Series DRWB drives
for the control of electric actuation

Drives for Brushless motors,
sizes in power classes 100, 400, 750, 1000 W

» Completely digital drives

» PLC function programmable
with the Camozzi QSet
configuration software

» Control of speed, position
and torque (torque only
for Series DRWB)

» 64 positions programmable
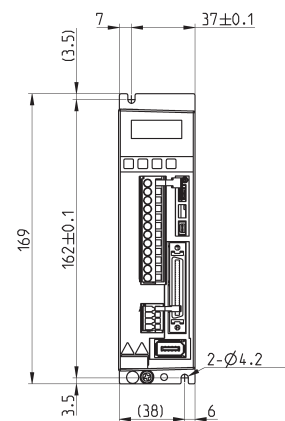through the QSet

» Self-compensation of errors

**The Camozzi drives Series DRWB have
been designed to control the movement of
the Camozzi electromechanical actuators
(Series 5E and Series 6E).**

The servo drives DRWB, compact and
especially optimized for the brushless
Camozzi motors, are completely digital
and available in the power classes 100,
400, 750, 1000 W. Equipped with vector
mode and the function of Autotuning
and containment of vibrations, they are
made in such a way to easily perform
replacements and to have a two-line
alphanumeric display with 4 control keys
on the servo drive.
A digital pulse interface allows control of
the direction, position, speed and torque.
It is possible to control the drives with
analogic signals.

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

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GENERAL CHARACTERISTICS
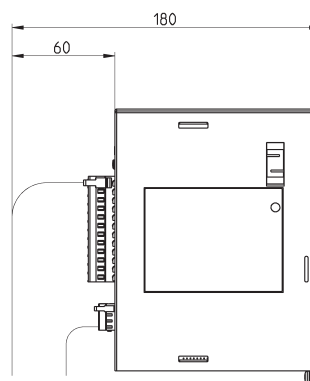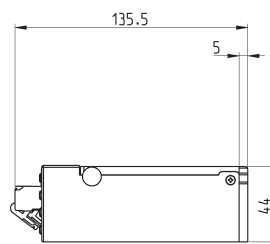
Mod. DRWB-W01-2-D-E-A, DRWB-W04-2-D-E-A, DRWB-W07-2-D-E-A, DRWB-W10-2-D-E-A	
Power	100 W (Mod. DRWB-W01-2-D-E-A) 400 W (Mod. DRWB-W04-2-D-E-A) 750 W (Mod. DRWB-W07-2-D-E-A) 1000 W (Mod. DRWB-W10-2-D-E-A)
Electrical supply	200 ÷ 240 V AC (± 10%) single or three phase 50 ÷ 60 Hz (± 5%)
Number of phases	1
Maximum current	1.5 A (Mod. DRWB-W01-2-D-E-A) 4.1 A (Mod. DRWB-W04-2-D-E-A) 7.5 A (Mod. DRWB-W07-2-D-E-A, Mod. DRWB-W10-2-D-E-A)
Logic supply	200 ÷ 240 V AC (± 10 %) 50 ÷ 60 Hz (± 5 %) single phase
Maximum logic current	0.5 A max.
OUTPUT CURRENT	
Continuous current (effective)	0.9 A (Mod. DRWB-W01-2-D-E-A) 2.5 A (Mod. DRWB-W04-2-D-E-A) 5.1 A (Mod. DRWB-W07-2-D-E-A, Mod. DRWB-W10-2-D-E-A)
Peak current (effective)	2.7 A (Mod. DRWB-W01-2-D-E-A) 7.5 A (Mod. DRWB-W04-2-D-E-A) 15.3 A (Mod. DRWB-W07-2-D-E-A, Mod. DRWB-W10-2-D-E-A)
Maximum duration of peak current	1 second
Type of control	IGBT PWM vector control
Controller sampling rate	Current, speed and position: 15 kHz
Motor types supported	AC servo motors
Status of LED	Red: Error Green: Ready
OPERATING MODES	
Encoder interface	Operating voltage + 5 VDC ± 5 % @400 mA
Communication interface	USB 2.0
Parameterisable I/O interface	Digital Inputs [I1..I9], (single-end, optocoupler) Digital Outputs [O1..O4], (optocoupler) BRAKE Output [CN2_BRK], max. 1 A DC
Feedback	External transducer Activation threshold + HV> 370 V DC Activation threshold + HV< 360 V DC Tolerance ± 5 %
Monitoring functions	Short circuit, overvoltage (> 390 V DC ± 5 %), undervoltage (< 60 V DC); position error, encoder error, motor phase monitoring, overtemperature D2 (IGBT > 90 °C ± 1°C), motor overtemperature
Autotuning	with automatic mass inertia calculation
VSF (vibration suppression)	01 Hz ÷ 200 Hz
Other functions	Friction compensation, gear play compensation
Ambient conditions	Operating temperature 0°C ÷ 40°C (above 55°C only with air conditioning) Storage temperature -20°C ÷ 65°C UAir humidity 20% ÷ 85% (non-condensing) Operating altitude < 1000 m above sea level Vibration 5.88 m/s (10 Hz ÷ 60 Hz) Protection class IP20

