Easy Series Automation and Control Essentials Catalog 2023

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.

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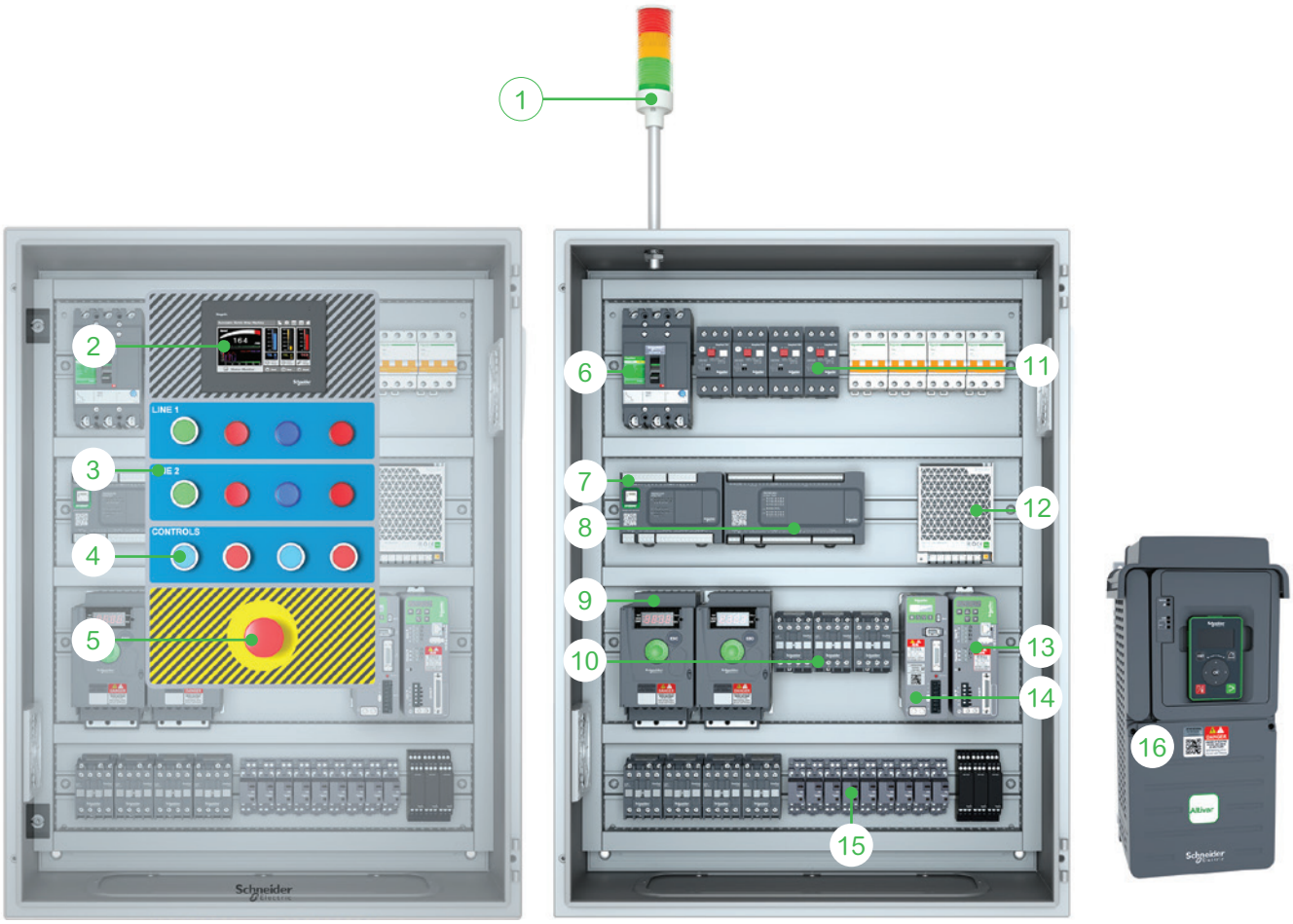
New 2023 product highlights



1 Easy Harmony XVG Tower Light

2 Easy Harmony ET6 Touch screen panel

3 Harmony Customizable Legend Panel

4 Easy Harmony XA2 Pushbuttons

5 Easy Harmony XA2 Emergency Switching off Pushbuttons

6 EasyPact CVS Protection of Distribution System

7 Easy Modicon M200 Logic Controller

8 Easy Modicon M100 Logic Controller

9 Easy Altivar ATV 310 Variable Speed Drives

10 EasyPact TVS Contactor

11 EasyPact TVS Motor Protection Circuit Breaker

12 Easy Modicon ABL2 Power Supply

13 Easy Lexium 26 Servo

14 Easy Lexium 16 Servo

15 Easy Harmony RXM Electromechanical Relays

16 Easy Altivar ATV 610 Variable Speed Drives

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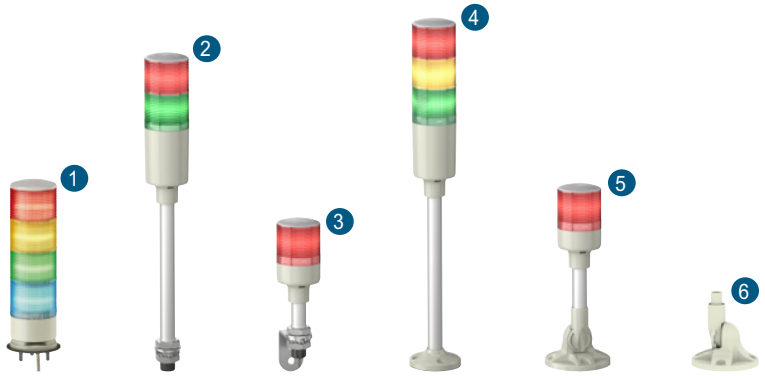
01. Easy Harmony pushbuttons, switches, pilot lights and signaling devices

Easy Harmony XVG Ø 60 monolithic tower lights



1 With base mounting

Light source		LED for steady light				
Colors *(1)*		Red, Green		Red, Amber, Green		Red, Amber, Green, Blue
Voltage		24 VAC/VDC	220~240VAC	24 VAC/VDC	220~240VAC	24 VAC/VDC
Reference	Without buzzer, IP 53	**XVGB2W**	**XVGM2W**	**XVGB3W**	**XVGM3W**	**XVGB4W**
	With buzzer, IP 42	**XVGB2SW**	**XVGM2SW**	**XVGB3SW**	**XVGM3SW**	**XVGB4SW**

2 With direct aluminium tube mounting

Light source		LED for steady light				
Colors *(1)*		Red, Green		Red, Amber, Green		Red, Amber, Green, Blue
Voltage		24 VAC/VDC	220~240VAC	24 VAC/VDC	220~240VAC	24 VAC/VDC
Reference	Without buzzer, IP 23	**XVGB2T**	**XVGM2T**	**XVGB3T**	**XVGM3T**	**–**
	With buzzer, IP 23	**XVGB2ST**	**XVGM2ST**	**XVGB3ST**	**XVGM3ST**	**XVGB4ST**

3 With aluminium tube mounting and L−bracket

Light source		LED for steady light						
Colors *(1)*		Red		Red, Green		Red, Amber, Green		Red, Amber, Green, Blue
Voltage		24 VAC/VDC	220~240VAC	24 VAC/VDC	220~240VAC	24 VAC/VDC	220~240VAC	24 VAC/VDC
Reference	Flashing light with buzzer	**XVGB1SFA**	**XVGM1SFA**	**–**	**–**	**–**		**–**
	Without buzzer, IP 23	**XVGB1A**	**XVGM1A**	**XVGB2**	**XVGM2**	**XVGB3**	**XVGM3**	**XVGB4**
	With buzzer, IP 23	**XVGB1SA**	**XVGM1SA**	**XVGB2S**	**XVGM2S**	**XVGB3S**	**XVGM3S**	**XVGB4S**

4 With aluminium tube mounting and fixing plate

Light source		LED for steady light				
Colors *(1)*		Red, Green		Red, Amber, Green		Red, Amber, Green, Blue
Voltage		24 VAC/VDC	220~240VAC	24 VAC/VDC	220~240VAC	24 VAC/VDC
Reference	Without buzzer, IP 53	**XVGB2H**	**XVGM2H**	**XVGB3H**	**XVGM3H**	**XVGB4H**
	With buzzer, IP 42	**XVGB2SH**	**XVGM2SH**	**XVGB3SH**	**XVGM3SH**	**XVGB4SH**

5 With aluminium tube mounting and foldable bracket

Light source		LED for steady light						
Colors *(1)*		Red		Red, Green		Red, Amber, Green		Red, Amber, Green, Blue
Voltage		24 VAC/VDC	220~240VAC	24 VAC/VDC	220~240VAC	24 VAC/VDC	220~240VAC	24 VAC/VDC
Reference	Flashing light with buzzer	**XVGB1SM-FA**	**XVGM1SM-FA**	**–**	**–**	**–**	**–**	**–**
	Without buzzer, IP 53	**XVGB1MA**	**XVGM1MA**	**XVGB2M**	**XVGM2M**	**XVGB3M**	**XVGM3M**	**XVGB4M**
	With buzzer, IP 42	**XVGB1SMA**	**XVGM1SMA**	**XVGB2SM**	**XVGM2SM**	**XVGB3SM**	**XVGM3SM**	**XVGB4SM**

6 Accessories (for association)

Color	White	
Unit type	Folding mounting bracket for support tube mounting	Wall mounting bracket
Reference	**XVGZ02** *(2)*	**XVMZ02W** *(3)*

(1) The colors are listed in the same order as the mounting order of the illuminated units (from top to bottom).
(2) Compatible with XVGB●H, XVGB●SH, XVGB●M●, XVGB●SM●, XVGM●H, XVGM●SH, XVGM●M●, XVGM●SM.
(3) Compatible with XVGB●T, XVGB●ST, XVGM●T, XVGM●ST.

Note: *Commercial references ending with "A" have shorter pole length.*

Easy Harmony XA2 plastic pushbuttons

1 Pushbuttons with flush push, unmarked

Color		White	Black	Green	Red	Yellow	Blue
Contact		NO			NC	NO	
Connection		Screw clamp terminals					
Complete product for standard mounting	Spring−return	**XA2EA11**	**XA2EA21**	**XA2EA31**	**XA2EA42**	**XA2EA51**	**XA2EA61**
	Push−push	**–**	**XA2EH021**	**XA2EH031**	**XA2EH042**	**XA2EH051**	**–**
Contact		NO+NC					
		–	**XA2EA25**	**XA2EA35**	**XA2EA45**	**–**	**–**
Contact		NO					
		–	**–**	**–**	**XA2EA41**	**–**	**–**

2 Pushbuttons with flush push, marked

Color	White	Black	Green	Red	Red	
Marking	A	⇧	“I” (white)	“O” (white)	“STOP” (white)	
Contact	NO			NC	NC	
Connection	Screw clamp terminals					
Complete product for standard mounting	**XA2EA3341**	**XA2EA3351**	**XA2EA3311**	**XA2EA6511**	**XA2EA4322**	**XA2EA4342**

3 Trigger action Emergency stop mushroom head pushbuttons

Color	Red			
Diameter of head	Ø 40	Ø 30	Ø 40	Ø 60
Contact	NC Push−pull	NC Turn to release		
Connection	Screw clamp terminals			
Complete product for standard mounting	**XA2ET42**	**XA2ES442**	**XA2ES542**	**XA2ES642**

4 Mushroom head pushbuttons, spring return

Color	Black	Green	Red
Diameter of head	Ø 40	Ø 40	Ø 40
Contact	NO		NC
Connection	Screw clamp terminals		
Complete product for standard mounting	**XA2EC21**	**XA2EC31**	**XA2EC42**

5 Selector switches

Positions		2	2	2	3	3
Contact		NO		NO + NC	2 NO	
Connection		Screw clamp terminals				
Complete product for standard mounting	Standard handle	**XA2ED21**	**XA2ED41**	**XA2ED25**	**XA2ED33**	**XA2ED53**
	Long handle	**XA2EJ21**	**–**	**XA2EJ25**	**XA2EJ33**	**XA2EJ53**

6 Key switches

Positions		2	2	2	3	3	3
Contact		NO	2 NO				
Connection		Screw clamp terminals					
Complete product for standard mounting	Key switch (No. 455)	**XA2EG21**	**XA2EG43**	**XA2EG63**	**XA2EG73**	**XA2EG33**	**XA2EG03**

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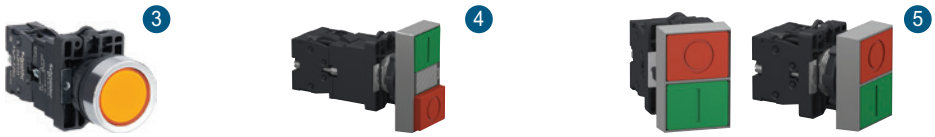
Easy Harmony XA2 plastic pushbuttons

1 Pilot lights with integral LED

Color		White	Green	Red	Amber	Blue	Yellow	Bi-color(Green/Red)
Connection		Screw clamp terminals						
Complete product for standard mounting	12 V ACVDC	XA2EVJ1LC	XA2EVJ3LC	XA2EVJ4LC	XA2EVJ5LC	XA2EVJ6LC	XA2EVJ8LC	–
	24 V ACVDC	XA2EVB1LC	XA2EVB3LC	XA2EVB4LC	XA2EVB5LC	XA2EVB6LC	XA2EVB8LC	XA2EVB34LC
	30 V AC/DC	XA2EVC1LC	XA2EVC3LC	XA2EVC4LC	XA2EVC5LC	XA2EVC6LC	XA2EVC8LC	–
	48 V AC/DC	XA2EVE1LC	XA2EVE3LC	XA2EVE4LC	XA2EVE5LC	XA2EVE6LC	XA2EVE8LC	–
	63.5 V AC/DC	XA2EVEE1LC	XA2EVEE3LC	XA2EVEE4LC	XA2EVEE5LC	XA2EVEE6LC	XA2EVEE8LC	–
	110 V AC/DC	XA2EVF1LC	XA2EVF3LC	XA2EVF4LC	XA2EVF5LC	XA2EVF6LC	XA2EVF8LC	–
	220...230 V AC	XA2EVM1LC	XA2EVM3LC	XA2EVM4LC	XA2EVM5LC	XA2EVM6LC	XA2EVM8LC	XA2EVM34LC
	220 V DC	XA2EVMD1LC	XA2EVMD3LC	XA2EVMD4LC	XA2EVMD5LC	XA2EVMD6LC	XA2EVMD8LC	–
	380...400 V AC	XA2EVQ1LC	XA2EVQ3LC	XA2EVQ4LC	XA2EVQ5LC	XA2EVQ6LC	XA2EVQ8LC	–

