



Easy Series Automation and Control Essentials Catalog 2025

Everything you need for your fit-for-purpose control panels

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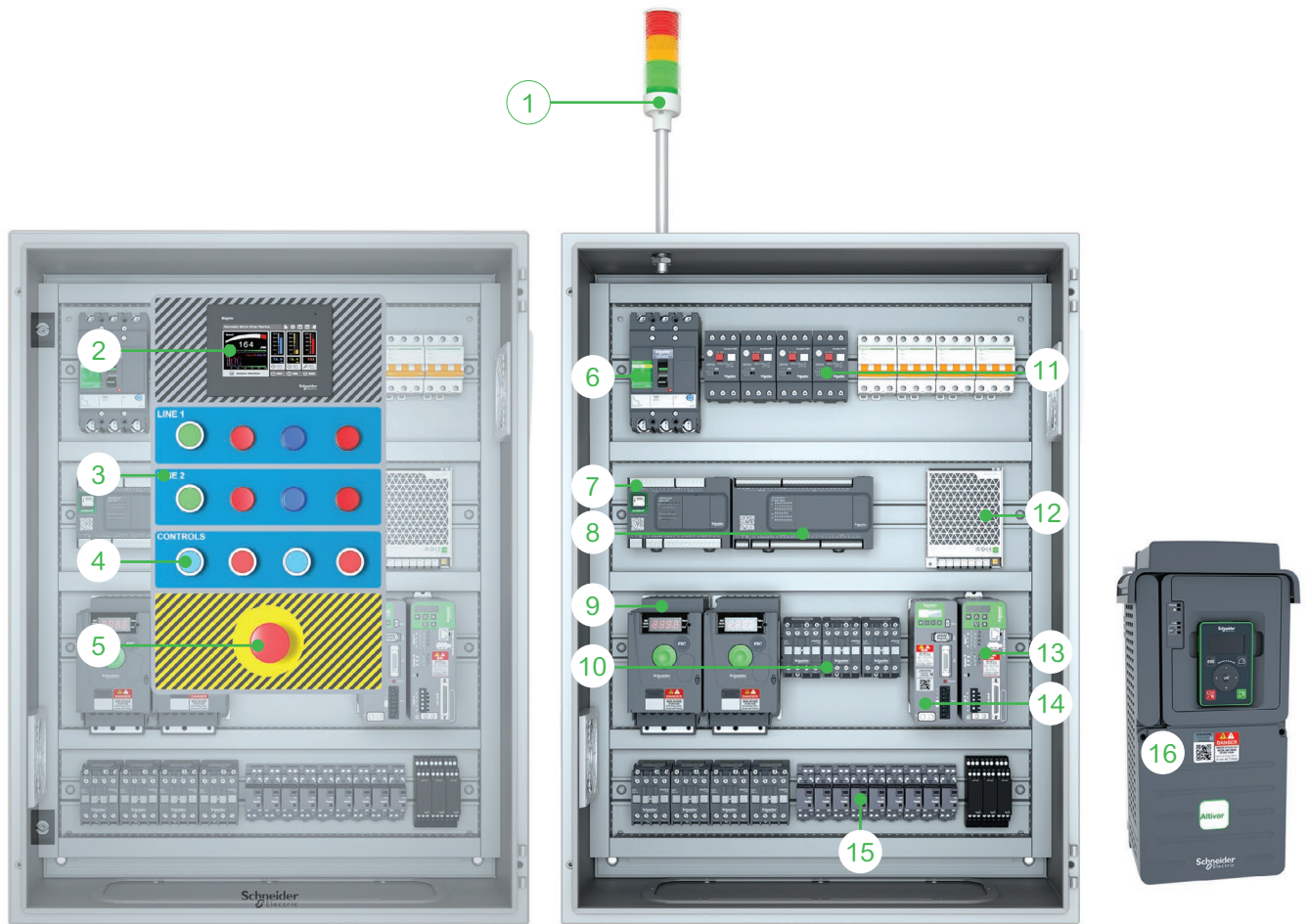


The Essentials for your control panels

Within this catalog you'll find all the components you need to deliver high core performance focused industrial control panels and machines.

The catalog will help you build your fit-for-purpose equipment faster and boost the efficiency of your industrial automation business.

New 2025 product highlights



- | | | | |
|---|--|----|---|
| 1 | Easy Harmony XVG Tower Light | 9 | Easy Altivar ATV 310 Variable Speed Drives |
| 2 | Easy Harmony ET6 Touch screen panel | 10 | Easy TeSys Contactor |
| 3 | Harmony Customizable Legend Panel | 11 | Easy TeSys Motor Protection Circuit Breaker |
| 4 | Easy Harmony XA2 Pushbuttons | 12 | Easy Modicon ABL2 Power Supply |
| 5 | Easy Harmony XA2 Emergency Switching off Pushbuttons | 13 | Easy Lexium 26 Servo |
| 6 | EasyPact CVS Protection of Distribution System | 14 | Easy Lexium 16 Servo |
| 7 | Easy Modicon M200 Logic Controller | 15 | Easy Harmony RXM Electromechanical Relays |
| 8 | Easy Modicon M100 Logic Controller | 16 | Easy Altivar ATV 610 Variable Speed Drives |

Make your everyday work smoother and easier

As a machine builder or panel builder, you need a reliable source of products to deliver high core performance focused equipment and services on time.

When working with Schneider, you've got that covered.

See for yourself!

Count on a reliable partner for your business

With Schneider Electric, a world leader in automation and control, you get reliable, robust, and affordable products for you and your customers.

Our global network of local distributors ensures high product availability and quick delivery times. So you can easily meet your deadlines.

When just enough is just right!

Save time on component selection with this catalog of automation and control essentials. Use our handy online selectors and configurators to easily find the best solution for your specific application and all the technical information you need.

Our tools help machine builders and panel builders improve the efficiency of their everyday work and build fit-for-purpose equipment with high core performance quicker.

Take advantage of learning opportunities

Gain access to our diverse learning resources, providing practical knowledge and tips, and open new opportunities for your business.

Explore the manuals, tutorials, "how to" videos, and online courses to broaden your skills and make your daily work faster and simpler.

- 1 Go to product selectors and configurators
- 2 Download the digital catalog
- 3 Explore our learning resources





Get all the products
you need from a distributor
close to you

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01. Easy Harmony control and signaling

Easy Harmony XB2

Ø 22 mm modular metal push buttons, selector switches, emergency stops, pilot lights, joysticks and buzzers.

1



- Robustness
- Full metal collar and bezel for shock and impact endurance
- Anti-loosening screws for secure fix and grounding contact to panel
- Screw mounted contacts
- IP65, IP66
- Durability: 3M (mechanical), 1M (electrical)

The Easy Harmony XB2 series of Ø 22mm modular metal control units are robust, reliable, flexible and simple to install. Just enough solution for most industrial control and signaling applications, with the added strength.

Adapted to your applications, segments and operating environments



XB2BA42C



XB2BL31C



XB2BA3351C



XB2BP21C

Spring return pushbuttons, unmarked

Type of push	Contact		Color of push	Reference for black bezel	
	NO	NC			
Complete units - Screw clamp terminal connections					
Flush	1	-	White	XB2BA11C	(ZB2BZ101C + ZB2BA1C)
	1	-	Black	XB2BA21C	(ZB2BZ101C + ZB2BA2C)
	1	-	Green	XB2BA31C	(ZB2BZ101C + ZB2BA3C)
	1	-	Yellow	XB2BA51C	(ZB2BZ101C + ZB2BA5C)
	1	-	Blue	XB2BA61C	(ZB2BZ101C + ZB2BA6C)
Projecting push	-	1	Red	XB2BA42C	(ZB2BZ102C + ZB2BA4C)
	1	-	Green	XB2BL31C	(ZB2BZ101C + ZB2BL3C)

Spring return pushbuttons, marked

Flush	1	-	Green	XB2BA3311C	(ZB2BZ101C + ZB2BA331C)
	1	-	Black	XB2BA3351C	(ZB2BZ101C + ZB2BA335C)
	1	-	White	XB2BA3341C	(ZB2BZ101C + ZB2BA334C)
	-	1	Red	XB2BA4322C	(ZB2BZ102C + ZB2BA432C)

Booted pushbuttons

Type of push	Contact		Color of push	Reference for black bezel	
	NO	NC			
Complete units - Screw clamp terminal connections					
Spring return	1	-	Black	XB2BP21C	(ZB2BZ101C+ZB2BP2C)
	1	-	Green	XB2BP31C	(ZB2BZ101C+ZB2BP3C)
	-	1	Red	XB2BP42C	(ZB2BZ102C+ZB2BP4C)

1



XB2BC51C

Mushroom head pushbuttons						
Type of push	Contact		Color of push	Diameter	Reference for black bezel	
	NO	NC		Ø (mm)/in.		
Complete units - Screw clamp terminal connections						
Spring return	1	–	Black	40/1.575	XB2BC21C	(ZB2BZ101C+ZB2BC2C)
	1	–	Green	40/1.575	XB2BC31C	(ZB2BZ101C+ZB2BC3C)
	1	–	Yellow	40/1.575	XB2BC51C	(ZB2BZ101C+ZB2BC5C)
	–	1	Red	40/1.575	XB2BC42C	(ZB2BZ102C+ZB2BC4C)
	1	–	Black	60/2.362	XB2BR21C	(ZB2BZ101C+ZB2BR2C)



XB2BT42C

Emergency switching off pushbuttons						
Type of push	Contact		Color of push	Diameter	Reference for black bezel	
	NO	NC		Ø (mm)/in.		
Complete units - Screw clamp terminal connections						
Push-pull	–	1	Red	40/1.575	XB2BT42C	(ZB2BZ102C+ZB2BT4C)
Turn to release	–	1	Red	30/1.181	XB2BS442C	(ZB2BZ102C+ZB2BS44C)
				40/1.575	XB2BS542C	(ZB2BZ102C+ZB2BS54C)
				60/2.362	XB2BS642C	(ZB2BZ102C+ZB2BS64C)



XB2BS8442C

Emergency stop pushbuttons						
Type of push	Contact		Color of push	Diameter	Reference for black bezel	
	NO	NC		Ø (mm)/in.		
Complete units - Screw clamp terminal connections						
Push-pull	–	1	Red	40/1.575	XB2BT842C	(ZB2BZ102C+ZB2BT84C)
Turn to release	–	1	Red		XB2BS8442C	(ZB2BZ102C+ZB2BS844C)



XB2BD21C



XB2BJ21C

Selector switches, with standard handle or with long handle						
Type of handle	Contact		Positions		Reference for black bezel	
	NO	NC	Number	Type		
Complete units - Screw clamp terminal connections						
Standard handle, black	1	–	2 - stay put	∨	XB2BD21C	(ZB2BZ101C + ZB2BD2C)
	1	1			XB2BD25C	(ZB2BZ105C + ZB2BD2C)
	1	–	2- spring return	∩	XB2BD41C	(ZB2BZ101C + ZB2BD4C)
	1	1			XB2BD45C	(ZB2BZ105C + ZB2BD4C)
	2	–	3-stay put	∇	XB2BD33C	(ZB2BZ103C + ZB2BD3C)
	2	–	3- spring return from 2 sides	∇	XB2BD53C	(ZB2BZ103C + ZB2BD5C)
	2	–	3- spring return from 1 side	∇	XB2BD73C	(ZB2BZ103C + ZB2BD7C)
Long handle	1	–	2 - stay put	∨	XB2BJ21C	(ZB2BZ101C + ZB2BJ2C)
	1	1			XB2BJ25C	(ZB2BZ105C + ZB2BJ2C)
	2	–	3 - stay put	∇	XB2BJ33C	(ZB2BZ103C + ZB2BJ3C)
	2	–	3- spring return from 2 sides	∇	XB2BJ53C	(ZB2BZ103C + ZB2BJ5C)



XB2BG21C

Key selector switches					
Type of push	Contact		Positions		Reference for black bezel
	NO	NC	Number	Type	
Complete units - Screw clamp terminal connections					
Key	1	–	2-stay put, 1 side pull out		XB2BG21C (ZB2BZ101C + ZB2BG2C)
	1	1			XB2BG25C (ZB2BZ105C + ZB2BG2C)
	1	–	2-stay put, 2 side pull out		XB2BG41C (ZB2BZ101C + ZB2BG4C)
	1	1			XB2BG45C (ZB2BZ105C + ZB2BG4C)
	1	–	2-spring return, 1 side pull out		XB2BG61C (ZB2BZ101C + ZB2BG6C)
	1	1			XB2BG65C (ZB2BZ105C + ZB2BG6C)
	2	–	3- stay put, middle pull out		XB2BG33C (ZB2BZ103C + ZB2BG3C)
	2	–	3- stay put, 2 sides pull out		XB2BG53C (ZB2BZ103C + ZB2BG5C)
	2	–	3- stay put, 3 sides pull out		XB2BG03C (ZB2BZ103C + ZB2BG0C)



XB2BW31B1C

Illuminated pushbuttons with integral LED					
Type of push	Contact		Color of push	Supply voltage V	Reference for black bezel
	NO	NC			
Complete units - Screw clamp terminal connections					
Flush push	1	–	White	24 ~	XB2BW31B1C (ZB2BWB11C + ZB2BW31C)
			Green		XB2BW33B1C (ZB2BWB31C + ZB2BW33C)
			Red		XB2BW34B1C (ZB2BWB41C + ZB2BW34C)
			Orange		XB2BW35B1C (ZB2BWB51C + ZB2BW35C)
			Blue		XB2BW36B1C (ZB2BWB61C + ZB2BW36C)
	1	–	White	220-230 ~	XB2BW31M1C (ZB2BWM11C + ZB2BW31C)
			Green		XB2BW33M1C (ZB2BWM31C + ZB2BW33C)
			Red		XB2BW34M1C (ZB2BWM41C + ZB2BW34C)
			Orange		XB2BW35M1C (ZB2BWM51C + ZB2BW35C)
			Blue		XB2BW36M1C (ZB2BWM61C + ZB2BW36C)



XD2PA12CR

Joystick controllers				
Type of push	Contact		Description	Reference for black bezel
	NO	NC		
Complete units - Screw clamp terminal connections				
Spring return	1	–	2-direction	XD2PA22CR
	1	–	4-direction	XD2PA24CR
Spring return without	–	1	2-direction	XD2PA12CR
	–	1	4-direction	XD2PA14CR



XB2BSB4LC

Annunciators			
Type of push	Supply voltage V	Color of push	Reference for black bezel
Complete units - Screw clamp terminal connections			
Non-illuminated 90dB	24 ~ - 50/60 Hz	Black	XB2BSBC
	220...230 ~ - 50/60 Hz		XB2BSMC
Illuminated 90dB	24 V ~ - 50/60 Hz	Red	XB2BSB4LC
	220...230 V ~ - 50/60 Hz		XB2BSM4LC

1



ZB2BA5C

Pushbuttons with flush push, unmarked

Type of push	Color of push	Reference for black bezel
Heads only		
Spring return	White	ZB2BA1C
	Black	ZB2BA2C
	Green	ZB2BA3C
	Red	ZB2BA4C
	Yellow	ZB2BA5C
	Blue	ZB2BA6C

Pushbuttons with flush push, marked

Spring return	Green	ZB2BA331C
	Black	ZB2BA335C
	White	ZB2BA334C
	Red	ZB2BA432C



ZB2BA334C

Pushbuttons with projecting push, unmarked

Type of push	Color of push	Reference for black bezel
Heads only		
Spring return	Green	ZB2BL3C
	Red	ZB2BL4C



ZB2BL3C

Mushroom pushbutton heads

Type of push	Color of push	Diameter Ø (mm)/in.	Reference for black bezel
Heads only			
Spring return	Black	40/1.575	ZB2BC2C
	Green		ZB2BC3C
	Red		ZB2BC4C
	Yellow	ZB2BC5C	
	Black	60/2.362	ZB2BR2C



ZB2BC5C

Emergency switching off heads

Type of push	Color of push	Push	Reference for black bezel
		Ø (mm)/in.	
Heads only			
Push-pull	Red	40/1.575	ZB2BT4C
Turn to release	Red	30/1.181	ZB2BS44C
		40/1.575	ZB2BS54C



ZB2BT4C



ZB2BS844C



ZB2BW35C



ZB2BG4C

Emergency stop pushbuttons (1)

Type of push	Color of push	Diameter Ø (mm)/in.	Reference for black bezel
Heads only			
Push-pull	Red	40/1.575	ZB2BT84C
Turn to release	Red		ZB2BS844C

Illuminated pushbutton heads with spring return

Type of push	Color of push	Reference for black bezel
Heads only		
Flush	White	ZB2BW31C
	Green	ZB2BW33C
	Red	ZB2BW34C
	Orange	ZB2BW35C
	Blue	ZB2BW36C

Selector switch heads

Type of handle	Positions		Reference for black bezel
	Number	Type	
Standard handle	2 - stay put	∨	ZB2BD2C
	3 - stay put	∨	ZB2BD3C
	3 - spring return from 2 sides	∨	ZB2BD5C
Long handle	2 - stay put	∨	ZB2BJ2C
	3 - stay put	∨	ZB2BJ3C
	3 - spring return from 2 sides	∨	ZB2BJ5C
Key	2 - stay put, 1 side pull out	∨	ZB2BG2C
	2 - stay put, 2 side pull out	∨	ZB2BG4C
	3 - stay put, 3 sides pull out	∨	ZB2BG0C

1) Emergency Stop push buttons should have a maximum of 4 nos. contact blocks, installed in 2 rows only.

