

The essential guide

Lexium

motion control

helping you easily
select the right product

2008



Schneider
 **Electric**

Motion

Lexium Pac

High-performance motion control

Complete offer for general *motion control*.



Lexium Motion Controller

Up to 8 synchronized real axes

- PLCopen function blocks
- Application-specific function blocks (flying shear, rotary knife, grouping/ungrouping, clamping, etc.)
- Easy setup via user-friendly interface and remote display terminal
- Axis adjustment as close as possible to the machine



Lexium 05 servodrives

from 4 A to 25 A

- Lexium 05 operates in either torque or speed control mode by means of its ±10 V analog interface. Its encoder interface also performs the function of an electronic gearbox.



Lexium 15 servodrives

from 1,5 to 70 A

- Multifunction servodrives for all servo motor type
- “All in one” concept:
CANopen integrated, indexer, EMC filters, braking resistor and security functions.

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Motion controller and servodrives

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for BSH and BDH servomotors 16 to 23

Wide variety of control architectures:

- Fieldbus: FIPIO, CANopen (native), Modbus Plus, Profibus DP
- Motion Bus: synchronised CANopen dedicated Motion Bus, Sercos®.



BSH servomotors from 0.5 to 90 Nm

- Dynamic servomotors with low inertia
- Extensive speed range from 1250 to 8000 rpm
- IP40 or IP65 protection, brake, single turn or multturn SinCos encoder
- Straight or angle connectors



BDH servomotors from 0.18 to 53 Nm

- High adaptability and compact servomotors
- Extensive speed range from 1000 rpm to 8000 rpm
- IP54 or IP67 protection, brake, resolver, single turn or multi turn SinCos encoder
- Right angle turnable connectors

Selection guide

Motion control



LMC

Compact machines

- Handling, assembly, inspection, on-the-fly-processes, etc.

Solutions	Motion controller-based solutions Standalone solutions
Standalone solution	Yes
Maximum number of axes	8
Control mode	Synchronized CANopen dedicated to Motion
Coordinated axes	Yes (PLCopen single-axis library)
Synchronized axes:	PLCopen multi-axis library
* Slave axis (velocity)/Gearing	Yes
* Slave axis (position)/Phasing	Yes
* Cam profiles	Yes
* Interpolation	Yes
* Application function block	Rotary knife, Flying shear, Clamping, Grouping/Ungrouping
Configuration and programming software	Easy Motion, Motion Pro (Codesys)
Graphic display terminal	Yes
Standards	IEC 61131 PLCopen

			
CFY / CAY Compact machines ■ Handling, assembly, etc.	CSY Special machines ■ Handling, on-the-fly processes, etc.	Twido Compact machines ■ Handling, etc.	M340 Compact and special machines ■ Assembly, handling, etc.
PLC-based solutions PLC modules		PLC-based solutions Standalone solutions	
No		Yes	
1 to 4	16	16	63
Analog/Pulse	SERCOS	CANopen	CANopen
Yes	Yes	Yes	Yes (PLCopen, MFB library)
Yes	Yes	No	No
Yes	Yes	No	Yes (with Lexium 15)
No	Yes	No	Yes (with Lexium 15)
No	Yes	No	No
Yes (with TSXCAY 33)	Yes	No	No
No	No	No	No
Unity/PL7	Unity/PL7	Twido Soft	Unity
No	No	No	No
IEC 61131	IEC 61131	IEC 61131	IEC 61131 PLCopen

Selection guide

Servodrives



⇒ Applications:

Motion Bus, single axis, simple master/slave, materials handling, automatic assembly, automated inspection, coil winding, cutting to length, packaging.



Lexium 05

- **Compactness:** side by side mounting, integrated EMC class A filters.
- **Simplicity:** simple setting-up, "Simply start" menu
- **Safety:** "Power removal" function
- **Openness:** CANopen or Profibus DP integrated
- **Intelligence:** 4 operating modes, including integrated point to point positioning.

⇒ Applications:

Motion Bus, single axis, simple master/slave, advance master/slave, coordinated axes, materials handling, automatic assembly, coil winding, cutting to length, tension control.



Lexium 15

- **Compactness:** integrated EMC filters and braking resistors
- **Simplicity:** simple setting-up, "Simply start" menu
- **Safety:** "Power removal" function
- **Openness:** CANopen integrated
- **Absolute positioning control**
- **Intelligence:** Up to 200 programmable motion tasks, 8 operating modes, including integrated point to point positioning.

Supply voltage ranges, 50/60 Hz	Single-phase 100/120 V Single-phase 200/240 V 3-phase 200/240 V 3-phase 380/480 V	Single-phase 200/240 V 3-phase 200/240 V 3-phase 208/480 V
Input voltage	24 V, < to 1 A	24...28 or 20...30 V, 1 or 2.5 A
Output voltage	Maximum 3-phase voltage equal to line supply voltage	
Electrical isolation	Between power and control sections (inputs, outputs)	power supplies
Protection	"Power Removal" safety function	
Number of inputs/outputs:		
Analog inputs/outputs	2/-	2/2 MP/HP only
Logic inputs/outputs	4/2	5/2
Safety inputs	2	1
Relay outputs	-	1
Drive characteristics:		
Switching frequency	4 or 8 kHz	8 kHz
Control loop characteristics:	Torque, Speed, Position	62.5µs, 250µs, 250µs 62.5µs, 250µs, 250µs
Control signals		
Resolver feedback	-	1
Motor encoder feedback signals	1	1
Pulse/direction, A/B encoder signals	1	1
Simulated encoder output signals	1	1
Communication		
integrated	Motion Bus, CANopen, Profibus DP ou Modbus	Motion Bus, CANopen
option	-	Profibus DP, Modbus Plus, FIPIO, Sercos, Ethernet
Option cards	-	Input/output extension card
Standards and certifications	IEC/EN 61800-5-1, IEC/EN 50178, IEC/EN 61800-3 environments 1 and 2 catégories C2 and C3 EN 55011 class A group 1 and 2, (73/23/CEE and 93/68/CEE) and CEM (89/336/CEE) UL, cUL, IEC 60721-3-3 class 3C1	EN 50178, EN 61800-3, environments 1 and 2, categories C2 and C3, (73/23/CEE and 93/68/CEE) UL, cUL (Canada) IEC 60721-3-3 class 3C1 IEC 60721-3-3, class 3K3

Servomotors



BSH motors

- **Wide range**
- High dynamics
- **Compactness:** new salient pole based winding technology.
- Automatic motor identification and high precision positioning provided by SinCos Hiperface encoder



BDH motors

- **Wide range:** more than 68 types of motor.
- Excellent adaptability:
 - Degree of protection IP54 or IP67
 - With or without brake
 - Straight or right-angled connectors
 - Smooth shaft or with key
- **Compactness:** new salient pole based winding technology.
- Absolute positioning control provided by SinCos Hiperface encoder