2 Indicators with Integral LEDs

Connection		Screw clamp terminals			
Type		–	Isolation switch indicator	Circuit breaker indicator	Ground Indicator
Complete product for standard mounting	110 V AC	–	XA2EVF34SPC	XA2EVM34SPC	XA2EVQ34SPC
	220 V AC	–	XA2EVF34BPC	XA2EVM34BPC	XA2EVQ34BPC
(Green/Red)	380 V AC	–	XA2EVF34GPC	XA2EVM34GPC	XA2EVQ34GPC



3 Illuminated pushbuttons with integral LED

Color		White	Green	Red	Yellow	Blue	Red
Contact		NO					NC
Connection		Screw clamp terminals					
Complete product for standard mounting	24 V AC/DC	XA2EW31B1	XA2EW33B1	XA2EW34B1	XA2EW35B1	XA2EW36B1	XA2EW34B2
	220...230 V AC	XA2EW31M1	XA2EW33M1	XA2EW34M1	XA2EW35M1	XA2EW36M1	XA2EW34M2
	380...400 V AC	XA2EW31Q1	–	–	–	–	XA2EW34Q2

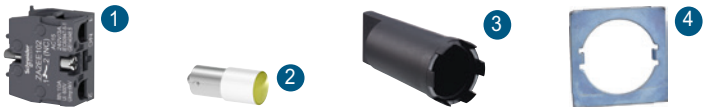
4 Double-headed pushbuttons, spring return with pilot light block

Complete product for standard mounting	24 VAC/DC	XA2EW7L3741B5
(Green/Red)	220...230 V AC	XA2EW7L3741M5

5 Double-headed pushbuttons, spring return without pilot light block

Complete product for standard mounting	XA2EA7A3415

Accessories for Easy Harmony XA2 plastic pushbuttons



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1 Contact functions (for all XA2 pushbuttons and switches)			
Type	Contact function		
Contact	NO	NC	
Connection	Screw clamp terminals		
Reference	**ZA2EE101**	**ZA2EE102**	
2 Bulbs with BA 9s base fitting and associated accessories			
Color	White	Yellow	Blue
Voltage	24 VAC/VDC		
Reference	**DL1LED241**	**DL1LED245**	**DL1LED246**
3 Bezel tool			
Application	Tightening head fixing nut		
Reference	**ZB5AZ905**		
4 Anti−rotation plate			
Application	Prevents head from rotation		
Reference	**ZB5AZ902**		

Easy Harmony XB2 metal pushbuttons

1

2

3

1 Pushbuttons with flush push, unmarked *(1)*						
Color	White	Black	Green	Red	Yellow	Blue
Contact	NO			NC	NO	
Connection	Screw clamp terminals					
Complete product for standard mounting	**XB2BA11C**	**XB2BA21C**	**XB2BA31C**	**XB2BA42C**	**XB2BA51C**	**XB2BA61C**

2 Pushbuttons with flush push, marked *(1)*				
Color	White	Black	Green	Red
Marking	"Arrow"	"Arrow"	"I" (white)	"O" (white)
Contact	NO			
Connection	Screw clamp terminals			
Complete product for standard mounting	**XB2BA3341C**	**XB2BA3351C**	**XB2BA3311C**	**XB2BA4322C**

3 Pushbuttons with projecting push, unmarked *(1)*		
Color	Green	Red
Contact	NO	NC
Connection	Screw clamp terminals	
Complete product for standard mounting	**XB2BL31C**	**XB2BL42C**

1

2

1 Pushbuttons with booted push, unmarked *(1)*			
Color	Black	Green	Red
Contact	NO		NC
Connection	Screw clamp terminals		
Complete product for standard mounting	**XB2BP21C**	**XB2BP31C**	**XB2BP42C**

2 Mushroom head pushbuttons, spring return *(1)*					
Color	Black	Green	Red	Yellow	Black
Diameter of head	Ø 40				Ø 60
Contact	NO		NC	NO	
Connection	Screw clamp terminals				
Complete product for standard mounting	**XB2BC21C**	**XB2BC31C**	**XB2BC42C**	**XB2BC51C**	**XB2BR21C**

1

2

1 Emergency stop pushbuttons *(1)(2)*		
Color	Red	
Diameter of head	Ø 40	
Contact	NC Push −pull	NC Turn to release
Connection	Screw clamp terminals	
Complete product for standard mounting	**XB2BT842C**	**XB2BS8442C**

2 Emergency switch off pushbuttons *(1)*				
Color	Red			
Diameter of head	Ø 40	Ø 30	Ø 40	Ø 60
Contact	NC Push −pull	NC Turn to release		
Connection	Screw clamp terminals			
Complete product for standard mounting	**XB2BT42C**	**XB2BS442C**	**XB2BS542C**	**XB2BS642C**

(1) This product line will be available starting in Q3 2023.
(2) Emergency stop pushbuttons should have a maximum of 4 numbers of contact blocks, installed in 2 rows only.

Easy Harmony XB2 metal pushbuttons

1

2

3

Selector switches *(1)*								
Positions		2		2		3	3	2
Contact		NO	NO + NC	NO	NO + NC	2 NO		
Connection		Screw clamp terminals						
Complete product for standard mounting	1 Standard handle	**XB2BD21C**	**XB2BD25C**	**XB2BD41C**	**XB2BD45C**	**XB2BD33C**	**XB2BD53C**	**XB2BD73C**
	2 Long handle	**XB2BJ21C**	**XB2BJ25C**	**–**	**–**	**XB2BJ33C**	**XB2BJ53C**	**–**

3 Key switches *(No. 455) (1)*							
Positions		2	2	2	3	3	3
Connection		Screw clamp terminals					
Complete product for standard mounting	NO	**XB2BG21C**	**XB2BG41C**	**XB2BG61C**	**–**	**–**	**–**
	2 NO	**–**	**–**	**–**	**XB2BG33C**	**XB2BG53C**	**XB2BG03C**
	NO + NC	**XB2BG25C**	**XB2BG45C**	**XB2BG65C**	**–**	**–**	**–**

1

2

Illuminated pushbuttons with integral LED *(1)*						
Color		White	Green	Red	Yellow	Blue
Contact		NO				
Connection		Screw clamp terminals				
Complete product for standard mounting	1 24 V AC/DC	**XB2BW31B1C**	**XB2BW33B1C**	**XB2BW34B1C**	**XB2BW35B1C**	**XB2BW36B1C**
	2 220...230 V AC	**XB2BW31M1C**	**XB2BW33M1C**	**XB2BW34M1C**	**XB2BW35M1C**	**XB2BW36M1C**

Joysticks		
Return type	Spring return	Stay
2 Directions	**XD2PA22CR**	**XD2PA12CR**
4 Directions	**XD2PA24CR**	**XD2PA14CR**

1

2

Buzzers		
Characteristics	Non-illuminated 1	Illuminated 2
24 V AC/DC	**XB2BSBC**	**XB2BSB4LC**
220...230 V AC	**XB2BSMC**	**XB2BSM4LC**

(1) This product line will be available starting in Q3 2023.
Note: *For illuminated pilot lights, please refer to Easy Harmony XA2 range.*

Easy Harmony XB2 metal pushbuttons

1 Pushbutton heads with flush push, unmarked						
Color	White	Black	Green	Red	Yellow	Blue
Push button Head for standard mounting	**ZB2BA1C**	**ZB2BA2C**	**ZB2BA3C**	**ZB2BA4C**	**ZB2BA5C**	**ZB2BA6C**
2 Pushbutton heads with flush push, marked						
Color	White	Black	Green	Red		Blue
Marking	"Arrow" (black)	"Arrow"	"I"	"O"	"STOP"	"Double arrow"
Push button Head for standard mounting	**ZB2BA334C**	**ZB2BA335C**	**ZB2BA331C**	**ZB2BA432C**	**ZB2BA434C**	**ZB2BA651C**
3 Pushbutton heads with projecting push, unmarked						
Color	Black	Green	Red	Yellow		
Push button Head for standard mounting	**ZB2BL2C**	**ZB2BL3C**	**ZB2BL4C**	**ZB2BL5C**		
4 Pushbutton head with projecting push, marked						
Color	Red					
Push button Head for standard mounting	**ZB2BL432C**					

1 Pushbutton heads with booted push, unmarked					
Color	Black	Green	Red	Yellow	Blue
Push button Head for standard mounting	**ZB2BP2C**	**ZB2BP3C**	**ZB2BP4C**	**ZB2BP5C**	**ZB2BP6C**
2 Mushroom pushbutton heads, spring return					
Color	Black	Green	Red	Yellow	Blue
Push button Head for standard mounting Ø 40	**ZB2BC2C**	**ZB2BC3C**	**ZB2BC4C**	**ZB2BC5C**	**ZB2BC6C**
Push button Head for standard mounting Ø 60	**ZB2BR2C**	**ZB2BR3C**	**ZB2BR4C**	–	–

1 Emergency stop pushbutton heads *(1)*						
Color	Red					
Diameter of head	Ø 40					
Release type	Push-pull			Turn to release		
Push button head for standard mounting	**ZB2BT84C**			**ZB2BS844C**		
2 Emergency switch off pushbutton heads						
Color	Red	Yellow	Black	Red		
Diameter of head	Ø 40		Ø 30		Ø 40	Ø 60
Release type	Push-pull		Turn to release			
Push button head for standard mounting	**ZB2BT4C**	**ZB2BT5C**	**ZB2BS42C**	**ZB2BS44C**	**ZB2BS54C**	**ZB2BS64C**

(1) Emergency stop pushbuttons should have a maximum of 4 numbers of contact blocks, installed in 2 rows only.

Easy Harmony XB2 metal pushbuttons

1

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3

Selector switch heads

Positions		2	2	3	3	3
Complete product for standard mounting	1 Standard handle	ZB2BD2C	ZB2BD4C	ZB2BD3C	ZB2BD5C	ZB2BD7C
	2 Long handle	ZB2BJ2C	ZB2BJ4C	ZB2BJ3C	ZB2BJ5C	ZB2BJ7C

3 Key switch heads *(No. 455)*

Positions	2	2	2	3	3	3
Selector switch head for standard mounting	ZB2BG2C	ZB2BG4C	ZB2BG6C	ZB2BG3C	ZB2BG5C	ZB2BG0C

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1 Illuminated pushbutton heads with flush push

Color	White	Green	Red	Orange	Blue
Push button head for standard mounting	ZB2BW31C	ZB2BW33C	ZB2BW34C	ZB2BW35C	ZB2BW36C

2 Illuminated pushbutton heads with projecting push

Color	White	Green	Red
Push button head for standard mounting	ZB2BW11C	ZB2BW13C	ZB2BW14C

1

2

Contact block sub−assemblies

Contact	1 NO	1 NC	2 NO	2 NC	1 NO + 1 NC
Connection	Screw clamp terminals				
1 With fixing collar	ZB2BZ101C	ZB2BZ102C	ZB2BZ103C	ZB2BZ104C	ZB2BZ105C
2 No fixing collar	ZB2BE101C	ZB2BE102C	–	–	–

1

2

1 Illuminated contact block sub−assemblies, BA9S bulb base with LED bulb

Color		White	Green	Red	Orange	Blue
Connection		Screw clamp terminals				
24V AC/DC	1 NO	ZB2BWB11C	ZB2BWB31C	ZB2BWB41C	ZB2BWB51C	ZB2BWB61C
	1 NC	–	ZB2BWB32C	ZB2BWB42C	ZB2BWB52C	–
220−230V AC	1 NO	ZB2BWM11C	ZB2BWM31C	ZB2BWM41C	ZB2BWM51C	ZB2BWM61C
	1 NC	–	ZB2BWM32C	ZB2BWM42C	ZB2BWM52C	–

2 Illuminated contact block sub−assemblies, BA9S bulb base without bulb

Contact	NO	NC	2 NO	NO + NC
Connection	Screw clamp terminals			
<380V AC direct	ZB2BW061C	ZB2BW062C	ZB2BW063C	ZB2BW065C

Easy Harmony XB2 metal pushbuttons

Push-push module *(1)*	
Push button convertor	**ZB2BZ21C**

BA9S LED bulbs					
Color	White	Green	Red	Orange	Blue
Connection	Screw clamp terminals				
24V AC/DC *(2)*	**DL1−LED241**	**DL1−LED243**	**DL1−LED244**	**–**	**–**
110V AC/DC	**DL1−LED1101**	**DL1−LED1103**	**DL1−LED1104**	**DL1−LED1105**	**DL1−LED1106**
220V AC/DC	**–**	**DL1−LED2203**	**DL1−LED2204**	**DL1−LED2205**	**DL1−LED2206**

(1) Component to install before contact blocks, to convert spring return connection to push−push connection.
(2) 24V AC/DC bulbs are sold in lots of 10.

Accessories for Easy Harmony XB2 metal pushbuttons

1

2

1 Empty Legend holders *(1)*		
Size	30 x 40 mm	30 x 50 mm
Suitable for legend plate size	8 x 27 mm	18 x 27 mm
Reference	**ZB2BZ32C**	**ZB2BZ33C**

2 Legend plates *(1)*						
Marking	“STOP’	“ON”	“OFF−ON”	“EMERGENCY STOP”	“OFF−ON”	Unmarked
Size	8 x 27 mm				18 x 27 mm	
Color	Red	Black		Yellow	Black	White
Reference	**ZBY02304C**	**ZBY02311C**	**ZBY02367C**	**ZBY04330C**	**ZBY502367C**	**ZBY5102C**

3

4

5

3 Emergency stop legend *(1)*	
Application	Legend for emergency stop push button
Reference	**ZB2BY9330C**

4 Emergency stop guard	
Application	Guard for dia 40mm emergency stop push button
Reference	**ZB2BZ1605C**

5 Dust protection boot *(1)*	
Application	Dust protection cap
Reference	**ZB2BPAC**

(1) Sold in lots of 10.