1



ZB2BWM31C

Complete light bodies (fixing collar + light block)					
Light source	Contact		Supply voltage V	Color of light source	Reference
	NO	NC			
Direct Supply					
with BA9S 24 V \approx bulb	1	–	24 \approx	white	ZB2BWB11C
	1	–		green	ZB2BWB31C
	–	1		green	ZB2BWB32C
	1	–		red	ZB2BWB41C
	–	1		red	ZB2BWB42C
	1	–		orange	ZB2BWB51C
	–	1		orange	ZB2BWB52C
	1	–		blue	ZB2BWB61C
with BA9S 24 V \approx bulb	1	–	220-230 \sim	white	ZB2BWM11C
	1	–		green	ZB2BWM31C
	–	1		green	ZB2BWM32C
	1	–		red	ZB2BWM41C
	–	1		red	ZB2BWM42C
	1	–		orange	ZB2BWM51C
	–	1		orange	ZB2BWM52C
	1	–		blue	ZB2BWM61C

Contact functions			
Description	Contact		Reference
	NO	NC	
Screw clamp terminal connections			
Single contact block	1	–	ZB2BE101C
	–	1	ZB2BE102C
Single with body/fixing collar	1	–	ZB2BZ101C
	–	1	ZB2BZ102C
	2	–	ZB2BZ103C
	–	2	ZB2BZ104C
	1	1	ZB2BZ105C
	1	1	ZB2BZ105C



ZB2BZ104C



ZB2BY9330C



ZB2BZ1605C



XALB01C



XALB03C

Circular yellow legends for mushroom head pushbuttons, marked

Mark	Color of push	Reference
Used for "Emergency stop" function		
"EMERGENCY STOP"	Yellow	ZB2BY9330C

Yellow guard

Description	Exclusive use with the following Ø 40mm/1.75 in.	Color of push	Reference
Heads only			
For Emergency stop and off function	Emergency switching	Yellow	ZB2BZ1605C
Clear boot for dust	Emergency switching	Clear	ZB2BPAC

Empty control stations

Description	Characteristics	Dimension w x h x d	Number of cut-outs	Reference
		<i>mmlin.</i>		
Complete units - Screw clamp terminal connections				
		68 x 86 x 51/ 2.68 x 3.39 x 2	1	XALB01C
Light gray "RAL 7035" cover Dark gray "RAL 7016" base	IP65	68 x 104 x 51/ 2.68 x 4.1 x 2	2	XALB02C
		68 x 86 x 51/ 2.68 x 3.39 x 2	3	XALB03C
Yellow "RAL 1021" cover Dark gray "RAL 7016" base	IP65	68 x 86 x 51/ 2.68 x 3.39 x 2	1	XALB01YC



02. Easy Harmony Relays

Easy Harmony RXG

Interface Electromechanical Relays



- Conformity with IEC, UL and EAC standards, as well as CE marking
- IP40 protection rating
- Operating temperature from - 40°C to 70°C
- 10 mA at 5V DC minimum switching load
- High electrical durability of 100,000 cycles

2

The RXG plug-in relays are a series of industrial interface relays available with 1 CO (10A), 2 CO (5A) contacts. It features faston pin terminal for quick and secure mounting, and an optional green LED for relay "on" status indication. With a 16 mm socket option, it helps to reduce the size of enclosures, you can mount nearly everywhere!

Adapted to your applications, segments and operating environments



Data Center



OEM Machines



PLC Interface



Automation Control Panels



Textile



Medical Equipment



RXG18P7



RXG26BD

Interface relays for customer assembly

Type	Control Circuit Voltage	Sold in lots of	Number and type of contacts - Thermal current (Ith)		
			1 CO - 10 A	2 CO - 5 A	Weight
			Unit Reference	Unit Reference	kg/lb
Basic cover relays with LED	24 VDC	10	RXG16BD	RXG26BD	0.019/0.042
	230 VAC	10	RXG16P7	RXG26P7	0.019/0.042
Basic cover relays without LED	24 VDC	10	RXG18BD	RXG28BD	0.019/0.042
	230 VAC	10	RXG18P7	RXG28P7	0.019/0.042

Sockets for interface relays

Sockets with mixed contact terminals arrangement, screw clamp connection, and built-in clamp

Description	Thermal current (Ith)	Sold in lots of	Relay type	Unit Reference	Weight kg/lb
1 CO socket with 1 pole	10 A	10	RXG1●●●	RGZE05E	0.024/0.053
2 CO socket with 2 poles	5 A	10	RXG2●●●	RGZE08E	0.026/0.057



RGZE05E

Easy Harmony RXMLB

Miniature Electromechanical Relays

2



- Conformity with IEC and UL standards, as well as CE marking
- IP40 protection rating
- Operating temperature from -40°C to 55°C
- 5mA at 5VDC minimum switching load
- High electrical durability of 200,000 cycles

The RXM●LB relays are a series of industrial plug-in relays designed for both simple and complex automation systems and available with 2 CO (5A), 4 CO (3A) contacts. It features a mechanical indicator indicating the relay contact status and optional green LED for relay "on" status.

Adapted to your applications, segments and operating environments



Packaging



HVAC



Industrial Machines



Lighting Controls



Motor Controls



Building



RXM2LB2BD



RXM2LB1BD



RXZE1M2C



RXZ410

Easy Harmony RXM miniature plug-in relays (sold in lots of 10)

Type	Control Circuit Voltage	Number and type of contacts - Thermal current (Ith)			
		2 CO - 5 A	Weight	4 CO - 3 A	Weight
		Unit Reference	kg/lb	Unit Reference	kg/lb
With LED - Miniature relays without lockable test-button	12 VDC	RXM2LB2JD	0.033/0.073	RXM4LB2JD	0.035/0.077
	24 VDC	RXM2LB2BD	0.032/0.071	RXM4LB2BD	0.034/0.075
	36 VDC	-	0.034/0.075	RXM4LB2CD	0.036/0.079
	48 VDC	RXM2LB2ED	0.033/0.073	RXM4LB2ED	0.035/0.077
	110 VDC	RXM2LB2FD	0.031/0.068	RXM4LB2FD	0.033/0.073
	24 VAC	RXM2LB2B7	0.033/0.073	RXM4LB2B7	0.035/0.077
Without LED - Miniature relays without lockable test-button	120 VAC	RXM2LB2F7	0.032/0.071	RXM4LB2F7	0.033/0.073
	230 VAC	RXM2LB2P7	0.031/0.068	RXM4LB2P7	0.032/0.071
	12 VDC	RXM2LB1JD	0.032/0.071	RXM4LB1JD	0.034/0.075
	24 VDC	RXM2LB1BD	0.032/0.071	RXM4LB1BD	0.033/0.073
	24 VAC	RXM2LB1B7	0.033/0.073	RXM4LB1B7	0.034/0.075
	120 VAC	RXM2LB1F7	0.031/0.068	-	0.033/0.073
230 VAC	RXM2LB1P7	0.030/0.066	RXM4LB1P7	0.032/0.071	

Sockets with Screw clamp connection

Contact terminal Arrangement	Thermal current (Ith)	Sold in lots of	Relay type	Unit Reference	Weight kg/lb
Mixed	7 A	10	RXM2	RXZE1M2C	0.034/0.075
			RXM2	RXZE1M4C	0.053/0.117
			RXM4		

Accessories

Description	Sold in lots of	For use with	Unit reference	Weight kg/lb
Metal maintaining clamp	20	RXZE1M●C	RXZ410	0.001/0.002
	10	RXZE1M2C	RXZ420	0.001/0.002

Easy Harmony Electronic Relays

Timer & Control Relays



- Conformity to cULus, CE, CCC & UKCA
- Cost-effective - essential choice with optimised features
- Easy selection - 6 refs to meet most of the application needs
- Space savings - Compact size with 17.5mm width



The Easy Harmony Electronic Relays range of timers and control relays provides the cost effective choice to meet customers requirements. Easy Harmony RE10 Timer relays that enable and simplify the hard-wired timing control of your application. Easy Harmony RM10 Control relays that provide the basic monitoring & control of 3 phase power feeding to your application.

Adapted to your applications, segments and operating environments



Pumping



Fan



Motor



Generator



Material working



Material handling



Mining Mineral & Metals



RM10TG00N RM10TA00N



RM10TE00N



RE10RAMUN RE10RCMUN




RE10RQM7N

Control Relay

Type	Supply Voltage	Function	Number and type of contacts		Weight kg/lb
			1 CO - 5 A		
			Unit Reference	Timing range	
		Phase sequence Phase loss	RM10TG00N	-	0.075/0.16
3 phase control relay	208...480 VAC	Phase sequence Phase loss Phase Asymmetry	RM10TA00N	0...15s	0.075/0.16
		Phase sequence Phase loss Phase Asymmetry Over & Under Voltage	RM10TE00N	0...100s	0.075/0.16

Timer relay

Type	Supply Voltage	Function	Number and type of contacts		Weight kg/lb
			1 CO - 5 A		
			Unit Reference	Timing range	
Timer	24VAC/DC & 240 VAC	On delay	RE10RAMUN	0...30hrs	0.075/0.16
	24VAC/DC & 240 VAC	Off delay	RE10RCMUN	0...30hrs	0.075/0.16
	240 VAC	Star-delta	RE10RQM7N	0...120s	0.075/0.16

A man in a grey shirt is shown in profile, looking towards a control panel on a piece of industrial machinery. He is pointing at a red button on the panel. The machinery is green and has a yellow and black striped safety warning on the right side. The background is a factory floor with various equipment and overhead lights.

03. Easy Modicon regulated power supplies

Easy Modicon ABL2K power supplies and Accessories

Single phase power supplies 100 V to 240 V from 35 to 350 W



- Conformity with CE, EAC, KC and RCM standards
- Wide power range (11 models from 35 to 350 W)
- Equipped with an input voltage (100-240 V AC) smart switch offering
- Increased performance and durability
- Easy maintenance thus reducing downtime
- They can operate within a wide temperature range

3

The Easy Modicon ABL2 electronic switch mode power supply offer is designed to provide the DC voltage necessary for electrical equipment operating in a low voltage automation and control system (PLC, HMI, sensors, etc.).

OEMs can integrate these power supplies in simple machines used in the following



Panel builders can integrate them in control panels installed in the following



ABL2 regulated switch mode 24 V DC power supplies

Model	Output voltage	Nominal power	Output current	Voltage switching	Cooling design	Overload hiccup protection	Reference	Weight kg/lb
Input voltage : 100...240 V AC								
35 W	24 V DC	36 W	1.5 A	Automatic	Natural convection	110-160%	ABL2REM24015K	0.230/0.507
						170-190%	ABL2REM24015KQ	0.230/0.507
50 W	24 V DC	53 W	2.2 A	Automatic	Natural convection	110-160%	ABL2REM24020K	0.250/0.551
						170-190%	ABL2REM24020KQ	0.250/0.551
100 W	24 V DC	108 W	4.5 A	Automatic	Natural convection	110-160%	ABL2REM24045K	0.350/0.772
						170-190%	ABL2REM24045KQ	0.350/0.772
Input voltage : 100...120 V AC - 200...240 V AC								
150 W	24 V DC	156 W	6.5 A	Manual	Natural convection	110-160%	ABL2REM24065K	0.440/0.970
						170-190%	ABL2REM24065KQ	0.440/0.970
200 W	24 V DC	200 W	8.3 A	Manual	Natural convection	110-150%	ABL2REM24085K	0.730/1.609
250 W	24 V DC	252 W	10.5 A	Manual	Forced air cooling by built-in DC fan	110-150%	ABL2REM24100K	0.750/1.653
350 W	24 V DC	351 W	14.6 A	Manual	Forced air cooling by built-in DC fan	110-150%	ABL2REM24150K	0.790/1.742



BL2REM24015KQ



ABL2REM24085K

Options for ABL2 power supplies				
Type of mounting accessory	For power supplies	Sold in lots of	Unit reference	Weight kg/lb
4-corner bracket	ABL2REM24085K ABL2REM24100K ABL2REM24150K	40	ABL2K01	0.003/0.007
Clip-on mounting plate	All models	5 (1)	ABL2K02	0.028/0.062
L-type accessories	ABL2REM24015K ABL2REM24015KQ ABL2REM24020K ABL2REM24020KQ ABL2REM24045K ABL2REM24045KQ ABL2REM24065K ABL2REM24065KQ	1	ABL2K03A	0.110/0.240
	ABL2REM24085K ABL2REM24100K ABL2REM24150K	1	ABL2K03B	0.150/0.331

(1) ABL2K02 is a pack of 5 accessories usable on 35 mm (1.37 in.) 5 rails. Please note that only 1 accessory is necessary for mounting a 35 to 150 W model but 2 accessories are needed for the other three models (200, 250, and 350 W).



ABL2K01



ABL2K02



ABL2K03B

3

ABL5 regulated switch mode power supplies

Output voltage	Nominal power (2)	Nominal current	Voltage switching Cooling design	Overload hiccup protection	Reference	Weight kg/lb
Input voltage : 100...240 V AC 50/60 Hz (compatible with 140...340 V DC)						
12 VDC	75.6 W	6.3 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A12060E	0.396/0.873
	120 W	10 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A12100E	0.451/0.994
	76.8 W	3.2 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A24030E	0.396/0.873
	120 W	5 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A24050E	0.451/0.994
24 VDC	240 W	10 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A24100E	0.935/2.061
	480 W	20 A	"Constant current mode, shutting down after time delay. Re-power on to recover"	With	ABLS1A24200E	1.320/2.910
	960 W	40 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A24400E	2.200/4.85
48 VDC	480 W	10 A	"Constant current mode, shutting down after time delay. Re-power on to recover"	With	ABLS1A48100E	1.320/2.910
Input voltage : 200...240 VAC						
48 VDC	960 W	20 A	Constant current mode, automatic recovery after overload is removed	With	ABLS1A48200E	2.200/4.85



ABL51A12060E



ABL51A24100E



ABL51A48100E





04. Easy Harmony Human Machine Interface

Easy Harmony ET6

Essential touch screen panels for simple machines



- Flexible Options :
Various sizes and connection models available.
- Enhanced Visualization :
High resolution, large screens, and memory.
- Robust Reliability :
Strong cybersecurity and environmental protection features.

Easy Harmony ET6 essential touch-screen panels are entry-level products perfectly tailored to meet the specific requirements of the customer. Easy Harmony ET6 is available in four screen sizes with wide format 7"W, 10"W, 12"W and 15"W. This range is designed with high resolution screen, more colors, and Ethernet capability to enable OEMs to optimize their HMI design and investment . It is powered by Vijeo Designer Basic software for intuitive user experience. It has a 800 MHz ARM Cortex-A8 CPU, 256 MB as system and application memory, 128 KB nonvolatile memory. ET6 supports Ethernet port, COM1 (RS-232C), COM2 (RS-422/485), 1x USB 2.0 Type A, and 1x USB 2.0 Micro-B port. This is intended for industries like Packaging, HVAC, Pump, Electronics, battery, machine tools and material working etc. It conforms to standards like EN (61000-6-4, 61000-6-2, 61131-2), UL 61010-2-201, CSA C22.2 No 61010-2-201 and certifications like UL, CE, KC, EAC, China RoHS, REACH. The degree of protection is IP65F.



Adapted to your applications, segments and operating environments



Packaging



HVAC & Pumping



Material working



Battery, 3C & SEMICON



Textile



Solar, Printing, etc



HMIET6501

Easy Harmony ET6 SIO touch screen panels (1) (2)					
Screen size and type	Number of ports	Memory capacity		Unit Reference	Weight kg//lb
		For application	For backup		
7" wide, 800 x 480 pixels, color TFT screen	1x COM2 (RS-422/485), 1x COM1 (RS-232C), 1x USB micro-B	256 MB	128 KB	HMIET6401	0.60/1.32
10" wide, 1,024 x 600 pixels, color TFT screen				HMIET6501	0.98/2.16



HMIET6700

Easy Harmony ET6 ETH touch screen panels (1) (2)					
Screen size and type	Number of ports	Memory capacity		Unit Reference	Weight kg//lb
		For application	For backup		
7" wide, 800 x 480 pixels, color TFT screen	1x COM1 (RS-232C), 1x COM2 (RS-422/485), 1x USB micro-B, 1x USB Type A, 1x 10/100 Base-Tx	256 MB	128 KB	HMIET6400	0.61/1.34
10" wide, 1,024 x 600 pixels, color TFT screen				HMIET6500	0.99/2.18
12" wide, 1,280 x 800 pixels, color TFT screen				HMIET6600	1.62/3.57
15.6" wide, 1,366 x 768 pixels, color TFT screen				HMIET6700	2.52/5.56

(1) Panels supplied with fixing screws, power supply connector, and instruction sheet. Setup documentation for Easy Harmony ET6 panels is included in electronic format with the Vijeo Designer Basic configuration software.
 (2) Comprehensive information relating to Easy Harmony ET6 panels is available on our [website](#).



To download software,
www.se.com/vijeo-designer-basic



HMIZG936

Vijeo Designer Basic, programming software for Easy Harmony ET6 panels

Description	Used for	Compatibility	Number of stations	Unit Reference
Vijeo Designer Basic (1)	Easy Harmony ET6 models	All Easy Harmony ET6 panels (required V1.2 or above)	1	(2)

Connection accessories

Designation	Description	Length - m/ft	Unit Reference	Weight kg/lb
USB (Type A) front cable	Extension cable that attaches USB interface to front panel	1/3.28	XBTZGUSB	0.507/1.118
USB transfer cable	Cable for transferring screen data from a PC (USB Type A) to HMI (USB micro-B)	1/3.28	HMIZG936	0.100/0.220

(1) Requires software version 1.2. Cable for transferring application from PC to Easy Harmony ET6 panels (HMIZG936) to be ordered separately (see our website www.se.com).

(2) To download this software, visit our website www.se.com.



XBTZ9008

Cables for connecting Easy Harmony ET6 panels to Schneider Electric PLCs

Type of automation product	Type of connector (automation product end)	Protocol	Type of Easy Harmony ET6 panels	Physical link (panels port)	Length m/ft	Reference	Weight kg/lb
Modicon M340 Modicon M218 Modicon M258 Modicon M221 Modicon M241 Modicon M251	RJ45	Modbus	All models	RS-485	2.5/8.20	XBTZ9008	-
TeSys U/T starters Altivar drives Altistart starters Lexium motion control Preventa XPS MC	RJ45	Modbus	All models	RS-485	2.5/8.20	XBTZ9008	-

Connecting Easy Harmony ET6 panels via Modbus serial link

Type of bus/network	Tap-off units	Connector (tap-off unit end)	Type of Easy Harmony ET6 panels	Length m/ft	Reference	Weight kg/lb
Modbus serial link	8-port Modbus splitter box LU9GC3 2-port tap junction TWDXCAISO TWDXCAT3RJ	RJ45	All models	2.5/8.20	XBTZ9008	-



05. Easy Modicon Logic Controllers

Easy Modicon M100 and M200

Logic controllers - Up to 168 I/O, 2-axis motion control



- Reduces machine costs by emphasizing core functions like Modbus, USB programming, and basic position control
- Simplifies mounting, wiring, programming, and debugging with Machine Expert Basic software
- Transistor outputs are monitored to help protect against short circuits
- DC power supply monitored to help protect against reverse polarity
- IP20 protection level

Logic controllers are designed for simple machines, making them ideal for installation in wall-mounted and floor-standing control system enclosures. These controllers have an embedded Ethernet port, providing excellent connection capacity. They also offer customization options using I/O or communication cartridges. The Modicon TM3 expansion module enhances the digital and analog I/O capacity of the Easy Modicon M100/200 logic controller on a larger scale.