CODING EXAMPLE

DRWB	-	W01	-	2	-	D	-	E	-	A

DRWB	SERIES
W01	SIZE W: W01 = 100 W W04 = 400 W W07 = 750 W W10 = 1000 W
2	SUPPLY: 2 = 220 V AC
D	COMMUNICATION: D = Digital I/O and Analog
E	FEEDBACK: E = incremental encoder 13 bit
A	VERSIONS: A = Standard

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▌ Drive Mod. DRWB-W01-2-D-E-A

Drive for the Camozzi Brushless motors

135.5   5   44

180   60

7   37±0.1   (3.5)   169   162±0.1   3.5   2-Ø4.2   (38)   6

Mod.	Power	Supply	Encoder
DRWB-W01-2-D-E-A	100 W	230 V AC	13 bit

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CAMOZZI
Automation

Drive Mod. DRWB-W04-2-D-E-A

Drive for the Camozzi Brushless motors
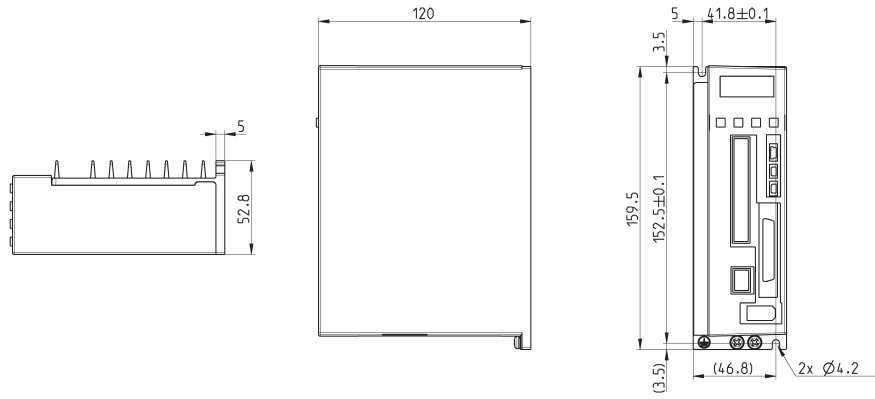
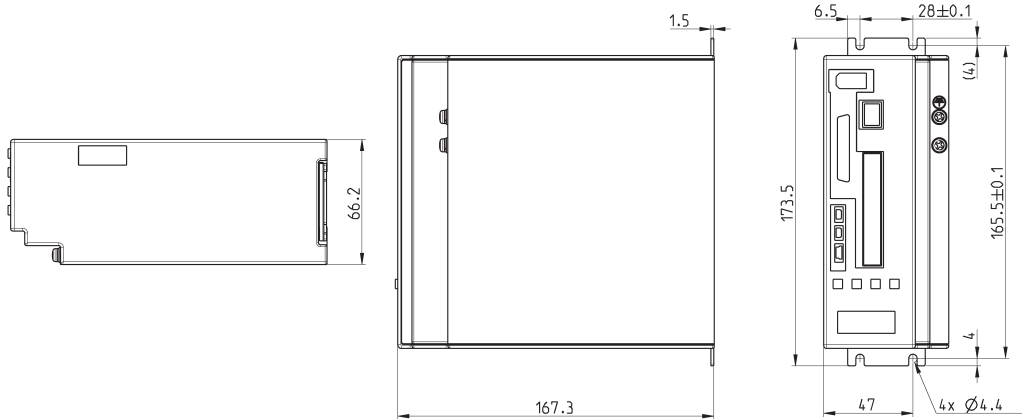| Mod.	Power	Supply	Encoder
DRWB-W04-2-D-E-A	400 W	230 V AC	13 bit