Flange size (mm)	55, 70, 100, 140, 205	40, 58, 70, 84, 108, 138, 188
Nominal speed (rpm)	500 to 8000	500 to 8000
Nominal torque (Nm)	0.41 to 80	0.17 to 48
Maximum rotational speed (rpm)	3800 to 8000	6000 to 8000
Continuous stall torque (Nm)	0.5 to 90	0.18 to 53
Peak stall torque (Nm)	1.4 to 300	0.61 to 108
Type of mounting	IEC	IEC, NEMA
IP protection	IP40, IP65	IP54, IP67
Shaft end	Smooth With closed shaft key (IEC standard)	Smooth With closed shaft key (IEC standard) With open shaft key (NEMA standard)
Holding brake	Option	Option
Integrated sensor	Single turn SinCos Hiperface encoder Multiturn SinCos Hiperface encoder	Resolver Single turn SinCos Hiperface encoder Multiturn SinCos Hiperface encoder
Connector type	IP65 Straight Elbowed	IP65 Elbowed
Magnet type	Neodymium Iron Boron (NdFeB)	Neodymium Iron Boron (NdFeB)
Standards	Operating characteristics, robustness, safety, ..., conforming to IEC/EN 60034-1	
Certifications	European directives UL1004	European directives UL1004
Altitude	Altitude: 1000 m without derating, 2000 m with k = 0.86 (1), 3000 m with k = 0.83	1000 m without derating, 2000 m with k = 0.94 (1), 3000 m with k = 0.83
Operational temperature	Ambient operating temperature: - 20..40 °C conforming to DIN 50019R14. Maximum 55 °C with derating above 40 °C by 1% per additional °C	5..40 °C conforming to EN 50178 Climatic class 3K3. Maximum 50 °C with derating above 40 °C by 1% per additional °C
Relative humidity	Class F conforming to DIN 400 Climatic class 3K3	95% without condensation conforming to EN 50178
Nominal life of bearings	$L_{10h} = 20\,000$ hours	$L_{10h} = 20\,000$ hours

(1) k: Derating factor



Module type	For translators (amplifier for stepper motor)	For analog control servomotors (for asynchronous and brushless motors)						
Control outputs	RS 422	+/- 10 V						
Compatible with servodrives	Lexium 05	Lexium 05/15						
Functions	Linear axes	–	Limited	Limited or infinite	Limited or infinite (1)			
	Slave axes	–	With static ratio	With dynamic ratio	–			
Frequency for each axis		187 kHz	500 kHz with incremental encoder, 200 kHz with absolute encoder (SSI serial or parallel output)					
Number of axes	1	2	2	4	2	4	3	
Reference	TSXCFY11	TSXCFY21	TSXCAY21	TSXCAY41	TSXCAY22	TSXCAY42	TSXCAY33	

(1) With linear interpolation on 2 or 3 axes



Module type	Servomotors with SERCOS® digital ring (for brushless motors)		
Control outputs	SERCOS® network ring		
Compatible with servodrives	Lexium 15		
Functions	Linear or infinite independent axes, slave axes with cam profile or ratio		
Processing	4 sets of axes with linear interpolation from 2 to 8 axes	4 sets of axes with linear and circular interpolation from 2 to 3 axes (2)	4 sets of axes with linear interpolation from 2 to 8 axes
Frequency for each axis	4 Mb SERCOS® network ring		
Number of axes	8 (3)	8 (3)	16 (4)
Reference	TSXCSY84	TSXCSY85	TSXCSY164

(2) TSXCSY85 module supplied with TJE trajectory editor: linear trajectories with links between segments according to polynomial or circular interpolation and circular trajectories.

(3) 8 real axes, 4 imaginary axes and 4 remote axes

(4) 16 axes (real axes, imaginary and remote axes)

Connection accessories for Modicon Premium modules

Type	Fiber optic cables For Lexium 15 MDHA1...N00/A00 drives														
Connection	Pre-equipped cable with SMA connectors														
Reference	<table border="1"> <tr> <td>L = 0.3 m</td><td>990MCO00001</td></tr> <tr> <td>L = 0.9 m</td><td>990MCO00003</td></tr> <tr> <td>L = 1.5 m</td><td>990MCO00005</td></tr> <tr> <td>L = 4.5 m</td><td>990MCO00015</td></tr> <tr> <td>L = 16.5 m</td><td>990MCO00055</td></tr> <tr> <td>L = 22.5 m</td><td>990MCO00075</td></tr> <tr> <td>L = 37.5 m</td><td>990MCO00125</td></tr> </table>	L = 0.3 m	990MCO00001	L = 0.9 m	990MCO00003	L = 1.5 m	990MCO00005	L = 4.5 m	990MCO00015	L = 16.5 m	990MCO00055	L = 22.5 m	990MCO00075	L = 37.5 m	990MCO00125
L = 0.3 m	990MCO00001														
L = 0.9 m	990MCO00003														
L = 1.5 m	990MCO00005														
L = 4.5 m	990MCO00015														
L = 16.5 m	990MCO00055														
L = 22.5 m	990MCO00075														
L = 37.5 m	990MCO00125														

Lexium Controller

Motion control Motion controller



Controller type	Optimized	Standard	Extended
Drives synchronisation	Up to 4 axes	2 ms	
Motion bus	Up to 8 axes	4 ms	
Drives interpolated position loop		250 µs	
Internal memory	RAM	2 Mbytes	
	Flash Eeprom	2 Mbytes	
	Non volatile RAM	64 kbytes	
Application expertise	Application functions (AFB)	yes	
	PLCopen single axis control	yes	
	PLCopen multi axis control	yes	
	2D interpolation	yes	
Number of logical inputs	8	8	8
Number of logical outputs	4	8	8
Communication	Modbus	yes	yes
	CANopen automation	–	yes
	Ethernet TCP/IP	–	yes
	Profibus DP V1	–	yes
	Device Net	–	–
Reference	LMC10	LMC20	LMC20A1307
			LMC20A1309

Graphic terminal



A remote graphic terminal combined with the Lexium Controller is offered as an option with Lexium PAC :

	<ul style="list-style-type: none"> ■ Backup and recovery of application data ■ Manual mode wiring test ■ Adjustment and diagnostics of Lexium Controller and servodrive ■ Maintenance
Reference	VW3M1701

Remote graphic display terminal accessories

Remote cables	Equipped with 2 RJ45 connectors
Reference	L = 1 m
	VW3 A1 104 R10
	L = 3 m
	VW3 A1 104 R30
	L = 5 m
	VW3 A1 104 R50

Female/female RJ45 adapter

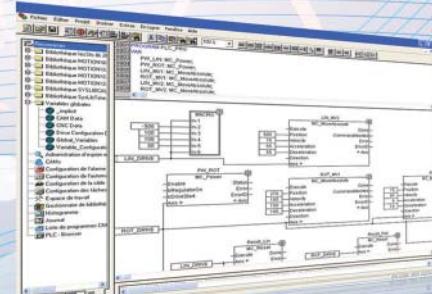
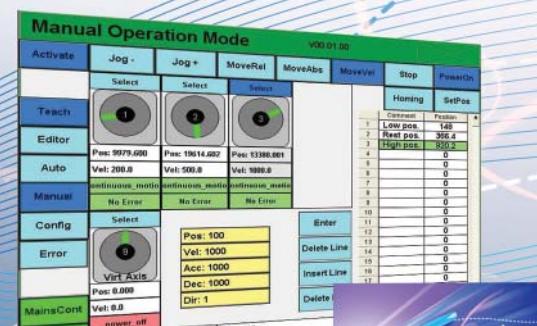
Reference	VW3 A1 105
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Sofware solution included in Lexium Controller