Adapted to your applications, segments and operating environments



Machine control



Textile



Machines tools



Packaging



HVAC & Pumping



Lift



Energies & chemicals

5

Easy Modicon M100 logic controllers (1)

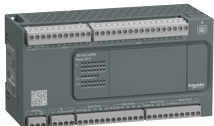
Number of digital I/O	Digital inputs	Digital outputs (relay outputs)	Serial link (2)	Supply voltage	Programming software (3)	Reference
16	<ul style="list-style-type: none"> ■ 9 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 3 regular inputs ■ 2 high speed inputs for HSC 	7				TM100C16RN
24	<ul style="list-style-type: none"> ■ 14 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 8 regular inputs ■ 2 high speed inputs for HSC 	10				TM100C24RN
32	<ul style="list-style-type: none"> ■ 20 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 14 regular inputs ■ 2 high speed inputs for HSC 	12	1	110...220 VAC	EcoStruxure Machine Expert - Basic	TM100C32RN
40	<ul style="list-style-type: none"> ■ 24 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 18 regular inputs ■ 2 high speed inputs for HSC 	16				TM100C40RN



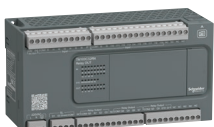
TM100C16RN



TM100C24RN



TM100C32RN



TM100C40RN

(1) M100 controllers are supplied with:

- a removable screw terminal block for connecting the I/O
- a removable screw terminal block for connecting the power supply
- a removable screw terminal block for the serial link

(2) Each M100 logic controller has an embedded USB mini-B programming port.

(3) PC should be equipped with Windows 7 or 10 (32-bit or 64-bit). To download this programming software, please visit our site www.se.com.



EcoStruxure Machine Expert - Basic 4



TM200CE40U



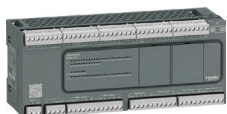
TM200C16R



TM200CE24R



TM200CE32R



TM200C60R



TM200C16U

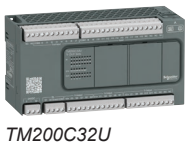
Easy Modicon M200 logic controllers (1)										
Supply voltage	Number of digital I/O	Digital inputs	Digital outputs	Dimension (W x H x D)	Ethernet (RJ 45)	Serial link (2)	Reference			
24 VDC	40	<ul style="list-style-type: none"> 24 sink/source 24 VDC input voltage 	<ul style="list-style-type: none"> 16 sink outputs 14 regular transistor outputs 	175 x 70 x 90	–	1	TM200C40U			
		<ul style="list-style-type: none"> 4 fast inputs for FC 16 regular inputs 	<ul style="list-style-type: none"> 2 fast outputs (PWM/PLS/PTO) 		1		TM200CE40U			
		<ul style="list-style-type: none"> 4 high speed inputs for HSC 	<ul style="list-style-type: none"> 16 source outputs 14 regular transistor outputs 		–		TM200C40T			
			<ul style="list-style-type: none"> 2 fast outputs (PWM/PLS/PTO) 		1		TM200CE40T			
Supply voltage	Number of digital I/O	Digital inputs	Digital outputs (relay outputs)	Dimension (W x H x D)	Ethernet (RJ 45)	Serial link (2)	Reference			
110...220 VAC	16	<ul style="list-style-type: none"> 9 sink/source 24 VDC input voltage 4 fast inputs for FC 1 regular input 4 high speed inputs for HSC 	7	110 x 70 x 90	–	–	TM200C16R			
	24	<ul style="list-style-type: none"> 14 sink/source 24 VDC input voltage 4 fast inputs for FC 6 regular inputs 4 high speed inputs for HSC 	10	130 x 70 x 90	–	1	TM200C24R			
					1		TM200CE24R			
110...220 VAC	32	<ul style="list-style-type: none"> 20 sink/source 24 VDC input voltage 4 fast inputs for FC 12 regular inputs 4 high speed inputs for HSC 	12	175 x 70 x 90	–	–	TM200C32R			
	32	<ul style="list-style-type: none"> 20 sink/source 24 VDC input voltage 4 fast inputs for FC 12 regular inputs 4 high speed inputs for HSC 	12	175 x 70 x 90	1	–	TM200CE32R			
					40	<ul style="list-style-type: none"> 24 sink/source 24 VDC input voltage 4 fast inputs for FC 16 regular inputs 4 high speed inputs for HSC 	16	–	1	TM200C40R
								60	<ul style="list-style-type: none"> 36 sink/source 24 VDC input voltage 4 fast inputs for FC 28 regular inputs 4 high speed inputs for HSC 	24
–	–	TM200C60R								
Supply voltage	Number of digital I/O	Digital inputs	Digital outputs	Dimension (W x H x D)	Ethernet (RJ 45)	Serial link (2)	Reference			
24 VDC	16	<ul style="list-style-type: none"> 9 sink/source 24 VDC input voltage 4 fast inputs for FC 1 regular input 4 high speed inputs for HSC 	<ul style="list-style-type: none"> 7 sink outputs 5 regular transistor outputs 2 fast outputs (PWM/PLS/PTO) 	110 x 70 x 90	–	1	TM200C16U			
			<ul style="list-style-type: none"> 7 source outputs 5 regular transistor outputs 2 fast outputs (PWM/PLS/PTO) 				–	–	TM200C16T	

(1) M200 controllers are supplied with:

- removable screw terminal blocks for connecting the I/O
- a removable screw terminal block for connecting the power supply
- a removable screw terminal block for the serial link

(2) Each M200 logic controller has an embedded USB mini-B programming port.

Easy Modicon M200 logic controllers (1)							
Supply voltage	Number of digital I/O	Digital inputs	Digital outputs	Dimension (W x H x D)	Ethernet (RJ 45)	Serial link (2)	Reference
24 VDC	24	<ul style="list-style-type: none"> 14 sink/source 24 VDC input voltage 4 fast inputs for FC 6 regular inputs 4 high speed inputs for HSC 	<ul style="list-style-type: none"> 10 sink outputs 8 regular transistor outputs 2 fast outputs (PWM/PLS/PTO) 	130 x 70 x 90	-	1	TM200C24U
			<ul style="list-style-type: none"> 10 source outputs 8 regular transistor outputs 2 fast outputs (PWM/PLS/PTO) 		1		TM200CE24U
			<ul style="list-style-type: none"> 12 sink outputs 10 regular transistor outputs 2 fast outputs (PWM/PLS/PTO) 		-		TM200C24T
			<ul style="list-style-type: none"> 12 source outputs 10 regular transistor outputs 2 fast outputs (PWM/PLS/PTO) 		1		TM200CE24T
24 VDC	32	<ul style="list-style-type: none"> 20 sink/source 24 VDC input voltage 4 fast inputs for FC 12 regular inputs 4 high speed inputs for HSC 	<ul style="list-style-type: none"> 12 sink outputs 10 regular transistor outputs 2 fast outputs (PWM/PLS/PTO) 	175 x 70 x 90	-	1	TM200C32U
			<ul style="list-style-type: none"> 12 source outputs 10 regular transistor outputs 2 fast outputs (PWM/PLS/PTO) 		-		TM200C32T



Cartridges for Easy Modicon M200 logic controllers (2)		
Description	Details	Reference
Communication cartridges	<ul style="list-style-type: none"> 1 additional RS232C or RS485 serial link on screw terminal block 	TMCR2SL1
	<ul style="list-style-type: none"> Controllers 16IO/24IO can support 1 additional isolated RS485 serial link on screw terminal block. Controllers 32IO/40IO/60IO can support 2 additional isolated RS485 serial link on screw terminal block 	TMCR2SL1S
Analog I/O cartridges	<ul style="list-style-type: none"> 2 analog inputs (12-bit resolution) configurable as: <ul style="list-style-type: none"> - 0...10 V voltage - 0...20 mA/4...20 mA current Connection via screw terminal block 	TMCR2AI2
	<ul style="list-style-type: none"> 2 analog inputs (12-bit resolution) 0...10V/ 0...5V/ 0...20mA/ 4...20mA 1 analog output (12-bit resolution) 0...10V/ 0...5V/ 0...20mA/ 4...20mA Connection via screw terminal block 	TMCR2AM3
	<ul style="list-style-type: none"> 2 temperature inputs (12 or 14-bit resolution depending on input signal) type K, J, R, S, B, E, T, N, C, PT100, PT1000, NI100, NI1000 Connection via screw terminal block 	TMCR2TI2
Analog I/O cartridges	<ul style="list-style-type: none"> 2 analog outputs (12-bit resolution) 0...10 V voltage Connection via screw terminal block 	TMCR2AQ2V
	<ul style="list-style-type: none"> 2 analog outputs (12-bit resolution) 4...20 mA current Connection via screw terminal block 	TMCR2AQ2C



- (1) M200 controllers are supplied with:
- removable screw terminal blocks for connecting the I/O
 - a removable screw terminal block for connecting the power supply
 - a removable screw terminal block for the serial link
- (2) One cartridge for controllers with 16 and 24 I/O. Two cartridges maximum for controllers with 32, 40 and 60 I/O, only one of which can be a communication cartridge.

5



TMARCOVER



TMARBAT1



TMARTB3

Separate parts for Easy Modicon M200 logic controllers	
Description	Reference
Catridges cover	TMARCOVER
RTC battery	TMARBAT1

Replacements parts for Easy Modicon M200 logic controllers		
Description	Details	Reference
Set of terminal blocks for connecting the I/O on M200 controllers	3-way terminal block for power supply connection	TMARTB3
	4-way terminal block for serial link connection	TMARTB4

Expansion modules		
Description	Details	Reference
Modicon TM3 expansion modules	Easy Modicon M200 logic controllers	(1)

Product compatibility			M200 logic controllers			
Expansion options		Reference	Number and type of I/O	TM200C16R	TM200C16U	TM200C16T
Modicon TM3	Digital modules	TM3DI8	8 x 24 V $\overline{\text{---}}$ sink/source inputs			
		TM3DI16	16 x 24 V $\overline{\text{---}}$ sink/source inputs			
		TM3DI32K	32 x 24 V $\overline{\text{---}}$ sink/source inputs			
		TM3DQ8R	8 x 24 V $\overline{\text{---}}$ /240 V a relay outputs			
		TM3DQ8T	8 x 24 V $\overline{\text{---}}$ source transistor outputs			
		TM3DQ8U	8 x 24 V $\overline{\text{---}}$ sink transistor outputs			
		TM3DQ16R	16 x 24 V $\overline{\text{---}}$ /240 V \sim relay outputs			
		TM3DQ16T	16 x 24 V $\overline{\text{---}}$ source transistor outputs			
		TM3DQ16U	16 x 24 V $\overline{\text{---}}$ sink transistor outputs			
		TM3DQ32TK	32 x 24 V $\overline{\text{---}}$ source transistor outputs			
		TM3DQ32UK	32 x 24 V $\overline{\text{---}}$ sink transistor outputs			
		TM3DM8R	4 x 24 V $\overline{\text{---}}$ sink/source inputs + 4 x 24 V $\overline{\text{---}}$ /240 V \sim relay outputs			
		TM3DM24R	16 x 24 V $\overline{\text{---}}$ sink/source inputs + 8 x 24 V $\overline{\text{---}}$ /240 V \sim relay outputs			
		TM3RDM16R	8 x 24 V $\overline{\text{---}}$ sink/source inputs + 8 x 24 V $\overline{\text{---}}$ /240 V \sim relay outputs			
	TM3RDM32R	16 x 24 V $\overline{\text{---}}$ sink/source inputs + 16 x 24 V $\overline{\text{---}}$ /240 V \sim relay outputs				
	Analog modules	TM3AI2H	2 voltage/current inputs			
		TM3AI4	4 voltage/current inputs			
		TM3TI4	4 voltage/current or temperature inputs			
		TM3AI8	8 voltage/current inputs			
		TM3TI8T	8 temperature inputs			
TM3AQ2		2 voltage/current outputs				
TM3AQ4	4 voltage/current outputs					
TM3TM3	2 voltage/current or temperature inputs + 1 voltage/current outputs					
TM3AM6	4 voltage/current inputs + 2 voltage/current outputs					

Possible to combine, up to 4 modules

(1) See our list of product compatibility.

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Configuration (1)(2)				
Configuration limits	Maximum number of transistor outputs	Maximum number of relay outputs	References	
Logic controllers	130	71	TM200C16R	
	137	64	TM200C16T	
	137	64	TM200C16U	
	130	74	TM200C24R	TM200CE24R
	140	64	TM200C24T	TM200CE24T
	140	64	TM200C24U	TM200CE24U
	132	76	TM200C32R	TM200CE32R
	144	64	TM200C32T	
	144	64	TM200C32U	
	132	80	TM200C40R	TM200CE40R
	148	64	TM200C40T	TM200CE40T
	148	64	TM200C40U	TM200CE40U
	132	88	TM200C60R	

(1) Modicon TM3 or TM2 digital I/O modules connect to Modicon M200 logic controllers with a maximum of 4 local I/O modules.

(2) The maximum number of Modicon TM3/TM2 expansion modules can be reduced by the number of transistor outputs or relay outputs used (see the table). For more information on TM3/TM2 expansion modules, please visit our website www.se.com.

A woman with short brown hair and glasses, wearing a white knitted sweater, is operating a Lexium motion control system in a factory. She is leaning over a control panel with various buttons and a small screen. The background shows a long industrial machine with glass safety covers and a worker in the distance. The scene is brightly lit, typical of a modern manufacturing environment.

06. Easy Lexium Motion Control

Servo Drives and Servo Motors

Lexium 18P/18E servo drives and the associated BCH18 servo motors



- EMC test result is 120% higher than the IEC standard, passed 85°C high-temperature aging test
- High-standard three-proofing paint and thermal adhesive coating process
- LXM18P: 10DI/6DO, 2-way fast input; 16bit analog input; support 8MHz pulse
- LXM18E: 6DI/3DO, 2-way fast input; STO integrated
- Maximum motor speed up to 6000rpm, improve overload capability to 350%, equipped with 23bit optical electricity encoder.
- Adaptive tuning-free function, response bandwidth increased by 39%

The Easy Lexium™ 18 range includes the Lexium 18P/18E servo drives and the associated BCH18 servo motors. Their combinations are specially designed for easy integration and commissioning in your machine and provide the right level of performance for the majority of various motion control machines.

Adapted to your applications, segments and operating environments



Lexium 18P/18E servo drives

To order a Lexium 18 servo drive, make up the reference as follows

Lexium 18 AC servo drive		LXM18	●	●	●●●	●●	●
Product Line	Pulse train input		P				
	EtherCAT		E				
Communication interface	I/O interface with PTI only			C			
	I/O interface with PTI, analog and Modbus RTU			D			
	EtherCAT with Digital I/O interface			N			
	EtherCAT with Digital I/O interface, and STO function			S			
Power	Size 1	0.1 kW/0.13 hp			U01		
		0.2 kW/0.27 hp			U02		
	Size 2	0.4 kW/0.54 hp			U04		
		0.75 kW/1.01 hp			U07		
	Size 3	1 kW/1.34 hp			U10		
		1.5 kW/2.01 hp			U15		
Power Supply Voltage	Single phase, 220Vac					M2	
	Three phases, 220Vac					M3	
Special function	No built-in EMC filter						X





VW3M4B01



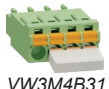
VW3M4B21



VW3M4B11



VW3M4B12



VW3M4B31



VW3A760R



VW3A773



VW3M3103



VW3A442

Accessories for Lexium 18P/18E servo drives

Designation	Description	For use with	Reference	Weight kg/lb
Connector set for power & motor	Servo drive power input and output connector kit	LXM18E LXM18P	VW3M4B01	0.012/0.026
Connector kit for encoder	6-pin encoder connector kit	LXM18E LXM18P	VW3M4B21	0.008/0.018
IO connector	50-pin IO connector kit	LXM18P	VW3M4B11	0.035/0.08
IO connector	20-pin IO connector kit	LXM18E	VW3M4B12	0.017/0.04
STO plug with insertion bridge	STO plug with insertion bridge	LXM18E	VW3M4B31	0.003/0.01

External braking resistor (1)

Power rating range	Ohmic value (Ω)	Continuous power (W)	Connection	Degree of protection	Reference	Weight kg/lb
100 W, 200 W, 400 W	72	400	3 m cable (9.84 ft)	IP65	VW3A760R30	1.620/3.571
750 W, 1 kW, 1.5 kW	27	400	0.75 m cable (2.46 ft)	IP65	VW3A760R07	0.930/2.050
2 kW, 3 kW	16	960	M6 terminal	IP20 UL	VW3A7733	4.000/8.818

Holding brake controller (HBC)

Designation	Description	Reference	Weight kg/lb
Holding brake controller	24 V $\bar{\text{---}}$ power supply Max. power 0.05 kW/0.07 hp IP 20 For mounting on 55 mm/2.17 in \perp rail	VW3M3103	0.600/1.323

Additional EMC input filters for Lexium 18P/18E servo drives (2)

For servo drive 1x EMC filter and a single Lexium 18P/18E servo drive	Nominal power	Line current	Reference	Weight kg/lb
Single phase 220Vac, 200Vac -15%...240Vac +10%				
LXM18●●U01M2X LXM18●●U02M2X LXM18●●U04M2X LXM18●●U07M2X	0.1 to 0.75 kW (0.13 to 1.01 hp)	9 A	VW3A4420	0.600/1.323
LXM18●●U10M2X LXM18●●U15M2X	1 and 1.5 kW (1.34 and 2.01 hp)	16 A	VW3A4421	0.775/1.709
Three-phasesupplyvoltage:220Vac 200Vac-15%...240Vac+10%				
LXM18●●U20M3X LXM18●●U30M3X	2 and 3 kW (2.68 and 4.02 hp)	25 A	VW3A4423	1.350/2.976

(1) The total continuous power dissipated in the external braking resistor(s) must be less than or equal to the nominal power of the Lexium 18P/18E servo drive.

(2) Standard IEC/EN 61800-3: EMC immunity and conducted and radiated EMC emissions: Category C3 in environment 2: industrial premises.



GV2P●●

+



LC1●●●●●

+



LXM18P

or



LXM18E

Motor starters

Protection using class J fuses (UL certification)

Servo drive		Circuit-breaker		Contactor
Reference	Nominal power (kW/hp)	Reference	Rating (A)	Reference (1) (2)

Circuit-breakers for single drive installation according to IEC 60364-5-52

Single phase 220Vac, 200Vac -15%...240Vac +10%

LXM18●●U01M2X	0.1/0.13	GV2P10	6.3	LC1K0610●●
LXM18●●U02M2X	0.2/0.27	GV2P10	6.3	LC1K0610●●
LXM18●●U04M2X	0.4/0.54	GV2P14	10	LC1K09●●
LXM18●●U07M2X	0.75/1.01	GV2P16	14	LC1K09●●
LXM18●●U10M2X	1.0/1.34	GV2P20	18	LC1K09●●
LXM18●●U15M2X	1.5/2.01	GV2P22	25	LC1D18●●

Three-phase supply voltage: 220Vac, 200Vac -15%...240Vac +10%

LXM18●●U20M3X	2.0/2.68	GV2P22	25	LC1D18●●
LXM18●●U30M3X	3.0/4.02	GV2P32	32	LC1D32●●

(1) Composition of the contactors:
 LC1K0610●●: 3 poles + 1 N/O auxiliary contact
 LC1K09●●: 4 poles
 LC1D18●●: 3 poles + 1 N/O auxiliary contact + 1 N/C auxiliary contact
 Please refer to [contactors and protection relays](#) page on our web site.
 (2) Replace ●● with the control circuit voltage code given in the table below:

Reference	Frequency	Control circuit voltage	
		230Vac	240Vac
LC1K0610●● LC1K09●●	50/60 Hz	P7	U7
LC1D18●● LC1D32●●		230Vac	230/240Vac
	50 Hz	P5	U5
	60 Hz	-	U6
	50/60 Hz	P7	U7

For other available voltages between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Center.

