800	1000	300	2	—	NSYCRN810300D	—	—	NSYMM108
	800	1200	300	2	—	NSYCRN812300D	NSYS3D81230DP	NSYS3D81230D	NSYMM128
	1000	600	250	1	NSYCRN106250P	NSYCRN106250	NSYS3D10625P	NSYS3D10625	NSYMM106
	1000	600	300	1	NSYCRN106300P	NSYCRN106300	NSYS3D10630P	NSYS3D10630	NSYMM106
	1000	600	400	1	—	NSYCRN106400	NSYS3D10640P	NSYS3D10640	NSYMM106
	1000	800	250	1	NSYCRN108250P	NSYCRN108250	NSYS3D10825P	NSYS3D10825	NSYMM108
	1000	800	300	1	NSYCRN108300P	NSYCRN108300	NSYS3D10830P	NSYS3D10830	NSYMM108
	1000	800	400	1	—	NSYCRN108400	NSYS3D10840P	NSYS3D10840	NSYMM108
	1000	1000	300	1	—	—	NSYS3D101030P	NSYS3D101030	NSYMM1010
	1000	1000	300	2	—	NSYCRN1010300D	—	—	NSYMM1010
	1000	1200	300	2	—	NSYCRN1012300D	NSYS3D101230DP	NSYS3D101230D	NSYMM1210
	1000	1200	400	2	—	NSYCRN1012400D	NSYS3D101240DP	NSYS3D101240D	NSYMM1210
	1200	600	300	1	—	NSYCRN126300	NSYS3D12630P	NSYS3D12630	NSYMM126
	1200	600	400	1	—	NSYCRN126400	NSYS3D12640P	NSYS3D12640	NSYMM126
	1200	800	300	1	—	NSYCRN128300	NSYS3D12830P	NSYS3D12830	NSYMM128
	1200	800	400	1	—	NSYCRN128400	NSYS3D12840P	NSYS3D12840	NSYMM128
	1200	1000	300	1	—	—	NSYS3D121030P	NSYS3D121030	NSYMM1210
	1200	1000	300	2	—	NSYCRN1210300D	—	—	NSYMM1210
	1200	1000	400	2	—	NSYCRN1210400D	NSYS3D121040DP	NSYS3D121040D	NSYMM1210
	1200	1200	300	2	—	NSYCRN1212300D	NSYS3D121230DP	NSYS3D121230D	NSYMM1212
	1200	1200	400	2	—	NSYCRN1212400D	NSYS3D121240DP	NSYS3D121240D	NSYMM1212
	1400	1000	300	2	—	NSYCRN1410300D	NSYS3D141030DP	NSYS3D141030D	NSYMM1410

- (1) Multi-purpose enclosures are empty enclosures meeting the majority of application requirements. The Spacial S3D offer also comprises enclosures for specific applications, including electromagnetic compatibility (EMC), Voice/Data/Image (VDI), human-machine interface (HMI), modular distribution, outdoor installation, and hazardous environments (ATEX, seismic, or nuclear). In order to check the availability of this range in your country, please contact your local Schneider Electric representative.
- (2) In order to check the availability of this range in your country, please contact your local Schneider Electric representative.

Thalassa insulating industrial boxes and wall-mounting enclosures



Thalassa TBS - TBP insulating industrial boxes

Degree of protection: IP66. Mechanical protection: IK07 (ABS boxes) and IK08 (PC boxes). Color: RAL7035 light gray

Material				ABS		PC	
Type of cover				Opaque cover	Transparent cover	Opaque cover	Transparent cover
Reference according to dimensions (H x W x D) in mm	74	74	54	NSYTBS775	–	NSYTBP775	–
	89	89	54	NSYTBS885	–	NSYTBP885	–
	116	74	62	NSYTBS1176	–	NSYTBP1176	–
	116	116	62	NSYTBS11116	–	NSYTBP11116	–
	138	93	72	NSYTBS1397	NSYTBS1397T	NSYTBP1397	NSYTBP1397T
	164	121	87	NSYTBS16128	NSYTBS16128T	NSYTBP16128	NSYTBP16128T
	192	121	87	NSYTBS19128	NSYTBS19128T	NSYTBP19128	NSYTBP19128T
	192	164	87	NSYTBS19168	NSYTBS19168T	NSYTBP19168	NSYTBP19168T
	241	194	87	NSYTBS24198	NSYTBS24198T	NSYTBP24198	NSYTBP24198T
	241	194	107	NSYTBS241910	NSYTBS241910T	NSYTBP241910	NSYTBP241910T
	291	241	88	NSYTBS29248	NSYTBS29248T	NSYTBP29248	NSYTBP29248T
	291	241	128	NSYTBS292412	NSYTBS292412T	NSYTBP292412	NSYTBP292412T
341	291	128	NSYTBS342912	NSYTBS342912T	NSYTBP342912	NSYTBP342912T	



Thalassa PLS polyester industrial boxes

Degree of protection: IP66. Mechanical protection: IK09. Color: RAL7035 light gray