Easy Motion... for configuring the motioncontrol functions

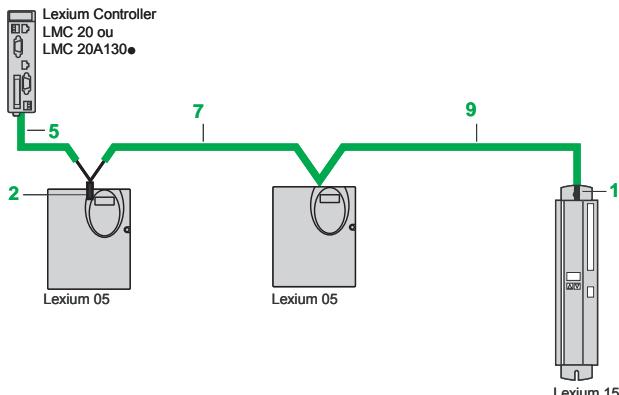
- Configuration of the axis
- Servodrive and Lexium Controller adjustment and diagnostics
- Creation of a position register by teaching
- Axis operating modes and manual control management
- Edit positioning tasks
- Edit cam profiles
- Application backup and recovery



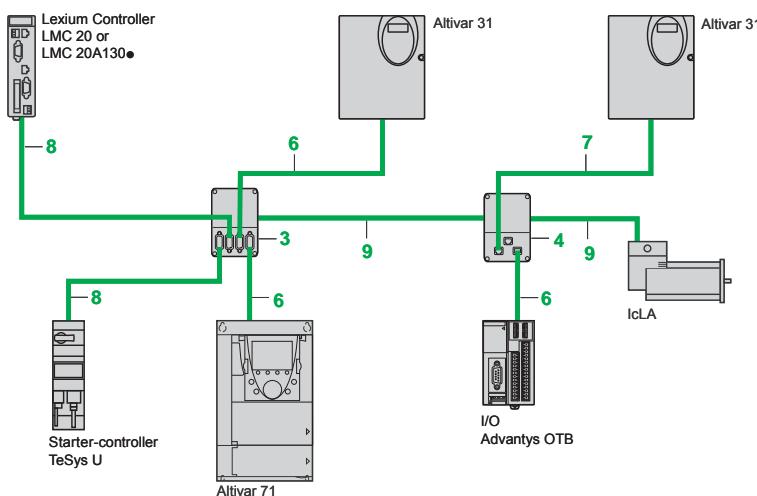
Motion Pro... for configuring and programming the motion control functions

- Retains the benefits of Easy Motion for motion control
- The entire application, automation functions and motion control are realized using a programming editor IEC 61131 compliant
- Machine signature recording
- Program code protection

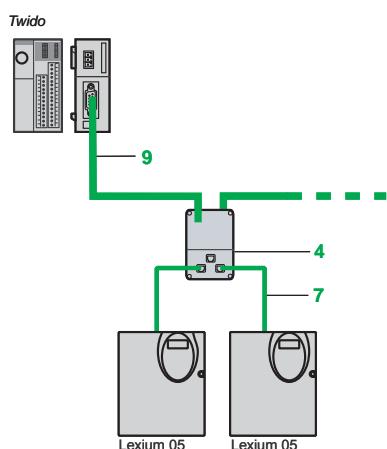
Examples of connection to the CANopen bus dedicated to Motion with the Lexium Controller



Example of connection to the CANopen bus dedicated to Automation with the Lexium Controller



Example of connection to the CANopen bus with Twido and Lexium 05





TSX CAN TDM4



VW3 CAN TAP2

Connectors and junction boxes

Designation	No.	Reference
9-way female SUB-D connector/screw terminals	1	VW3 M3 802
Daisy chain tap with 3 RJ45 connectors and 0.3 m cable	2	TCS CTN023F13M03
IP 20 CANopen junction boxes		
4 SUB-D and line terminator	3	TSX CAN TDM4
IP 20 CANopen junction boxes		
2 RJ45 and line terminator	4	VW3 CAN TAP2

(1) Product not to be used on Motion bus

Cordsets

Designation	No.	Length (m)	Reference
9-way female SUB-D with line terminator/RJ45 cordset	5	1	VW3 M3 805R010
9-way female SUB-D/RJ45 cordsets	6	0.5	TCS CCN4F3M05T
		1	TCS CCN4F3M1T
		3	TCS CCN4F3M3T
RJ45/RJ45 cordsets	7	0.3	VW3 CAN CARR 03
		1	VW3 CAN CARR 1
9-way female SUB-D/9-way female SUB-D cordsets	8	0.3	TSX CAN CADD 03
		1	TSX CAN CADD 1
		3	TSX CAN CADD 3
		5	TSX CAN CADD 5



Connection cables

Designation	No.	Length (m)	Reference
IP 20 CANopen cables	9	50	TSX CAN CA 50
Halogen-free		100	TSX CAN CA 100
		300	TSX CAN CA 300
UL Certified		50	TSX CAN CB 50
		100	TSX CAN CB 100
		300	TSX CAN CB 300
Harsh environment		50	TSX CAN CD 50
		100	TSX CAN CD 100
		300	TSX CAN CD 300

Control and connectivity	
+ or - 10 V. Pulse / direction Motion Bus / CANopen	Profibus DP
Torque control, speed control, point to point, gearing, homing	



Servodrive type	Digital for servomotors		
	Size 1	Size 2	Size 3
Supply voltage	110...120 VAC single phase		
Output current (A)	Continuous (RMS)	4	8
	Maximum (RMS)	7	12
Power (kW)	0.4	0.65	0.85
Safety function	Integrated "Power Removal"		
Braking resistor	Integrated		
EMC filter	Integrated		
Reference (1)	LXM05●D10F1	LXM05●D17F1	LXM05●D28F1



Servodrive type	Digital for servomotors					
	Size 1	Size 2	Size 3	Size 1	Size 2	Size 3
Supply voltage	200...240 VAC single phase				200...240 VAC 3-phase	
Output current (A)	Continuous (RMS)	4	8	15	4	8
	Maximum (RMS)	7	12	20	7	12
Power (kW)	0.75	1.2	2.5	0.75	1.4	3.2
Safety function	Integrated "Power Removal"					
Braking resistor	Integrated					
EMC filter	Integrated				Not integrated	
Reference (1)	LXM05●D10M2	LXM05●D17M2	LXM05●D28M2	LXM05●D10M3X	LXM05●D17M3X	LXM05●D42M3X



Servodrive type	Digital for servomotors			
	Size 2	Size 2	Size 3	Size 4
Supply voltage	380...480 VAC 3-phase			380...480 VAC 3-phase
Output current (A)	Continuous (RMS)	6	9	15
	Maximum (RMS)	10	16	24
Power (kW)	1.4	2	3	6
Safety function	Integrated "Power Removal"			
Braking resistor	Integrated			
EMC filter	Integrated			
Reference (1)	LXM05●D14N4	LXM05●D22N4	LXM05●D34N4	LXM05●D57N4

(1) To order a Lexium 05 servodrive with CANopen bus integrated, replace “●” by “A”. Example LXM05●D14N4 become LXM05AD14N4.