02. Easy Harmony ET6

Easy Harmony ET6 Essential Touch-screen Panels

Easy Harmony ET6 SIO models with IP65 degree of protection			
Screen size		7" 1	10.1" 2
Screen resolution (pixels)		800 x 480 WVGA	1024 x 600 WSVGA
Touch screen or keypad		Touch screen	
Software		Vijeo Designer Basic V1.2 or above	
Memory capacity	User data memory	256 MB (for system data , screen data and logging data storage)	
	Backup memory	128 KB	
	Local loggiing data storage	max. 32MB	
Communication	Serial line	9-way male SUB-D, RS-232C (COM1) + 9-way male SUB-D, RS-422/RS485 (COM2)	
	USB connection	1 micro-B connector	
Operating temperature		0…50 °C	
Industrial certifications		CE, UL/cUL 61010-2-201, KC, EAC, UKCA, RCM, European RoHS/China RoHS, REACH, WEEE	
Cut-out (mm)		190 x 135	255 x 185
Dimensions (mm)		205.5 x 150.5 x 45	270.5 x 200.5 x 47
Reference		**HMIET6401**	**HMIET6501**

Easy Harmony ET6 ETH models with IP65 degree of protection					
Screen size		7" 3	10.1" 4	12.1" 5	15.6" 6
Screen resolution (pixels)		800 x 480 WVGA	1024 x 600 WSVGA	1280 x 800 WXGA	1366 x 768 FWXGA
Touch screen or keypad		Touch screen			
Software		Vijeo Designer Basic V1.2 or above			
Memory capacity	User data memory	256 MB (for system data , screen data and logging data storage)			
	Backup memory	128 KB			
	Local loggiing data storage	max. 32MB			
Communication	Ethernet port	Ethernet 10/100BASE-TX			
	Serial line	9-way male SUB-D, RS-232C (COM1) + 9-way male SUB-D, RS-422/RS485 (COM2)			
	USB connection	1 type A connector + 1 micro-B connector			
Operating temperature		0…50 °C			
Industrial certifications		CE, UL/cUL 61010-2-201, KC, EAC,UKCA, RCM, European RoHS, China RoHS, REACH, WEEE			
Cut-out (mm)		190 x 135	255 x 185	295 x 217	394 x 250
Dimensions (mm)		205.5 x 150.5 x 45	270.5 x 200.5 x 47	310.5 x 232.5 x 50	412 x 268 x 50
Reference		**HMIET6400**	**HMIET6500**	**HMIET6600**	**HMIET6700**

Vijeo Designer Basic, programming software for Easy Harmony ET6 panels	
Compatibility	All Easy Harmony ET6 panels (required V1.2 or above)
Type of Vijeo Designer license	Single-station Build Time
Number of stations	1
Type of support	DVD
License duration	Unlimited
Reference	**To download this software, visit Schneider Electric web site, Vijeo Designer Basic**

Spare parts	
Description	Power supply connector (5 pieces/set)
Compatibility	All Easy Harmony ET6
Reference	**HMIZGPWS1**

Connection accessories		
Connection type	1 USB micro-B connector (male) + 1 USB micro-B connector (female) 1	1 USB type A connector (male) + 1 USB type A connector (female) 2
Description	Extension cable that attaches USB (micro-B) interface to the front panel of the cabinet	Extension cable that attaches USB (type A) interface to the front panel of the cabinet
Cable length (m)	1	1.8
Reference	**HMIZSUSBB2**	**XBTZGUSB**

Cables for connecting Easy Harmony ET6 panels to Schneider Electric products		
Range compatibility	Modicon M221, M241, M251, M262, M340, M218, M238, M258	TeSys U/T starters, Altivar drives, Altistart starters, Lexium motion control, Preventa XPS MC
Connection type	1 male connector RJ45 + 1 female connector 9-way Sub-D	1 male connector RJ45 + 1 female connector 9-way Sub-D
Interface	RS 485	
Communication protocol	–	Modbus
Compatibility	All Easy Harmony GXU panels	
Cable length (m)	2.5	
Reference	**XBTZ9008**	**XBTZ9008**

Easy Harmony ET6 - Accessories

Cables for third-party PLCs		
Third-party PLCs	Customizable cables	
Compatibility	All Easy Harmony ET6 models	
Connection cable	RS 422	
Connection type	9-way SUB-D/flying leadsat other end (1)	
Interface	RS 422	
Cable length (m)	5	
Reference	**XBTZG9722**	
Connecting Easy Harmony ET6 panels via Modbus serial link		
Description	Modbus serial link	Power supply connector
Compatibility	All Easy Harmony ET6 models	
Tap-off units	8-port Modbus splitter box LU9GC32-porttap junctionTWDXCAISO, and TWDXCAT3RJ	
Communication protocol	Modbus	
Connection type	1 male connector RJ45/9-way SUB-D (2)	
Interface	RS 485	
Cable length (m)	2.5	
Reference	**XBTZ9008**	

(1) Customized cable with Siemens PB connector 6ES7972-0Bx12-0XA0.

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03. Easy Altivar variable speed drives

Easy Altivar 610 - IP 20 drives (Power range from 0.75 kW to 160 kW)

Three-phase supply voltage: 380…460 V 50/60 Hz, with integrated category C3 EMC filter												
ND: Normal duty *(2)*, **HD: Heavy duty** *(3)*			kW	HP	kW	HP	kW	HP	kW	HP	kW	HP
Motor *(1)*	Power indicated on rating plate	ND	0.75	0.37	1.5	0.75	2.2	1.5	3	2.2	4	3
		HD	1	0.5	2	1	3	2	4	3	5	–
Easy Altivar 610	Max. continuous output current *(1)*		2.2	1.5	4.0	2.2	5.6	4.0	7.2	5.6	9.3	7.2
Dimensions: W x H x D (mm)	EMC plate not mounted (mm)		145 x 297 x 203 1									
Reference			**ATV610U07N4**		**ATV610U15N4**		**ATV610U22N4**		**ATV610U30N4**		**ATV610U40N4**	

ND: Normal duty *(2)*, **HD: Heavy duty** *(3)*			kW	HP	kW	HP	kW	HP	kW	HP	kW	HP
Motor *(1)*	Power indicated on rating plate	ND	5.5	4	7.5	5.5	11	7.5	15	11	18.5	15
		HD	7.5	5	10	7.5	15	10	20	15	25	20
Easy Altivar 610	Max. continuous output current *(1)*		12.7	9.3	15.8	12.7	23.5	16.5	31.7	23.5	39.2	31.7
Dimensions: W x H x D (mm)	EMC plate not mounted (mm)		145 x 297 x 203 1				171 x 360 x 233 2				211 x 495 x 232 3	
Reference			**ATV610U55N4**		**ATV610U75N4**		**ATV610D11N4**		**ATV610D15N4**		**ATV610D18N4**	

ND: Normal duty *(2)*, **HD: Heavy duty** *(3)*			kW	HP	kW	HP	kW	HP	kW	HP	kW	HP
Motor *(1)*	Power indicated on rating plate	ND	22	18.5	30	22	37	30	45	37	55	45
		HD	30	25	40	30	50	40	60	50	75	60
Easy Altivar 610	Max. continuous output current *(1)*		46.3	39.2	61.5	46.3	74.5	59.6	88	74.5	106	88
Dimensions: W x H x D (mm)	EMC plate not mounted (mm)		211 x 495 x 232 3		226 x 613 x 271 4						290 x 762 x 323 5	
Reference			**ATV610D22N4**		**ATV610D30N4**		**ATV610D37N4**		**ATV610D45N4**		**ATV610D55N4**	

ND: Normal duty *(2)*, **HD: Heavy duty** *(3)*			kW	HP	kW	HP	kW	HP	kW	HP	kW	HP
Motor *(1)*	Power indicated on rating plate	ND	75	55	90	75	110	90	132	110	160	132
		HD	100	75	125	100	149	125	178	149	216	178
Easy Altivar 610	Max. continuous output current *(1)*		145	106	173	145	211	173	250	211	302	250
Dimensions: W x H x D (mm)	EMC plate not mounted (mm)		290 x 762 x 323 5				320 x 852 x 390 6					
Reference			**ATV610D75N4**		**ATV610D90N4**		**ATV610C11N4**		**ATV610C13N4**		**ATV610C16N4**	

(1) These values are given for a nominal switching frequency of 4 kHz up to ATV610D45N4, or 2.5 kHz for ATV610D55N4...C16N4for use in continuous operation. The switching frequency is adjustable from 2...12 kHz up to ATV610D45N4, or from 1...8 kHz for ATV610D55N4...C16N4. 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 on our website).
(2) Values given for applications requiring a slight overload (up to 110 % for 60 s or 120% for 20 s).
(3) Values given for applications requiring a slight overload (up to 150 % for 60 s).
(4) With IP21 conformity kit.

Easy Altivar 610 - Accessories for mounting of variable speed drives

Kit for IP 21 conformity		
For use with variable speed drives		ATV610C11N4... C16N4
Power	kW	110...160
	HP	149...216
Reference		**VW3A9704**

Easy Altivar 610 - Configuration and runtime tools, Communication buses and networks

Plain text display terminal	
Degree of protection	IP21
Display type	Backlit LCD screen white
Pixel resolution	128 x 64
Reference	**VW3A1113**

Remote mounting kit						
Type of product	Remote mounting kit for plain text display terminal 1	Tightening tool for remote mounting kit 2	Remote mounting cordset (equipped with 2 RJ45 connectors) 3			
Degree of protection	IP20	–	–			
Length (m)	–	–	1	3	5	10
Connector type	–	–	RJ45			
Reference	**VW3A1114**	**ZB5AZ905**	**VW3A1104R10**	**VW3A1104R30**	**VW3A1104R50**	**VW3A1104R100**

I/O modules (option)			
I/O type	Digital inputs	6	–
	Digital outputs	2	–
	Analog inputs	2 *(1)*	–
	Relay outputs	–	3 *(2)*
Reference		**VW3A3203**	**VW3A3204**

PROFIBUS DP V1 optional communication module	
Electrical connection	1 female connector SUB-D 9
Transmission rate	9.6 kbps...12 Mbps
Display type	1 LED for RUN, 1 LED for bus fault
Bus profile	PROFIdrive, CiA 402
Reference	**VW3A3607**

(1) Differential analog inputs configurable via software as current (0-20 mA/4-20 mA) or probe (PTC, PT100, or 2-wire or 3-wire PT1000) inputs. When configured as PTC probe inputs, they must never be used to protect an ATEX motor in applications in explosive atmospheres. Please refer to the "ATEX guide"on our website.
(2) NO contacts.

Easy Altivar 310 - IP 20 drives (380…460 V 50/60 Hz)

Three-phase supply voltage: 380…460 V 50/60 Hz, without EMC filter

Motor	Power indicated on rating plate *(1)*	HD	kW	0.37	0.75	1.5	2.2	3
			HP	0.5	1	2	3	4
		ND	kW					4
			HP					5
Easy Altivar 310	Max. continuous output current *(1)*	HD		1.5	2.3	4.1	5.5	7.1
		ND						8.9
Dimensions: W x H x D (mm)				72 x 143 x 130 (1)	72 x 143 x 140 (1)	105 x 143 x 151 (2)	105 x 143 x 151 (2)	140 x 184 x 151 (3)
Reference				**ATV310H037N4E**	**ATV310H075N4E**	**ATV310HU15N4E**	**ATV310HU22N4E**	**ATV310HU30N4E**

Motor	Power indicated on rating plate	HD	kW	4	5.5	7.5	11	15	18.5	22
			HP	5	7.5	10	15	20	25	30
		ND	kW	5.5	7.5	11	15	18.5	22	30
			HP	7.5	10	15	20	25	30	40
Easy Altivar 310	Max. continuous output current	HD		9.5	12.6	17	24	33	39	46
		ND		12.1	16	22.8	30	36	43	60
Dimensions: W x H x D (mm)				140 x 184 x 151 (3)	140 x 184 x 151 (3)	150 x 232 x 171 (4)	150 x 232 x 171 (4)	180 x 330 x 191 (5)	180 x 330 x 191 (5)	180 x 390 x 212 (6)
Reference				**ATV310HU40N4E**	**ATV310HU55N4E**	**ATV310HU75N4E**	**ATV310HD11N4E**	**ATV310HD15N4E**	**ATV310HD18N4E**	**ATV310HD22N4E**

(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.

Three-phase supply voltage: 380…460 V 50/60 Hz, with C3 EMC filter

Motor	Power indicated on rating plate	HD	kW	15	18.5	22
			HP	20	25	30
		ND	kW	18.5	22	30
			HP	25	30	40
Easy Altivar 310	Max. continuous output current	HD		33	39	46
		ND		36	43	60
Dimensions: W x H x D (mm)				180 x 330 x 191 (5)	180 x 330 x 191 (5)	180 x 390 x 212 (6)
Reference				**ATV310HD15N4EF**	**ATV310HD18N4EF**	**ATV310HD22N4EF**

(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, for details please refer to user manual.