Protection using class J fuses (UL certification)

Servo drive	Fuse to be placed upstream
Reference	Nominal power

Single phase 220Vac, 200Vac -15%...240Vac +10%

LXM18●●U01M2X	0.1 kW/0.13 hp	6 A
LXM18●●U02M2X	0.2 kW / 0.27 hp	6 A
LXM18●●U04M2X	0.4 kW / 0.54 hp	10 A
LXM18●●U07M2X	0.75 kW / 1.01 hp	15 A
LXM18●●U10M2X	1.0 kW / 1.34 hp	20 A
LXM18●●U15M2X	1.5 kW / 2.01 hp	25 A

Three-phase supply voltage: 220Vac, 200Vac -15%...240Vac +10%

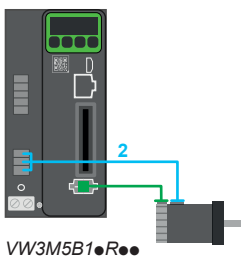
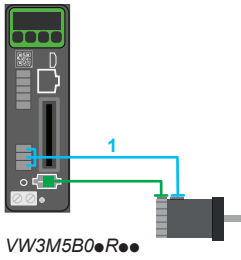
LXM18●●U20M3X	2.0 kW / 2.68 hp	25 A
LXM18●●U30M3X	3.0 kW / 4.02 hp	35 A



BCH18 servo motors		● ● ● ● ● ● ● ● ● ● C									
To order a BCH18 servo motor, make up the reference as follows:											
BCH18											
Inertia	Low inertia	L									
	Medium inertia	M									
Flange size	40 mm (1.57 in) – Shaft diameter 8 mm (0.31 in)	B									
	60 mm (2.36 in) – Shaft diameter 8 mm (0.31 in) or 14 mm (0.55 in)	D									
	80 mm (3.15 in) – Shaft diameter 14 mm (0.55 in) or 19 mm (0.75 in)	F									
	100 mm (3.94 in) – Shaft diameter 22 mm (0.87 in)	H									
	130 mm (5.12 in) – Shaft diameter 22 mm (0.87 in), 24 mm (0.94 in) or 28 mm (1.102 in)	M									
	180 mm (7.09 in) – Shaft diameter 35 mm (1.38 in)	R									
Nominal power	50 W (0.06 hp)	A5									
	100 W (0.13 hp)	01									
	200 W (0.16 hp)	02									
	400 W (0.53 hp)	04									
	750 W (1.00 hp)	07									
	850 W (1.13 hp)	08									
	1 kW (1.34 hp)	10									
	1.3 kW (1.74 hp)	13									
	1.5 kW (2.01 hp)	15									
	1.8 kW (2.41 hp)	18									
	2.0 kW (2.68 hp)	20									
	2.4 kW (3.22 hp)	24									
	3.0 kW (4.02 hp)	30									
Winding type (Power supply 220Vac)	Optimized in terms of torque (1500 rpm)						1				
	Optimized in terms of torque and speed of rotation (2000 rpm)						2				
	Optimized in terms of speed of rotation (3000 rpm)						3				
Shaft end	Parallel keyed shaft (shaft & housing IP 67)							3			
Encoder	23-bit optic incremental encoder								2		
	23-bit optic multi-turn absolute encoder								C		
Holding brake	Without holding brake									A	
	With holding brake									F	
Connections	Micro plastic connectors										5
	Military connectors										6
Voltage	220 Vac										C



Power cables for BCH18 servo motors										
Unshielded Power cables										
Designation	For use		For cable cross-section	Length		Reference	Weight			
	From servo drive	To servo motor		m	ft		kg	lb		
Toward load, Plastic connector, size 0 - item 1										
Equipped with one plastic connector Size 0 (Motor end)	LXM18E●U01M2X	BCH18LB●●	4G*0.34mm ² (22 AWG)	1.5	4.92	VW3M5B01RA5	0.060	0.132		
	LXM18P●U01M2X	BCH18MB●●		3	9.84	VW3M5B01R03	0.117	0.257		
				5	16.40	VW3M5B01R05	0.193	0.425		
				10	32.81	VW3M5B01R10	0.383	0.844		
				15	49.21	VW3M5B01R15	0.573	1.263		
				20	65.62	VW3M5B01R20	0.763	1.682		
		25	82.02	VW3M5B01R25	0.953	2.101				
Equipped with one plastic connector size 0 (Motor end), with brake	LXM18E●U01M2X	BCH18LB●●	6G*0.34mm ² (22 AWG)	1.5	4.92	VW3M5B02RA5	0.078	0.171		
	LXM18P●U01M2X	BCH18MB●●		3	9.84	VW3M5B02R03	0.152	0.336		
				5	16.40	VW3M5B02R05	0.252	0.555		
				10	32.81	VW3M5B02R10	0.501	1.104		
				15	49.21	VW3M5B02R15	0.750	1.653		
				20	65.62	VW3M5B02R20	0.999	2.202		
		25	82.02	VW3M5B02R25	1.248	2.751				
Toward back, Plastic connector, Size 0 - item 1										
Equipped with one plastic connector size 0 (Motor end)	LXM18E●U01M2X	BCH18LB●●	4G*0.34mm ² (22 AWG)	1.5	4.92	VW3M5B03RA5	0.060	0.132		
	LXM18P●U01M2X	BCH18MB●●		3	9.84	VW3M5B03R03	0.117	0.257		
				5	16.40	VW3M5B03R05	0.193	0.425		
				10	32.81	VW3M5B03R10	0.383	0.844		
				15	49.21	VW3M5B03R15	0.573	1.263		
				20	65.62	VW3M5B03R20	0.763	1.682		
		25	82.02	VW3M5B03R25	0.953	2.101				
Equipped with one plastic connector size 0, with brake (Motor end)	LXM18E●U01M2X	BCH18LB●●	6G*0.34mm ² (22 AWG)	1.5	4.92	VW3M5B04RA5	0.078	0.171		
	LXM18P●U01M2X	BCH18MB●●		3	9.84	VW3M5B04R03	0.152	0.336		
				5	16.40	VW3M5B04R05	0.252	0.555		
				10	32.81	VW3M5B04R10	0.501	1.104		
				15	49.21	VW3M5B04R15	0.750	1.653		
				20	65.62	VW3M5B04R20	0.999	2.202		
		25	82.02	VW3M5B04R25	1.248	2.751				
Toward load, Plastic connector, Size 1 - item 2										
Equipped with one plastic connector size 1 (Motor end)	LXM18●●U01M2X	BCH18LD●●	4G*0.75mm ² (18 AWG)	1.5	4.92	VW3M5B11RA5	0.097	0.214		
	LXM18●●U02M2X	BCH18LF●●		3	9.84	VW3M5B11R03	0.190	0.418		
	LXM18●●U04M2X	BCH18MD●●		5	16.40	VW3M5B11R05	0.313	0.690		
	LXM18●●U07M2X	BCH18MF●●		10	32.81	VW3M5B11R10	0.622	1.372		
	LXM18●●U10M2X			15	49.21	VW3M5B11R15	0.931	2.053		
				20	65.62	VW3M5B11R20	1.240	2.734		
		25	82.02	VW3M5B11R25	1.549	3.415				
Equipped with one plastic connector size 1 (Motor end), with brake	LXM18●●U01M2X	BCH18LD●●	4G*0.75mm ² (18 AWG)	1.5	4.92	VW3M5B12RA5	0.110	0.242		
	LXM18●●U02M2X	BCH18LF●●		3	9.84	VW3M5B12R03	0.216	0.475		
	LXM18●●U04M2X	BCH18MD●●		5	16.40	VW3M5B12R05	0.356	0.786		
	LXM18●●U07M2X	BCH18MF●●		10	32.81	VW3M5B12R10	0.708	1.562		
	LXM18●●U10M2X			15	49.21	VW3M5B12R15	1.060	2.338		
				20	65.62	VW3M5B12R20	1.412	3.114		
		25	82.02	VW3M5B12R25	1.764	3.890				
Toward back, Plastic connector, Size 1 - item 2										
Equipped with one plastic connector size 1 (Motor end)	LXM18●●U01M2X	BCH18LD●●	4G*0.75mm ² (18 AWG)	1.5	4.92	VW3M5B13RA5	0.097	0.214		
	LXM18●●U02M2X	BCH18LF●●		3	9.84	VW3M5B13R03	0.190	0.418		
	LXM18●●U04M2X	BCH18MD●●		5	16.40	VW3M5B13R05	0.313	0.690		
	LXM18●●U07M2X	BCH18MF●●		10	32.81	VW3M5B13R10	0.622	1.372		
	LXM18●●U10M2X			15	49.21	VW3M5B13R15	0.931	2.053		
				20	65.62	VW3M5B13R20	1.240	2.734		
		25	82.02	VW3M5B13R25	1.549	3.415				
Equipped with one plastic connector size 1 (Motor end), with brake	LXM18●●U01M2X	BCH18LD●●	4G*0.75mm ² (18 AWG)	1.5	4.92	VW3M5B14RA5	0.110	0.242		
	LXM18●●U02M2X	BCH18LF●●		3	9.84	VW3M5B14R03	0.216	0.475		
	LXM18●●U04M2X	BCH18MD●●		5	16.40	VW3M5B14R05	0.356	0.786		
	LXM18●●U07M2X	BCH18MF●●		10	32.81	VW3M5B14R10	0.708	1.562		
	LXM18●●U10M2X			15	49.21	VW3M5B14R15	1.060	2.338		
				20	65.62	VW3M5B14R20	1.412	3.114		
		25	82.02	VW3M5B14R25	1.764	3.890				



Power cables for BCH18 motors

Unshielded Power cables

Designation	For use		For cable cross-section	Length		Reference	Weight	
	From servo drive	To servo motor		m	ft		kg	lb

Military connector, Size 1 - item 3

Equipped with one military connector size 1 (Motor end), and free wires (servo drive side)	LXM18●●U10M2X	BCH18LH103●●	4G*1.5mm ² (16 AWG)	1.5	4.92	VW3M5B21RA5	0.291	0.643
	LXM18●●U15M2X	BCH18LH153●●		3	9.84	VW3M5B21R03	0.482	1.062
		BCH18MM081●●		5	16.40	VW3M5B21R05	0.735	1.621
		BCH18MM102●●		10	32.81	VW3M5B21R10	1.369	3.019
		BCH18MM131●●		15	49.21	VW3M5B21R15	2.003	4.416
		BCH18MM152●●		20	65.62	VW3M5B21R20	2.637	5.814

Equipped with one military connector size 1, with brake (Motor end) and free wires (servo drive side)	LXM18●●U10M2X	BCH18LH103●●	4G*1.5mm ² (16 AWG) +2*0.5mm ² (20 AWG)	1.5	4.92	VW3M5B22RA5	0.329	0.725
	LXM18●●U15M2X	BCH18LH153●●		3	9.84	VW3M5B22R03	0.556	1.226
		BCH18MM081●●		5	16.40	VW3M5B22R05	0.859	1.895
		BCH18MM102●●		10	32.81	VW3M5B22R10	1.617	3.566
		BCH18MM131●●		15	49.21	VW3M5B22R15	2.375	5.237
		BCH18MM152●●		20	65.62	VW3M5B22R20	3.133	6.908

Military connector, Size 1 - item 4

Equipped with one military connector size 2 (Motor end) and free wires (servo drive side)	LXM18●●U20M3X	BCH18LH203●●	4G*2.5mm ² (14 AWG)	1.5	4.92	VW3M5B31RA5	0.395	0.871
	LXM18●●U30M3X	BCH18LM303●●		3	9.84	VW3M5B31R03	0.687	1.514
		BCH18MM181●●		5	16.40	VW3M5B31R05	1.076	2.372
		BCH18MM202●●		10	32.81	VW3M5B31R10	2.049	4.518
				15	49.21	VW3M5B31R15	3.022	6.663
				20	65.62	VW3M5B31R20	3.995	8.808

Equipped with one military connector size 2, with brake (Motor end) and free wires (servo drive side)	LXM18●●U20M3X	BCH18LH203●●	4G*2.5mm ² (14 AWG) + 2*0.5mm ² (20 AWG)	1.5	4.92	VW3M5B32RA5	0.433	0.955
	LXM18●●U30M3X	BCH18LM303●●		3	9.84	VW3M5B32R03	0.763	1.681
		BCH18MM181●●		5	16.40	VW3M5B32R05	1.202	2.651
		BCH18MM202●●		10	32.81	VW3M5B32R10	2.301	5.073
				15	49.21	VW3M5B32R15	3.400	7.496
				20	65.62	VW3M5B32R20	4.499	9.919

Military connector, Size 2 - item 4

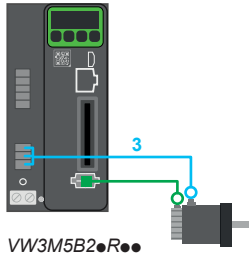
Equipped with one military connector size 3 (Motor end) and free wires (servo drive side)	LXM18●●U30M3X	BCH18MR241●●	4G*2.5mm ² (14 AWG)	1.5	4.92	VW3M5B41RA5	0.443	0.977
		BCH18MR301●●		3	9.84	VW3M5B41R03	0.735	1.620
				5	16.40	VW3M5B41R05	1.124	2.478
				10	32.81	VW3M5B41R10	2.097	4.623
				15	49.21	VW3M5B41R15	3.070	6.768
				20	65.62	VW3M5B41R20	4.043	8.913

Equipped with one military connector size 3, with brake (Motor end) and free wires (servo drive side)	LXM18●●U30M3X	BCH18MR241●●	4G*2.5mm ² (14 AWG) + 2*0.5mm ² (20 AWG)	1.5	4.92	VW3M5B42RA5	0.481	1.060
		BCH18MR301●●		3	9.84	VW3M5B42R03	0.811	1.787
				5	16.40	VW3M5B42R05	1.250	2.756
				10	32.81	VW3M5B42R10	2.349	5.179
				15	49.21	VW3M5B42R15	3.448	7.602
				20	65.62	VW3M5B42R20	4.547	10.025

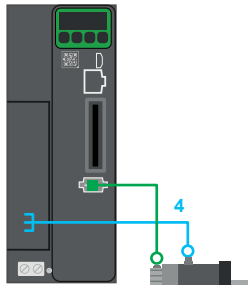
Accessories

Designation	Description	Reference	Weight	
			kg	lb

Motor power connector kits	Motor power connector kit, plastic size 0	VW3M5B10	0.005	0.011
	Motor power connector kit, toward load, plastic size 1	VW3M5B11	0.007	0.015
	Motor power connector kit, toward back, plastic size 1	VW3M5B12	0.007	0.015
	Motor power connector kit, military size 1	VW3M5B21	0.100	0.220
	Motor power connector kit, military size 2	VW3M5B22	0.155	0.342



VW3M5B2●R●●



VW3M5B3●R●●
VW3M5B4●R●●



VW3M5B10 VW3M5B11



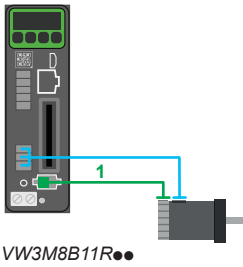
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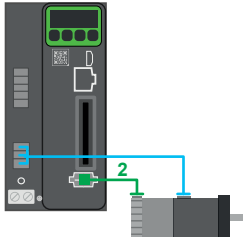
VW3M5B21 VW3M5B22

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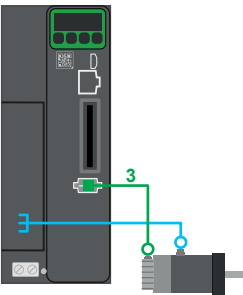
Encoder cables for BCH18 servo motors									
Shielded Encoder cables for incremental and singleturn absolute encoders									
Designation	For use		For cable cross-section	Length		Reference	Weight		
	From servo drive	To servo motor		m	ft		kg	lb	
Toward load, Plastic connector - item 1									
Equipped with one plastic connector (Motor end) and Sunchu 6-pin connector (servo drive side)	LXM18●●U01M2X	40/60/80 mm	2*0.5mm ²	1.5	4.92	VW3M8B11RA5	0.105	0.232	
	LXM18●●U02M2X	flange	(20 AWG) +	3	9.84	VW3M8B11R03	0.200	0.440	
	LXM18●●U04M2X	(1.57/ 2.36/	2*0.25 mm ²	5	16.40	VW3M8B11R05	0.325	0.717	
	LXM18●●U07M2X	3.15 in flange)	(24 AWG)	10	32.81	VW3M8B11R10	0.639	1.409	
	LXM18●●U10M2X			15	49.21	VW3M8B11R15	0.953	2.101	
				20	65.62	VW3M8B11R20	1.267	2.794	
				25	82.02	VW3M8B11R25	1.581	3.486	
Toward back, Plastic connector - item 2									
Equipped with one plastic connector (Motor end) and Sunchu 6-pin connector (servo drive side)	LXM18●●U01M2X	40/60/80 mm	2*0.5mm ²	1.5	4.92	VW3M8B13RA5	0.105	0.232	
	LXM18●●U02M2X	flange	(20 AWG)	3	9.84	VW3M8B13R03	0.200	0.440	
	LXM18●●U04M2X	(1.57/ 2.36/	+ 2*0.25 mm ²	5	16.40	VW3M8B13R05	0.325	0.717	
	LXM18●●U07M2X	3.15 in flange)	(24 AWG)	10	32.81	VW3M8B13R10	0.639	1.409	
	LXM18●●U10M2X			15	49.21	VW3M8B13R15	0.953	2.101	
				20	65.62	VW3M8B13R20	1.267	2.794	
				25	82.02	VW3M8B13R25	1.581	3.486	
Military connector - item 3									
Equipped with one military connector (Motor end) and Sunchu 6-pin connector (servo drive side)	LXM18●●U10M2X	100/130/180 mm	2*0.5mm ²	1.5	4.92	VW3M8B21RA5	0.139	0.306	
	LXM18●●U15M2X	flange	(20 AWG)	3	9.84	VW3M8B21R03	0.233	0.514	
	LXM18●●U20M3X	(3.94/ 5.12/	+ 2*0.25 mm ²	5	16.40	VW3M8B21R05	0.359	0.790	
	LXM18●●U30M3X	7.09 in flange)	(24 AWG)	10	32.81	VW3M8B21R10	0.673	1.483	
				15	49.21	VW3M8B21R15	0.987	2.175	
				20	65.62	VW3M8B21R20	1.301	2.867	
				25	82.02	VW3M8B21R25	1.615	3.559	
Shielded encoder cables for multi-turn absolute encoder, with battery									
Toward load, MICRO plastic connector, with Battery* - item 4									
Equipped with one MICRO plastic connector (Motor end), and a battery (servo drive side)	LXM18●●U01M2X	40/60/80 mm	2*0.5mm ²	1.5	4.92	VW3M8B16RA5	0.148	0.326	
	LXM18●●U02M2X	flange	(20 AWG)	3	9.84	VW3M8B16R03	0.249	0.549	
	LXM18●●U04M2X	(1.57/2.36/3.15	+2*(2*0.25)	5	16.40	VW3M8B16R05	0.384	0.847	
	LXM18●●U07M2X	in flange)	mm ² (24 AWG)	10	32.81	VW3M8B16R10	0.721	1.590	
	LXM18●●U10M2X			15	49.21	VW3M8B16R15	1.058	2.332	
				20	65.62	VW3M8B16R20	1.395	3.075	
				25	82.02	VW3M8B16R25	1.732	3.818	
Toward back, MICRO plastic connector, with Battery* - item 5									
Equipped with one MICRO plastic connector (Motor end) and a battery (servo drive side)	LXM18●●U01M2X	40/60/80 mm	2*0.5mm ²	1.5	4.92	VW3M8B18RA5	0.148	0.326	
	LXM18●●U02M2X	flange	(20 AWG)	3	9.84	VW3M8B18R03	0.249	0.549	
	LXM18●●U04M2X	(1.57/2.36/3.15	+2*(2*0.25)	5	16.40	VW3M8B18R05	0.384	0.847	
	LXM18●●U07M2X	in flange)	mm ² (24 AWG)	10	32.81	VW3M8B18R10	0.721	1.590	
	LXM18●●U10M2X			15	49.21	VW3M8B18R15	1.058	2.332	
				20	65.62	VW3M8B18R20	1.395	3.075	
				25	82.02	VW3M8B18R25	1.732	3.818	
Military connector with battery* - item 6									
Equipped with one Military connector (Motor end) and a battery (servo drive side)	LXM18●●U10M2X	100/130/180 mm	2*0.5mm ²	1.5	4.92	VW3M8B24RA5	0.183	0.403	
	LXM18●●U15M2X	flange	(20 AWG)	3	9.84	VW3M8B24R03	0.284	0.626	
	LXM18●●U20M3X	(3.94/5.12/7.09	+2*(2*0.25)	5	16.40	VW3M8B24R05	0.419	0.924	
	LXM18●●U30M3X	in flange)	mm ² (24 AWG)	10	32.81	VW3M8B24R10	0.756	1.667	
				15	49.21	VW3M8B24R15	1.093	2.410	
				20	65.62	VW3M8B24R20	1.430	3.153	
				25	82.02	VW3M8B24R25	1.767	3.896	