To order a Lexium 05 servodrive with PROFIBUS DP bus integrated, replace “●” by “B”. Example LXM05●D14N4 become LXM05BD14N4.



Multilingual configuration software		For PC
Configuration of drives and softstarters		Lexium 05 / Altivar / Altistart
Environment		Microsoft Windows ®
Languages		English - French - German - Italian - Spanish
Reference	PowerSuite CD-ROM	VW3A8106
	Connection kit	

Additional EMC input filters



Supply voltage		Single phase	3-phase
Maximum cable length	Category C3	40 m (100 m with a switching frequency of 8 kHz)	40 m (100 m with a switching frequency of 8 kHz)
	Category C2	20 m	20 m
Reference	Drives	Size 1 LXM05AD10F1, LXM05AD10M2 VW3A31401	LXM05AD10M3X VW3A31402
	Filters	Size 2 LXM05AD17F1, LXM05AD17M2 VW3A31403	LXM05AD17M3X, LXM05AD14N4 VW3A31404
	Drives	Size 3 LXM05AD28F1, LXM05AD28M2 VW3A31405	LXM05AD42M3X, LXM05AD22N4, LXM05AD34N4 VW3A31406
	Filters	Size 4 –	LXM05AD57N4 VW3A31407

Line inductances



Supply voltage		Single phase	3-phase		
		110...120 V	200...240 V	200...240 V	380...480 V
References	Drives	Size 1 LXM05AD10F1 VZ1L007UM50	LXM05AD10M2 VZ1L007UM50	LXM05AD10M3X VW3A4551	–
	Inductances	Size 2 LXM05AD17F1 VZ1L018UM20	LXM05AD17M2 VZ1L018UM20	LXM05AD17M3X VW3A4552	LXM05AD10N4, LXM05AD22N4 VW3A4551
	Drives	Size 3 LXM05AD28F1 VZ1L018UM20	LXM05AD28M2 VZ1L018UM20	LXM05AD42M3X VW3A4553	LXM05AD34N4 VW3A4552
	Inductances	Size 4 –	–	–	LXM05AD57N4 VW3A4552
	Drives	–	–	–	–
	Inductances	–	–	–	–



Controller type	Holding brake
Power supply	24 VDC
Maximum current	1.6 A
Maximum power	50 W
Degree of protection	IP20
Reference	VW3M3103

External braking resistors



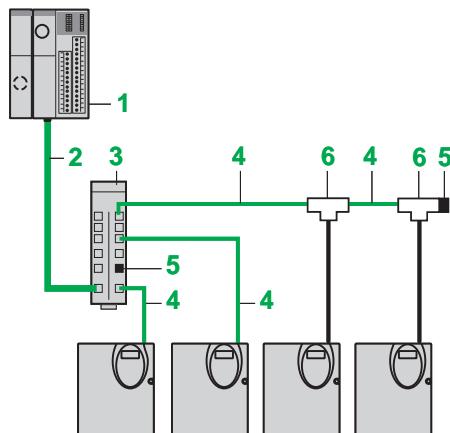
Resistor type		External braking for Lexium 05 drives						
Resistance		10 Ω	27 Ω		72 Ω			
Power		400 W	100 W	200 W	400 W	100 W	200 W	400 W
Reference (1)	cable lenght	L = 0.75 m	VW3	A7601R07	A7602R07	A7603R07	A7604R07	A7605R07
		L = 2 m	VW3	A7601R20	A7602R20	A7603R20	A7604R20	A7605R20
		L = 3 m	VW3	A7601R30	A7602R30	A7603R30	A7604R30	A7605R30
								A7606R30
								A7607R30

(1) In order to select the braking resistor, you need to calculate the continuous and peak power to be dissipated in it. Please consult our Lexium 05 catalog



Drives		Lexium 05		
Connection type	Description	Splitter box with 10 RJ45 connectors and 1 screw terminal block	Junction box for drop cable VW3A8306D30	Subscriber socket for drop cable VW3A8306
	Reference	LU9GC3	TSXSCA50	TSXSCA62
Line terminators	For RJ 45 connector	R = 120 Ω, C = 1 nf	R = 150 Ω, C = 1 nf	
	Reference	VW3A8306RC	VW3A8306R	
	For screw terminals	R = 120 Ω, C = 1 nf	R = 150 Ω, C = 1 nf	
	Reference	VW3A8306DRC	VW3A8306DR	
T-junction boxes	With integrated cable	0.3 m	VW3A8306TF03	
	With integrated cable	1 m	VW3A8306TF10	
Cables	Description	2 RJ 45 connectors		
	Reference	0.3 m	VW3A8306R03	
		1 m	VW3A8306R10	
		3 m	VW3A8306R30	
RS 485 shielded twisted double pair cables	Description	1 RJ45 connector and one stripped end		
	Reference	3 m	VW3A8306D30	
	Description	Supplied without connector		
	Reference	100 m	TSXCSA100	
		200 m	TSXCSA200	
		500 m	TSXCSA500	

Connection with RJ45 splitter box and screw terminals



1 Controller Twido

2 Cable for controller Twido serial link

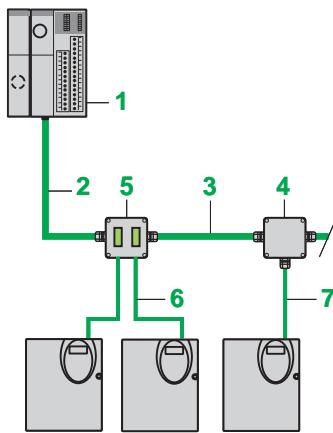
3 Modbus splitter box LU9 GC3

4 Modbus drop cables VW3 A8 306R••

5 Line terminators VW3 A8 306RC

6 Modbus T-junction boxes VW3 A8 306TF•• (with cable)

Connection with junction box or subscriber sockets



1 Controller Twido

2 Cable for controller Twido serial link

3 Modbus cables TSX CSA•00

4 T-junction box TSX SCA 50

5 Subscriber socket TSX SCA 62

6 Modbus drop cables VW3 A8 306

7 Modbus drop cables VW3 A8 306 D30

Connection via screw terminals

In this case, a Modbus drop cable (VW3 A8 306D30) and line terminators (VW3 A8 306DRC) are used.



1.4 Nm This value corresponds to the peak torque at standstill that can be provided by the Lexium 05 servodrive/BSH servomotor combination.

