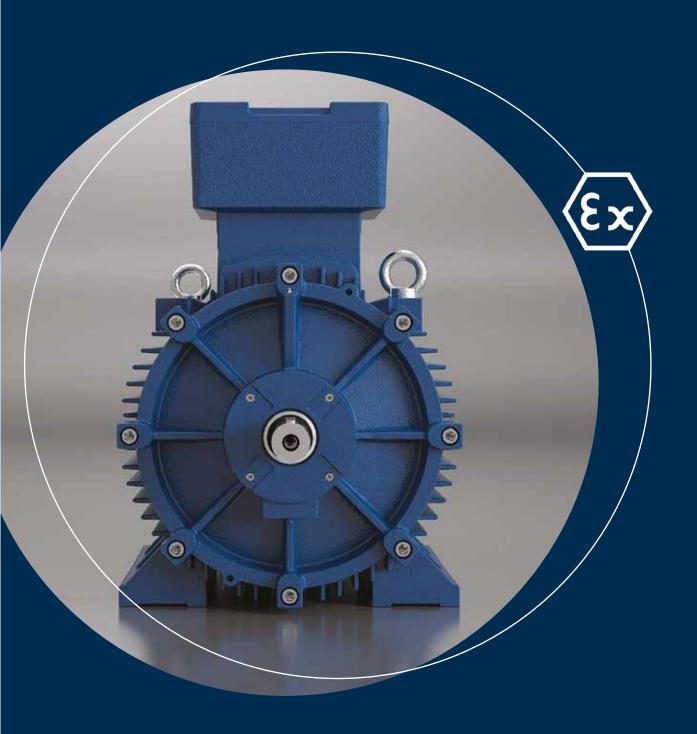
euromotori



Explosion proof motors **280-315L**

ATEX category II 2G, II 2GD; IEC Ex Ex db, Ex dbe, IIB, IIC, tb, IP66 (Z. 1-21) Power from 75 to 200 kW Reference Norms: IEC 60079-0, 1, 7, 31 IEC 60034, IEC 60072 - IE3 Efficiency class 100% Made in Italy

Explosion proof motors 280-315L

Euromotori is pleased to introduce the new motors frame size 280 and 315L, which are fully designed and manufactured in Italy.

Great attention to detail has been paid and innovative solutions like the newly designed terminal box rotation mode, make them products that are suitable for heavy use and when maximum reliability is needed.

The cutting edge basic features, and the long list of variants available, are able to satisfy the most demanding specifications.

TECHNICAL FEATURES

- > High efficiency TEFC three-phase squirrel cage asynchronous motors.
- > Frame and terminal box IP55.
- > High volume terminal box, which allows easy connection of large cables (threaded holes up to 2xM90) and provides more room for auxiliaries.
- > Dimensions compliant with IEC 60072 standard.
- > Power supply: 400V/50Hz
- > Class F insulation.
- > PTC thermistors.
- > Anti-condensation heaters.
- > Terminal box can be rotated by 90° in 4 different positions.
- > Exclusive design thought to avoid cables pinching while being rotated.
- > Cable entries sizes marked with dedicated plates.
- > Internal anti-rust treatment and external epoxy polyester paint coating plus stainless steel nameplate and fasteners guarantee a proper corrosion protection.
- > Robust construction: frame, terminal box, end shields and flanges made of cast iron; thick sheet steel fan cover; solid casted feet.
- > Standard motors equipped with radial deep groove open ball bearings with greasing nipples.
- > Low friction dust seals.
- > Roller bearings for heavy loads.
- > Low maintenance requirements.
- > Groups IIB, IIC, IIIC.
- > Temperature Class T3, T4, T150°C, T135°C.
- > Protection IP55, IP56, IP65, IP66.
- > Power from 75 to 200 kW.
- > Three phase 1 or 2 speeds.
- > Pole 2, 4, 6 8 pole available in IE1.
- > Self-ventilated & with forced ventilation.









MECHANICAL VARIANTS

Special flanges and shafts.

Low temperature versions (up to -60°C).

Locked bearings, roller bearings or special bearings; isolated bearings. SPM probe (vibrations measurement).

Double-ended shafts.

Condensation drain valves.

Grade B balancing.

Rain cap or sun shield.

Water protection disc.

Low noise fan.

Execution without ventilation (IC410), for on deck installation.

Auxiliary terminal box.

ELECTRICAL VARIANTS

Special voltage and frequency.

Bimetallic thermal protection (NO, NC), thermistors (PTC), RTD sensors (PT100).