Easy Altivar 310 - Configuration tools

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Simple Loader, Multi-Loader configuration tools and associated cable

Description	**Simple Loader tool** 7 For duplicating one drive configuration on another drive. The drives must be powered-up.	**Multi-Loader tool** 8 For copying a configuration on a PC or drive and duplicating it on another drive. The drives do not need to be powered-up.
Kit composition	Simple loader tool 1 cordset with 2 connectors RJ45	Multi loader tool 1 adaptor RJ45 female/female 4 batteries AA/LR6 1.5 V 1 cordset with 2 connectors RJ45 1 memory card SD 2 Go 1 cordset with 1 connector USB type A and 1 connector USB type mini B
For use with	ATV310H●●●N4E	ATV310H●●●N4E
Reference	**VW3A8120**	**VW3A8121**

Remote display terminals and associated cordsets

Description	**Remote display terminals** 9 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.		**Remote-fixing cordsets** 10 Equipped with 2 RJ45 connectors. For connecting the VW3 A1006 or VW3A1007remote display terminal to the Easy Altivar 310 drive.	
For use with	ATV310H●●●N4E	ATV310H●●●N4E	ATV310H●●●N4E	ATV310H●●●N4E
Degree of protection	IP 54	IP 65	–	
Dimensions: W x H x D (mm)	50 x 70 x 22.7	66 x 106 x 26.7	Length: 1 m/3.28 ft	Length: 3 m/9.84 ft
Reference	**VW3A1006**	**VW3A1007**	**VW3A1104R10**	**VW3A1104R30**

Easy Altivar 310 - line chokes, motor chokes and LR filter cells

Line chokes

For use with			ATV310H037N4E	ATV310H075N4E	ATV310HU15N4E	ATV310HU22N4E	ATV310HU30N4E
Line current with choke	HD	380 V	1.1	1.9	3.5	5.1	6.6
		460 V	1	1.7	2.9	4.4	5.6
	ND	380 V					8.5
		460 V					7.1
Line current without choke	HD	380 V	2.1	3.5	6.5	8.8	11.1
		460 V	1.8	3.1	5.4	7.2	9.2
	ND	380 V					14.2
		460 V					11.6
Dimensions: W x H x D (mm)			100 x 135 x 60		130 x 155 x 90		
Reference			**VW3A4551**		**VW3A4552**		

For use with			ATV310HU40N4E	ATV310HU55N4E	ATV310HU75N4E	ATV310HD11N4E	ATV310HD15N4E
Line current with choke	HD	380 V	8.5	11.6	16.1	22	28.9
		460 V	7.7	9.9	14.2	18.3	24.4
	ND	380 V	11.6	15.3	22.2	29.9	29
		460 V	9.9	12.8	18.8	25	29
Line current without choke	HD	380 V	13.7	21.3	26.6	36.1	46.5
		460 V	11.4	14.3	22.4	30.4	38.5
	ND	380 V	18	23	29.5	38.6	46.6
		460 V	14.9	19	24.8	32.5	38.8
Dimensions: W x H x D (mm)			130 x 155 x 90		155 x 170 x 135		
Reference			**VW3A4553**		**VW3A4554**		

For use with			ATV310HD18N4E	ATV310HD22N4E	ATV310HD15N4EF	ATV310HD18N4EF	ATV310HD22N4EF
Line current with choke	HD	380 V	36.4	42.4	28.9	36.4	42.4
		460 V	31.6	36.3	24.4	31.6	36.3
	ND	380 V	41.8	57.2	29	41.8	57.2
		460 V	35.3	48.3	29	35.3	48.3
Line current without choke	HD	380 V	55.3	64.2	46.5	55.3	64.2
		460 V	45.8	53.2	38.5	45.8	53.2
	ND	380 V	54.1	71.2	46.6	54.1	71.2
		460 V	45.1	59.2	38.8	45.1	59.2
Dimensions: W x H x D (mm)		HD	180 x 210 x 160	180 x 210 x 160	155 x 170 x135	180 x 210 x 160	180 x 210 x 160
		ND V		270 x 210 x 180			270 x 210 x 180
Reference		HD	**VW3A4555**	**VW3A4555**	**VW3A4554**	**VW3A4555**	**VW3A4555**
		ND V	–	**VW3A4556**	–	–	**VW3A4556**

Motor chokes

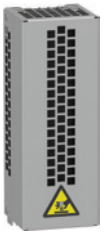
For use with	ATV310H037N4E	ATV310H075N4E	ATV310HU15N4E	ATV310HU22N4E	ATV310HU30N4E
HD and ND	HD		HD		HD/ND
Losses (W)	45		65		
Nominal current (A)	4		10		
Dimensions: W x H x D (mm)	100 x 135 x 60		130 x 155 x 90		
Reference	**VW3A4551**		**VW3A4552**		

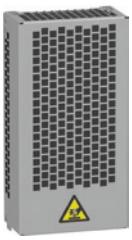
For use with	ATV310HU40N4E	ATV310HU55N4E	ATV310HU75N4E	ATV310HD11N4E
HD and ND	HD/ND	HD/ND	HD/ND	
Losses (W)	75	75	90	
Nominal current (A)	17	17	31	
Dimensions: W x H x D (mm)	130 x 155 x 90	130 x 155 x 90	155 x 170 x135	
Reference	**VW3A4553**	**VW3A4553**	**VW3A4554**	

Motor chokes				
For use with	ATV310HD15N4E(F)	ATV310HD18N4E(F)	ATV310HD22N4E(F)	
HD and ND	HD/ND		HD	ND
Losses (W)	94		94	260
Nominal current (A)	60		60	107
Dimensions: W x H x D (mm)	180 x 210 x 160		180 x 210 x 160	270 x 210 x 180
Reference	**VW3A4555**		**VW3A4555**	**VW3A4556**

LR filter cell	
For use with	ATV310H037N4E...HU15N4E
Losses (W)	150
Nominal current (A)	10
Dimensions: W x H x D (mm)	169.5 x 340 x 123
Reference	**VW3A58451**

Easy Altivar 310 - Braking resistors





Braking resistors				
Not protected resistor (IP00) *(1)*				
For use with	ATV310HU15N4E	ATV310HU22N4E	ATV310HU30N4E	ATV310HU40N4E
Minimum Ohmic value (W)	80	60	36	36
Ohmic value at 20° C (W)	100		100	
Power available at 50° C (kW) *(2)*	0.028		0.035	
Dimensions: W x H x D (mm)	60 x 170 x 30		62 x 212 x 36	
Reference	**VW3A7723** 1		**VW3A7725** 1	
Protected resistor (IP20 or 23)				
For use with	ATV310HU15N4E	ATV310HU22N4E	ATV310HU30N4E	ATV310HU40N4E
Minimum Ohmic value (W)	80	60	36	36
Ohmic value at 20° C (W)	100			
Power available at 50° C (kW) *(2)*	0.1			
Dimensions: W x H x D (mm)	105 x 295 x 100			
Reference	**VW3A7730** 2			
Protected resistor (IP20 or 23)				
For use with	ATV310HU55N4E	ATV310HU75N4E	ATV310HD11N4E	ATV310HD15N4E
Minimum Ohmic value (W)	28	28	28	16
Ohmic value at 20° C (W)	60		28	16
Power available at 50° C (kW) *(2)*	0.16		0.3	0.96
Dimensions: W x H x D (mm)	105 x 345 x 100		175 x 345 x 100	190 x 570 x 180
Reference	**VW3A7731** 2		**VW3A7732** 3	**VW3A7733**

Protected resistor (IP20 or 23)					
For use with	ATV310HD18N4E	ATV310HD22N4E	ATV310HD15N4EF	ATV310HD18N4EF	ATV310HD22N4EF
Minimum Ohmic value (W)	10	10	16	10	10
Ohmic value at 20° C (W)	16				
Power available at 50° C (kW) *(2)*	0.96				
Dimensions: W x H x D (mm)	190 x 570 x 180				
Reference	**VW3A7733**				

(1) For not protected resistors, add a thermal overload device.
(2) 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.
For VW3A7730...733:
- 2 s braking with a 0.6 Tn braking torque for a 40 s cycle
- 0.8 s braking with a 1.5 Tn braking torque for a 40 s cycle

Easy Altivar 310 - Modbus serial link

Modbus serial link				
Connection via splitter box and RJ45 connectors				
Description	**Modbus splitter box** 1 10 RJ45 connectors and 1 screw terminal	**Cordsets for Modbus serial link** 2 equipped with 2 RJ45 connectors		
Length (m)	–	0.3	1	3
Reference	**LU9GC3**	**VW3A8306R03**	**VW3A8306R10**	**VW3A8306R30**

Description	**Modbus T-junction boxes** 3 (with integrated cable)		**Line terminators** *(1) (2)* 4 For RJ45 connector	
Length (m)	0.3	1	–	–
Reference	**VW3A8306TF03**	**VW3A8306TF10**	**VW3A8306RC**	**VW3A8306R**

(1) Depends on the bus architecture.
(2) Order in multiples of two.

Easy Altivar 310 - Motor starters

Motor starters - Three-phase supply voltage, 380…460 V 50/60 Hz *(2)*							
Standard power ratings	kW	0.37	0.75	1.5	2.2	3	4
	HP	0.5	1	2	3	4	5.4
Variable speed drive		ATV310H037N4E	ATV310H075N4E	ATV310HU15N4E	ATV310HU22N4E	ATV310HU30N4E	ATV310HU40N4E
Combination with control circuit	1 TeSys motor circuit-breaker *(3)*	**GZ1LE07**	**GZ1LE08**	**GZ1LE14**	**GZ1LE14**	**GZ1LE16**	**GZ1LE20**
	Operating range	2.5	4	10	10	14	18
	2 TeSys contactor *(1)*	**LC1E06●●●●**	**LC1E06●●●●**	**LC1E09●●●●**	**LC1E09●●●●**	**LC1E18●●●●**	**LC1E18●●●●**

Standard power ratings	kW	5.5	7.5	11	15	18.5	22
	HP	7.4	10	15	20	25	30
Variable speed drive		ATV310HU55N4E	ATV310HU75N4E	ATV310HD11N4E	ATV310HD15N4E(F)	ATV310HD18N4E(F)	ATV310HD22N4E(F)
Combination with control circuit	1 TeSys motor circuit-breaker *(3) (4)*	**GZ3LE25**	**GZ3LE32**	**GZ3LE40**	**GZ3LE50**	**GZ3LE65**	**GZ3LE73**
	Operating range	25	32	40	50	60	73
	2 TeSys contactor *(1)*	**LC1E25●●●●**	**LC1E32●●●●**	**LC1E40●●**	**LC1E50●●**	**LC1E65●●**	**LC1E80●●**

(1) For a complete list of references for TeSys contactors, please visit our local website.
(2) Motor power indicated for combination with an ATV310H●●●N4E drive with the same rating.
(3) TeSys motor circuit-breakers:
- GZ1N●●: Thermal magnetic motor circuit-breakers with pushbutton control
- CVS●●: Molded-case circuit breakers with adjustable setting.
(4) Not released yet, will be available soon.

04. Easy Harmony Electromechanical Relays

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Easy Harmony RXM electromechanical relays

Easy Harmony RXM miniature plug-in relays

Type		With LED - Miniature relays without lockable test-button	
Contact		2 CO	4 CO
Enclosed Thermal Current (Ithe)		5 A	3 A
Complete product	12 VDC	**RXM2LB2JD**	**RXM4LB2JD**
	24 VDC	**RXM2LB2BD**	**RXM4LB2BD**
	36 VDC	**–**	**RXM4LB2CD**
	48 VDC	**RXM2LB2ED**	**RXM4LB2ED**
	110 VDC	**RXM2LB2FD**	**RXM4LB2FD**
	24 VAC	**RXM2LB2B7**	**RXM4LB2B7**
	120 VAC	**RXM2LB2F7**	**RXM4LB2F7**
	230 VAC	**RXM2LB2P7**	**RXM4LB2P7**

Type		Without LED - Miniature relays without lockable test-button	
Contact		2 CO	4 CO
Enclosed Thermal Current (Ithe)		5 A	3 A
Complete product	12 VDC	**RXM2LB1JD**	**RXM4LB1JD**
	24 VDC	**RXM2LB1BD**	**RXM4LB1BD**
	24 VAC	**RXM2LB1B7**	**RXM4LB1B7**
	120 VAC	**RXM2LB1F7**	**RXM4LB1F7**
	230 VAC	**RXM2LB1P7**	**RXM4LB1P7**

For use with	RXM2	RXM2, RXM4
Screw clamp socket	**RXZE1M2C**	**RXZE1M4C**

For use with	RXZE1M●C	RXZE1M2C
Metal maintaining clamp	**RXZ410**	**RXZ420**

Note: *If the protection module is needed, please use RXZE● sockets with the associated protection module RXM0. You can find more details in Harmony Electromechanical Relays catalog - RXM●AB range section.*

4

05. Easy Modicon power supplies

Easy Modicon ABL2K power supplies and Accessories

ABL2 regulated switch mode 24 V DC power supplies 1

Cooling design	Natural convection			
Automatic protect reset				
Voltage switching	Automatic			
Input Voltagesingle-phase (47~63Hz)	100...240 VAC			
Output Voltage	24 V DC			
Power (W)	35		50	
Output current (A)	1.5		2.2	
Overload hiccup protection (%)	110-160		170-190	
Reference	**ABL2REM24015K**	**ABL2REM24020K**	**ABL2REM24015KQ**	**ABL2REM24020KQ**

Cooling design	Natural convection			
Automatic protect reset				
Voltage switching	Automatic		Manual	
Input Voltagesingle-phase (47~63Hz)	100...240 VAC		100...120 VAC, 200...240 VAC	
Output Voltage	24 V DC			
Power (W)	100		150	
Output current (A)	4.5		6.5	
Overload hiccup protection (%)	110-160		170-190	
Reference	**ABL2REM24045K**	**ABL2REM24065K**	**ABL2REM24045KQ**	**ABL2REM24065KQ**

Cooling design	Natural convection		Forced air cooling by built-in DC fan
Automatic protect reset			
Voltage switching	Manual		
Input Voltagesingle-phase (47~63Hz)	100...120 VAC, 200...240 VAC		
Output Voltage	24 V DC		
Power (W)	200	250	350
Output current (A)	8.3	10.5	14.6
Overload hiccup protection (%)	110-150		
Reference	**ABL2REM24085K**	**ABL2REM24100K**	**ABL2REM24150K**

Options for ABL2 power supplies

Type of mounting accessory	4-corner bracket 2	Clip-on mounting plate 3	L-type accessories 4	
Description	For direct mounting on back panel Mounting screws not provided. Recommended use: M4 (6 mm/*0.24 in*) or M4 (8 mm/*0.31 in*) screws	For mounting on 35 mm (*1.37 in.*) DIN rail	Size: Small L	Size: Big L
For power supplies	ABL2REM24085K, ABL2REM24100K, ABL2REM2 4150K	All models	ABL2REM24015K, ABL2REM24015KQ, ABL2REM24020K, ABL2REM24020KQ, ABL2REM24045K, ABL2REM24045KQ, ABL2REM24065K, ABL2REM24065KQ	ABL2REM24085K, ABL2REM24100K, ABL2REM24150K
Sold in lots of	40	5 *(1)*	1	1
Reference	**ABL2K01**	**ABL2K02**	**ABL2K03A**	**ABL2K03B**

(1) ABL2K02 is a pack of 5 accessories usable on 35 mm (1.37 in.) ⊥⊥ 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).