BSH servomotors

Lexium 05 servodrives

Reference	Torque at standstill	110/120 V single phase, with integrated EMC filter LXM 05●			200/240 V single phase, with integrated EMC filter LXM 05●					
		Nominal speed	D10F1 0.4 kW	D17F1 0.65 kW	D28F1 1.4 kW	Nominal speed	D10M2 0.75 kW	D17M2 1.2 kW	D28M2 2.5 kW	
BSH 0551T	0.5 Nm	3000 min ⁻¹	1.4 Nm			6000 min ⁻¹	1.4 Nm			
BSH 0552M	0.9 Nm					1500 min ⁻¹	2.3 Nm			
BSH 0552P	0.9 Nm					4000 min ⁻¹	2.7 Nm			
BSH 0552T	0.9 Nm	3000 min ⁻¹	1.77 Nm	2.7 Nm		6000 min ⁻¹	1.77 Nm			
BSH 0553M	1.3 Nm					1500 min ⁻¹	4.2 Nm			
BSH 0553P	1.3 Nm					4000 min ⁻¹	3.18 Nm			
BSH 0553T	1.3 Nm	3000 min ⁻¹		3.31 Nm		6000 min ⁻¹		3.31 Nm		
BSH 0701P	1.4 Nm					3000 min ⁻¹	3.2 Nm			
BSH 0701T	1.4 Nm	2500 min ⁻¹	2.42 Nm			5000 min ⁻¹		3.19 Nm		
BSH 0702M	2.1 Nm					1500 min ⁻¹	6.8 Nm			
BSH 0702P	2.2 Nm					3000 min ⁻¹	5.37 Nm	7.55 Nm		
BSH 0702T	2.12 Nm	2500 min ⁻¹		4.14 Nm		6000 min ⁻¹		4.14 Nm	6.8 Nm	
BSH 0703M	2.8 Nm					1500 min ⁻¹	10 Nm			
BSH 0703P	3.1 Nm					3000 min ⁻¹		7.28 Nm	10.3 Nm	
BSH 0703T	2.8 Nm	2500 min ⁻¹			7.38 Nm	6000 min ⁻¹		7.38 Nm		
BSH 1001T	3.4 Nm	2500 min ⁻¹			8.5 Nm	4000 min ⁻¹			8.5 Nm	
BSH 1002P	5.8 Nm					2000 min ⁻¹			18.3 Nm	
BSH 1003P	7.8 Nm					2000 min ⁻¹			22.79 Nm	
		200/240 V three phase, without integrated EMC filter LXM 05●			380/480 V three phase, with integrated EMC filter LXM 05●					
Reference	Torque at standstill	Nominal speed	D10M3X 0.75 kW	D17M3X 1.4 kW	D42M3X 3.2 kW	Nominal speed	D14N4 1.4 kW	D22N4 2 kW	D34N4 3 kW	D57N4 6 kW
BSH 0551T	0.5 Nm	6000 min ⁻¹	1.4 Nm			6000 min ⁻¹	2.7 Nm			
BSH 0552M	0.9 Nm	1500 min ⁻¹	2.3 Nm							
BSH 0552P	0.9 Nm	4000 min ⁻¹	2.7 Nm							
BSH 0552T	0.9 Nm	6000 min ⁻¹	1.77 Nm							
BSH 0553M	1.3 Nm	1500 min ⁻¹	4.2 Nm							
BSH 0553P	1.3 Nm	4000 min ⁻¹	3.18 Nm							
BSH 0553T	1.3 Nm	6000 min ⁻¹		3.31 Nm						
BSH 0701M	1.4 Nm	1500 min ⁻¹	3.2 Nm							
BSH 0701P	1.4 Nm	3000 min ⁻¹	3.2 Nm							
BSH 0701T	1.4 Nm	6000 min ⁻¹	2.41 Nm	3.19 Nm						
BSH 0702M	2.1 Nm	1500 min ⁻¹	6.8 Nm							
BSH 0702P	2.2 Nm	3000 min ⁻¹	5.37 Nm	7.55 Nm						
BSH 0702T	2.12 Nm	4500 min ⁻¹			6.8 Nm					
BSH 0703M	2.8 Nm	1500 min ⁻¹	10 Nm							
BSH 0703P	3.1 Nm	3000 min ⁻¹		7.28 Nm						
BSH 0703T	2.8 Nm	6000 min ⁻¹			10.25 Nm					
BSH 1001M	3.4 Nm									
BSH 1001P	3.3 Nm	2000 min ⁻¹		9.45 Nm						
BSH 1001T	3.4 Nm	4000 min ⁻¹			8.5 Nm					
BSH 1002M	5.5 Nm									
BSH 1002P	5.8 Nm	2000 min ⁻¹		12.35 Nm						
BSH 1002T	5.52 Nm	4000 min ⁻¹			16 Nm					
BSH 1003M	7.8 Nm									
BSH 1003P	8 Nm	2000 min ⁻¹			28.3 Nm					
BSH 1004P	10 Nm	1500 min ⁻¹			35.7 Nm					
BSH 1401P	11.1 Nm				30.41 Nm					
BSH 1401T	11.1 Nm	2500 min ⁻¹			27.1 Nm					
BSH 1402M	19.5 Nm									
BSH 1402P	19.5 Nm	1500 min ⁻¹			46.42 Nm					
BSH 1402T	14.73 Nm	2000 min ⁻¹			25.04 Nm					
BSH 1403M	27.8 Nm									
BSH 1403P	27.8 Nm									
BSH 1404M	33.4 Nm									
BSH 1404P	33.4 Nm									

● replaced by A for the CANopen/analog inputs version, replaced by B for the Profibus DP version.



Servodrive type		Lexium 15 LP					
Supply voltage		3-phase 200...240 V, 50/60 Hz				3-phase 208...480 V, 50/60 Hz	
Output current (A)		Continuous	3 A	6 A	10 A	1,5 A	3 A
		Maximum (discontinuous, 2 s)	13 A	21 A	28 A	6 A	10 A
Powers (kW)		1 2.1 3.4 1.1 2.1 4.3					
Security function		Power removal integrated					
Braking resistor		Integrated					
EMC filters class A		Integrated					
Line reactors		Integrated					
References		LXM15LD13M3 LXM15LD21M3 LXM15LD28M3 LXM15LU60N4 LXM15LD10N4 LXM15LD17N4					



Servodrive type		Lexium 15 MP		
Supply voltage		3-phase 208...480 V, 50/60 Hz 200-240 V, 50/60 Hz		
Output current (A)		Continuous	10 A	14 A
		Maximum (discontinuous, 5 s)	28 A	40 A
Powers (kW)		5.7 7.9 11.4		
Security function		Power removal integrated		
Braking resistor		Integrated		
EMC filters class A		Integrated		
Line reactors		Integrated		
References		LXM15MD28N4	LXM15MD40N4	LXMMD56N4



Servodrive type		Lexium 15 HP	
Supply voltage		3-phase 208...480 V, 50/60 Hz	
Output current (A)		Continuous	40 A
		Maximum (discontinuous, 5 s)	80 A
Powers (kW)		22.3 42.5	
Security function		Power removal integrated	
Braking resistor		Option, requires in neutral mode TT and TN	
EMC filters class A		Option	
Line reactors		Option, requires in neutral mode TT and TN	
References		LXM15HC11N4X	LXM15HC20N4X



Resistor type	External braking for Lexium 15 servodrives			
Continuous power PPr (W)	100	200	400	1000
Reference	5 Ω	–	–	VW3A7707
	10 Ω	–	–	VW3A7705
	27 Ω	VW3A7602R• (1)	VW3A7603R• (1)	VW3A7604R• (1)
	72 Ω	VW3A7605R• (1)	VW3A7606R• (1)	VW3A7607R• (1)
	100 Ω	VW3A7608R• (1)	–	–

(1) For a length of connection cable of 0,75 m replace • by 07
 2 m replace • by 20
 3 m replace • by 30