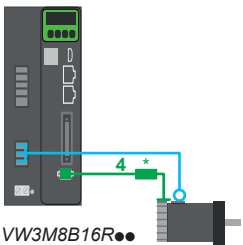
VW3M8B11R●●



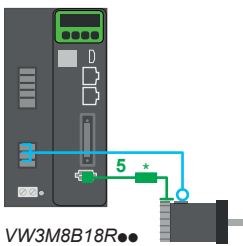
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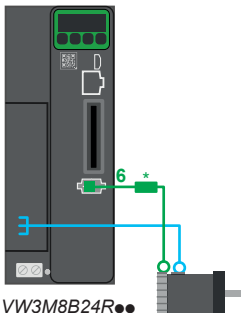
VW3M8B21R●●



VW3M8B16R●●



VW3M8B18R●●



VW3M8B24R●●



Encoder cables for BCH18 servo motors (Continued)

Shielded encoder cables for multi-turn absolute encoder, without battery

Designation	For use		For cable cross-section	Length		Reference	Weight	
	with servo drive	To servo motor		m	ft		kg	lb

Toward load, MICRO plastic connector without battery- item 7

Equipped with one MICRO plastic connector (Motor end)	LXM18●●U01M2X	40/60/80 mm	2*0.5mm ² (20 AWG)	1.5	4.92	VW3M8B12RA5	0.112	0.247
	LXM18●●U02M2X	flange						
	LXM18●●U04M2X	(1.57/2.36/3.15 in flange)	+2*(2*0.25) mm ² (24 AWG)	3	9.84	VW3M8B12R03	0.213	0.470
	LXM18●●U07M2X			5	16.40	VW3M8B12R05	0.348	0.767
	LXM18●●U10M2X			10	32.81	VW3M8B12R10	0.685	1.510
				15	49.21	VW3M8B12R15	1.022	2.253
				20	65.62	VW3M8B12R20	1.359	2.996
				25	82.02	VW3M8B12R25	1.696	3.739

Toward back, MICRO plastic connector without battery- item 8

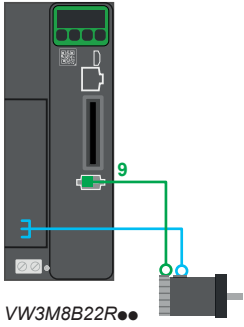
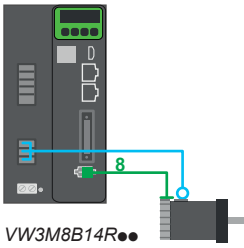
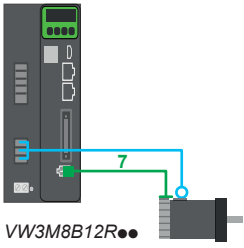
Equipped with one MICRO plastic connector (Motor end)	LXM18●●U01M2X	40/60/80 mm	2*0.5mm ² (20 AWG)	1.5	4.92	VW3M8B14RA5	0.112	0.247
	LXM18●●U02M2X	flange						
	LXM18●●U04M2X	(1.57/2.36/3.15 in flange)	+2*(2*0.25) mm ² (24 AWG)	3	9.84	VW3M8B14R03	0.213	0.470
	LXM18●●U07M2X			5	16.40	VW3M8B14R05	0.348	0.767
	LXM18●●U10M2X			10	32.81	VW3M8B14R10	0.685	1.510
				15	49.21	VW3M8B14R15	1.022	2.253
				20	65.62	VW3M8B14R20	1.359	2.996
				25	82.02	VW3M8B14R25	1.696	3.739

Military connector without battery- item 9

Equipped with one Military connector (Motor end)	LXM18●●U10M2X	100/130/180 mm	2*0.5mm ² (20 AWG)	1.5	4.92	VW3M8B22RA5	0.147	0.324
	LXM18●●U15M2X	flange						
	LXM18●●U20M3X	(3.94/5.12/7.09 in flange)	+2*(2*0.25) mm ² (24 AWG)	3	9.84	VW3M8B22R03	0.248	0.547
	LXM18●●U30M3X			5	16.40	VW3M8B22R05	0.383	0.844
				10	32.81	VW3M8B22R10	0.720	1.587
				15	49.21	VW3M8B22R15	1.057	2.330
				20	65.62	VW3M8B22R20	1.394	3.073
				25	82.02	VW3M8B22R25	1.731	3.816

Accessories

Designation	Description	Reference	Weight	
			kg	lb
Motor encoder connector kits	Plastic	VW3M8B11	0.005	0.011
	Military	VW3M8B21	0.035	0.077
Battery	Battery case including battery, 3.6V, 2700 mAh To use with LXM18P/18E servo drives	VW3M8BAT1	0.055	0.121



VW3M8B11



VW3M8B21



VW3M8BAT1

6

Notes

A series of horizontal dotted lines for writing notes, spanning the width of the page.

A man and a woman are in a server room. The man, wearing a blue and white checkered shirt, is leaning over the woman, who is wearing a black jacket and glasses. They are both looking at a tablet held by the woman. The woman is pointing her right index finger towards a rack of server hardware. The rack contains several shelves of equipment, including a green monitor displaying a warning symbol, various white and black modules, and numerous cables. The background shows more server racks and a red fire extinguisher.

07. Easy Altivar variable speed drives

Altivar 310

Variable speed drives for application from 0.37 to 22 kW / 0.5 to 30 HP.



- Integrate as standard the Modbus communication protocol
- Minimize installation and debugging time due to the plug & play concept
- Easy to commission with short menu by integrated keypad
- With stand a 55 °C/131 °F ambient air temperature without derating
- Innovated air flow design and thicker coating which avoids polluting PCB

The compact size of the **Easy Altivar 310**, its robust design, its ease of installation, based on the principle of Plug & Play, its integrated functions and macro configuration make it particularly suitable for applications involving industrial machines and certain consumer machines. The Easy Altivar 310 has been developed with no compromise on quality and strong robustness in any situation even in harsh environment. Reduces thermal stresses on the electrical distribution network.

Adapted to your applications, segments and operating environments



Material handling



Packaging and printing machine



Wood making machine



Machine tools



Textile machine



Ceramic machine



Pump and fan



ATV310H037N4E



ATV310HU15N4E



ATV310HU30N4E

Drives for asynchronous motor - Three-phase supply voltage: 380...460 V 50/60 Hz

Motor	Line support		Easy Altivar 310						Reference (6)	Weight (3) kg/lb
	Power indicated on rating plate (1)		Max. input current (2)	Apparent power	Maximum continuous output current (I _n) (1)	Maximum transient current for 60s	Dissipated power at maximum output current (I _n) (1)			
	ND: Normal duty (4) HD: Heavy duty (5)							380 V		
	kW	HP	A	A	kVA	A	A	W		
HD	0.37	0.5	2.1	1.8	1.4	1.5	2.3	22.7	ATV310H037N4E	0.800/1.760
HD	0.75	1	3.5	3.1	2.5	2.3	3.5	34.1	ATV310H075N4E	0.800/1.760
HD	1.5	2	6.5	5.4	4.3	4.1	6.2	60.4	ATV310HU15N4E	1.100/2.430
HD	2.2	3	8.8	7.2	5.7	5.5	8.3	75.5	ATV310HU22N4E	1.100/2.430
HD	3	4	11.1	9.2	7.3	7.1	10.7	90.8	ATV310HU30N4E	1.800/3.970
ND	4	5	14.2	11.6	9.3	8.9	9.8	120.4		
HD	4	5	13.7	11.4	9.1	9.5	14.3	115.1	ATV310HU40N4E	1.800/3.970
ND	5.5	7.5	18.0	14.9	15.1	12.1	13.3	158.3		
HD	5.5	7.5	21.3	14.3	11.4	12.6	18.9	162.4	ATV310HU55N4E	1.800/3.970
ND	7.5	10	23.0	19.0	15.1	16.0	17.6	201.9		

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation. If operation above 4 kHz needs to be continuous, the nominal drive current should be derated by 10% for 8 kHz and 20% for 12 kHz.

The switching frequency can be set between 2 and 12 kHz for all ratings.

Above 4 kHz, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise.

See the derating curves in the User Manual, available on our local website.

(2) Typical value for the indicated motor power and for the maximum prospective line I_{sc}.

• ≤ 4kW, network short circuit current I_{sc} ≤ 5kA

• > 4kW, network short circuit current I_{sc} : ≤ 22kA for Heavy duty, ≤ 5kA for Normal duty

(3) Weight of product without packaging.

(4) Values given for applications requiring significant overload (up to 150% for 60 s).

(5) Values given for applications requiring slight overload (up to 110% for 60 s).



ATV310HU75N4E



ATV310HD15N4E



ATV310HD22N4E

Drives for asynchronous motor - Three-phase supply voltage: 380...460 V 50/60 Hz

Motor			Line support			Easy Altivar 310			Reference (6)	Weight (3) kg/lb
Power indicated on rating plate (1)			Max. input current (2)		Apparent power	Maximum continuous output current (I _n) (1)	Maximum transient current for 60s	Dissipated power at maximum output current (I _n) (1)		
ND: Normal duty (4)										
HD: Heavy duty (5)			380 V	460 V	460 V	380 V				
	kW	HP	A	A	kVA	A	A	W		
HD	7.5	10	26.6	22.4	17.8	17.0	25.5	241.2	ATV310HU75N4E	3.700/8.16
ND	11	15	29.5	24.8	19.4	22.8	25.1	317.8		
HD	11	15	36.1	30.4	24.2	24	36.0	337.1	ATV310HD11N4E	3.700/8.16
ND	15	20	38.6	32.5	25.4	30	33.0	407.0		
HD	15	20	46.5	38.5	30.7	33	49.5	416.0	ATV310HD15N4E	6.300/13.9
ND	18.5	25	46.6	38.8	31.2	36	39.6	451.7		
HD	18.5	25	55.3	45.8	36.5	39	58.5	515.9	ATV310HD18N4E	6.300/13.9
ND	22	30	54.1	45.1	35.7	43	47.3	539.4		
HD	22	30	64.2	53.2	46.2	46	69.0	568.8	ATV310HD22N4E	8.500/18.7
ND	30	40	71.2	59.2	47.0	60	66.0	735.6		
HD	15	20	46.5	38.5	30.7	33	49.5	424.4	ATV310HD15N4EF	6.700/14.8
ND	18.5	25	46.6	38.8	31.2	36	39.6	460.2		
HD	18.5	25	55.3	45.8	36.5	39	58.5	527.8	ATV310HD18N4EF	6.700/14.8
ND	22	30	54.1	45.1	35.7	43	47.3	550.9		
HD	22	30	64.2	53.2	46.2	46	69.0	593.5	ATV310HD22N4EF	9.700/21.4
ND	30	40	71.2	59.2	47.0	60	66.0	765.9		

Dimensions (overall)

Drives with heatsinks	W x H x D	
	mm	in.
ATV310H037N4S	72 x 143 x 130	2.83 x 5.63 x 5.12
ATV310H075N4S	72 x 143 x 140	2.83 x 5.63 x 5.51
ATV310HU15N4S ATV310HU22N4S	105 x 143 x 151	4.13 x 5.63 x 5.94
ATV310HU30N4S ATV310HU40N4S ATV310HU55N4S	140 x 184 x 151	5.51 x 7.24 x 5.94
ATV310HU75N4S ATV310HD11N4S	150 x 232 x 171	5.91 x 9.13 x 6.73

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation.

If operation above 4 kHz needs to be continuous, the nominal drive current should be derated by 10% for 8 kHz and 20% for 12 kHz.

The switching frequency can be set between 2 and 12 kHz for all ratings.

Above 4 kHz, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise.

See the derating curves in the User Manual, available on our local website.

(2) Typical value for the indicated motor power and for the maximum prospective line I_{sc}.

• ≤ 4kW, network short circuit current I_{sc} ≤ 5kA

• > 4kW, network short circuit current I_{sc} : ≤ 22kA for Heavy duty, ≤ 5kA for Normal duty

(3) Weight of product without packaging.

(4) Values given for applications requiring significant overload (up to 150% for 60 s).

(5) Values given for applications requiring slight overload (up to 110% for 60 s).



ATV310H037N4S



ATV310HU15N4S



ATV310HU30N4S



ATV310HU75N4S

Drives for asynchronous motor - Three-phase supply voltage: 380...460 V 50/60 Hz

Motor			Line support			Easy Altivar 310			Reference (6)	Weight (3) kg/lb
Power indicated on rating plate (1)			Max. input current (2)		Apparent power	Maximum continuous output current (I _n) (1)	Maximum transient current for 60s	Dissipated power at maximum output current (I _n) (1)		
ND: Normal duty (4)										
HD: Heavy duty (5)			380 V	460 V	460 V	380 V				
	kW	HP	A	A	kVA	A	A	W		
HD	0.75	1	3.5	3.1	2.5	2.3	3.5	34.1	ATV310H075N4S	0.800/1.760
HD	1.5	2	6.5	5.4	4.3	4.1	6.2	60.4	ATV310HU15N4S	1.100/2.430
HD	2.2	3	8.8	7.2	5.7	5.5	8.3	75.5	ATV310HU22N4S	1.100/2.430
HD	3	4	11.1	9.2	7.3	7.1	10.7	90.8	ATV310HU30N4S	1.800/3.970
ND	4	5	14.2	11.6	9.3	8.9	9.8	120.4		
HD	4	5	13.7	11.4	9.1	9.5	14.3	115.1	ATV310HU40N4S	1.800/3.970
ND	5.5	7.5	18.0	14.9	15.1	12.1	13.3	158.3		
HD	5.5	7.5	21.3	14.3	11.4	12.6	18.9	162.4	ATV310HU55N4S	1.800/3.970
ND	7.5	10	23.0	19.0	15.1	16.0	17.6	201.9		
HD	7.5	10	26.6	22.4	17.8	17	25.5	241.2	ATV310HU75N4S	3.700/8.160
ND	11	15	29.5	24.8	19.4	22.8	25.1	317.8		
HD	11	15	36.1	30.4	24.2	24	36	337.1	ATV310HD11N4S	3.700/8.160
ND	15	20	38.6	32.5	25.4	30	33	407.0		

Dimensions (overall)

Drives with heatsinks	W x H x D	
	mm	in.
ATV310H037N4S	72 x 143 x 130	2.83 x 5.63 x 5.12
ATV310H075N4S	72 x 143 x 140	2.83 x 5.63 x 5.51
ATV310HU15N4S ATV310HU22N4S	105 x 143 x 151	4.13 x 5.63 x 5.94
ATV310HU30N4S ATV310HU40N4S ATV310HU55N4S	140 x 184 x 151	5.51 x 7.24 x 5.94
ATV310HU75N4S ATV310HD11N4S	150 x 232 x 171	5.91 x 9.13 x 6.73

- (1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation.
If operation above 4 kHz needs to be continuous, the nominal drive current should be derated by 10% for 8 kHz and 20% for 12 kHz.
The switching frequency can be set between 2 and 12 kHz for all ratings.
Above 4 kHz, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise.
See the derating curves in the User Manual, available on our local website.
- (2) Typical value for the indicated motor power and for the maximum prospective line I_{sc}.
• ≤ 4kW, network short circuit current I_{sc} ≤ 5kA
• > 4kW, network short circuit current I_{sc} : ≤ 22kA for Heavy duty, ≤ 5kA for Normal duty
- (3) Weight of product without packaging.
- (4) Values given for applications requiring significant overload (up to 150% for 60 s).
- (5) Values given for applications requiring slight overload (up to 110% for 60 s).