Three phase 2 speeds.

Other polarities (Dahlander and separate windings).

Motors for tropical climates, also for high temperatures.

Electrical special designs.

Class H insulation.

ACCESSORIES

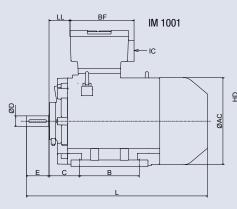
Suitable for frequency converter use and AC drives.

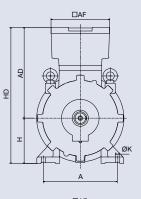
Forced ventilation (IC416).

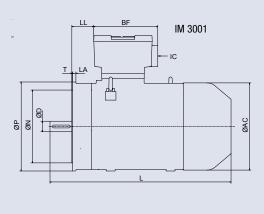
Encoders (100 – 10000 ppr).

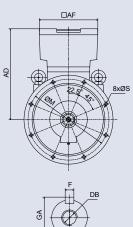
Bearing sensors.











OVERALL DIMENSIONS TABLE

Ту	ре	2p	Α	AA	AB	ØAC	AD	AF	В	BB	BF	С	ØD	DB	Е	F
280	S	2	457	140	537	539	562	362	368	476	396	190	65	- M20 -		18
		4,6,8											75		140	20
	М	2							410 51	E1.4			65			18
		4,6,8							419	419 514			75			20
045	S/M	2	508	150	597	619	602		40C/4E7	567		216	65		140	18
		4,6,8							406/457	567			80		170	22
315	1.A/I.D	2							457/508	C10			65		140	18
	LA/LB	4,6,8								618			80		170	22
Ту	pe	2p	GA	Н	НА	HD	ØK	LL	LA	L	IC	ØM	ØN	ØР	ØF	Т
Ту		2p 2	GA 69	Н	НА	HD	ØK	LL	LA		IC	ØM	ØN	ØP	ØF	Т
	pe S				НА					L 1120						
7y 280	S	2	69	H 280	НА	HD 842	ØK 24	LL 130	LA 20 -	1120		ØМ 500	ØN 450	ØP 550	ØF 19	T 5
		2 4,6,8	69 79,5													
	S	2 4,6,8 2	69 79,5 69		HA 40					1120						
280	S	2 4,6,8 2 4,6,8	69 79,5 69 79,5	280		842	24	130	20 -	1120		500	450	550	19	5
	S	2 4,6,8 2 4,6,8	69 79,5 69 79,5 69							1120 1180 1315	2xM63x1.5+1xM20x1.5					

SINGLE SPEED MOTORS NOMINAL DATA (3000, 1500, 1000 AND 750 1/MIN)

Cov	ries			D	Mass			
261	ies	Туре	Pole	Power	Speed	Current	Torque	IVIASS
IIB	IIC			(kW)	(1/min)	(A)	(Nm)	(kg)
		MAK280S-2 MAK280M-2	2	75 90	2971 2972	126 142	241 289	853 945
Ex db, Ex dbe, ATEX II 2G, ATEX II 2GD, IP65, T4	Ex db, Ex dbe, ATEX II 2G, ATEX II 2GD, IP65, T4	MAK280S-4 MAK280M-4	4	75 90	1483 1483	134 159	483 580	886 977
		MAK280S-6 MAK280M-6	6	45 55	984 984	87 106	437 534	856 948
		MAK280S-8 MAK280M-8	8	37 45	734 735	73 91	481 585	878 968
		MAK315S-2 MAK315M-2 MAK315LA-2 MAK315LB-2	2	110 132 160 200	2978 2981 2979 2981	180 214 258 321	353 423 513 641	1286 1392 1551 1657
		MAK315S-4 MAK315M-4 MAK315LA-4 MAK315LB-4	4	110 132 160 200	1484 1485 1485 1486	189 225 273 343	708 849 1029 1285	1343 1496 1654 1762
	Ex db, Ex d	MAK315S-6 MAK315M-6 MAK315LA-6 MAK315LB-6	6	75 90 110 132	992 992 992 992	136 160 202 242	722 866 1059 1271	1333 1455 1597 1673
		MAK315S-8 MAK315M-8 MAK315LA-8 MAK315LB-8	8	55 75 90 110	743 742 742 742	104 139 165 201	707 965 1158 1416	1324 1443 1585 1660

Every care has been taken to ensure the accuracy of the information contained in this publication. The company reserves the right to supply products that may slightly differ from those illustrated and described in this publication.

euromotori

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