Material				Polyester		
Type of cover				Transparent PC cover	Opaque PC cover	Opaque polyester cover
Reference according to dimensions (H x W x D) in mm	180	270	180	NSYPLS1827G	NSYPLSC1827G	NSYPLSP1827G
	270	270	180	NSYPLS2727G	NSYPLSC2727G	NSYPLSP2727G
	270	270	230	NSYPLS2727AG	NSYPLSC2727AG	—
	270	360	180	NSYPLS2736G	NSYPLSC2736G	NSYPLSP2736G
	270	360	230	NSYPLS2736AG	NSYPLSC2736AG	—
	270	540	180	NSYPLS2754G	NSYPLSC2754G	NSYPLSP2754G
	270	540	230	NSYPLS2754AG	NSYPLSC2754AG	—
	360	360	180	NSYPLS3636G	NSYPLSC3636G	NSYPLSP3636G
	360	540	180	NSYPLS3654G	NSYPLSC3654G	NSYPLSP3654G
	360	540	230	NSYPLS3654AG	NSYPLSC3654AG	—
	360	720	230	NSYPLS3672AG	NSYPLSC3672AG	—
	540	540	180	NSYPLS5454G	NSYPLSC5454G	NSYPLSP5454G
540	540	230	NSYPLS5454AG	NSYPLSC5454AG	—	
540	720	230	NSYPLS5472AG	NSYPLSC5472AG	—	



Thalassa PLM polyester wall-mounting enclosures

Degree of protection: IP66. Mechanical protection: IK10 (IK08 for transparent doors). Color: RAL7035 light gray

Material				ABS/PC		Polyester			
Type of door				Plain door	Transparent (IK08)	Plain door	Transparent (IK08)	Plain door with 3-point closure	Transparent (IK08) with 3-point closure
Reference according to dimensions (H x W x D) in mm	310	215	160	NSYPLM32G	NSYPLM32TG	–	–	–	–
	308	255	160	–	–	NSYPLM3025G	NSYPLM3025TG	–	–
	430	330	200	–	–	NSYPLM43G	NSYPLM43TG	NSYPLM43VG	NSYPLM43TVG
	530	430	200	–	–	NSYPLM54G	NSYPLM54TG	NSYPLM54VG	NSYPLM54TVG
	647	436	250	–	–	NSYPLM64G	NSYPLM64TG	NSYPLM64VG	NSYPLM64TVG
	747	536	300	–	–	NSYPLM75G	NSYPLM75TG	NSYPLM75VG	NSYPLM75TVG
	847	636	300	–	–	NSYPLM86G	NSYPLM86TG	NSYPLM86VG	NSYPLM86TVG
	1056	852	350	–	–	NSYPLM108G	NSYPLM108TG	–	–

Lighting accessories and ClimaSys ventilation systems



LED lamps

Type of lamp	Cost-effective LED lamps			Portable LED lamps
Voltage (V)	120/230 AC		24/48 DC	120/230 AC
Frequency (Hz)	50 - 60		—	50 - 60
Power (W)	5	10	5	10
Power factor	0.8	0.9	1	0.5
Lumens (lm)	500	1100	470	1100
Reference	NSYLAMT5LD1	NSYLAMT5LD2	NSYLAMT5LD1VDC	NSYLAMPORLTD



Type of lamp			Multi-fixing LED lamps and power cables						
Voltage (V)			120/230 AC			120 AC		24/48 DC	230 AC
Frequency (Hz)			50 - 60						
Power (W)			10						
Lumens (lm)			640						
Standards			IEC			UL	IEC/UL		
Type of socket			SCHUKO	UTE	BRITISH	USA	Without socket		
Reference	LED lamps		NSYLAMLDS	NSYLAMLDF	NSYLAMLDB	NSYLAMLDU	NSYLAMLDD	NSYLAMLDDVDC	NSYLAMLDD with presence detector
	Power cables	IEC	NSYLAM3M ⁽¹⁾			–	NSYLAM3M ⁽¹⁾	NSYLAM3MDC	NSYLAM3M ⁽¹⁾
		UL	–			NSYLAM3MUL ⁽¹⁾	NSYLAM3MUL ⁽¹⁾	NSYLAM3MDCUL	NSYLAM3MUL ⁽¹⁾
	Inter-connexion cables	IEC	NSYLAM1M ⁽¹⁾			–	NSYLAM1M ⁽¹⁾	–	NSYLAM1M ⁽¹⁾

(1) For orange cables, add N to the end of the reference (example: NSYLAM3MN).