Additional EMC input filters



Supply voltage	3-phase 208...480 VAC	
Type of Lexium 15 HP servodrive	LXM15HC11N4X	LXM15HC20N4X
Input rms current (A)	42	75
Maximum motor cable length	100 m	100 m
References	VW3M4101	VW3M4102

Line reactors



Supply voltage	3-phase 208...480 VAC	
Type of Lexium 15 HP servodrive	LXM15HC11N4X	LXM15HC20N4X
Input current (A)	60	75
References (1)	VW3M4301	VW3M4302

(1) Must be ordered with the drive, unless an isolation transformer is being used with IT connection

Motor reactor

Supply voltage	3-phase 208...480 VAC			
Type of Lexium 15 HP servodrive	LXM15LD13M3 LXM15LD21M3 LXM15L...N4	LXM15LD28M3 LXM15MD28N4	LXM15MD40N4	LXM15MD56N4
Input nominal current (A)	6	10	14	20
References	VW3M5301	VW3M5302	VW3M5303	VW3M5304

Control and connectivity	
+ or -10 V. Pulse / direction Motion Bus / CANopen	Profibus DP / FIPIO Modbus Plus / Ethernet Sercos
Torque control loop, speed control loop, position control loop, motion tasks, point to point, gearing, position registers, homing	

Accessories type	Backup key
Use	Saves the servodrive operating parameters and instantly reinitiates settings (without PC)
References	VW3 M8 701

Accessories type	Master / Slave cable	Cable for PC serial port
Connector type	2 SUB-D connectors female 9 pins	
References	L = 0.5 m L = 2 m L = 3 m L = 6 m	VW3 M8 501 R05 VW3 M8 501 R20 – VW3 M8 501 R60
		VW3 M8 501 R03

Inputs/outputs extension card

Card type	Card AM0 INE 001V000
Number of logic inputs	10
Number of logic outputs	8

Communication bus connection CANopen

Connection type	Integrated Connector	Card AM02CA001V000 Connector	Cable		
Connector type	1 SUB-D male 9 pins	2 SUB-D male 9 pins 1 SUB-D female 9 pins	–	–	–
Cable type	–	–	Halogen-free	UL certification	Harsh environments
References	L = 50 m L = 100 m L = 300 m	– – –	TSXCANCA50 TSXCANCA100 TSXCANCA300	TSXCANCB50 TSXCANCB100 TSXCANCB300	TSXCANCD50 TSXCANCD100 TSXCANCD300

FIPIO card



Connection type	Card AM0 FIP 001V000 Connector	Cable	
Connector type	SUB-D male 9 pins	–	–
Cable type	–	Standard environment	Harsh environments
References	L = 100 m L = 200 m L = 500 m	TSX FP CA 100 TSX FP CA 200 TSX FP CA 500	TSX FP CR 100 TSX FP CR 200 TSX FP CR 500

Modbus Plus card

Connection type	Card AM0 MBP 001V000	Connector	Cable
Connector type	SUB-D female 9 pins	—	—
References	L = 30.5 m	—	490 NAA 271 01
	L = 152.5 m	—	490 NAA 271 02
	L = 305 m	—	490 NAA 271 03
	L = 457 m	—	490 NAA 271 04
	L = 1525 m	—	490 NAA 271 06

Profibus DP card



Connection type	Card DP VW3 M3 306	Connector	Cable
Connector type	2 SUB-D female 9 pins	—	—
References	L = 100 m	—	TSX PBS CA 100
	L = 400 m	—	TSX PBS CA 400

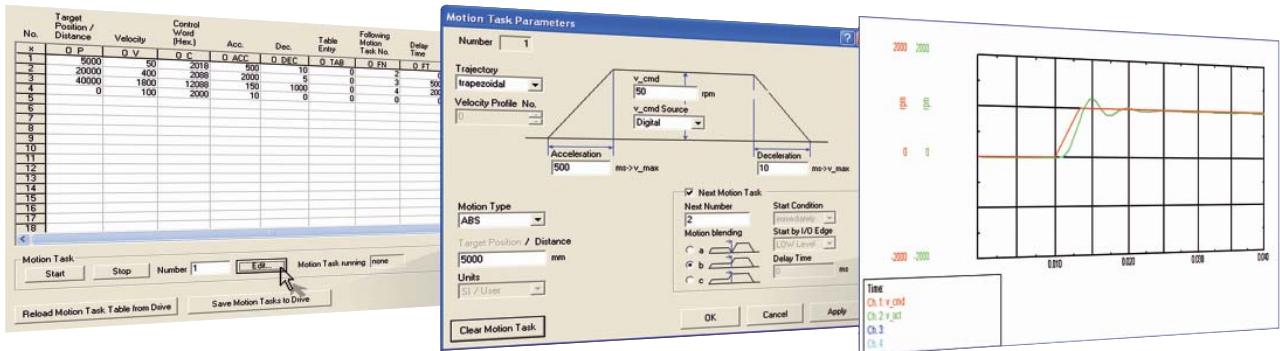
Ethernet card

Connection type	Card AM0 ETH 001V000	Connector	Cable
Connector type	2 RJ45 connectors	—	—
Cable type	—	Straight twisted pair	Crossed twisted pair
References	L = 2 m	—	—
	L = 5 m	—	490 NTW 000 05
	L = 12 m	—	490 NTW 000 12
	L = 15 m	—	—
	L = 40 m	—	490 NTW 000 40
	L = 80 m	—	490 NTW 000 80

Sercos card



Connection type	Card AM0 SER 001V000	Connector	Cable
Connector type	SMA	—	—
Fiber optic references	L = 0.3 m	—	990 MCO 000 01
	L = 0.9 m	—	990 MCO 000 03
	L = 1.5 m	—	990 MCO 000 05
	L = 4.5 m	—	991 MCO 000 15
	L = 16.5 m	—	991 MCO 000 55
	L = 22.5 m	—	991 MCO 000 75
	L = 37.5 m	—	992 MCO 001 25



Unilink software for PC is a tool for configuring Lexium 15 servodrive operating parameters.

Its simple, easy-to-follow graphic interface helps to reduce setup costs.

It incorporates various functions for the setup phases, such as:

- Parameter setting
- Advanced adjustment of the various control loops
- Programming motion tasks
- Supervision

This software is available in two versions, for configuring Lexium 15 LP servodrives (Unilink L) and Lexium 15 MP/15 HP servodrives (Unilink MH).

It is supplied with the servodrive as standard.

