

Regulator-model	631	635	637	637+	637f
Dimensions:	small	small	big	big	big
Volume thin	2.300 cm <sup>3</sup>	3.100 cm <sup>3</sup>	5.500 cm <sup>3</sup>	5.500 cm <sup>3</sup>	5.500 cm <sup>3</sup>
Volume thin, plug-in		(1.000 cm <sup>3</sup> )	(1.800 cm <sup>3</sup> )	(1.800 cm <sup>3</sup> )	(1.800 cm <sup>3</sup> )
Volume wide		3.600 cm <sup>3</sup>	8.900 cm <sup>3</sup>	8.900 cm <sup>3</sup>	8.900 cm <sup>3</sup>
Volume wide, plug-in		(1.500 cm <sup>3</sup> )	(3.600 cm <sup>3</sup> )	(3.600 cm <sup>3</sup> )	(3.600 cm <sup>3</sup> )
Deep of cabinet:	210 mm	300 mm	(350)400 mm	(350)400 mm	(350)400 mm
Performance:	Compact	Compact/Rack	Compact/Rack	Compact/Rack	Compact/Rack
Rated Currents:	1 / 2 / 4 / 6 A	1 / 2,5 / 5 / 6,5 A	2 / 4 / 6 / 10 A	2 / 4 / 6 / 10 A	2 / 4 / 6 / 10 A
	thin	10 A	16 / 22 / 30 A	16 / 22 / 30 A	16 / 22 / 30 A
	wide				
Maximum Currents: (5 sec)	200 %	200 % except 6.5 A	200 %	200 %	200 %
Internal brake resistor: (Main Power)	8 W	30 W	30 W (2 – 10 A) 0 W. (16 - 30 A)	30 W (2 – 10 A) 0 W (16 - 30 A)	30 W (2 – 10 A) 0 W (16 - 30 A)
External brake resistor: (Main Power)	< 100 W	< 100W	< 560 W	< 560 W	< 560 W
Supply:	- Power - 24 V DC	1~ 230 V AC internal	1/3 ~ 20-230 V AC external	1/3~ 20-460 V AC external	1/3~ 20-460 VAC external
Inputs:	- Digital - Analog - optional. dig.	4 1 none	8 2 5	8 2 5 and/or 14**	8 2 5 and/or 14**
Outputs:	- Digital - Analog - optional. dig.	2 none none	5 2 2	5 2 2 and/or 10**	5 2 2 and/or 10**
Measuring sockets: - An.	none	2	2	none	none
Programming-Key:	No	Yes	Yes	No	No
Interfaces:	Service Bus-serial	RS 232 CAN-Bus CANopen 301 CANopen 402	RS 232 None	RS 232 None	RS 232 None
Interfaces (always optional)	Bus:	None	RS232/422/485 CAN-Bus CANopen 301 CANopen 402 DeviceNet Interbus S Profibus DP SUCOnet K	RS232/422/485 CAN-Bus CANopen 301 CANopen 402 DeviceNet Interbus S Profibus DP SUCOnet K	RS232/422/485 CAN-Bus CANopen 301 CANopen 402 DeviceNet Interbus S Profibus DP SUCOnet K
	2. Bus:	None	None	None	<b>CAN-BUS</b> internal
EN 954-1 cat.3 Safety option module	None	None	None	None	<b>RP_SBT</b>
Sensorsystems: (Feedback)	Resolver	Resolver	Resolver	Resolver Incr. Encoder Absolute Encoder HIPERFACE	Resolver Incr. Encoder Absolute Encoder HIPERFACE Sin/Cos 1Vss
Plugs:	Western COM SUB D Resolver Klemme I/O+P.	LEMO COM SUB D I/O+Resolver Klemme Power	LEMO COM SUB D I/O+Resolver Klemme Power	Western COM SUB D I/O+Feedback Klemme Power	Western COM SUB D I/O+Feedback Klemme Power
Integrated EMC-Filter:	Yes	No	No	No	No
Resolution of Resolver	12/14 Bit	12/14 Bit	12/14 Bit	16 Bit	16 Bit
Max. internal Resolution:	16384 Incr/R at 4.000 rpm	16384 Incr/R at 4.000 rpm	16384 Incr/R at 4.000 rpm	65536 Incr/R at 12.000 rpm	65536 Incr/R at 12.000 rpm
Minimal Speed: (resolver)	4 rpm	4 rpm	4 rpm	1 rpm	1 rpm
Resolution of analog Input	12 Bit	12 Bit	12 Bit	14 Bit	14 Bit
PWM - frequency	4,75 KHz	9,5 KHz	4,75 KHz	4,75 KHz	4,75 KHz
Cycle times:	Current analog input speed position BIAS	210 µs 210 µs 210 µs 1880 µs 1880 µs	210 µs 210 µs 210 µs 1880 µs 1880 µs	210 µs 210 µs 210 µs 1880 µs 840 µs	105 µs 105 µs 105 µs 105 µs 105 µs 840 µs
Microprocessor	20 MHz	20 MHz	20 MHz	25 MHz	<b>40 MHz</b>

\* = EA5 / \*\* = EAE