06. Easy Lexium Motion Control

Easy Lexium 16D Motion control

Lexium 16D servo drives and BCH16 servo motors combinations - Single-phase supply voltage: 200/230 VAC

Power output (kW)		0.1		0.2	
Dimensions: W x H x D (mm)		52 x 150 x 155.2		52 x 150 x 155.2	
Nominal speed of rotation (min-1)		3000		3000	
Nominal torque (N.m)		0.32		0.64	
With holding brake		No	Yes	No	Yes
Inertia -without holding brake (kg.cm²)		0.041	0.047	0.42	0.48
Motor inertia type		Low		High	
Reference	Servo drive reference 1	**LXM16DU01M2X** **LXM16MU01M2X**		**LXM16DU02M2X** **LXM16MU02M2X**	
	Servo motor reference 2	**BCH16LB01330A5C2** **BCH16LB01332A5C2**	**BCH16LB01330F5C2** **BCH16LB01332F5C2**	**BCH16HD02330A5C2** **BCH16HD02332A5C2**	**BCH16HD02330F5C2** **BCH16HD02332F5C2**

Power output (kW)		0.4		0.75	
Dimensions: W x H x D (mm)		52 x 150 x 155.2		65 x 150 x 185.2	
Nominal speed of rotation (min-1)		3000		3000	
Nominal torque (N.m)		1.27		2.39	
With holding brake		No	Yes	No	Yes
Inertia -without holding brake (kg.cm²)		0.67	0.73	1.51	1.64
Motor inertia type		Low		High	
Reference	Servo drive reference 1	**LXM16DU04M2X** **LXM16MU04M2X**		**LXM16DU07M2X** **LXM16MU07M2X**	
	Servo motor reference 2	**BCH16HD04330A5C2** **BCH16HD04332A5C2**	**BCH16HD04330F5C2** **BCH16HD04332F5C2**	**BCH16HF07330A5C2** **BCH16HF07332A5C2**	**BCH16HF07330F5C2** **BCH16HF07332F5C2**

Power output (kW)		1		1	
Dimensions: W x H x D (mm)		65 x 150 x 185.2		65 x 150 x 185.2	
Nominal speed of rotation (min-1)		3000		3000	
Nominal torque (N.m)		3.18		3.18	
With holding brake		No	Yes	No	Yes
Inertia -without holding brake (kg.cm²)		1.24	1.37	2.65	2.75
Motor inertia type		Low		Low	
Reference	Servo drive reference 1	**LXM16DU10M2X** **LXM16MU10M2X**		**LXM16DU10M2X** **LXM16MU10M2X**	
	Servo motor reference 2	**BCH16LF10330A5C2** **BCH16LF10332A5C2**	**BCH16LF10330F5C2** **BCH16LF10332F5C2**	**BCH16LH10330A6C2** **BCH16LH10332A6C2**	**BCH16LH10330F6C2** **BCH16LH10332F6C2**

Power output (kW)		1			
Dimensions: W x H x D (mm)		65 x 150 x 185.2			
Nominal speed of rotation (min-1)		2000			
Nominal torque (N.m)		3.18			
With holding brake		No		Yes	
Inertia -without holding brake (kg.cm²)		10.88		11.58	
Motor inertia type		High			
Reference	Servo drive reference 1	**LXM16DU10M2X** **LXM16MU10M2X**			
	Servo motor reference 2	**BCH16HM10230A6C2** **BCH16HM10232A6C2**		**BCH16HM10230F6C2** **BCH16HM10232F6C2**	

Power output (kW)		0.85		1.5	
Dimensions: W x H x D (mm)		65 x 150 x 185.2		65 x 150 x 185.2	
Nominal speed of rotation (min-1)		1500		2000	
Nominal torque (N.m)		5.39		7.16	
With holding brake		No	Yes	No	Yes
Inertia -without holding brake (kg.cm²)		14.08	14.78	14.8	15.5
Motor inertia type		High		High	
Reference	Servo drive reference 1	**LXM16DU15M2X** **LXM16MU15M2X**		**LXM16DU15M2X** **LXM16MU15M2X**	
	Servo motor reference 2	**BCH16HM08130A6C2** **BCH16HM08132A6C2**	**BCH16HM08130F6C2** **BCH16HM08132F6C2**	**BCH16HM15230A6C2** **BCH16HM15232A6C2**	**BCH16HM15230F6C2** **BCH16HM15232F6C2**

Easy Lexium 16D Motion control - Connection accessories

Connectors

Designation	SCSI-26 connector for creating control cordsets (CN1) 1	Connector for connection of power supply, external braking resistor and motor power ouput (CNP) 2	10-pin connector for creating encoder cordsets (CN2) For cable crosssection: 2*0.5 mm² + 3 x 2 x 0.2 mm² 3
Description	1 x SCSI-26 connector 1 x shielded chassis 1 x connector housing 2 x screw for fix to connection port 2 x screw for connector housing	1 x connector	1 x IEEE1394 10-pin connector 1 x shielded chassis 1 x connector housing 2 x spring clamp for fix to connection port
For use with	LXM16DU01M2X, LXM16DU02M2X, LXM16DU04M2X, LXM16DU07M2X, LXM16DU10M2X, LXM16DU15M2X LXM16MU01M2X, LXM16MU02M2X, LXM16MU04M2X, LXM16MU07M2X, LXM16MU10M2X, LXM16MU15M2X		
Reference	**VW3M4A11**	**VW3M4A21**	**VW3M4A31**

Control cordsets and Power cordset kit

Designation	Pre-assembled control cordsets dedicated to 24VDC pulse train with interface module (CN1)	Pre-assembled control cordsets dedicated to 3.3 VDC pulse train with interface module (CN1)	Power cordset shield connection plate
Description	1 x pre-assembled control cordsets (Length: 1 m/3.28 ft.) 1 x interface module	1 x pre-assembled control cordsets (Length: 1 m/3.28 ft.) 1 x interface module	1 x grounding chassis 1 x spring clamp connector
For use with	LXM16DU01M2X, LXM16DU02M2X, LXM16DU04M2X, LXM16DU07M2X, LXM16DU10M2X, LXM16DU15M2X LXM16MU01M2X, LXM16MU02M2X, LXM16MU04M2X, LXM16MU07M2X, LXM16MU10M2X, LXM16MU15M2X		
Reference	**VW3M4A12**	**VW3M4A15**	**VW3M2A31**

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Programming cables

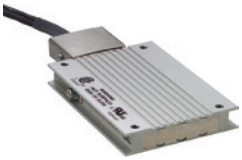
Designation	Programming cables	
Description	Transfering a configuration from a PC to the Lexium 16D servo drive via the CN3 interface (USB mini-B) on Lexium 16D servo drives	
Length (m)	3	1.8
Reference	**TCSXCNAMUM3P** *(1)*	**BMXXCAUSBH018**

(1) Unshielded, non-grounded cable. Only for use on temporary connections. For permanent connections, use cable reference BMXXCAUSBH018.

Modbus TCP network cordsets

Designation	Straight shielded twisted pair cordsets (conforming to EIA/TIA-568, category 5 and IEC1180/EN50173, class D standards)			Crossed shielded twisted pair cordsets		Straight shielded twisted pair cordsets (conforming to UL and CSA 22.1 standards)			Crossed shielded twisted pair cordsets
Description	2 RJ45 connectors								
Length (m)	2	5	12	5	15	2	5	15	5
Reference	**490NT-W00002**	**490NT-W00005**	**490NT-W00012**	**490NT-C00005**	**490NT-C00015**	**490NT-W00002U**	**490NT-W00005U**	**490NT-W00012U**	**490NT-C00005U**

Easy Lexium 16D Motion control - External braking resistor



External braking resistors					
For use with Servo drives			LXM16DU07M2X, LXM16DU10M2X, LXM16DU15M2X LXM16MU07M2X, LXM16MU10M2X, LXM16MU15M2X		
Ohmic value (W)			27		
Continuous power (PPr)			100	200	400
Peak energy (EPk)	115 V (Ws)		4,200	9,700	25,500
	230 V (Ws)		3,800	7,400	18,100
	400 V (Ws)		1,900	4,900	11,400
	480 V (Ws)		1,900	4,300	10,500
Reference	Connection cable (m)	0.75	**VW3A7602R07**	**VW3A7603R07**	**VW3A7604R07**
		2	**VW3A7602R20**	**VW3A7603R20**	**VW3A7604R20**
		3	**–**	**VW3A7603R30**	**VW3A7604R30**

For use with Servo drives			LXM16DU01M2X, LXM16DU02M2X, LXM16DU04M2X, LXM16DU07M2X, LXM16DU10M2X, LXM16DU15M2X LXM16MU01M2X, LXM16MU02M2X, LXM16MU04M2X, LXM16MU07M2X, LXM16MU10M2X, LXM16MU15M2X			
Ohmic value (W)			72			100
Continuous power (PPr)			100	200	400	100
Peak energy (EPk)	115 V (Ws)		5,500	14,600	36,600	4,400
	230 V (Ws)		3,700	9,600	24,700	4,400
	400 V (Ws)		2,500	6,600	16,200	2,900
	480 V (Ws)		2,300	6,000	15,500	2,900
Reference	Connection cable (m)	0.75	**VW3A7605R07**	**VW3A7606R07**	**VW3A7607R07**	**VW3A7608R07**
		2	**–**	**VW3A7606R20**	**VW3A7607R20**	**–**
		3	**VW3A7605R30**	**VW3A7606R30**	**VW3A7607R30**	**VW3A7608R30**

***Note**: The total continuous power dissipated in the external braking resistor(s) must be less than or equal to the nominal power of the Lexium 16 servo drive.*

Easy Lexium 16D Motion control - Additional EMC input filters

Additional EMC filters		
For servo drive	LXM16DU01M2X, LXM16DU02M2X, LXM16DU04M2X, LXM16MU01M2X, LXM16MU02M2X, LXM16MU04M2X	LXM16DU07M2X, LXM16DU10M2X, LXM16DU15M2X, LXM16MU07M2X, LXM16MU10M2X, LXM16MU15M2X
Maximum servo motor shielded cable length *(1)*	25	25
Reference	**VW3A4420**	**VW3A4421**

(1) Conforming to EN 55011 class A Gr2, IEC/EN 61800-3 category C3 in environment 2. Switching frequency 8 kHz.

Easy Lexium 16D Motion control - Motor starters, Protection using class J fuses

Motor starters - Combinations

Servo drive	Nominal power (kW)	0.1	0.2	0.4
	Main number of phase	1	1	1
	Reference 1	**LXM16DU01M2X**	**LXM16DU02M2X**	**LXM16DU04M2X**
		LXM16MU01M2X	**LXM16MU02M2X**	**LXM16MU04M2X**
Circuit-breaker	Rating (A)	10	10	10
	Reference 2	**GV2P14**		
Contactor	Reference *(1) (2)* 3	**LC1K0610●●**		**LC1K09●●**

Servo drive	Nominal power (kW)	0.75	1	1.5
	Main number of phase	1	1	1
	Reference 1	**LXM16DU07M2X**	**LXM16DU10M2X**	**LXM16DU15M2X**
		LXM16MU07M2X	**LXM16MU10M2X**	**LXM16MU15M2X**
Circuit-breaker	Rating (A)	10	10	14
	Reference 2	**GV2P14**	**GV2P14**	**GV2P16**
Contactor	Reference *(1) (2)* 3	**LC1K09●●**	**LC1K12●●**	**LC1D18●●**

(1) Composition of the contactors:
LC1K0610●●: 3 poles + 1 N/O auxiliary contact
LC1K09●●, LC1K12●●: 4 poles
LC1D18●●: 3 poles + 1 N/O auxiliary contact + 1 N/C auxiliary contact
Please refer to Contractors and Protection Relays page on our web site.

(2) Replace ●● with the control circuit voltage code given in the table below:

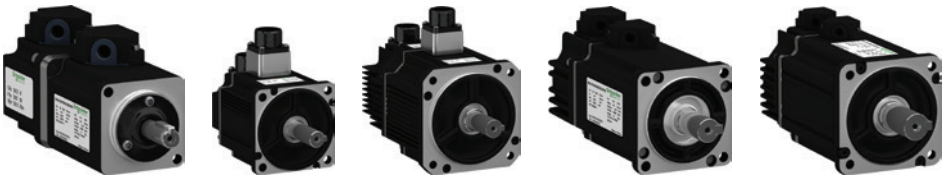
LC1K	*Volts ∿*	*220 Volts ∿*	*230 Volts ∿*	*240 Volts ∿*
	50/60 Hz	*M7*	*P7*	*U7*
LC1D	*Volts ∿*	*220/230 Volts ∿*	*230 Volts ∿*	*230/240 Volts ∿*
	50 Hz	*M5*	*P5*	*U5*
	60 Hz	*M6*	*–*	*U6*
	50/60 Hz	*M7*	*P7*	*U7*
For other available voltages between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Center				

Protection using class J fuses (UL certification)

Mains supply voltage: 200…230 V a 50/60Hz

Fuse to be placed upstream (A)		5	5	20	20	25	40
Servo drive	Nominal power (kW)	0.1	0.2	0.4	0.75	1	1.5
	Reference	**LXM16DU01M2X**	**LXM16DU02M2X**	**LXM16DU04M2X**	**LXM16DU07M2X**	**LXM16DU10M2X**	**LXM16DU15M2X**
		LXM16MU01M2X	**LXM16MU02M2X**	**LXM16MU04M2X**	**LXM16MU07M2X**	**LXM16MU10M2X**	**LXM16MU15M2X**