Configuration and adjustment software	«Unilink» for PC
Drives configuration	Lexium 15
Environment	Microsoft Windows R
Language	English, French, German, Italian and Spanish
Contents	CD-Rom deliver with the product : Unilink software + documentation (1)

(1) All the documentation on www.schneider-electric.com



Servodrive type	Lexium 15 LP						Lexium 15 HP			Lexium 15 HP			
	With EMC filters integrated												
	200...240V/1-phase and 3-phase LXM15L		208...480 V 3-phase		208...480 V 3-phase LXM15M		208...480V/3-phase LXM15H						
BSH...	Mo (1)	Nmax (2)	D13M3	D21M3	D28M3	U60N4	D10N4	D17N4	D28N4	D40N4	D56N4	C11N4X	C20N4X
0551 P	0.5	3000	1.4			1.4							
0551 T	0.5	7000	1.4										
0552 M	0.9	4000				2.25							
0552 P	0.9	4000	2.54										
0552 T	0.9	7000	2.7			2.26							
0553 M	1.3	4000				3.5							
0553 P	1.3	7500	4.2				3.87						
0701 P	1.41	3000	2.66	3.19		2.66							
0701 T	1.36	6000	3.19				2.91						
0702 M	2.12	3000				5.63							
0702 P	2.12	7000	5.63				4.85						
0702 T	2.12	6000		5.45				4.47					
0703 P	2.83	6500		9.28				7.71					
0703 T	2.83	5500			7.38								
1001 P	3.39	2500		7.68			6.19						
1001 T	3.39	4000			8.5								
1002 P	5.52	5000		14.79				12.13					
1002 T	5.52	4000			11.59								
1003 M	7.76	2000					23	22.95					
1003 P	7.76	4500			19.69				19.7	23.17			
1004 M	9.31	2000					29.9	29.87		33.83			
1004 P	9.31	4000							23.6	33.83			
1004 T	9.31	3500								21.04			
1401 M	11.4	1500							26				
1401 P	11.4	3000							23.3	23.33			
1401 T	11.4	2520								22.27	23.33		
1402 M	19.2	1500								47.5			
1402 P	19.2	3500								39.33	47.5		
1403 M	25.4	1500								71.67			
1403 P	25.4	3500									57.2		
1404 M	32.1	1500								82.32	95		
2051 M	36	1500								68.33	68.33	68.33	
2051 P	36	3000									82		
2052 M	65	1500									200	200	
2052 P	65	2000										118.54	
2053 M	90	1500										227.18	
2053 P	90	2000										300	
												202.96	

(1) Mo = Nominal torque in Nm

(2) N max = Maximum speed in rpm

1.4 = Value in Nm corresponding to the peak stall torque of servodrive-motor combination



Servodrive type	Lexium 15 LP						Lexium 15 MP		
	With EMC filters integrated								
	200...240V/1-phase and 3-phase			208...480V/3-phase			208...480V/3-phase		
LXM15L						LXM15M			
BDH...	Mo (1)	Nmax (2)	D13M3	D21M3	D28M3	U60N4	D10N4	D17N4	D28N4
0401 B	0.18	8000	0.61						
0402 C	0.31	8000	1.08						
0403 C	0.41	8000	1.46						
0582 C	0.84	7500				2.34			
0582 E	0.87	7000	2.42						
0583 C	1.13	6000				3.2			
0583 D	1.16	8000	3.84				3.42		
0583 F	1.18	8000		3.52					
0584 C	1.38	5000				3.94			
0584 D	1.41	8000	4.76				4.22		
0584 F	1.42	6500		4.68					
0701 C	1.15	5500				3.34			
0701 E	1.2	5500	3.24						
0702 C	2	3500				5.74			
0702 D	2.04	5500	7.05				6.18		
0702 H	2.1	6500		5.36					
0703 C	2.71	2500				7.83			
0703 E	2.79	4500	8.95				7.7		
0703 H	2.88	5000		7.35					
0841 C	1.95	3000				5.12			
0841 E	2.02	5500	5.33				4.64		
0841 H	2.06	6000		4.78					
0842 C	3.35	3500				9.37			
0842 E	3.42	6000	9.72				8.41		
0842 G	3.53	5500		9.56				7.99	
0842 J	3.56	5500			7.75				7.75
0843 E	4.7	3000					11.7		
0843 G	4.8	5000		13.2				10.9	
0843 K	4.9	5000			9.66				9.66
0844 E	5.76	2500					14.1		
0844 G	5.88	4500		16.1				13.3	
0844 J	6	3500			12.9				12.9
1081 E	4.7	3000					10.9		
1081 G	4.75	5000		11.7				10.2	
1081 K	4.9	5000			9.22				9.22
1082 E	8.34	2000					18.5		
1082 G	8.43	3000		21.5				18.9	
1082 K	8.6	6000			16.9				16.9
1082 M	8.6	4000							16.7
1083 G	11.4	2500						25.8	
1083 K	11.6	4500			22.9				22.9
1083 M	11.4	3000							22.1
1083 P	11.4	5000							22.2
1084 G	14.3	2000					31.7		
1084 K	14.4	2000			28.1				28.1
1084 L	14.1	4500							29.5
1084 N	14.1	4000							
1382 G	11,9	2000					25.6		
1382 K	12,2	4500			30.1				30.1



Servodrive type	Lexium 15 LP						Lexium 15 MP		
	With EMC filters integrated								
	200...240V/1-phase and 3-phase			208...480V/3-phase			208...480V/3-phase		
LXM15L						LXM15M			
BDH...	Mo (1)	Nmax (2)	D13M3	D21M3	D28M3	U60N4	D10N4	D17N4	D28N4
	1382 M	12.2	6000						22.8
1382 P	12.3	4000							23.2
1383 G	16.5	1500					38.4		
1383 K	16.8	3500		31				31	
1383 M	17	4500							31.4
1383 N	17	5500							34.8
1384 K	20.8	2500					41.2		
1384 L	21	3500						41.9	
1384 P	20.4	5000							40.2
1385 K	24.8	2000					46.8		
1385 M	25	3000						47.6	
1385 N	24.3	4000							50.2
1882 K	29.7	1500				59.4			
1882 M	30	2000					59.8		
1882 P	29.4	3000							58.4
1883 M	42	1500						80.7	
1883 P	41.6	2500							79.4
1884 L	53	1500						108	
1884 P	52.5	2000							106

(1) Mo = Nominal torque in Nm

(2) N max = Maximum speed in rpm

0.61 = Value in Nm corresponding to the peak stall torque of servodrive-motor combination



To order a BSH motor, please use these references

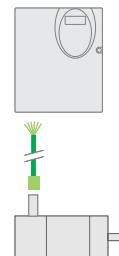
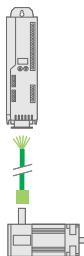
Reference to be completed:	BSH	●●●	●	●	●	●	●	●	A
Flange size	55 mm	055							
	70 mm	070							
	100 mm	100							
	140 mm	140							
	205 mm	205							
Length (Number of magnet stacks)	1		1						
	2		2						
	3		3						
	4		4						
Winding type	Lowest speed			M					
	Medium speed			P					
	Highest speed			T					
Shaft (1)	w/o key (smooth) : IP40 (IP65)				0				
	with key : IP40 (IP65)				1				
	w/o key : IP65				2				
	with key IP65				3				
Encoder	Absolute SinCos, single turn (128 periods per revolution)					1			
	Absolute SinCos multi turn (4096 revolutions)					2			
Brake	w/o brake						A		
	with brake						F		
Connection System	Straight connector							1	
	right angle turnable connector							2	
Mounting	International standard mounting								A

BDH servomotors

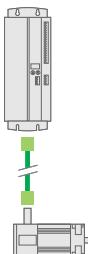
To order a BDH motor, please use these references