Drives Mod. DRWB-W07-2-D-E-A and Mod. DRWB-W10-2-D-E-A

Drives for the Camozzi Brushless motors

| Mod.	Power	Supply	Encoder
DRWB-W07-2-D-E-A	750 W	230 V AC	13 bit
DRWB-W10-2-D-E-A	1000 W	230 V AC	13 bit

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Cables for Brushless (MTB) motors, 100-400-750 W
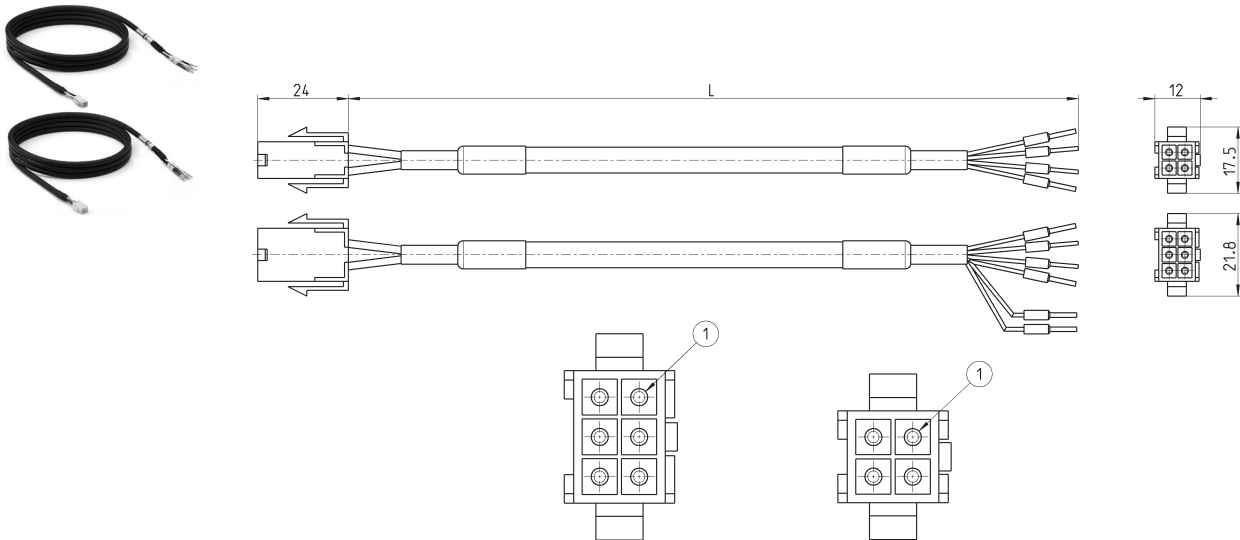
Mod.	Brake	Pins	L = cable (m)
EC-200421-B300	-	4	3
EC-200421-B500	-	4	5
EC-200421-BA00	-	4	10
EC-210621-B300		6	3
EC-210621-B500		6	5
EC-210621-BA00		6	10

Cables for Brushless (MTB) motors, 100-400-750 W IP65
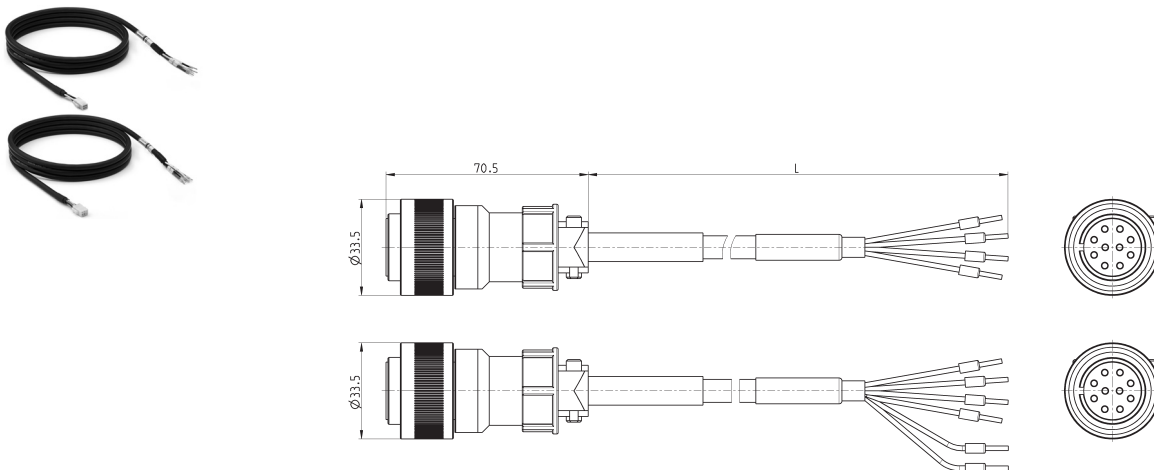
Mod.	Brake	Pins	L = cable (m)
EC-3004P1-B300	-	4	3
EC-3004P1-B500	-	4	5
EC-3004P1-BA00	-	4	10
EC-3106P1-B300		6	3
EC-3106P1-B500		6	5
EC-3106P1-BA00		6	10