Easy Lexium 16D Motion control - BCH16 servo motors



BCH16 servo motors

Brushless servo motor		**B**	**C**	**H**	**16**	**●**	**●**	**●●**	**●**	**●**	**●**	**●**	**●**	**C**	**2**
Inertia	Low inertia					**L**									
	High inertia					**H**									
Flange size (mm)	40						**B**								
	60						**D**								
	80						**F**								
	100						**H**								
	130						**M**								
Rated output (W)	100							**01**							
	200							**02**							
	400							**04**							
	750							**07**							
	850							**08**							
	1 kW							**10**							
	1.5 kW							**15**							
Power supply ∿ 220 V Winding type (rpm)	1000/1500								**1**						
	2000								**2**						
	3000								**3**						
Shaft end	Keyed shaft (shaft & housing IP 65)									**3**					
Encoder	2500 ppr incremental encoder										**0**				
	23 bit high resolution										**2**				
Holding brake	Without brake											**A**			
	With brake (option)											**F**			
Connections	Free leads with connectors (BCH16●B, BCH16●D, BCH16●F motors only)												**5**		
	MIL connectors (BCH16●H, BCH16●M, BCH16●R motors only)												**6**		
Mechanical motor design	Motor compatible with Asian style mounting standards													**C**	
Hardware Version	RS02														**2**

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Easy Lexium 16D Motion control - Connection components

Power cordsets - Shielded and Unshielded

Designation 1		Equipped with one plastic connector (servo motor side), and a free lead (servo drive side)						
For use	**From servo drive**	LXM16DU01M2X, LXM16DU02M2X, LXM16DU04M2X, LXM16DU07M2X LXM16MU01M2X, LXM16MU02M2X, LXM16MU04M2X, LXM16MU07M2X						
	To servo motor	BCH16LB01330●5C2, BCH16HD02330●5C2, BCH16HD04330●5C2, BCH16HF07330●5C2, BCH16LF10330●5C2 BCH16LB01332●5C2, BCH16HD02332●5C2, BCH16HD04332●5C2, BCH16HF07332●5C2, BCH16LF10332●5C2						
For cable cross-section(mm²)		4G0.75						
Length (m)		1.5	3	5	10	15	20	25
Reference	**Unshielded power crodsets**	**VW3M5A11RA5**	**VW3M5A11R03**	**VW3M5A11R05**	**VW3M5A11R10**	**VW3M5A11R15**	**VW3M5A11R20**	**VW3M5A11R25**
	Shielded power crodsets	**–**	**VW3M5A11R03S**	**VW3M5A11R05S**	**VW3M5A11R10S**	**VW3M5A11R15S**	**VW3M5A11R20S**	**–**

Designation 2		Equipped with one MIL connector (servo motor side), and a free lead (servo drive side)						
For use	**From servo drive**	LXM16DU10M2X, LXM16DU15M2X LXM16MU10M2X, LXM16MU15M2X						
	To servo motor	BCH16HM08130A6C2, BCH16LH10330A6C2, BCH16HM10230A6C2, BCH16HM15230A6C2 BCH16HM08132A6C2, BCH16LH10332A6C2, BCH16HM10232A6C2, BCH16HM15232A6C2						
For cable cross-section(mm²)		4G2						
Length (m)		1.5	3	5	10	15	20	25
Reference	**Unshielded power crodsets**	**VW3M5A21RA5**	**VW3M5A21R03**	**VW3M5A21R05**	**VW3M5A21R10**	**VW3M5A21R15**	**VW3M5A21R20**	**VW3M5A21R25**
	Shielded power crodsets	**VW3M5A21RA5S**	**–**	**–**	**VW3M5A21R10S**	**VW3M5A21R15S**	**VW3M5A21R20S**	**VW3M5A21R25S**

Designation 3		Equipped with one MIL connector (servo motor side), and a free lead (servo drive side) Integrating brake control						
For use	**From servo drive**	LXM16DU10M2X, LXM16DU15M2X LXM16MU10M2X, LXM16MU15M2X						
	To servo motor	BCH16HM08130F6C2, BCH16LH10330F6C2, BCH16HM10230F6C2, BCH16HM15230F6C2 BCH16HM08132F6C2, BCH16LH10332F6C2, BCH16HM10232F6C2, BCH16HM15232F6C2						
For cable cross-section(mm²)		6G2						
Length (m)		1.5	3	5	10	15	20	25
Reference	**Unshielded power crodsets**	**VW3M5A22RA5**	**VW3M5A22R03**	**VW3M5A22R05**	**VW3M5A22R10**	**VW3M5A22R15**	**VW3M5A22R20**	**VW3M5A22R25**
	Shielded power crodsets	**VW3M5A22RA5S**	**VW3M5A22R03S**	**VW3M5A22R05S**	**VW3M5A22R10S**	**VW3M5A22R15S**	**VW3M5A22R20S**	**VW3M5A22R25S**

Motor power connectors

Designation	Plastic connector 1	MIL connector 2
Use for	for creating power cordsets	
For use with	BCH16LB01330●5C2, BCH16HD02330●5C2, BCH16HD04330●5C2, BCH16HF07330●5C2, BCH16LF10330●5C2 BCH16LB01332●5C2, BCH16HD02332●5C2, BCH16HD04332●5C2, BCH16HF07332●5C2, BCH16LF10330●5C2	BCH16HM08130A6C2, BCH16LH10330A6C2, BCH16H-M10230A6C2, BCH16HM15230A6C2 BCH16HM08132A6C2, BCH16LH10332A6C2, BCH16H-M10232A6C2, BCH16HM15232A6C2
For cable cross-section(mm²)	4G0.75	4G2.0
Reference	**VW3M5A11**	**VW3M5A21**

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Easy Lexium 16D Motion control - Connection components

Unshielded brake control cordsets

Designation		Equipped with one plastic connector (servo motor side), and a free lead (servo drive side) 1						
For use	From servo drive	LXM16DU01M2X, LXM16DU02M2X, LXM16DU04M2X, LXM16DU07M2X LXM16MU01M2X, LXM16MU02M2X, LXM16MU04M2X, LXM16MU07M2X						
	To servo motor	BCH16LB01330F5C2, BCH16HD02330F5C2, BCH16HD04330F5C2, BCH16HF07330F5C2, BCH16LF10330F5C2 BCH16LB01332F5C2, BCH16HD02332F5C2, BCH16HD04332F5C2, BCH16HF07332F5C2, BCH16LF10332F5C2						
For cable cross-section(mm²)		2 x 0.5						
Length (m)		1.5	3	5	10	15	20	25
Reference		**VW3M5A12RA5**	**VW3M5A12R03**	**VW3M5A12R05**	**VW3M5A12R10**	**VW3M5A12R15**	**VW3M5A12R20**	**VW3M5A12R25**

Brake connectors

Designation	Plastic connector 1	Mil connector 3
Use for	for creating brake control cordsets	for creating power & brake control cordsets
For use with	BCH16LB01330F5C2, BCH16HD02330F5C2, BCH16HD04330F5C2, BCH16HF07330F5C2, BCH16LF10330F5C2 BCH16LB01332F5C2, BCH16HD02332F5C2, BCH16HD04332F5C2, BCH16HF07332F5C2, BCH16LF10332F5C2	BCH16HM08130F6C2, BCH16LH10330F6C2, BCH16HM10230F6C2, BCH16HM15230F6C2 BCH16HM08132F6C2, BCH16LH10332F6C2, BCH16HM10232F6C2, BCH16HM15232F6C2
For cable cross-section(mm²)	2 x 0.5	6G2.0
Reference	**VW3M5A12**	**VW3M5A22**

Shielded encoder cordsets

Designation		Equipped with one plastic connector (servo motor side), and VW3M4A31 connector (servo drive side) 2						
For use	From servo drive	LXM16DU01M2X, LXM16DU02M2X, LXM16DU04M2X, LXM16DU07M2X LXM16MU01M2X, LXM16MU02M2X, LXM16MU04M2X, LXM16MU07M2X						
	To servo motor	BCH16LB01330●5C2, BCH16HD02330●5C2, BCH16HD04330●5C2, BCH16HF07330●5C2, BCH16LF10330●5C2						
For cable cross-section(mm²)		2 x 0.5 + 3 x 2 x 0.2						
Length (m)		1.5	3	5	10	15	20	25
Reference		**VW3M8A11RA5**	**VW3M8A11R03**	**VW3M8A11R05**	**VW3M8A11R10**	**VW3M8A11R15**	**VW3M8A11R20**	**VW3M8A11R25**

Designation		Equipped with one plastic connector (servo motor side), and VW3M4A31 connector (servo drive side) 2						
For use	From servo drive	LXM16DU01M2X, LXM16DU02M2X, LXM16DU04M2X, LXM16DU07M2X LXM16MU01M2X, LXM16MU02M2X, LXM16MU04M2X, LXM16MU07M2X						
	To servo motor	BCH16LB01332●5C2, BCH16HD02332●5C2, BCH16HD04332●5C2, BCH16HF07332●5C2, BCH16LF10332●5C2						
For cable cross-section(mm²)		2 x 0.5 + 1 x 2 x 0.2						
Length (m)		1.5	3	5	10	15	20	25
Reference		**VW3M8A12RA5**	**VW3M8A12R03**	**VW3M8A12R05**	**VW3M8A12R10**	**VW3M8A12R15**	**–**	**VW3M8A12R25**

Designation		Equipped with one MIL connector (servo motor side), and VW3M4A31 connector (servo drive side) 3						
For use	From servo drive	LXM16DU10M2X, LXM16DU15M2X LXM16MU10M2X, LXM16MU15M2X						
	To servo motor	BCH16HM08130●6C2, BCH16LH10330●6C2, BCH16HM10230●6C2, BCH16HM15230●6C2						
For cable cross-section(mm²)		2 x 0.5 + 3 x 2 x 0.2						
Length (m)		1.5	3	5	10	15	20	25
Reference		**VW3M8A21RA5**	**VW3M8A21R03**	**VW3M8A21R05**	**VW3M8A21R10**	**VW3M8A21R15**	**VW3M8A21R20**	**VW3M8A21R25**

Designation		Equipped with one MIL connector (servo motor side), and VW3M4A31 connector (servo drive side) 3						
For use	From servo drive	LXM16DU10M2X, LXM16DU15M2X LXM16MU10M2X, LXM16MU15M2X						
	To servo motor	BCH16HM08132●6C2, BCH16LH10332●6C2, BCH16HM10232●6C2, BCH16HM15232●6C2						
For cable cross-section(mm²)		2 x 0.5 + 1 x 2 x 0.2						
Length (m)		1.5	3	5	10	15	20	25
Reference		**VW3M8A22RA5**	**VW3M8A22R03**	**VW3M8A22R05**	**VW3M8A22R10**	**VW3M8A22R15**	**–**	**VW3M8A22R25**

Motor encoder connectors		
Designation	Plastic connector 4	Mil connector 3
Use for	for creating encoder cordsets	
For use with	BCH16LB01330●5C2, BCH16HD02330●5C2, BCH16HD04330●5C2, BCH16HF07330●5C2, BCH16LF10330●5C2 BCH16LB01332●5C2, BCH16HD02332●5C2, BCH16HD04332●5C2, BCH16HF07332●5C2, BCH16LF10332●5C2	BCH16HM08130●6C2, BCH16LH10330●6C2, BCH16HM10230●6C2, BCH16HM15230●6C2 BCH16HM08132●6C2, BCH16LH10332●6C2, BCH16HM10232●6C2, BCH16HM15232●6C2
For cable cross-section(mm²)	2 x 0.5 + 3 x 2 x 0.2 2 x 0.5 + 1 x 2 x 0.2	
Reference	**VW3M8A11**	**VW3M8A21**

Easy Lexium 26 servo drive and BCH2 servo motor combinations

Easy Lexium 26 servo drive and BCH2 servo motor: single-phase and 3-phase supply voltage: 200/240 VAC						
Power output (kW)			0.05	0.1	0.2	0.3
Nominal speed of rotation (min-1)			3000	3,000	3,000	1,000
Nominal torque (N.m)			0.16	0.32	0.64	2.86
Max peak torque (N.m)			0.48	0.96	1.92	8.59
Inertia -without holding brake (kg.cm²)			0.054	0.075	0.16	6.63
Motor inertia type			Medium	Medium	Low	Medium
Dimensions: W x H x D (mm)			55 x 150 x 146			
Reference	Servo drive reference		**LXM26DUA5M3X**	**LXM26DU01M3X**	**LXM26DU02M3X**	**LXM26DU04M3X**
	Servo motor reference	With holding brake	**BCH2MBA533●F5C**	**BCH2MB0133●F5C**	**BCH2LD0233●F5C**	**BCH2MM0313●F6C**
		Without holding brake	**BCH2MBA533●A5C**	**BCH2MB0133●A5C**	**BCH2LD0233●A5C**	**BCH2MM0313●A6C**
Power output (kW)			0.4	0.4	0.5	0.6
Nominal speed of rotation (min-1)			3,000	3,000	2,000	1,000
Nominal torque (N.m)			1.27	1.27	2.39	5.73
Max peak torque (N.m)			3.81	3.81	7.16	17.19
Inertia -without holding brake (kg.cm²)			0.27	0.67	6.63	6.63
Motor inertia type			Low	Low	Medium	Medium
Dimensions: W x H x D (mm)			55 x 150 x 146			
Reference	Servo drive reference		**LXM26DU04M3X**	**LXM26DU04M3X**	**LXM26DU07M3X**	**LXM26DU07M3X**
	Servo motor reference	With holding brake	**BCH2LD0433●F5C**	**BCH2LF0433●F5C**	**BCH2MM0523●F6C**	**BCH2MM0613●F6C**
		Without holding brake	**BCH2LD0433●A5C**	**BCH2LF0433●A5C**	**BCH2MM0523●A6C**	**BCH2MM0613●A6C**
Power output (kW)			0.75	0.75	0.85	0.9
Nominal speed of rotation (min-1)			3,000	3,000	1,500	1,000
Nominal torque (N.m)			2.39	2.39	5.39	8.59
Max peak torque (N.m)			7.16	7.16	13.8	25.77
Inertia -without holding brake (kg.cm²)			1.19	1.54	13.5	9.7
Motor inertia type			Low	High	Medium	Medium
Dimensions: W x H x D (mm)			55 x 150 x 146		55 x 150 x 177	
Reference	Servo drive reference		**LXM26DU07M3X**	**LXM26DU07M3X**	**LXM26DU10M3X**	**LXM26DU10M3X**
	Servo motor reference	With holding brake	**BCH2LF0733●F5C**	**BCH2HF0733●F5C**	**BCH2MM0813●F6C**	**BCH2MM0913●F6C**
		Without holding brake	**BCH2LF0733●A5C**	**BCH2HF0733●A5C**	**BCH2MM0813●A6C**	**BCH2MM0913●A6C**
Power output (kW)			1	1	1.5	
Nominal speed of rotation (min-1)			3,000	2,000	2,000	
Nominal torque (N.m)			3.18	4.77	7.16	
Max peak torque (N.m)			9.54	14.3	21.48	
Inertia -without holding brake (kg.cm²)			2.4	8.41	9.7	
Motor inertia type			Low	High	Medium	
Dimensions: W x H x D (mm)			55 x 150 x 177			
Reference	Servo drive reference		**LXM26DU10M3X**	**LXM26DU10M3X**	**LXM26DU15M3X**	
	Servo motor reference	With holding brake	**BCH2LH1033●F6C**	**BCH2HM1023●F6C**	**BCH2MM1523●F6C**	
		Without holding brake	**BCH2LH1033●A6C**	**BCH2HM1023●A6C**	**BCH2MM1523●A6C**	