Reference to be completed:	BDH	●●●	●	●	●	●	●	●	●
Flange size	40 mm	040							
	58 mm	058							
	70 mm	070							
	84 mm	084							
	108 mm	108							
	138 mm	138							
	188 mm	188							
Length (Number of magnet stacks)	1		1						
	2		2						
	3		3						
	4		4						
	5		5						
Winding type				AàZ					
Shaft end	IP 54	Untapped			0				
		Keyed			1				
	IP 67	Untapped			2				
		Keyed			3				
Integrated sensor		Single turn, SinCos Hiperface® 4096 points/turn				1			
		Multiturn, SinCos Hiperface® 4096 points/turn, 4096 turns				2			
		2-pole resolver				5			
Holding brake	None						A		
	With						F		
Connection	Angled connectors that can be rotated through 90°								
Flange	International IEC standard						2		A
	NEMA								B

(1) Other possibilities to be detailed: see www.schneider-electric.com



Cable type	Power cable fitted with 1 connector (servomotor side)					
Servomotor type	BSH	055●● / 070●● / 100●● 1401P / 1402M / 1402P / 1403M / 1404M		1401T / 1403P / 1404P	2051M 1402T	2051P
	BDH		040●●/058●●/070●●/ 084●●/108●E/108●G/ 108●K/138●G/138●K			
Servodrive type		LXM05 All type	LXM15 L.....	LXM05 D42M3X / D57N4	LXM05 D57N4	LXM15 HC..N4X
Composition		4x1.5 mm ² + 2x1 mm ²		4x2.5 mm ² + 2x1 mm ²	4x4 mm ² + 2x1 mm ²	
Reference	L = 3	VW3M5101R30	VW3M5101R30	VW3M5102R30	VW3M5103R30	
	L = 5	VW3M5101R50	VW3M5101R50	VW3M5102R50	VW3M5103R50	
	L = 10	VW3M5101R100	VW3M5101R100	VW3M5102R100	VW3M5103R100	
	L = 15	VW3M5101R150	VW3M5101R150	VW3M5102R150	VW3M5103R150	
	L = 20	VW3M5101R200	VW3M5101R200	VW3M5102R200	VW3M5103R200	
	L = 25	VW3M5101R250	VW3M5101R250	VW3M5102R250	VW3M5103R250	
	L = 50	VW3M5101R500	VW3M5101R500	VW3M5102R500	VW3M5103R500	
	L = 75	VW3M5101R750	–	VW3M5102R750	VW3M5103R750	



Cable type	Power cable fitted with 2 connectors					
Servomotor type	BSH	1003P / 1004● / 1401M / 1401P / 1402M / 1402P / 1403M / 1404M	1401T / 1403P / 1404P	1402T / 2051M / 2051P		2052M / 2052P / 2053M / 2053P
	BDH	084●● / 108●K / 138●K / 188●K ;	108●L / 108●M / 138●L / 138●M / 188●L / 188●M		108●N / 108●P / 138●N / 138●P / 188●P	
Servodrive type		LXM15 MD..N4				LXM15 HC..N4X
Composition		4x1.5 mm ² + 2x1 mm ²	4x2.5 mm ² + 2x1 mm ²	4x4 mm ² + 2x1 mm ²	4x4 mm ² + 2x1 mm ²	4x10 mm ² + 2x1 mm ²
Reference	L = 3	VW3M5201R30	VW3M5202R30	VW3M5203R30	VW3M5213R30	–
	L = 5	VW3M5201R50	VW3M5202R50	VW3M5203R50	VW3M5213R50	–
	L = 10	VW3M5201R100	VW3M5202R100	VW3M5203R100	VW3M5213R100	VW3M5304R100
	L = 15	VW3M5201R150	VW3M5202R150	VW3M5203R150	VW3M5213R150	–
	L = 20	VW3M5201R200	VW3M5202R200	VW3M5203R200	VW3M5213R200	VW3M5304R200
	L = 25	VW3M5201R250	VW3M5202R250	VW3M5203R250	VW3M5213R250	–
	L = 50	VW3M5201R500	VW3M5202R500	VW3M5203R500	VW3M5213R500	VW3M5304R500
	L = 75	VW3M5201R750	VW3M5202R750	VW3M5203R750	VW3M5213R750	–
	L = 100	–	–	–	–	VW3M5304R1000



Cable type		Encoder cable SinCos Hiperface fitted with 2 connectors	Resolver cable fitted with 2 connectors
Servomotor type	BSH	All type	All type
	BDH	–	All type
Servodrive type		LXM05 All type	LXM15 All type
Composition		5x(2x2.5 mm ²) + 2x0.5 mm ²	5x(2x0.25 mm ²) + 2x0.5 mm ²
Reference	L = 3	VW3M8101R30	VW3M8301R30
	L = 5	VW3M8101R50	VW3M8301R50
	L = 10	VW3M8101R100	VW3M8301R100
	L = 15	VW3M8101R150	VW3M8301R150
	L = 20	VW3M8101R200	VW3M8301R200
	L = 25	VW3M8101R250	VW3M8301R250
	L = 50	VW3M8101R500	VW3M8301R500
	L = 75	VW3M8101R750	VW3M8301R750

Connection elements

Connection type		Power cable	Control cable SinCos Hiperface
Servomotor type	BSH	All type	
Servodrive type		LXM05 All type	
Composition		4x1.5 mm ² + 2x1 mm ²	4x2.5 mm ² + 2x1 mm ²
Reference	L = 25	VW3 M5 301 R250	VW3 M5 302 R250
	L = 50	VW3 M5 301 R500	VW3 M5 302 R500
	L = 100	VW3 M5 301 R1000	VW3 M5 302 R1000
			VW3 M8 221 R250
			VW3 M8 221 R500
			VW3 M8 221 R1000

Connection type		Connector BSH end	LXM 05 end
Power connection	cross-section	1.5 mm ²	VW3 M8 215
		2.5 mm ²	VW3 M8 216
		4 mm ²	VW3 M8 217
Control connection	VW3 M8 213		VW3 M8 214



Schneider Electric has selected GBX gearboxes made by Neugart to be used in association with the BSH and BDH servomotor ranges.

As their association with BSH or BDH servomotors has been fully qualified and they are very easy to mount, the gearboxes are simple to put into operation and risk free.

Available in 5 sizes (GBX 40... GBX 160), the planetary gearboxes are offered in 12 gear ratios (3:1...40:1).

To order a GBX planetary gearbox, complete each reference with

Reference to be completed:			GBX	•••	•••	•••	•	•
Size (Junction box diameter)			40 mm	040				
			60 mm	060				
			80 mm	080				
			115 mm	120				
			160 mm	160				
Speed reduction ratio			3:1	003				
			4:1		004			
			5:1		005			
			8:1		008			
			9:1		009			
			12:1		012			
			15:1		015			
			16:1		016			
			20:1		020			
			25:1		025			
			32:1		032			
			40:1		040			
Servomotor	Associated BDH	Type	BDH 040				040	
			BDH 058				058	
			BDH 070				070	
			BDH 084				084	
			BDH 108				108	
			BDH 138				138	
Associated BSH	Type	BSH 055					055	
		BSH 070					070	
		BSH 100					100	
		BSH 140					140	
		BSH 205					(1)	
	Model	BSH ou BDH •••1					1	
		BSH ou BDH •••2					2	
		BSH ou BDH •••3					3	
		BSH ou BDH •••4					4	
		BDH •••5					5	
Servomotor adaptation		BDH						D
		BSH						F

(1) Consult your Schneider Electric agency

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Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.

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