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Cables for Brushless (MTB) motor, 1000W IP65
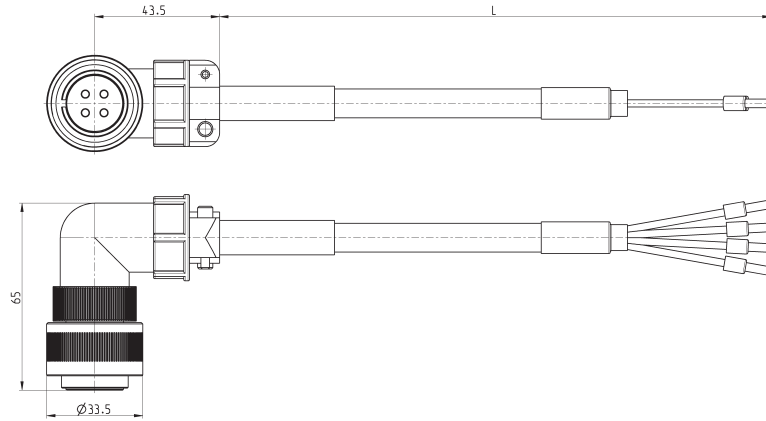
Mod.	Brake	Pins	L = cable (m)
EC-4704P1-B300	-	4	3
EC-4704P1-B500	-	4	5
EC-4704P1-BA00	-	4	10

Encoder cables for Brushless (MTB) motors, 100-400-750 W
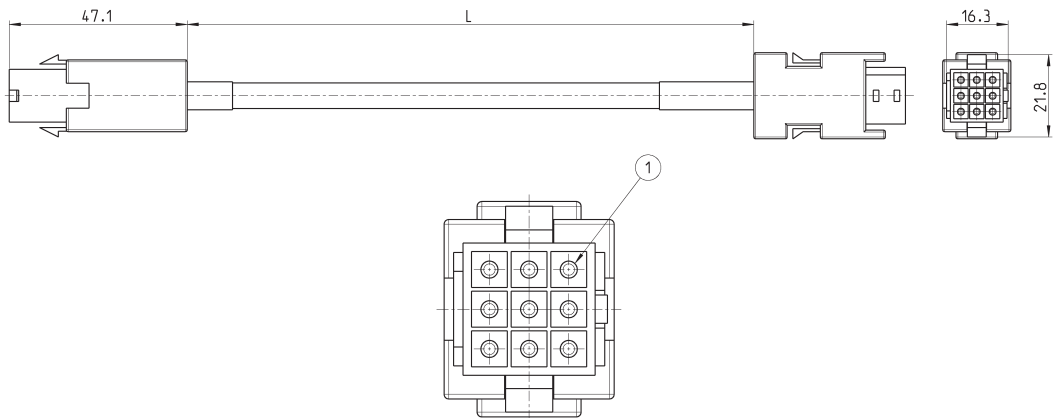
Mod.	Pins	L = cable (m)
EC-220923-B300	9	3
EC-220923-B500	9	5
EC-220923-BA00	9	10

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Encoder cables for Brushless (MTB) motors, 100-400-750 W IP65

Mod.	Pins	L = cable (m)
EC-3209P3-B300	9	3
EC-3209P3-B500	9	5
EC-3209P3-BA00	9	10