Easy Lexium 26 servo drive and BCH2 servo motor combinations

Easy Lexium 26 servo drive and BCH2 servo motor: 3-phase supply voltage: 200/240 VAC						
Power output (kW)			2.0	2.0	2.0	3.0
Nominal speed of rotation (min-1)			3,000	2,000	2,000	1,500
Nominal torque (N.m)			6.37	9.55	9.55	14.32
Max peak torque (N.m)			19.11	28.65	28.65	42.97
Inertia -without holding brake (kg.cm²)			4.26	13.5	34.68	53.56
Motor inertia type			Low	Medium	High	Medium
Dimensions: W x H x D (mm)			62 x 170 x 191.6			117.4 x 234 x 193
Reference	Servo drive reference		**LXM26DU20M3X**	**LXM26DU20M3X**	**LXM26DU20M3X**	**LXM26DU30M3X**
	Servo motor reference	With holding brake	**BCH2LH2033●F6C**	**BCH2MM2023●F6C**	**BCH2HR2023●F6C**	**BCH2MR3023●F6C**
		Without holding brake	**BCH2LH2033●A6C**	**BCH2MM2023●A6C**	**BCH2HR2023●A6C**	**BCH2MR3023●A6C**

Power output (kW)			3.0	3.5	4.5
Nominal speed of rotation (min-1)			2,000	2,000	1,500
Nominal torque (N.m)			19.1	16.7	26.65
Max peak torque (N.m)			57.29	50.3	71.62
Inertia -without holding brake (kg.cm²)			53.56	53.56	73.32
Motor inertia type			Medium	Medium	Medium
Dimensions: W x H x D (mm)			117.4 x 234 x 193		
Reference	Servo drive reference		**LXM26DU30M3X**	**LXM26DU45M3X**	**LXM26DU45M3X**
	Servo motor reference	With holding brake	**BCH2MR3013●F6C**	**BCH2MR3523●F6C**	**BCH2MR4513●F6C**
		Without holding brake	**BCH2MR3013●A6C**	**BCH2MR3523●A6C**	**BCH2MR4513●A6C**

Easy Lexium 26 servo drive - Configuration tools

SoMove setup software	
Description	**USB/RJ45 cordset** 1 Used to connect a PC to the device (Lexium Easy 26): this cable is 2.5 m/8.20 ft long and has a USB connector (PC end) and an RJ45 connector (device end)
Reference	**TCSMCNAM3M002P**

Multi-Loader configuration tool		
Description	Multi-Loader configuration tool 2 Supplied with: ■ 1 cordset equipped with 2 RJ45 connectors ■ 1 cordset equipped with one type A USB connector and one mini B USB connector ■ 1 x 2 GB SD memory card ■ 1 x female/female RJ 45 adapter ■ 4 AA 1.5 V LR6 round batteries	Cordset for Multi-Loader tool 3 For connecting the Multi-Loader tool to the Lexium Easy 26 servo 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
Reference	**VW3A8121**	**VW3A8126**

Easy Lexium 26 servo drive - Accessories

Connection accessories		
Designation	I/O connector (sold in lots of 3)	I/O terminal block module
For use with	Lexium Easy 26	Lexium Easy 26
Description	1 Sub-D 50-pin connector for CN1 I/O interface	2 Terminal block + Cordset (consisting of 2 Sub-D 50-pin connectors type VW3M1C12 and 0.5 m cable) for CN1 I/O interface connection
Reference	**VW3M1C12**	**VW3M1C13**

Description	3 **I/O connection cordsets** Equipped with one SUB-D 50-pin connector for connection to the CN1 interface (drive end), and open end (controller end)		
Use	This cable is dedicated to Schneider Electric PLCs, type Modicon M218/M221/M241/M200, for controlling Lexium Easy 26 servo drives with pulse-train-output (PTO) and pulse-train-input (PTI) signals		
Length (m)	1	2	3
Reference	**VW3M1C10R10**	**VW3M1C10R20**	**VW3M1C10R30**

Easy Lexium 26 servo drive - Braking resistors

External braking resistor						
Ohmic value (W)			10	27		
Continuous power			400	100	200	400
Peak energy 230V (Ws)			13,300	3,800	7,400	18,100
Reference	Length of connection cable (m)	0.75	**VW3A7601R07**	**VW3A7602R07**	**VW3A7603R07**	**VW3A7604R07**
		2	**VW3A7601R20**	**VW3A7602R20**	**–**	**VW3A7604R20**
		3	**VW3A7601R30**	**–**	**VW3A7603R30**	**VW3A7604R30**

Ohmic value (W)			72		10	16
Continuous power			200	400	956	956
Peak energy 230V (Ws)			9,600	24,700	–	–
Reference	Length of connection cable (m)	0.75	**VW3A7606R07**	**VW3A7607R07**	**VW3A7734**	**VW3A7733**
		2	**VW3A7606R20**	**VW3A7607R20**	–	–
		3	**VW3A7606R30**	**VW3A7607R30**	–	–

Note: *The total continuous power dissipated in the external braking resistor(s) must be less than or equal to the nominal power of the Easy Lexium 26 servo drive.*

Easy Lexium 26 servo drive - Additional EMC input filters

Additional EMC input filters			
Single-phase supply voltage			
For servo drives (max. nominal power) Combination	**50 W to 750 W servo drives** 1 x EMC filter and a single Lexium Easy 26 servo drive	**1 kW and 1.5 kW servo drives** 1 x EMC filter and a single Lexium Easy 26 servo drive	**7.5 kW max servo drives** 1 x common EMC filter and several Lexium Easy 26 servo drives
Line current (A)	9	16	24
Reference	**VW3A4420**	**VW3A4421**	**VW3A4426**
Three-phase supply voltage			
For servo drives (max. nominal power) Combination	**50 W to 1.5 kW, 2kW and 3kW servo drives** 1 x EMC filter and a single Lexium Easy 26 servo drive	**4.5 kW servo drives** 1 x EMC filter and a single Lexium Easy 26 servo drive	**Up to 10 kW servo drives** 1 x common EMC filter and several Lexium Easy 26 servo drives
Line current (A)	15	25	47
Reference	**VW3A4422**	**VW3A4423**	**VW3A4424**

Easy Lexium 26 servo drive - Protection using fuses

Combinations - circuit-breakers for single drive installation according to IEC 60364-5-52						
Servo drive	Nominal power (kW)	0.05	0.1	0.2	0.4	0.75
	Main number of phase	1 or 3				
	Reference 1	**LXM26DUA5M3X**	**LXM26DU01M3X**	**LXM26DU02M3X**	**LXM26DU04M3X**	**LXM26DU07M3X**
Circuit-breaker	Rating (A)	10				
	Reference 2	**GV2P14**				
Contactor	Reference *(1) (2)* 3	**LC1K0610●●**			**LC1K09●●**	

Servo drive	Nominal power (kW)	1	1	2	3	4
	Main number of phase	1 or 3		3		
	Reference 1	**LXM26DU10M3X**	**LXM26DU15M3X**	**LXM26DU20M3X**	**LXM26DU30M3X**	**LXM26DU45M3X**
Circuit-breaker	Rating (A)	10	14	18	18	23
	Reference 2	**GV2P14**	**GV2P16**	**GV2P20**	**GV2P20**	**GV2P21**
Contactor	Reference *(1) (2)* 3	**LC1K12●●**	**LC1D18●●**	**LC1D32●●**	**LC1D32●●**	**LC1D65●●**

(1) Composition of the contactors:
LC1 K06: 3 poles + 1 N/O auxiliary contact
LC1 D●●: 3 poles + 1 N/O auxiliary contact + 1 N/C auxiliary contact
Please refer to the "TeSys" catalog.

(2) Replace ●● with the control circuit voltage code given in the table below:

LC1K	*Volts ∿*	*220 Volts ∿*	*230 Volts ∿*	*240 Volts ∿*
	50/60 Hz	*M7*	*P7*	*U7*
LC1D	*Volts ∿*	*220/230 Volts ∿*	*230 Volts ∿*	*230/240 Volts ∿*
	50 Hz	*M5*	*P5*	*U5*
	60 Hz	*M6*	*-*	*U6*
	50/60 Hz	*M7*	*P7*	*U7*
For other available voltages between 24 V and 660 V, or a DC control circuit, please contact our Customer Care Center				

Easy Lexium 26 servo drive - Protection using class J fuses

Protection using class J fuses (UL certification) - Mains supply voltage: 200…240 V a 50/60Hz					
Fuse to be placed upstream (A)	5	5	5	20	20
Nominal power (kW)	0.05	0.1	0.2	0.4	0.75
Reference	**LXM26DUA5M3X**	**LXM26DU01M3X**	**LXM26DU02M3X**	**LXM26DU04M3X**	**LXM26DU07M3X**
Fuse to be placed upstream (A)	25	40	60	80	160
Nominal power (kW)	1	1	2	3	4.5
Reference	**LXM26DU10M3X**	**LXM26DU15M3X**	**LXM26DU20M3X**	**LXM26DU30M3X**	**LXM26DU45M3X**

Easy Lexium 26 servo drive - Holding brake controller

Holding brake controller	
Description	24 V ⎓ power supply Max. power 0.05 kW IP 20, for mounting on 55 mm ⊔ rail
Reference	**VW3M3103**

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Easy Lexium 26 servo drive - BCH2 servo motors

BCH2 servo motors

Brushless servo motor		B	C	H	2	•	•	••	•	•	C	•	•	C
Inertia	Low inertia					L								
	Medium inertia					M								
	High inertia					H								
Flange size (mm)	40						B							
	60						D							
	80						F							
	100						H							
	130						M							
	180						R							
Rated output (W)	50W							A5						
	100W							01						
	200W							02						
	300W							03						
	400W							04						
	500W							05						
	600W							06						
	750W							07						
	850W							08						
	1 kW							10						
	1.5 kW							15						
	2 kW							20						
	3 kW							30						
	3.5 kW							35						
	4.5 kW							45						
Power supply ∼ 220 V Winding type (rpm)	1000/1500								1					
	2000								2					
	3000								3					
Shaft end	Keyed shaft (shaft & housing IP 65)									3				
Encoder	High resolution single-turn absolute encoder, 20-bit resolution										C			
	High resolution multi-turn absolute encoder, 20 bit resolution, 4096 turns										M			
Holding brake	Without brake											A		
	With brake (option)											F		
Connections	Free leads with connectors (BCH2●B/●D/●F motors only)												5	
	MIL connectors (BCH2●H/pM/●R motors only)												6	
Mechanical motor design	Motor compatible with Asian style mounting standards													C

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Easy Lexium 26 servo drive - Connection components

Shielded power cordsets for BCH2 motors without brake

Connector			1 Equipped with one quick connector (servo motor end), and open end (servo drive end)	2 Equipped with one MIL connector (servo motor end), and open end (servo drive end)		
AWG/mm²			AWG18 / 4 x 1	AWG16 / 4 x 1.5	AWG12 / 4 x 4	AWG10 / 4 x 6
Reference	Length (m)	1.5	**VW3M5D1AR15**	–	–	–
		3	**VW3M5D1AR30**	**VW3M5D2AR30**	**VW3M5D4AR30**	**VW3M5D6AR30**
		5	**VW3M5D1AR50**	**VW3M5D2AR50**	**VW3M5D4AR50**	**VW3M5D6AR50**

Shielded power cordsets for BCH2 motors with brake

Connector			1 Equipped with one quick connector (servo motor end), and open end (servo drive end)	2 Equipped with one MIL connector (servo motor end), and a free lead (servo drive end)		
AWG/mm²			AWG18 / (4 x 1) + (2 x 1)	AWG16 / (4 x 1.5) + (2 x 1)	AWG12 / (4 x 4) + (2 x 1.5)	(4 x 6) + (2 x 1.5) / AWG10
Reference	Length (m)	3	**VW3M5D1FR30**	**VW3M5D2FR30**	**VW3M5D4FR30**	**VW3M5D6FR30**
		5	**VW3M5D1FR50**	**VW3M5D2FR50**	**VW3M5D4FR50**	**VW3M5D6FR50**

Motor power connector kits

Description	3 Motor power connector kits (sold in lots of 3)		4 Power MIL connector kits	
For use with	BCH2●B/●D/●F motors (flange size: 40/60/80 mm) with flying lead connec-tion, without brake	BCH2●B/●D/●F motors (flange size: 40/60/80 mm) with flying lead connection, with brake	BCH2●H/●M motors (flange size: 100/130 mm) with or without brake	BCH2●R motors (flange size: 180 mm, from 2.0 kW to 5.5 kW) with or without brake
Reference	**VW3M5D1A**	**VW3M5D1F**	**VW3M5D2A**	**VW3M5D2B**

Shielded encoder cordsets

Description			1 Equipped with one plastic connector (servo motor end), and a firewire connector (servo drive end)	4 Equipped with one MIL connector (servo motor end), and a firewire connector (servo drive end)
For use with			BCH2●B/●D/●F motors, for connection to CN2 interface	BCH2●H/●M/●R motors, for connection to CN2 interface
Composition			10 x 0.13 mm² / 10 x 26 AWG	10 x 0.13 mm² / 10 x 26 AWG
Reference	Length (m)	1.5	**VW3M8D1AR15**	–
		3	**VW3M8D1AR30**	**VW3M8D2AR30**
		5	**VW3M8D1AR50**	**VW3M8D2AR50**

