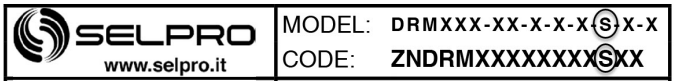
10. Technical specifications

10.1 Physical properties

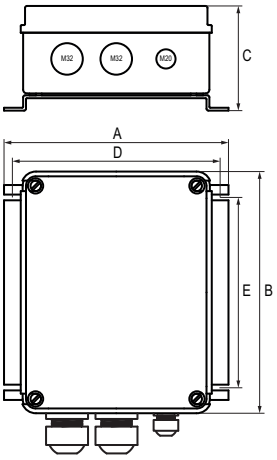
10.1.1 Dimensions and weight of IP20 and IP50 models with low bottom (code S)

***NOTICE**: provide space around the controller as indicated in "Guarantee cooling" on page 17.*

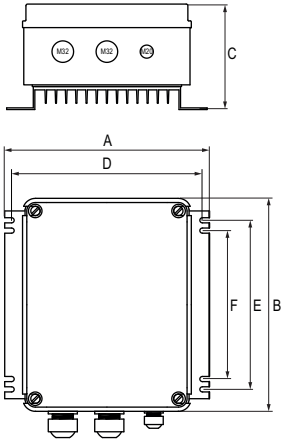


Model	A (mm)	B	C	D	E	F	Weight (kg)
DRM 308	235	255	114	220	200	-	2.5
DRM 312	230	255	128	220	200	170	2.9
DRM 320 (1/4 outputs)	230	255	158	220	200	170	3.9
DRM 320 (2/8 outputs)	236	350	203	174	320	-	5.4
DRM 328	236	350	203	174	320	-	5.6

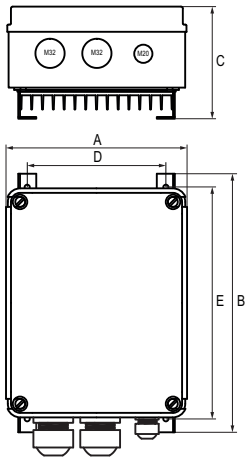
DRM 308



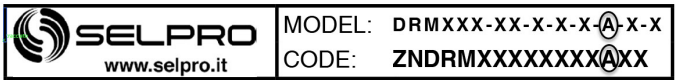
DRM 312, 320 (1/4 outputs)



DRM 320 (2/8 outputs), 328

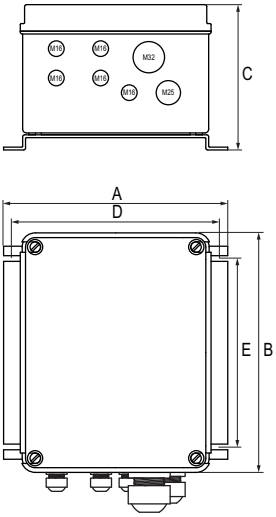


10.1.2 Dimensions and weight of IP20 and IP50 models with high bottom (code A)

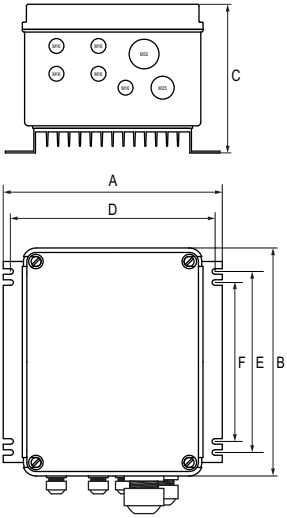


Model	A (mm)	B	C	D	E	F	Weight (kg)
DRM 308	235	255	154	220	200	-	2.7
DRM 312	230	255	168	220	200	170	3.1
DRM 320 (1/4 outputs)	230	255	198	220	200	170	4.1
DRM 320 (2/8 outputs)	236	350	253	174	320	-	5.6
DRM 328	236	350	253	174	320	-	5.8

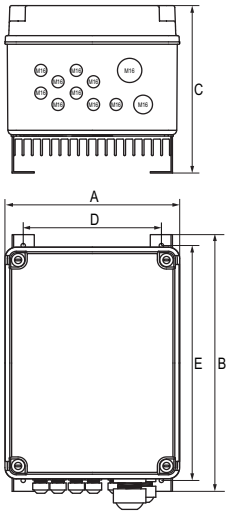
DRM 308



DRM 312, 320 (1/4 outputs)



DRM 320 (2/8 outputs), 328



10.1.3 Case and cable clamps

Materials	GW-PLAST 75 maximum temperature 60 °C (ball heat sealing 85 °C) and aluminum.
Screw plugs	TPN series with max 1.8 Nm torque (CEI 23-58)
Protection rating	IP55 or IP20 (for model with square container)
Pollution	High Pollution
Fire resistance	Category D
M16, M20, M32 cable clamps	IP67 protection, class V2, polyamide PA6
M25 cable clamps	IP67 protection, class V2, polyamide PA6

10.1.4 Storage and installation environmental conditions

Working temperature	from -20 to +50 °C
Storage temperature	from -25 to + 60 °C
Humidity	RH < 85% non condensing
Vibrations	Under 1 G (9.8 m/s2)

10.2 Electrical specifications

10.2.1 Applications

High-speed, three-phase, asynchronous motors with adjustable voltage applied to axial or centrifugal fans.