ClimaSys CV ventilation systems

Degree of protection: IP54

Color: RAL 7035 light gray

Fan flow (m³/h) (2)	Voltage (V)	Fan reference	Outlet grid reference
38	115	NSYCVF38M115PF	NSYCAG92LPF
	230	NSYCVF38M230PF	NSYCAG92LPF
85	115	NSYCVF85M115PF	NSYCAG125LPF
	230	NSYCVF85M230PF	NSYCAG125LPF
165	115	NSYCVF165M115PF	NSYCAG223LPF
	230	NSYCVF165M230PF	NSYCAG223LPF
300	115	NSYCVF300M115PF	NSYCAG223LPF
	230	NSYCVF300M230PF	NSYCAG223LPF
560	115	NSYCVF560M115PF	NSYCAG291LPF
	230	NSYCVF560M230PF	NSYCAG291LPF
850	115	NSYCVF850M115PF	NSYCAG291LPF
	230	NSYCVF850M230PF	NSYCAG291LPF
	400	NSYCVF850M400PF	NSYCAG291LPF

ClimaSys CV smart ventilation systems (1)

Degree of protection: IP54

Color: RAL 9005 semi-transparent black

Fan flow (m³/h) (2)	Voltage (V)	Smart fan reference (3)	Smart grid reference (4)
34	115	NSYCVF38M115DG	NSYCAG92DG
	230	NSYCVF38M230DG	NSYCAG92DG
74	115	NSYCVF85M115DG	NSYCAG125DG
	230	NSYCVF85M230DG	NSYCAG125DG
142	115	NSYCVF165M115DG	NSYCAG223DG
	230	NSYCVF165M230DG	NSYCAG223DG
259	115	NSYCVF300M115DG	NSYCAG223DG
	230	NSYCVF300M230DG	NSYCAG223DG
502	115	NSYCVF560M115DG	NSYCAG291DG
	230	NSYCVF560M230DG	NSYCAG291DG
638	115	NSYCVF850M115DG	NSYCAG291DG
	230	NSYCVF850M230DG	NSYCAG291DG
731	400	NSYCVF850M400DG	NSYCAG291DG

(1) Smart fan has to be connected to a controller to relay information and alarms (see table below).

(2) Free flow rate at 50 Hz.

(3) Supply of NSYCV●●●DG fan includes: 1 fan sensor (rpm&Tor measurement), 1 dirt filter sensor.

(4) Supply of NSYCAG●●●DG grid includes: 1 dirt filter sensor.



ClimaSys smart ventilation controllers

Voltage (V)	Filterstat controller reference	Thermal hub reference
30 VAC/VDC	NSYCCOFST30V	NSYCCOFSEM8U1
90-250 VAC	NSYCCOFST90250V	NSYCCOFSEM8U2
No. of ports	4	8

Filterstat communication cable

Black unshielded cable with 2 connectors at each end (material: PVC)

Length (mm)	Cable references
500	NSYCCA500MFST
1000	NSYCCA1000MFST
1500	NSYCCA1500MFST
2000	NSYCCA2000MFST
3000	NSYCCA3000MFST
4000	NSYCCA4000MFST
5000	NSYCCA5000MFST

ClimaSys thermal management systems



1

ClimaSys CC mechanical thermostats

Type of control	Control of a resistance heater or alarm		Control of a fan or alarm	
Setting range	0...+60 °C	+32...+140 °F	0...+60 °C	+32...+140 °F
Reference	NSYCCOTHC	NSYCCOTHCF	NSYCCOTH0	NSYCCOTH0F

2

ClimaSys CC electronic thermostats, hygrotherm and hygostat with LED display

Type of control	Electronic temperature controller	Electronic temperature and humidity controller	Electronic humidity controller
Setting range	-40 °C...+80 °C		
Reference	NSYCCOTH30VID NSYCCOTH120VID NSYCCOTH230VID	NSYCCOHYT30VID NSYCCOHYT120VID NSYCCOHYT230VID	NSYCCOHY230VID

3

ClimaSys CR insulated resistance heaters, 2 poles

Power (W)	10		20	
Voltage (V)	110-250 AC	12-24 DC	110-250 AC	12-24 DC
Reference	NSYCR10WU2C	NSYCR10WU1C	NSYCR20WU2C	NSYCR20WU1C

4

ClimaSys CR aluminum resistance heaters

Power (W)	10		20	
Voltage (V)	12-24 DC	110-250 AC	12-24 DC	110-250 AC
Reference	NSYCR10WU1	NSYCR10WU2	NSYCR20WU1	NSYCR20WU2
Power (W)	20	55	55	55
Voltage (V)	270-420 AC	12-24 DC	110-250 AC	270-420 AC
Reference	NSYCR20WU3	NSYCR55WU1	NSYCR55WU2	NSYCR55WU3

5

ClimaSys CRS ultra-thin resistance heaters

Power (W)	10		25	50		
Voltage (V)	120 AC	240 AC	120 AC	240 AC	120 AC	240 AC
Inrush current (A)	0.08	0.04	0.21	0.10	0.42	0.21
Height (mm)	130	130	130	130	200	200
Width (mm)	250	250	250	250	320	320
Depth (mm)	1.6	1.6	1.6	1.6	1.6	1.6
Reference	NSYCRS10W120V	NSYCRS10W240V	NSYCRS25W120V	NSYCRS25W240V	NSYCRS50W120V	NSYCRS50W240V

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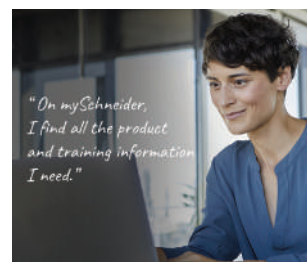
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