Configuration tools

Description	For drives	Reference	Weight kg/lb
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Simple Loader, Multi-Loader configuration tools and associated cable

<p>Simple Loader tool For duplicating one drive configuration on another drive. The drives must be powered-up. The tool is supplied with a cordset equipped with 2 RJ45 connectors.</p>	ATV310H●●●N4●	VW3A8120	—
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<p>Multi-Loader tool 1 For copying a configuration on a PC or drive and duplicating it on another drive. The drives do not need to be powered-up. Supplied with the tool: <ul style="list-style-type: none"> ■ 1 cordset equipped with 2 RJ45 connectors ■ 1 cordset equipped with a USB type A connector and a USB Mini-B type connector ■ 1 x 2 GB SD memory card ■ 1 female/female RJ45 adaptor ■ 4 AA/LR6 1.5 V batteries </p>	ATV310H●●●N4●	VW3A8121	—
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<p>Cordset for Multi-Loader tool 2 For connecting the Multi-Loader tool to the Easy Altivar 310 drive in its packaging. Equipped with a non-locking RJ45 connector with special mechanical catch on the drive end and an RJ45 connector on the Multi-Loader end.</p>	ATV310H●●●N4● in its packaging	VW3A8126	—
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Configuring the drive in its packaging with the Multi-Loader tool VW3A8121+ cordset VW3A8126



VW3A1006 with cover open: RUN, FWD/REV and STOP buttons accessible



VW3A1104R10

Remote display terminals and associated cordsets

Description	Degree of protection	For drives	Reference	Weight kg/lb
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<p>Remote display terminals For fixing the Human-Machine interface on an enclosure door with IP 54 or IP 65 degree of protection. A remote-fixing cordset VW3A1104R●● is also required.</p>	IP 54	ATV310H●●●N4●	VW3A1006	0.250/0.550
	IP 65	ATV310H●●●N4●	VW3A1007	0.275/0.610

<p>Remote-fixing cordsets equipped with 2 RJ45 connectors. For connecting the VW3A1 006 or VW3A1007 remote display terminal to the Easy Altivar 310 drive.</p>	Length: 1 m/3.28 ft	ATV310H●●●N4●	VW3A1104R10	0.050/0.110
	Length: 3 m/9.84 ft	ATV310H●●●N4●	VW3A1104R30	0.150/0.330

Dimensions (overall)

Remote display terminal	W x H x D	
	mm	in.
VW3A1006	50 x 70 x 22.7	1.97 x 2.76 x 0.89
VW3A1007	66 x 106 x 26.7	2.6 x 4.17 x 1.05



VW3A455●

Line chokes								
For drives						Choke		
Drive Reference	Duty	Line current without choke		Line current with choke		Reference	Weight kg/lb	
		380 V	460 V	380 V	460 V			
		A	A	A	A			
ATV310H037N4●	HD	2.1	1.8	1.1	1	VW3A4551	1.500/3.310	
ATV310H075N4●	HD	3.5	3.1	1.9	1.7			
ATV310HU15N4●	HD	6.5	5.4	3.5	2.9	VW3A4552	3.700/8.160	
ATV310HU22N4●	HD	8.8	7.2	5.1	4.4			
ATV310HU30N4●	HD	11.1	9.2	6.6	5.6			
	ND	14.2	11.6	8.5	7.1			
ATV310HU40N4●	HD	13.7	11.4	8.5	7.7	VW3A4553	4.100/9.040	
	ND	18	14.9	11.6	9.9			
ATV310HU55N4●	HD	21.3	14.3	11.6	9.9			
	ND	23	19	15.3	12.8			
ATV310HU75N4●	HD	26.6	22.4	16.1	14.2	VW3A4554	6.150/13.230	
	ND	29.5	24.8	22.2	18.8			
ATV310HD11N4●	HD	36.1	30.4	22	18.3			
	ND	38.6	32.5	29.9	25			
ATV310HD15N4●	HD	46.5	38.5	28.9	24.4			
	ND	46.6	38.8	29	29			
ATV310HD18N4●	HD	55.3	45.8	36.4	31.6	VW3A4555	11.000/24.251	
	ND	54.1	45.1	41.8	35.3			
ATV310HD22N4●	HD	64.2	53.2	42.4	36.3			
	ND	71.2	59.2	57.2	48.3	VW3A4556	16.000/35.270	
ATV310HD15N4EF	HD	46.5	38.5	28.9	24.4	VW3A4554	6.000/13.228	
	ND	46.6	38.8	29	29			
ATV310HD18N4EF	HD	55.3	45.8	36.4	31.6	VW3A4555	11.000/24.251	
	ND	54.1	45.1	41.8	35.3			
ATV310HD22N4EF	HD	64.2	53.2	42.4	36.3			
	ND	71.2	59.2	57.2	48.3	VW3A4556	16.000/35.270	



VW3A455●

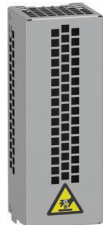
Motor chokes (1) (2)				
Drive Reference	Operation mode Duty	Rated current A	Power loss W	Choke Reference
ATV310H037N4●	HD	4	45	VW3A4551
ATV310H075N4●	HD			
ATV310HU15N4●	HD	10	65	VW3A4552
ATV310HU22N4●	HD			
ATV310HU30N4●	HD			
	ND			
ATV310HU40N4●	HD			
	ND	17	75	VW3A4553
ATV310HU55N4●	HD			
	ND			
ATV310HU75N4●	HD	31	90	VW3A4554
	ND			
ATV310HD11N4●	HD			
	ND			
ATV310HD15N4●	HD	60	94	VW3A4555
	ND			
ATV310HD18N4●	HD			
	ND			
ATV310HD22N4●	HD			
	ND	107	260	VW3A4556
ATV310HD15N4EF	HD	60	94	VW3A4555
	ND			
ATV310HD18N4EF	HD			
	ND			
ATV310HD22N4EF	HD			
		107	260	VW3A4556
Dimensions (overall)				
Line chokes or motor chokes	W x H x D			
	mm		in.	
VW3A4551	100 x 135 x 60		3.94 x 5.31 x 2.36	
VW3A4552, VW3A4553	130 x 155 x 90		5.12 x 6.1 x 3.54	
VW3A4554	155 x 170 x 135		6.1 x 6.69 x 5.31	
VW3A4555	180 x 210 x 160		7.1 x 8.27 x 6.30	
VW3A4556	270 x 210 x 180		10.63 x 8.27 x 7.09	

(1) Motor cable length given for a switching frequency of 4 kHz.

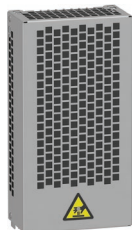
(2) With motor chokes, all the ranges drive can be used for maximum 100 m/328.08 ft with shielded motor cables and 200 m/656.17 ft with unshielded motor cables.



VW3A7723



VW3A7730



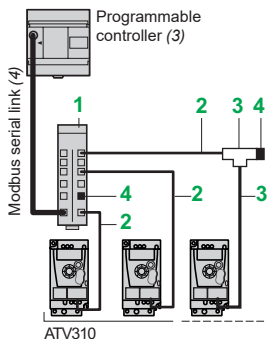
VW3A7732



LU9GC3



VW3A8306R03



Example of Modbus diagram with connection via splitter box and RJ45 connectors

Braking resistors					
For drives	Minimum Ohmic value Ω	Ohmic value at		Reference	Weight kg/lb
		20° C/68 °F	50° C/122 °F (1)		
		Ω	W		
Not protected resistor (IP00) (2)					
ATV310HU15N4●	80	100	28	VW3A7723	0.600/1.320
ATV310HU22N4●	60				
ATV310HU30N4●	36	100	35	VW3A7725	0.850/1.870
ATV310HU40N4●	36				
Protected resistor (IP20 or 23)					
ATV310HU15N4●	80	100	100	VW3A7730	1.500/3.306
ATV310HU22N4●	60				
ATV310HU30N4●	36				
ATV310HU40N4●	36				
ATV310HU55N4●	28	60	160	VW3A7731	2.000/4.409
ATV310HU75N4●	28				
ATV310HD11N4●	28	28	300	VW3A7732	3.000/6.613
ATV310HD15N4●	16	16	960	VW3A7733	4.000/8.818
ATV310HD18N4●	10	16	960		
ATV310HD22N4●	10	16	960		
ATV310HD15N4EF	16	16	960		
ATV310HD18N4EF	10	16	960		
ATV310HD22N4EF	10	16	960		

Modbus serial link					
Description	Item no.	Length m/ft	Unit reference	Weight kg/lb	
Connection via splitter box and RJ45 connectors					
Modbus splitter box 10 RJ45 connectors and 1 screw terminal	1	–	LU9GC3	0.500/1.100	
Cordsets for Modbus serial link equipped with 2 RJ45 connectors	2	0.3/0.98	VW3A8306R03	0.025/0.060	
		1/3.28	VW3A8306R10	0.060/0.060	
		3/9.84	VW3A8306R30	0.130/0.290	
Modbus T-junction boxes (with integrated cable)	3	0.3/0.98	VW3A8306TF03	0.190/0.420	
		1/3.28	VW3A8306TF10	0.210/0.460	
Line terminators (5) (6) For RJ45 connector	4	–	R = 120 Ω	VW3A8306RC	0.010/0.020
			C = 1 nf		
			R = 150 Ω	VW3A8306R	0.010/0.020

- (1) Load factor for resistors: the value of the average power that can be dissipated at 50 °C from the resistor into the casing is determined for a load factor during braking that corresponds to the majority of normal applications.
- (2) For not protected resistors, add a thermal overload device.
- (3) Please refer to the programmable controller catalogue on our local website.
- (4) Cable depends on the type of controller or PLC.
- (5) Order in multiples of 2.
- (6) Depends on the bus architecture.

Altivar 610

Altivar 610 - IP 20 drives, Accessories, Configuration and runtime tools



- Easy setup motor control of asynchronous motors and PM motors
- Power range coverage from 0.75kw to 315kw
- Multiple languages embedded enable to use easily for local customers
- European design low harmonic solution (THDi <10%) is available
- Reinforced hardware design for harsh environment

The **Easy Altivar 610** drive is an IP20 frequency inverter for three-phase asynchronous motors (up to 250 kW/400 HP) and synchronous motors (up to 160 kW/250 HP) between 380 and 460 V. Easy Altivar 610 drives can help improve equipment performance and reduce operating costs by optimizing energy consumption and user comfort.

Adapted to your applications, segments and operating environments



Water & wastewater



Oil & Gas



Energy Plant

IP20 three-phase 380...460 V drives with integrated category C3 EMC filter											
Motor			Power supply to the power section				Easy Altivar 610				
Nominal power indicated on rating plate (1)			Max. input current (2)		Apparent power	Max. prospective line Isc	Maximum continuous current (1)	Maximum transient current for 60 s	Reference	Weight kg/lb	
ND: Normal duty (3)			380 V	460 V	460 V						
HD: Heavy duty (4)											
	kW	HP	A	A	kVA	kA	A	A			
ND	0.75	1	3.1	2.6	2.1	5	2.2	2.4	ATV610U07N4	3.135/6.9	
HD	0.37	0.5	1.7	1.4	1.1	5	1.5	2.3			
ND	1.5	2	5.7	4.8	3.8	5	4	4.4	ATV610U15N4	3.135/6.9	
HD	0.75	1	3.1	2.6	2.1	5	2.2	3.3			
ND	2.2	3	7.8	6.5	5.2	5	5.6	6.2	ATV610U22N4	3.135/6.9	
HD	1.5	2	5.6	4.6	3.7	5	4	6			
ND	3	-	10.1	8.4	6.7	5	7.2	7.9	ATV610U30N4	3.135/6.9	
HD	2.2	3	7.6	6.4	5.1	5	5.6	8.4			
ND	4	5	8.8	7.9	6.3	5	9.3	10.2	ATV610U40N4	4.045/8.9	
HD	3	-	7.2	6.2	4.9	5	7.2	10.8			
ND	5.5	7.5	11.6	10.5	8.4	22	12.7	14	ATV610U55N4	4.575/10	
HD	4	5	8.9	7.9	6.3	22	9.3	14			
ND	7.5	10	14.7	12.8	10.2	22	15.8	17.4	ATV610U75N4	4.575/10	
HD	5.5	7.5	11.3	10.2	8.1	22	12.7	19.1			
ND	11	15	22	19.6	15.6	22	23.5	25.9	ATV610D11N4	7.73/17	
HD	7.5	10	16.4	14.6	11.6	22	16.5	24.8			
ND	15	20	29.4	26	20.7	22	31.7	34.9	ATV610D15N4	7.73/17	
HD	11	15	23	20.8	16.6	22	23.5	35.3			
ND	18.5	25	37.2	33.5	26.7	22	39.2	43.1	ATV610D18N4	13.5/29.8	
HD	15	20	31.6	28.3	22.6	22	31.7	47.6			

7



ATV610U07N4



ATV610D18N4



ATV610C11N4



ATV610C22N4

IP20 three-phase 380...460 V drives with integrated category C3 EMC filter												
Motor			Power supply to the power section				Easy Altivar 610				Reference	Weight kg/lb
Nominal power indicated on rating plate (1)			Max. input current (2)		Apparent power	Max. prospective line ISC	Maximum continuous current (1)	Maximum transient current for 60 s				
ND: Normal duty (3) HD: Heavy duty (4)			380 V	460 V	460 V							
	kW	HP	A	A	kVA	kA	A	A				
ND	22	30	41.9	36.2	28.8	22	46.3	50.9	ATV610D22N4	13.5/29.8		
HD	18.5	25	36	31.6	25.2	22	39.2	58.8				
ND	30	40	62.5	55.8	44.5	22	61.5	67.7	ATV610D30N4	25.5/56.2		
HD	22	30	49.7	42.5	33.8	22	46.3	69.5				
ND	37	50	76.6	68.3	54.4	22	74.5	82	ATV610D37N4	25.5/56.2		
HD	30	40	65.8	56.8	45.2	22	59.6	89.4				
ND	45	60	92.9	82.7	65.9	22	88	97	ATV610D45N4	25.5/56.2		
HD	37	50	80.5	69.6	55.4	22	74.5	112				
ND	55	75	111.5	99.7	79.5	22	120	132	ATV610D55N4	53/117		
HD	45	60	95.9	84	66.9	22	88	132				
ND	75	100	147.9	130.2	103.7	22	145	160	ATV610D75N4	53/117		
HD	55	75	115.8	101.7	81	22	106	159				
ND	90	125	177.8	159.9	127.4	50	173	190	ATV610D90N4	53/117		
HD	75	100	155.8	138.1	110	50	145	218				
ND	110	150	201	175.7	140	50	211	232	ATV610C11N4 (5)	85.5/188.5		
HD	90	125	170	149.1	118.8	50	173	260				
ND	132	200	237	203.8	162.4	50	250	275	ATV610C13N4 (5)	85.5/188.5		
HD	110	150	201	174.2	138.7	50	211	317				
ND	160	250	284	249.5	198.8	50	302	332	ATV610C16N4 (5)	85.5/188.5		
HD	132	200	237	205.9	164	50	250	375				
ND	220	350	397	341	272	50	427	470	ATV610C22N4 (5)	173/381		
HD	160	250	296	258	206	50	302	453				
ND	250	400	451	383	305	50	481	529	ATV610C25N4 (5)	173/381		
HD	200	300	365	313	249	50	370	555				
ND	315	500	571	480	369	50	616	678	ATV610C31N4 (5)	180/397		
HD	250	400	460	391	301	50	481	722				

(1) These values are given for a nominal switching frequency of 4 kHz up to **ATV610D45N4**, or 2.5 kHz for **ATV610D55N4...C31N4** for use in continuous operation.

The switching frequency is adjustable from 2...12 kHz up to **ATV610D45N4**, or from 1...8 kHz for **ATV610D55N4...C31N4**.

Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves in the *Installation Manual*).

(2) Typical value for the indicated motor power and for the maximum prospective line I_{sc} .

(3) Values given for applications requiring a slight overload (up to 110% for 60 s or 120% for 20 s).

(4) Values given for applications requiring a slight overload (up to 150% for 60 s).

(5) This drive is IP00, you can order an IP21 conformity kit as option.



ATV610U07N4Z



ATV610D11N4Z



ATV610D18N4Z

IP20 three-phase 380...460 V drives with integrated category C3 EMC filter

Motor		Power supply to the power section				Easy Altivar 610				Reference	Weight kg/lb
Nominal power indicated on rating plate (1)		Max. input current (2)		Apparent power	Max. prospective line ISC	Maximum continuous current (1)	Maximum transient current for 60 s				
ND: Normal duty (3) HD: Heavy duty (4)		380 V	460 V	460 V							
kW	HP	A	A	kVA	kA	A	A				
ND	0.75	1	3.1	2.6	2.1	5	2.2	2.4	ATV610U07N4Z●	2.985/6.58	
HD	0.37	0.5	1.7	1.4	1.1	5	1.5	2.3			
ND	1.5	2	5.7	4.8	3.8	5	4	4.4	ATV610U15N4Z●	2.985/6.58	
HD	0.75	1	3.1	2.6	2.1	5	2.2	3.3			
ND	2.2	3	7.8	6.5	5.2	5	5.6	6.2	ATV610U22N4Z●	2.985/6.58	
HD	1.5	2	5.6	4.6	3.7	5	4	6			
ND	3	–	10.1	8.4	6.7	5	7.2	7.9	ATV610U30N4Z●	2.985/6.58	
HD	2.2	3	7.6	6.4	5.1	5	5.6	8.4			
ND	4	5	8.8	7.9	6.3	5	9.3	10.2	ATV610U40N4Z●	3.885/8.565	
HD	3	–	7.2	6.2	4.9	5	7.2	10.8			
ND	5.5	7.5	11.6	10.5	8.4	22	12.7	14	ATV610U55N4Z●	4.415/9.73	
HD	4	5	8.9	7.9	6.3	22	9.3	14			
ND	7.5	10	14.7	12.8	10.2	22	15.8	17.4	ATV610U75N4Z●	4.415/9.73	
HD	5.5	7.5	11.3	10.2	8.1	22	12.7	19.1			
ND	11	15	22	19.6	15.6	22	23.5	25.9	ATV610D11N4Z●	7.540/16.62	
HD	7.5	10	16.4	14.6	11.6	22	16.5	24.8			
ND	15	20	29.4	26	20.7	22	31.7	34.9	ATV610D15N4Z●	7.540/16.62	
HD	11	15	23	20.8	16.6	22	23.5	35.3			
ND	18.5	25	37.2	33.5	26.7	22	39.2	43.1	ATV610D18N4Z●	13.300/29.32	
HD	15	20	31.6	28.3	22.6	22	31.7	47.6			
ND	22	30	41.9	36.2	28.8	22	46.3	50.9	ATV610D22N4Z●	13.300/29.32	
HD	18.5	25	36	31.6	25.2	22	39.2	58.8			
ND	30	40	62.5	55.8	44.5	22	61.5	67.7	ATV610D30N4Z●	25.295/55.77	
HD	22	30	49.7	42.5	33.8	22	46.3	69.5			
ND	37	50	76.6	68.3	54.4	22	74.5	82	ATV610D37N4Z●	25.295/55.77	
HD	30	40	65.8	56.8	45.2	22	59.6	89.4			
ND	45	60	92.9	82.7	65.9	22	88	97	ATV610D45N4Z●	25.295/55.77	
HD	37	50	80.5	69.6	55.4	22	74.5	112			
ND	55	75	111.5	99.7	79.5	22	120	132	ATV610D55N4Z●	52.045/114.7	
HD	45	60	95.9	84	66.9	22	88	132			
ND	75	100	147.9	130.2	103.7	22	145	160	ATV610D75N4Z●	52.045/114.7	
HD	55	75	115.8	101.7	81	22	106	159			
ND	90	125	177.8	159.9	127.4	50	173	190	ATV610D90N4Z●	52.045/114.7	
HD	75	100	155.8	138.1	110	50	145	218			
ND	110	150	201	175.7	140	50	211	232	ATV610C11N4Z●	85.445/188.4	
HD	90	125	170	149.1	118.8	50	173	260	(5)		
ND	132	200	237	203.8	162.4	50	250	275	ATV610C13N4Z●	85.445/188.4	
HD	110	150	201	174.2	138.7	50	211	317	(5)		
ND	160	250	284	249.5	198.8	50	302	332	ATV610C16N4Z●	85.445/188.4	
HD	132	200	237	205.9	164	50	250	375	(5)		

(1) These values are given for a nominal switching frequency of 4 kHz up to **ATV610D45N4Z●**, or 2.5 kHz for **ATV610D55N4Z●...C16N4Z●** for use in continuous operation.
The switching frequency is adjustable from 2...12 kHz up to **ATV610D45N4Z●**, or from 1...8 kHz for **ATV610D55N4Z●...C16N4Z●**. Above 2.5 or 4 kHz (depending on the rating), the drive will automatically reduce the switching frequency in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see the derating curves *Installation Manual*).