10.2.2 Specifications

Rated voltage	400 V ac ± 20% three-phase On request 230 V ac / 480 V ac
Frequency	50/60 Hz automatically recognized
Minimum current	0.2 A
Over voltage protection	Surge category II (4 KV), EN 61000-4-5
Auto restart	The controller automatically restarts as soon as the alarm condition is cleared.
Transducer power supply	20 Vdc - 20 mA, not stabilized. Protected against short circuiting.
Potentiometer and sensor power supply	10 Vdc/5 Vdc (automatic switching), stabilized with protection.

10.2.3 Rated current and power

Model	RMS rated current Ampere (In)	Three-phase output	Environmental temperature downgrade > 50 °C (A/°C)	Rated power nominal kVA @ 400 V ac	Dissipated power command circuits	Power dissipated in the area
DRM308	8	Single, x4	0.6	5.5	10 W	48 W @ 12 A
DRM312	12	Single, x4	0.6	8.0	10 W	72 W @ 12 A
DRM320	20	Single, x4, double, x8	1	13.0	10 W	120 W @ 20 A
DRM328	28	Double, x8	1.4	17.0	10 W	168 W @ 28 A

10.2.4 Nominal current declassified due to height of installation

Installation height (m)	0	1000	1500	2000	2500	3000	3500
Rated current reduction (%)	100	95	90	85	80	75	70

10.2.5 Electric insulation

Case	Class I (use of grounded protection conductor)
Command circuits	4000 V ac between command input and mains voltage parts

10.2.6 Nominal cable sections

	Signal (min–max values)		Power output (min–max values)		Power supply (min–max values)	
Model	**mm2**	**AWG Cu**	**mm2**	**AWG Cu**	**mm2**	**AWG Cu**
DRM308, DRM312, DRM320 (single output)	0.5–1.5	20–16	1.0–2.5	17–13	1.0–2.5	17–13
DRM308, DRM312, DRM320 (output x4)	0.5–1.5	20–16	1.0–2.5	17–13	1.0–2.5	17–13
DRM320 (double output)	0.5–1.5	20–16	1.5–4.0	15–11	1.5–4.0	15–11
DRM320 (output x8)	0.5–1.5	20–16	1.0–2.5	17–13	1.5–4.0	15–11
DRM328 (double output)	0.5–1.5	20–16	1.5–4.0	15–11	1.5–4.0	15–11
DRM328 (output x8)	0.5–1.5	20–16	1.0–2.5	17–13	1.5–4.0	15–11

10.3 Maintenance

10.3.1 Clean Up

Clean the container and/or dissipator with a dry rag.

10.3.2 Responsibility for disposal



As indicated in European Directive 2012/19/EU, do not dispose of the product with other unsorted urban waste.

The owner is responsible for the disposal of these products and of the other electric and electronic equipment using the specific collection organizations indicated by the government or local public agencies.

Correct disposal and recycling help to prevent potentially negative consequences to the environment and health of people.

For more detailed information about disposal, contact the responsible public authorities, the waste disposal service, or the representative from which the product was purchased.

10.4 Conformity

10.4.1 Declaration of conformity

The full text is available on the website www.selpro.it.

10.4.2 EC - Declaration of conformity

Directive	EC standard code	Version
EMC 2014/30/EU	EN IEC 61800-3	2018
	EN IEC 61000-6-2	2019
	EN 61000-6-3	2007 +A1:2011
	EN IEC 55014-1	2021
	EN IEC 55014-2	2021
Safety 2014/35/EU	EN 61800-5-1	2007 +A1:2017 +A11:2021
	EN 60335-1	2012 +A13:2017 +A2:2019
	EN 60730-1	2017
RoHS 2012/19/EU	EN 50581	2012

10.4.3 UK - Declaration of conformity

Subject	Name	Version
EMC	BS EN IEC 61800-3	2018
	BS EN IEC 61000-6-2	2019
	BS EN 61000-6-3	2007 +A1:2011
	BS EN IEC 55014-1	2021
	BS EN IEC 55014-2	2021
Safety	BS EN 61800-5-1	2007 +A1:2017 +A11:2021
	BS EN 60335-1	2012 +A13:2017 +A2:2019
	BS EN 60730-1	2017
RoHS	BS EN 50581	2012

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