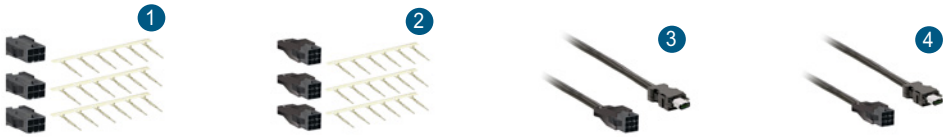
Encoder connector kits

Description	3 Encoder connector kits including one plastic connector (servo motor end), and a firewire connector (servo drive end) (sold in lots of 2)	4 Encoder connector kits including one MIL connector (servo motor end), and a firewire connector (servo drive end) (sold in lots of 2)
For use with	BCH2●B/●D/●F motors (flange: 40/60/80 mm) with flying lead connection	BCH2●H/●M/●R motors (flange: 100/130/180 mm) with MIL connector
Reference	**VW3M8D1A**	**VW3M8D2A**

Accessories for use with BCH2 motors with multi-turn absolute encoder

Description	5 Battery compartment	6 Battery 3.6 V
For use with	BCH2 motors with multi-turn absolute encoder	BCH2 motors with multi-turn absolute encoder and battery compartment “VW3M8BATC”
Reference	**VW3M8BATC**	**VW3M9BATT**

Easy Lexium 26 servo drive - Connection components



Selection of motor connector kit or encoder connector kit, according to BCH2 motor type

Motor	1 Motor power cable connector kit		2 Encoder connector kit	3 Motor power cable		4 Encoder cable
	Without brake	With brake		Without brake	With brake	
BCH2MBA53••5C	VW3M5D1A	VW3M5D1F	VW3M8D1A	VW3M5D1AR••	VW3M5D1FR••	VW3M8D1AR••
BCH2MB0133••5C						
BCH2LD0233••5C						
BCH2LD0433••5C						
BCH2LF0433••5C						
BCH2HF0733••5C						
BCH2LF0733••5C						
BCH2LH1033••6C	VW3M5D2A	VW3M5D2A	VW3M8D2A	VW3M5D2AR••	VW3M5D2FR••	VW3M8D2AR••
BCH2LH2033••6C						
BCH2MM0813••6C						
BCH2MM0313••6C						
BCH2MM0523••6C						
BCH2MM0613••6C						
BCH2HM1023••6C						
BCH2MM0913••6C						
BCH2MM1523••6C						
BCH2MM2023••6C						
BCH2HR2023••6C	VW3M5D2B	VW3M5D2B	VW3M8D2A	VW3M5D4AR••	VW3M5D4FR••	VW3M8D2AR••
BCH2MR3013••6C				VW3M5D6AR••	VW3M5D6FR••	
BCH2MR3023••6C						
BCH2MR3523••6C						
BCH2MR4513••6C						

07. Easy Modicon Logic Controllers

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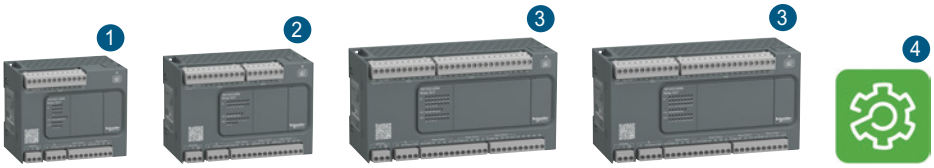
Easy Modicon M100 logic controllers



Easy Modicon M100 logic controllers *(1)*				
Number of digital I/O	16 1	24 2	32 3	40 3
Digital inputs	■ 9 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 3 regular inputs ■ 2 high speed inputs for HSC	■ 14 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 8 regular inputs ■ 2 high speed inputs for HSC	■ 20 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 14 regular inputs ■ 2 high speed inputs for HSC	■ 24 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 18 regular inputs ■ 2 high speed inputs for HSC
Digital outputs (relay outputs)	7	10	12	16
Serial link *(2)*	1			
Supply voltage	110...220 VAC			
Programming software *(3)*	EcoStruxure Machine Expert - Basic 4			
Reference	**TM100C16RN**	**TM100C24RN**	**TM100C32RN**	**TM100C40RN**

(1) M100 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 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.

Easy Modicon M200 logic controllers

1

2

3

4

Easy Modicon M200 logic controllers *(1)*

Supply voltage	110...220 VAC			
Number of digital I/O	16	24		32
Digital inputs	■ 9 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 1 regular input ■ 4 high speed inputs for HSC	■ 14 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 6 regular inputs ■ 4 high speed inputs for HSC		■ 20 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 12 regular inputs ■ 4 high speed inputs for HSC
Digital outputs (relay outputs)	7	10		12
Dimension (W x H x D)	110 x 70 x 90 1	130 x 70 x 90 2		175 x 70 x 90 3
Ethernet (RJ 45)	–		1	–
Serial link *(2)*	1			
Reference	**TM200C16R**	**TM200C24R**	**TM200CE24R**	**TM200C32R**

Supply voltage	110...220 VAC			
Number of digital I/O	32	40		60
Digital inputs	■ 20 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 12 regular inputs ■ 4 high speed inputs for HSC	■ 24 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 16 regular inputs ■ 4 high speed inputs for HSC		■ 36 sink/source ■ 24 VDC input voltage ■ 4 fast inputs for FC ■ 28 regular inputs ■ 4 high speed inputs for HSC
Digital outputs (relay outputs)	12	16		24
Dimension (W x H x D)	175 x 70 x 90 3			225 x 70 x 90 4
Ethernet (RJ 45)	1	–	1	–
Serial link *(2)*	1			
Reference	**TM200CE32R**	**TM200C40R**	**TM200CE40R**	**TM200C60R**

Supply voltage	24 VDC		
Number of digital I/O	16		
Digital inputs	■ 9 sink/source ■ 24 VDC input voltage	■ 4 fast inputs for FC ■ 1 regular input	■ 4 high speed inputs for HSC
Digital outputs	■ 7 sink outputs ■ 5 regular transistor outputs ■ 2 fast outputs (PWM/PLS/PTO)		■ 7 source outputs ■ 5 regular transistor outputs ■ 2 fast outputs (PWM/PLS/PTO)
Dimension (W x H x D)	110 x 70 x 90 1		
Ethernet (RJ 45)	–		
Serial link *(2)*	1		
Reference	**TM200C16U**		**TM200C16T**

Supply voltage	24 VDC			
Number of digital I/O	24			
Digital inputs	■ 14 sink/source ■ 24 VDC input voltage	■ 4 fast inputs for FC ■ 6 regular inputs	■ 4 high speed inputs for HSC	
Digital outputs	■ 10 sink outputs ■ 8 regular transistor outputs ■ 2 fast outputs (PWM/PLS/PTO)		■ 10 source outputs ■ 8 regular transistor outputs ■ 2 fast outputs (PWM/PLS/PTO)	
Dimension (W x H x D)	130 x 70 x 90 2			
Ethernet (RJ 45)	–	1	–	1
Serial link *(2)*	1			
Reference	**TM200C24U**	**TM200CE24U**	**TM200C24T**	**TM200CE24T**

Supply voltage	24 VDC		
Number of digital I/O	32		
Digital inputs	■ 20 sink/source ■ 24 VDC input voltage	■ 4 fast inputs for FC ■ 12 regular inputs	■ 4 high speed inputs for HSC
Digital outputs	■ 12 sink outputs ■ 10 regular transistor outputs ■ 2 fast outputs (PWM/PLS/PTO)		■ 12 source outputs ■ 10 regular transistor outputs ■ 2 fast outputs (PWM/PLS/PTO)
Dimension (W x H x D)	175 x 70 x 90 3		
Ethernet (RJ 45)	–		–
Serial link *(2)*	1		
Reference	**TM200C32U**		**TM200C32T**

Easy Modicon M200 logic controllers

Easy Modicon M200 logic controllers *(1)*				
Supply voltage	24 VDC			
Number of digital I/O	40			
Digital inputs	■ 24 sink/source ■ 24 VDC input voltage	■ 4 fast inputs for FC ■ 16 regular inputs	■ 4 high speed inputs for HSC	
Digital outputs	■ 16 sink outputs ■ 14 regular transistor outputs ■ 2 fast outputs (PWM/PLS/PTO)		■ 16 source outputs ■ 14 regular transistor outputs ■ 2 fast outputs (PWM/PLS/PTO)	
Dimension (W x H x D)	175 x 70 x 90			
Ethernet (RJ 45)	–	1	–	1
Serial link *(2)*	1			
Reference	**TM200C40U**	**TM200CE40U**	**TM200C40T**	**TM200CE40T**

(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.

Cartridges for Easy Modicon M200 logic controllers *(1)*

Description	Digital I/O cartridges	Communication cartridges	
Details	■ 2 digital inputs ■ 2 transistor sink outputs ■ Connection via screw terminal block	1 additional RS232C or RS485 serial link on screw terminal block	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
Reference	**TMCR2DM4U**	**TMCR2SL1**	**TMCR2SL1S**

Description	Analog I/O cartridges		
Details	■ 2 analog inputs (12-bit resolution) configurable as: - 0…10 V voltage - 0…20 mA/4…20 mA current ■ Connection via screw terminal block	■ 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	■ 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
Reference	**TMCR2AI2**	**TMCR2AM3**	**TMCR2TI2**

Description	Analog I/O cartridges	
Details	■ 2 analog outputs (12-bit resolution) 0…10 V voltage ■ Connection via screw terminal block	■ 2 analog outputs (12-bit resolution) 4…20 mA current ■ Connection via screw terminal block
Reference	**TMCR2AQ2V**	**TMCR2AQ2C**

Separate parts for Easy Modicon M200 logic controllers

Description	Catridges cover 1	RTC battery 2
Reference	**TMARCOVER**	**TMARBAT1**

Replacements parts for Easy Modicon M200 logic controllers 3

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

Expansion modules

Description	Modicon TM3 expansion modules	Modicon TM2 expansion modules
Details	Easy Modicon M200 logic controllers	
Reference	*(2)*	

(1) 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.
(2) See our list of compatible expansion modules on next page.

Easy Modicon M200 logic controllers - Product compatibility

Product compatibility						
Expansion options			Number and type of I/O	M200 logic controllers		
				TM200C16R	TM200C16U	TM200C16T
Modicon TM3	Digital modules	TM3DI8	8 x 24 V ⎓ sink/source inputs			
		TM3DI16	16 x 24 V ⎓ sink/source inputs			
		TM3DI32K	32 x 24 V ⎓ sink/source inputs			
		TM3DQ8R	8 x 24 V ⎓ /240 V a relay outputs			
		TM3DQ8T	8 x 24 V ⎓ source transistor outputs			
		TM3DQ8U	8 x 24 V ⎓ sink transistor outputs			
		TM3DQ16R	16 x 24 V ⎓ /240 V ∿ relay outputs			
		TM3DQ16T	16 x 24 V ⎓ source transistor outputs			
		TM3DQ16U	16 x 24 V ⎓ sink transistor outputs			
		TM3DQ32TK	32 x 24 V ⎓ source transistor outputs			
		TM3DQ32UK	32 x 24 V ⎓ sink transistor outputs			
		TM3DM8R	4 x 24 V ⎓ sink/source inputs + 4 x 24 V ⎓ /240 V ∿ relay outputs			
		TM3DM24R	16 x 24 V ⎓ sink/source inputs + 8 x 24 V ⎓ /240 V ∿ relay outputs			
		TM3RDM16R	8 x 24 V ⎓ sink/source inputs + 8 x 24 V ⎓ /240 V ∿ relay outputs			
		TM3RDM32R	16 x 24 V ⎓ sink/source inputs + 16 x 24 V ⎓ /240 V ∿ 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

Easy Modicon M200 logic controllers - Configuration

Configuration *(1)(2)*								
Configuration limits	Logic controllers							
Maximum number of transistor outputs	130	137	137	130	140	140	132	144
Maximum number of relay outputs	71	64	64	74	64	64	76	64
References	TM200C16R	TM200C16T	TM200C16U	TM200C24R TM200CE24R	TM200C24T TM200CE24T	TM200C24U TM200CE24U	TM200C32R TM200CE32R	TM200C32T

Configuration limits	Logic controllers				
Maximum number of transistor outputs	144	132	148	148	132
Maximum number of relay outputs	64	80	64	64	88
References	TM200C32U	TM200C40R TM200CE40R	TM200C40T TM200CE40T	TM200C40U TM200CE40U	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.

08. Easy Sensor

Easy Sensor - Limit switch

Type of head	Plunger (fixing by the body)			Rotary (fixing by the body)	
XCE					
Type of operator	Steel end plunger	Steel roller plunger for lateral cam movement	Steel roller plunger for traverse cam movement	Thermoplastic roller lever	Steel roller lever
References of complete switches with Flexible rubber cable gland suitable for cable Ø 6...9 mm					
1 NO + 1 NC (form Za)	**XCE110C**	**XCE102C**	**XCE103C**	**XCE118C**	**XCE119C**

Type of head	Rotary (fixing by the body)			Multi-directional	
XCE					
Type of operator	Variable length thermo-plastic roller lever	Variable length metal roller lever	Round Ø 3 mm steel rod	“Cat’s whisker”	Spring rod lever with thermoplastic end
References of complete switches with Flexible rubber cable gland suitable for cable Ø6...9 mm					
1 NO + 1 NC (form Za)	**XCE145C**	**XCE146C**	**XCE154C**	**XCE106C**	**XCE181C**

Type of head	Plunger (fixing by head or body)							
XCJ								
Type of operator	Steel end plunger	Steel roller plun-ger for lateral cam movement	Steel roller plun-ger for traverse cam movement	Short flat lever plunger	Long flat lever plunger	Short flat roller lever plunger	Long flat roller lever plunger	Short flat roller lever plunger, one way ope-ration
References of complete switches with Flexible rubber cable gland suitable for cable Ø6...9 mm								
Single pole 1 C/O (form C)	**XCJ110C**	**XCJ102C**	**XCJ103C**	**XCJ125C**	**XCJ126C**	**XCJ127C**	**XCJ128C**	**XCJ121C**

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