Encoder cables for Brushless (MTB) motor, 1000W IP65
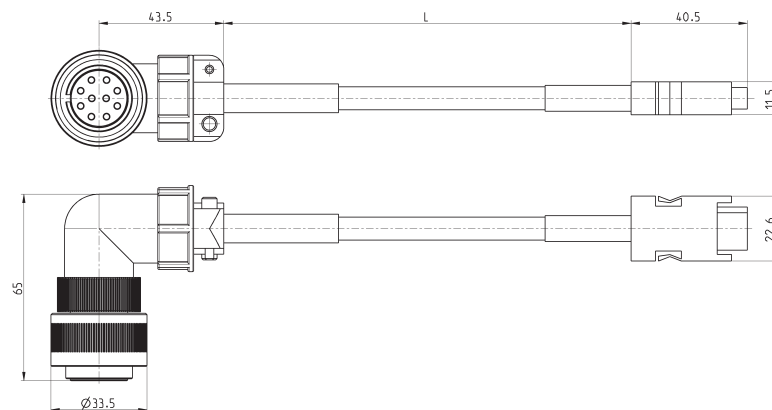
Mod.	Pins	L = cable (m)
EC-4809P3-B300	9	3
EC-4809P3-B500	9	5
EC-4809P3-BA00	9	10

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Brake cables for Brushless (MTB) motor, size 1000W IP65
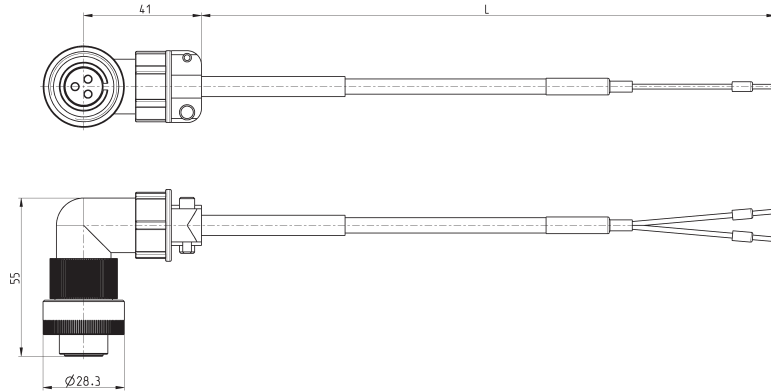
Mod.	Pins	L = cable (m)
EC-4902P1-B300	2	3
EC-4902P1-B500	2	5
EC-4902P1-BA00	2	10

Brake resistance for Brushless (MTB) motor
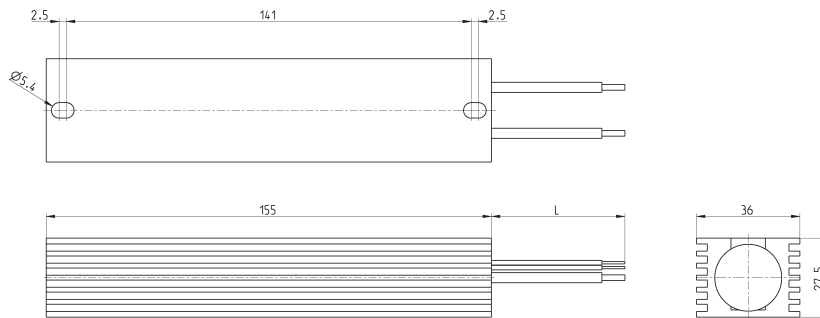
Mod.	Power
EC-212022	300 W

Cables for DRWB drive I/O
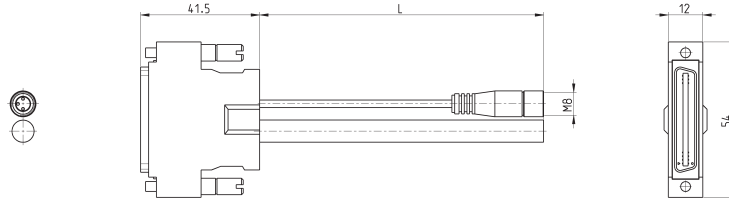
Mod.	Pins	L = cable (m)
G14W-1	50	1
G14W-3	50	3
G14W-5	50	5

USB to Mini USB cable Mod. G11W-G13W-2

For the hardware configuration
of the Camozzi products
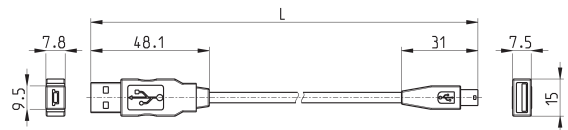
Mod.	description	connections	material for outer sheath	cable length "L" (m)
G11W-G13W-2	black shielded cable 28 AWG	standard USB to Mini USB	PVC	2

Products designed for industrial applications.
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