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

(3) Values given for applications requiring a slight overload (up to 110% for 60 s or 120% for 20 s).

(4) Values given for applications requiring a slight overload (up to 150% for 60 s).

(5) This drive is IP00, you can order an IP21 conformity kit as option.



VW3A9708



VW3A9708



VW3A1114



ZB5AZ905



VW3A1104R10



VW3A3203



VW3A3204



VW3A3607

Accessories for mounting of variable speed drives

IP conformity kit

For use with variable speed drives	IP rating	Power		Reference
		kW	HP	
ATV610C11N4...C16N4	IP21	110...160	149...216	VW3A9704
ATV610C22N4...C25N4	IP21	220...250	350...400	VW3A9707
ATV610C31N4	IP21	315	500	VW3A9708

Communication buses and networks

References

Description	Reference	Weight kg/lb
Plain text display terminal	VW3A1113	0.200/0.441

Remote mounting kit

References

Description	Length m/ft	IP degree of protection	Reference	Weight kg/lb
Basic keypad door mounting kit Order with remote-mounting cordset VW3A1104R...	-	43	VW3A1114	-
Tightening tool for remote mounting kit	-	-	ZB5AZ905	0.016/0.035
Remote-mounting cordset equipped with 2 RJ45 connectors	1/3.28	-	VW3A1104R10	0.050/0.110
	3/9.84	-	VW3A1104R30	0.150/0.331
	5/16.40	-	VW3A1104R50	0.250/0.551
	10/32.81	-	VW3A1104R100	0.500/1.102

I/O modules (option)

References

Description	I/O type				Reference	Weight kg/lb
	Discrete inputs	Discrete outputs	Analog inputs	Relay outputs		
Extended I/O module	6	2	2 (1)	-	VW3A3203	-
Extended relay module	-	-	-	3 (2)	VW3A3204	-

PROFIBUS DP V1 optional communication module

References

Description	Reference	Weight kg/lb
PROFIBUS DP communication module Port: 1x 9-way female SUB-D connector Conforming to PROFIBUS DP V1 Profiles supported: ■ CiA 402 drive ■ Profidrive Offers several message handling modes based on DP V1	VW3A3607	0.140/0.309
IP20 straight connectors (1) for Profibus module (SUB-D connection)	LU9AD7	-



A modern glass skyscraper is shown at dusk, with a green overlay and a semi-transparent diagram of a distribution system overlaid on the lower part of the image. The diagram shows a network of pipes and valves, with a green semi-transparent box highlighting a specific section. The text '08. EasyPact protection of distribution system' is overlaid on the green box.

08. EasyPact protection of distribution system

EasyPact CVS

Molded-case circuit breakers from 16 to 630 A, with adjustable settings.



- Reduces thermal stress on electrical networks, extending cable and installation life.
- Rated current: 16 to 630 A; breaking capacity: 25 to 50 kA at 400/415 V.
- Available in 3 and 4 pole versions, 3 frame sizes, with thermal-magnetic or electronic protection.
- Adjustable thermal protection: 0.7 to 1 (TMD) or 0.5 to 1 (electronic) times the trip unit rating.
- Suitable for isolation and earth-leakage protection with Vigi Module.
- Meets IEC 60947-2, CCC, EAC, and other certifications.

EasyPact CVS is designed to meet the requirements of most common protection applications in small—to medium-sized buildings. It delivers a high level of performance and cost-saving functionality. Its double-break mechanism ensures high fault current limitation

- Reduces thermal stresses on the electrical distribution network
- Increases the life of cables and installation.

Adapted to your applications, segments and operating environments



Buildings



Industry



Power



LV525303



LV510310



Find more details and other references in the [EasyPact CVS catalog](#)

EasyPact CVS100/160/250B, 25 kA 380/415 V - With TM-D thermal-magnetic trip unit

	Rating	Poles	
		3P 3d	4P 3d
EasyPact CVS100B	TM16D	LV510300	LV510310
	TM25D	LV510301	LV510311
	TM32D	LV510302	LV510312
	TM40D	LV510303	LV510313
	TM50D	LV510304	LV510314
	TM63D	LV510305	LV510315
EasyPact CVS160B	TM100D	LV516301	LV516311
	TM125D	LV516302	LV516312
	TM160D	LV516303	LV516313
EasyPact CVS250B	TM200D	LV525302	LV525312
	TM250D	LV525303	LV525313

EasyPact CVS 100/160/250F, 36kA at 380/415 V - With MA magnetic trip unit

	Rating	Poles	
		3P 3d	
EasyPact CVS 100F	MA2.5	LV510440	
	MA6.3	LV510441	
	MA12.5	LV510442	
	MA25	LV510443	
	MA50	LV510444	
	MA100	LV510445	
EasyPact CVS 160F	MA100	LV516439	
	MA150	LV516440	
EasyPact CVS 250F	MA150	-	
	MA220	LV525439	



Connection accessories (Cu or Al)

Description		Reference	
Bare cable connectors, steel	1 x (1.5 to 95 mm ²) ; y 160 A	Set of 3	LV429242
		Set of 4	LV429243
Aluminium connectors	1 x (25 to 95 mm ²) ; y 250 A	Set of 3	LV429227
		Set of 4	LV429228
	1 x (120 to 185 mm ²) ; y 250 A	Set of 3	LV429259
		Set of 4	LV429260
Aluminium connectors for 2 cables (1)	2 x (50 to 120 mm ²) ; y 250 A	Set of 3	LV429218
		Set of 4	LV429219
Spreaders from 35 to 45 mm pitch (1)	-	Set of 3	LV431563
		Set of 4	LV431564
Insulation accessories	1 short terminal shield for breaker	3 P	LV429515
		4 P	LV429516
	1 long terminal shield for breaker	3 P	LV429517
		4 P	LV429518
	Interphase barriers for breaker	Set of 6	LV429329
	2 insulating screens for breaker (45 mm pitch)	3 P	LV429330
4 P		LV429331	

Rotary handles

Description		Reference
Direct rotary handle - With black handle		LV429337
Extended rotary handle - With black handle		LV429338

(1) Supplied with 2 or 3 interphase barriers.



LV540305



LV540308



LV540506



EasyPact CVS400/630F - With TM-D thermal-magnetic trip unit

Type	Rating	Poles	
		3P 3d	4P 3d
EasyPact CVS400F (36 kA at 380/415 V)	TM320D	LV540305	LV540308
	TM400D	LV540306	LV540309
CVS630F (36 kA at 380/415 V)	TM500D	LV563305	LV563308
	TM630D	LV563307	LV563310

EasyPact CVS400/630F/N - With MA magnetic trip unit

Type	Rating	Poles
		3P 3d
EasyPact CVS400F (36 kA at 380/415 V)	MA320	LV540550
EasyPact CVS400N (50 kA at 380/415 V)	MA320	LV540552
EasyPact CVS630F (36 kA at 380/415 V)	MA500	LV563550
EasyPact CVS630N (50 kA at 380/415 V)	MA500	LV563552

EasyPact CVS400/630F - ETS 2.3 electronic trip unit (LS₀I protection)

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

Connection accessories (Cu or Al)

Description	Reference
Aluminium connector	1x (35 to 300 mm ²) Set of 3 LV432479
	Set of 4 LV432480
	2x (35 to 240 mm ²) Set of 3 LV432481
	Set of 4 LV432482
Voltage plug for aluminium connector 1 or 2 cables	Set of 10 LV429348
Spreaders	52.5 mm 3P LV432490
	4P LV432491
	70 mm 3P LV432492
	4P LV432493
Insulation accessories	Short terminal shield, 45 mm (1 piece) 3P LV432591
	4P LV432592
	Long terminal shield, 45 mm (1 piece) 3P LV432593
	4P LV432594
	Interphase barriers Set of 6 LV432570
	Long terminal shield for spreaders, 52, 5mm (1 piece) (supplied with insulating plate) 3P LV432595
	4P LV432596
	2 insulating screens (70 mm pitch) 3P LV432578
4P LV432579	

Rotary handles

Description	Reference
Direct rotary handle - With standard black handle	LV432597
Standard extended rotary handle	LV432598

A photograph of two industrial workers, a woman and a man, in a factory setting. They are both wearing white hard hats and high-visibility yellow safety vests over their work clothes. The woman is holding a tablet or clipboard and pointing at it, while the man looks on attentively. They are standing in front of a large piece of industrial machinery with a metal mesh door. The background is slightly blurred, showing other parts of the factory environment.

09. Easy TeSys motor control and protection

Easy TeSys 3-pole contactors from 6 to 630 A



Easy TeSys Control - 3-pole contactors

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



Size	4 ④		5 ⑤			6 ⑥		7 ⑦		8 ⑧	9 ⑨
Rated operational current AC-3 (A) (1)	80	95	120	160	200	250	300	400	500	630	
Rated operational current AC-3e	80	95	96	100	175	190	265	330	400	500	
Rated operational current AC-1 (A) (2)	110	120	150	200	250	300	320	500	700	1000	
Rated operational power in AC-3 (kW)	220/230 V	22	25	37	45	55	75	90	110	147	185
	380/400 V	37	45	55	75	90	132	160	200	250	335
	415/440 V	45	45	59	80	100	140	160/185	220/250	280/295	375/400
	500 V	45	55	75	90	110	160	200	257	355	400
660/690 V	45	45	80	100	110	160	220	280	335	450	
Width (mm)	85		120			168.5		213		233	309
Coil rated operating voltage	24...440 V AC; 24 V DC							24...440 V AC			
Auxiliary built in contact	1 NO + 1 NC					-					
Reference	LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E360	LC1E630

(1) Class AC-3: squirrel-cage motors with breaking taking place with the motor running.

(2) Class AC-1: AC loads with $\cos \varphi$ at least equal to 0.95 (resistive load, heating, distribution, etc.).



Find more details and other references in the [EasyTeSys catalog](#)

Commercial reference numbering system

EasyTeSys 3-pole contactors - Commercial reference numbering system

LC1E ●●● ●●● ●●

Frequency	Code	
50 Hz	5	
60 Hz	6	
50/60 Hz	7	
DC	D	
Coil voltage (1)	Code	
24 V	B	
48 V	E	
110 V	F	
220 V	M	
230 V	P	
240 V	U	
380 V	Q	
400 V	V	
415 V	N	
440 V	R	
Rated operation current (AC-3/AC-3e)	Auxiliary contact configuration	Code
EasyTeSys 3-pole		
06...38	1NO (or 1 NC)	10 (or 01)
40...160	1NO+1NC	none
200...630	No auxiliary contact	none
Rated operation current (AC-3/AC-3e)	Code	
EasyTeSys 3-pole		
06...630	06...630	
Type	Designation	
Contacteur	Easy TeSys	

Contacteur: how to determine the full commercial reference ?

Example 1: you need a 32 A contactor, 1 NC auxiliary contact, 24 V - 50 Hz, coil ⇒ **LC1E3201B5**

Example 2: you need a 120 A contactor, 1 NC + NO auxiliary contact, 220 V - 50 Hz, coil ⇒ **LC1E120M5**

Available coil voltage code for 3-pole contactors

		24	48	110	220	230	240	380	415	440
LC1E06-300	50 Hz	B5	E5	F5	M5	–	U5	Q5	N5	R5
	60 Hz	B6	–	F6	M6	–	–	Q6	–	R6
LC1E06-95	50/60 Hz	B7	E7	F7	M7	P7	–	Q7	–	–
	DC	BD	–	–	–	–	–	–	–	–
LC1E120-300	50/60 Hz	–	–	F7	M7	–	U7	Q7	–	–
LC1E400-630	50/60 Hz	–	E7	F7	M7	–	U7	Q7	N7	R7

Contacteur: how to determine the full commercial reference ?

Example:

LC1E 12 10 U 5	ref. LC1E1210U5
5	50 Hz
Coil voltage code	240 V
Auxiliary contact configuration (2)	01 1NC 10 1NO
Rated operation current AC-3/AC-3e	12 A
Contacteur	Easy TeSys

(1) For 3-pole contactors, please refer the previous page.

(2) Example up to LC1E38 For details, please see above table.

Easy TeSys Control Contactors - 3 pole from 6 A to 630 A

Power Characteristics

Pole Characteristics														
Contactor type			LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65		
Number of poles			3											
Rated operational current (Ie) (Ue ≤ 440 V)	In AC-3 (θ ≤ 55°C)	A	6	9	12	18	25	32	38	40	50	65		
	In Ac-3e(θ ≤ 55°C)		6	9	12	18	25	32	38	40	50	65		
	In AC-1 (θ ≤ 55°C)		20	25		32	32	50		60	70	80		
	In AC-1 (θ ≤ 40°C)		–											
Rated operational voltage (Ue)		Up to	V 690											
Frequency limits of the operational current			Hz 50/60											
Conventional thermal current (Ith)	θ ≤ 55°C	A	20	25		32	32	50		60	70	80		
	θ ≤ 40°C	–												
Rated breaking capacity at 440 V		Conforming to IEC 60947	A	51	76.5	102	153	212.5	272	323	340	425	552.5	
Rated making capacity at 440 V		Conforming to IEC 60947-4-1	A	78	117	156	234	325	416	494	520	650	845	
Permissible short time rating No current flowing for preceding 15 minutes with θ ≤ 40°C	10 s	A	80	105		145	240	260	310	320	400	520		
	1 min		45	61		84	120	138	150	165	208	260		
	10 min		20	30		40	50	60		72	84	110		
Maximum permissive current No current flowing for previous 60 minutes, at θ ≤ 40°C		For 10 s	A –											
Protection by fuses against short-circuits (U ≤ 690 V)	Without thermal overload relay gG fuse	Type 1	A	12	20	25	35	40	63		80	100	125	
	With thermal overload relay	For corresponding aM or gG fuse ratings corresponding to the associated LRE thermal overload relay												
Average impedance per pole		At Ith and 50 Hz	mΩ	2.5				2.5			1.5		1	
Power dissipation per pole for the above operational currents	AC-3	W	0.09	0.20	0.36	0.81	1.6	2.0	2.9	2.4	3.8	4.2		
	AC-1		1.0	1.6		2.6	3.2	5.0		5.4	7.4	6.4		
Electrical durability	AC-3 (Ue ≤ 440 V)	Million cycles	1.4			1.2		1		0.9				
	AC-1 (Ue ≤ 440 V)		0.15		0.3		0.35							
Mechanical durability			10				8			5				
Power Circuit Connections														
Contactor type			LC1E06	LC1E09	LC1E12	LC1E18	LC1E25	LC1E32	LC1E38	LC1E40	LC1E50	LC1E65		
Connection maximum c.s.a.														
Flexible cable with cable end	1 conductor	mm ²	1...4				1...6			2.5...25				
	2 conductors		1...2.5				1...4			2.5...10				
Flexible cable without cable end	1 conductor	mm ²	1...4			1.5...6		1.5...10		2.5...25				
	2 conductors		1...4			1.5...6		1.5...6		2.5...16				
Solid cable without cable end	1 conductor	mm ²	1...4			1.5...6	1.5...10		2.5...25					
	2 conductors		1...4			1.5...6	1.5...6		2.5...16					
Cable with lug		mm	–											
Bar	Number of bars		–											
	Bar	mm x mm	–											
Bolt diameter			1 conductor mm –											
Tightening torque with AC Coil		Power circuit connection	N.m	1.2 ~ 1.4				1.7 ~ 2.0	1.85 ~ 2.15		5 ~ 5.8			
Tightening torque with DC Coil		Power circuit connection	N.m	1.6 ~ 1.8				1.6 ~ 1.8	2.4 ~ 2.7		5 ~ 5.8			
Tool			Philips N°2 or Pozidriv N°2 or Ø6mm flat						Ø8mm flat					

Easy TeSys Control Contactors - 3 pole from 6 A to 630 A

Power Characteristics

Pole Characteristics													
Contactor type			LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E630	
Number of poles			3										
Rated operational current (Ie) (Ue ≤ 440 V)	In AC-3 (θ ≤ 55°C)	A	80	95	120	160	200	250	300	400	500	630	
	In AC-3e (θ ≤ 55°C)		80	95	96	100	175	190	265	330	400	500	
	In AC-1 (θ ≤ 55°C)		110	120	–								
	In AC-1 (θ ≤ 40°C)		–		150	200	250	300	320	500	700	1000	
Rated operational voltage (Ue)		Up to	V										
Frequency limits of the operational current			Hz										
Conventional thermal current (Ith)	θ ≤ 55°C	A	110	120	–								
	θ ≤ 40°C		–		150	200	250	300	320	500	700	1000	
Rated breaking capacity at 440 V		Conforming to IEC 60947	A	680	807.5	960	1280	1600	2000	2400	3200	4000	5040
Rated making capacity at 440 V		Conforming to IEC 60947-4-1	A	960	1140	1200	1600	2000	2500	3000	4000	5000	6300
Permissible short time rating No current flowing for preceding 15 minutes with θ ≤ 40°C	10 s	A	640	800	950	1200	1500	1800	2650	3600	4200	5050	
	1 min		320	400	550	580	740	850	1300	1700	2400	3400	
	10 min		135	–		250	250	400	440	750	1000	1200	1600
Maximum permissible current No current flowing for previous 60 minutes, at θ ≤ 40°C		For 10 s	A	–		1100	1400	1500	1800	2650	3600	4200	5050
Protection by fuses against short-circuits (U ≤ 690 V)	Without thermal overload relay gG fuse	Type 1	A	160		250	315	500			630	800	800
	With thermal overload relay			For corresponding aM or gG fuse ratings corresponding to the associated LRE thermal overload relay									
Average impedance per pole		At Ith and 50 Hz	mΩ	0.8		0.6		0.33	0.32	0.3	0.26	0.18	0.12
Power dissipation per pole for the above operational currents	AC-3	W	5.1	7.2	8.6	15	13	20	27	42	45	48	
	AC-1		9.7	12	14	24	21	29	31	65	88	120	
Electrical durability	AC-3 (Ue ≤ 440 V)	Million cycles	–		0.8		0.5	0.7	0.5	0.6	0.6	0.6	
	AC-1 (Ue ≤ 440 V)		–		0.25		0.2		0.4	0.25	0.25	0.2	
Mechanical durability			3		4			5			4	4	4
Power Circuit Connections													
Contactor type			LC1E80	LC1E95	LC1E120	LC1E160	LC1E200	LC1E250	LC1E300	LC1E400	LC1E500	LC1E630	
Connection maximum c.s.a.													
Flexible cable with cable end	1 conductor	mm ²	4...50		10...120		–						
	2 conductors		4...16		10...120 + 10...50		–						
Flexible cable without cable end	1 conductor	mm ²	4...50		10...120		–						
	2 conductors		4...25		10...120 + 10...50		–						
Solid cable without cable end	1 conductor	mm ²	4...50		10...120		–						
	2 conductors		4...25		10...120 + 10...50		–						
Cable with lug		mm	–					150	185	240	2 x 150	2 x 240	–
Bar	Number of bars		2										
	Bar	mm x mm	–				3 x 25	4 x 32	5 x 30	30 x 5	40 x 5	60 x 5	
Bolt diameter		1 conductor	–				M8	M10		–			
Tightening torque with AC Coil		Power circuit connection	N.m	12 ~ 13.5		12 ~ 13.5		18 ~ 21		35 ~ 37			58 ~ 60
Tightening torque with DC Coil		Power circuit connection	N.m	12 ~ 13.5		/		/	/		/		
Tool			Allen key n°4		Allen key n°4		Wrench						

Easy TeSys contactors - Accessories for LC1E contactor



Accessories for Motor Reverse Assembly - 3-pole Accessories for LC1E Contactor with AC supply

Contactors with screw clamp terminals

Using 2 identical contactors	Set of power connections ①		Mechanical interlock ②	
	Reference	Weight kg	Reference	Weight kg
Mechanical interlock				
LC1E06...E12	LAEP1	0.020	LAEM1	0.030
LC1E18/E25	LAEP12	0.026	LAEM1	0.030
LC1E32/E38	LAEP2	0.040	LAEM1	0.030
LC1E40...E65	LAEP3	0.230	LAEM1	0.030
LC1E80/E95	LAEP4	0.465	LAEM4	0.095
LC1E120/E160	– (DIY) ⁽¹⁾		LAEM5	0.300
LC1E200/E250	– (DIY) ⁽¹⁾		LAEM6	0.110
LC1E300	– (DIY) ⁽¹⁾		LAEM7	0.250
LC1E400	– (DIY) ⁽¹⁾		LAEM7	0.250
LC1E500	– (DIY) ⁽¹⁾		LAEM7	0.250
LC1E630	– (DIY) ⁽¹⁾		LAEM8	0.270

(1) DIY : Do It Yourself.

RC circuits (Resistor-Capacitor) ③

Mounting	For use with contactor		Reference	Weight
	Rating	Type		
Screw mounting ⁽¹⁾	LC1E06...E95	V~		kg
		24...48	LAERCE	0.025
		50...127	LAERCG	0.025
		110...240	LAERCU	0.025
		380...415	LAERCN	0.025

- Effective protection for circuits highly sensitive to high frequency interference and transient generated when the contactor coil is switched off. For use only in cases where the voltage is virtually sinusoidal, i.e. less than 5 % total harmonic distortion.
- Voltage limited to 3 Uc max. and oscillating frequency limited to 400 Hz max.
- Slight increase in drop-out time (1.2 to 2 times the normal time).

Easy TeSys contactors - Accessories for LC1E contactor



Instantaneous auxiliary contact blocks for connection by screw lamps terminals (For use in normal operating environment)

Clip-on mounting	Front			
Number of contacts per block	1 NO / 1 NC	2 NO	2 NC	2 NO / 2 NC
Reference ①	LAEN11	LAEN20	LAEN02	LAEN22

Time delay auxiliary contact blocks for connection by screw clamp terminals 8 A - 690 V

Clip-on mounting	Front	
Number of contacts per block	1 NO / 1 NC	
Time delay type	On-delay	
Setting range	1...30 s	
Reference ②	LAETSD (For use only LC1E25 to LC1E630)	

Instantaneous and time delay contact characteristics

Contact block type	LAEN11, 20, 02, 22			LAETSD					
Number of contacts	2 or 4			2					
Rated operational voltage (Ue)	Up to (V)			690					
Rated insulation voltage (Ui)	Conforming to IEC 60947-5-1 (V)			690					
Conventional thermal current (Ith)	For ambient temperature $\theta \leq 60$ °C (A)			10					
Minimum switching capacity	U min (V)			17					
	I min (mA)			5					
Short-circuit protection	Conforming to IEC 60947-5-1 (A)			10					
Rated making capacity	Conforming to IEC 60947-5-1 (Irms)			~ 140					
Short-time rating	Permissible for 1 s (A)			100					
	Permissible for 500 ms (A)			120					
	Permissible for 100 ms (A)			140					
Insulation resistance	m Ω			> 10					
Non-overlap time	Guaranteed between NC and NO contacts (ms)			1.5 (on energisation and on de-energisation)					
Overlap time	Guaranteed between LAE N22 NC and NO contacts (ms)			-					
Time delay	Ambient air temperature for operation (°C)			-20...+70					
	Repeat accuracy (°C)			±2 %					
	Drift up to 0.5 million operating cycles (°C)			+15 %					
	Drift depending on ambient air temperature (°C)			0.25 % per °C					
Mechanical durability	In millions of operating cycles			10					
Rated operational power of contacts (Conforming to IEC 60947-5-1)	a.c. supply categories AC14/15 (V)			24	48	115	230	400	440
	1 million operating cycles (VA)			60	120	280	560	960	1050
	3 million operating cycles (VA)			16	32	80	160	280	300
	10 million operating cycles (VA)			4	8	20	4	70	80

Environment

Conforming to standard	IEC 60947-5-1	
Product certifications	EAC	
Protective treatment	Conforming to IEC 60068	"TH"
Degree of protection	Conforming to IEC 60529	IP2X
Ambiant air temperature	Storage (°C)	-60...+80
	Operation (°C)	-5...+55
	Permissible for operation at Uc (°C)	-20...+70
Maximum operating altitude	Without derating (m)	3000
Connection by cable	Philips N° 2 and Ø 6 mm. Flexible or solid cable with or without cable end (mm ²)	Min: 1 x 1 Max: 2 x 2.5
Tightening torque	(N.m)	1.2

Easy TeSys Protect Thermal overload relays



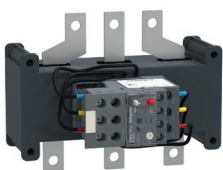
Easy TeSys Protect Thermal overload relays - Compatible with Contactor (size 1 & 2)

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



Easy TeSys Protect Thermal overload relays - Compatible with Contactor (size 3 & 4)

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



Easy TeSys Protect Thermal overload relays - Compatible with Contactor (size 5, 6, 7, 8 and 9)

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

Note:

- Means the relay can match with contactor both in electrical and mechanical.
- Means the relay can match with contactor only in electrical (can not directly mounting).

Common characteristics

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

Easy TeSys Protect Thermal overload relays

Easy TeSys 3-pole contactors

Power circuit characteristics

Relay type	Reference	LRE 01...21	LRE 22...35	LRE 322...365	LRE 480...482	LRE 483	LRE 484	LRE 485...487	LRE 488	LRE 489
Size		1	2	3			4			
Tripping class	Conforming to IEC 60947-4-1	10 A								
Rated insulation voltage	Conforming to IEC 60947-4-1	V 690								
Rated impulse withstand voltage (Uimp)		kV 6								
Frequency limits	Of the operating current	Hz 50...60								
Setting range	Depending on model	A 0.1...18	16...38	17...104	51...630					

Power Circuit Connections

Connection by screw clamp terminals		Minimum/maximum c.s.a.								
	Flexible cable without cable end 1 conductor	mm ²	1.5...6	2.5...10	4...35	–				
	Flexible cable with cable end 1 conductor		1...4	1.5...6	4...35	–				
	Solid cable without cable end 1 conductor		1...6	2.5...10	4...35	–				
	Tightening torque	N.m	1.7	2.5	9	–				
Connection by bars or lugs										
Pitch	Without spreaders	mm	–		34.8	40	48	48	55	80
Bars or cables with lugs	Cross section		–		3X18	3X20	3X25	4X25	5x30	6X40
Screws	Type		–		M8	M8	M10	M10	M10	M12
	Tightening torque	N.m	–		27.5	27.5	35	35	35	58

Auxiliary Contact Characteristics

Conventional thermal current	A	5									
Max. sealed consumption of the operating coils of controlled contactors (Occasional operating cycles of contact 95-96)	a.c. supply	V	110	120	220	240	380	480	500	600	
		A	3.27	3	1.63	1.5	0.95	0.75	0.72	0.12	
Protection against short-circuits	By gG, maximum rating or by GB2	A	5								
Connection by screw clamp terminals		Minimum/maximum c.s.a.									
	Flexible cable without cable end 1 conductor	mm ²	2 x 1...2.5								
	Flexible cable with cable end 1 conductor		2 x 1...2.5								
	Solid cable without cable end 1 conductor		2 x 1...2.5								
	Tightening torque	N.m	1.7								

Environment

Conforming to standard		IEC 60947-4-1, IEC 60947-5-1									
Product certifications		EAC									
Degree of protection	Conforming to IEC 60529	IP2X			IP00						
Protective treatment	Conforming to IEC 60068	"TH"									
Ambiant air temperature	Storage	°C	-60...+80								
	Normal operation without derating (IEC 60947-4-1)		-20...+60								
	Minimum/maximum operating temperature (with derating) (1)		-20...+70								
Operating positions without derating	In relation to normal vertical mounting plane	Any position									
Flame resistance	Conforming to IEC 60068-2-1	°C	850								
Shock resistance	Permissive acceleration conforming to IEC 60068-2-7	6 gn - 11 ms									
Vibration resistance	Permissive acceleration conforming to IEC 60068-2-6	3 gn									
Dielectric strenght at 50 Hz Surge withstand	Conforming to IEC 60255-5	kV	6								
	Conforming to IEC 60801-5		6								

Operating Characteristics

Temperature compensation		°C	-20...+60								
Tripping threshold	Conforming to IEC 60947-4-1	A	1.14 ± 0.06 I _r								
Sensitivity to phase failure	Conforming to IEC 60947-4-1	Tripping current 130 % of I _r on two phase, the last one at 0									

(1) Contact your regional sales.

Easy TeSys Protect Thermal overload relays



Easy TeSys thermal overload relays - 3-pole thermal overload relays

Differential Thermal Overload Relays for Use with Fuses or Magnetic Circuit-breakers GV2 L and GV3 L

- Compensated relays with manual or automatic reset,
- with relay trip indicator,
- for a.c.

Relay setting range (A)	Fuses to be used with selected relay		For use with contactor LC1	Reference	Weight kg
	aM (A)	gG (A)			
Class 10 A (1) for connection by screw clamp terminals					
0.10...0.16	0.25	2	E06...E38	LRE01	0.130
0.16...0.25	0.5	2	E06...E38	LRE02	0.130
0.25...0.40	1	2	E06...E38	LRE03	0.130
0.40...0.63	1	2	E06...E38	LRE04	0.130
0.63...1	2	4	E06...E38	LRE05	0.130
1...1.6	2	4	E06...E38	LRE06	0.130
1.6...2.5	4	6	E06...E38	LRE07	0.130
2.5...4	6	10	E06...E38	LRE08	0.130
4...6	8	16	E06...E38	LRE10	0.130
5.5...8	12	20	E09...E38	LRE12	0.130
7...10	12	20	E09...E38	LRE14	0.130
9...13	16	25	E12...E38	LRE16	0.130
12...18	20	35	E18...E38	LRE21	0.130
16...24	25	50	E25...E38	LRE22	0.130
23...32	40	63	E25...E38	LRE32	0.130
30...38	40	80	E38	LRE35	0.130
17...25	25	50	E40...E95	LRE322	0.470
23...32	40	63	E40...E95	LRE353	0.470
30...40	40	100	E40...E95	LRE355	0.470
37...50	63	100	E50...E95	LRE357	0.460
48...65	63	100	E65...E95	LRE359	0.460
55...70	80	125	E80...E95	LRE361	0.480
63...80	80	125	E80...E95	LRE363	0.480
80...104	80	160	E95	LRE365	0.520
Class 10 A (1) directly connected by connector					
51...81	100	125	E120...E160	LRE480	2.2
62...99	125	160	E120...E160	LRE481	2.2
84...135	160	200	E120...E160	LRE482	2.2
124...198	200	250	E200	LRE483	2.1
146...234	250	315	E250...E400	LRE484	2.2
174...279	315	315	E250...E400	LRE485	2.2
208...333	400	400	E250...E400	LRE486	2.2
259...414	400	500	E300...E400	LRE487	2.4
321...513	500	800	E500	LRE488	3.2
394...630	630	1000	E630	LRE489	3.9

(1) Standard IEC 60947-4-1 specifies a tripping time for 7.2 times the setting current I_n : class 10 A: between 2 and 10 seconds.

Easy TeSys Power - Motor circuit-breaker



Environment

Circuit-breaker type		GZ1	
Conforming to standards		IEC 60947-2, IEC 60947-4	
Protective treatment		Conforming to IEC 60068-2-30 IEC60068-2-30 Test Db, Variant 2	
Degree of protection		In GV2 MC01 enclosure: IP 41 In GV2 MC02 enclosure: IP 55	
Ambient air temperature	Storage	°C	- 40...+ 80
	Operation	°C	- 20...+ 60
Flame resistance	Conforming to IEC 60695-2-1		960
Maximum operating altitude			2000
Cabling Number of conductors and c.s.a.	Solid cable	mm ²	2 x 1
	Flexible cable without cable end	mm ²	2 x 1.5
	Flexible cable with cable end	mm ²	2 x 1
Suitable for isolation	Conforming to IEC 60947-1 § 7-1-6		Yes
Tightening torque			N.m 1.7
Rated operational voltage (Ue)	Conforming to IEC 60947-2		V 690
Rated insulation voltage (Ui)	Conforming to IEC 60947-2		V 690
Rated operational frequency	Conforming to IEC 60947-2		Hz 50/60
Rated impulse withstand voltage (U _{imp})	Conforming to IEC 60947-2		kV 6
Total power dissipated per pole			W 2.5
Mechanical durability (C.O.: closing, opening)			C.O. 100 000
Electrical durability (For AC-3 duty)			C.O. 100 000
Duty class (maximum operating rate)			C.O./h 25

Breaking Capacity

Circuit-breaker type				GZ1									
Rating				01 to 06	07	08	10	14	16	20	21	22 to 32	
Breaking capacity conforming to IEC 60947-2				0.1 to 1.6	2,5	4	6.3	10	14	18	23	25 to 32	
230/240 V	Icu	kA	■	■	■	■	■	■	■	■	30	30	
	Ics % (1)	kA	■	■	■	■	■	■	■	■	100	100	
400/415 V	Icu	kA	■	■	■	■	■	10	10	10	10	10	
	Ics % (1)	kA	■	■	■	■	■	50	50	40	40	40	
440 V	Icu	kA	■	■	■	30	10	6	6	5	5	5	
	Ics % (1)	kA	■	■	■	100	100	50	50	50	50	50	
500 V	Icu	kA	■	■	■	30	8	5	5	3	3	3	
	Ics % (1)	kA	■	■	■	100	100	75	75	75	75	75	
690 V	Icu	kA	■	2	2	2	2	2	2	2	2	2	
	Ics % (1)	kA	■	75	75	75	75	75	75	75	75	75	

■ > 100 kA. (1) As % of Icu.

Motor Circuit-breakers - Magnetic only

Pushbutton control

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3/AC-3e

230V	400V	440V	500V	690V	Magnetic protection rating	Magnetic tripping current I _d ± 20 %	Use in association with thermal overload relays	Reference	Weight
kW	kW	kW	kW	kW	A	A	(Class 10A)		kg
–	–	–	–	–	0.40	5.8	LRE03	GZ1LE03	0.250
–	–	–	–	0.37	0.63	9.3	LRE04	GZ1LE04	0.250
–	–	–	0.37	0.55	1	15.1	LRE05	GZ1LE05	0.250
–	0.37	0.55	0.75	1.1	1.6	26.2	LRE06	GZ1LE06	0.250
0.37	0.75	1.1	1.1	1.5	2.5	39	LRE07	GZ1LE07	0.250
0.75	1.5	1.5	2.2	3	4	74	LRE08	GZ1LE08	0.250
1.1	2.2	3	3.7	4	6.3	91	LRE10	GZ1LE10	0.250
2.2	4	4	5.5	7.5	10	149	LRE14	GZ1LE14	0.250
–	5.5	5.5	9	11	14	253.4	LRE16	GZ1LE16	0.250
4	7.5	9	10	15	18	341	LRE21	GZ1LE20	0.250
5.5	11	11	15	22	25	388.3	LRE22	GZ1LE22	0.250
7.5	15	15	18.5	22	32	538	LRE32	GZ1LE32	0.250

Motor Circuit-breakers - Thermal-magnetic

Pushbutton control

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3/AC-3e

230V	400V	440V	500V	690V	Setting range of thermal trips	Magnetic tripping current I _d ± 20 %	Reference	Weight
kW	kW	kW	kW	kW	A	A		kg
–	–	–	–	–	0.1...0.16	1.9	GZ1E01	0.260
–	–	–	–	–	0.16...0.25	3.1	GZ1E02	0.260
–	–	–	–	–	0.25...0.40	5.8	GZ1E03	0.260
–	–	–	–	0.37	0.40...0.63	9.3	GZ1E04	0.260
–	–	–	0.37	0.55	0.63...1	15.1	GZ1E05	0.260
–	0.37	0.55	0.75	1.1	1...1.6	26.2	GZ1E06	0.260
0.37	0.75	1.1	1.1	1.5	1.6...2.5	39	GZ1E07	0.260
0.75	1.5	1.5	2.2	3	2.5...4	74	GZ1E08	0.260
1.1	2.2	3	3.7	4	4...6.3	91	GZ1E10	0.260
2.2	4	4	5.5	7.5	6...10	149	GZ1E14	0.260
–	5.5	5.5	9	11	9...14	253.4	GZ1E16	0.260
4	7.5	9	10	15	13...18	341	GZ1E20	0.260
5.5	9	11	11	18.5	17...23	341	GZ1E21	0.260
5.5	11	11	15	22	20...25	388.3	GZ1E22	0.260
7.5	15	15	18.5	22	24...32	538	GZ1E32	0.260

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Schneider Electric Industries SAS
35, rue Joseph Monier - CS 30323
F92506 Rueil-Malmaison Cedex

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