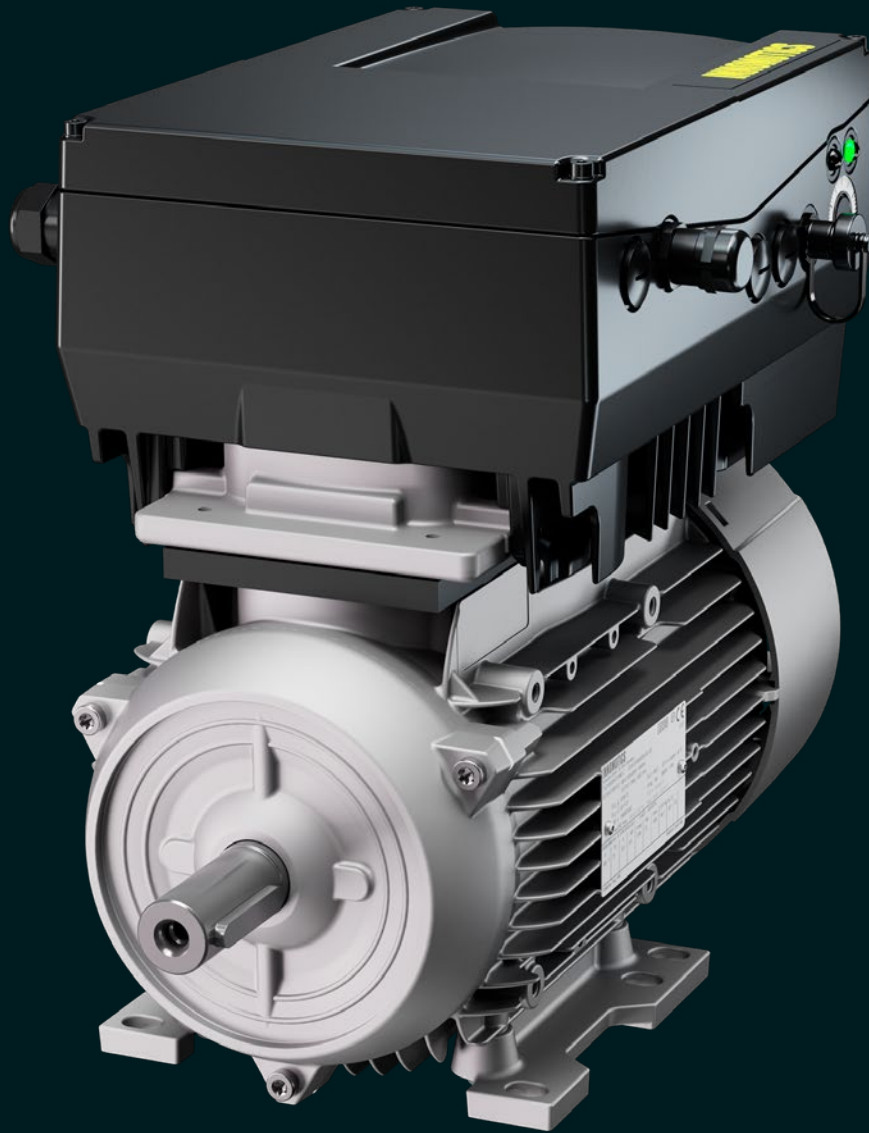


INNOMOTICS



Innomotics

Motor Drive Systems

Motor Mounted Line –
the dream team for the pump and fan market.

Experience the dream team.

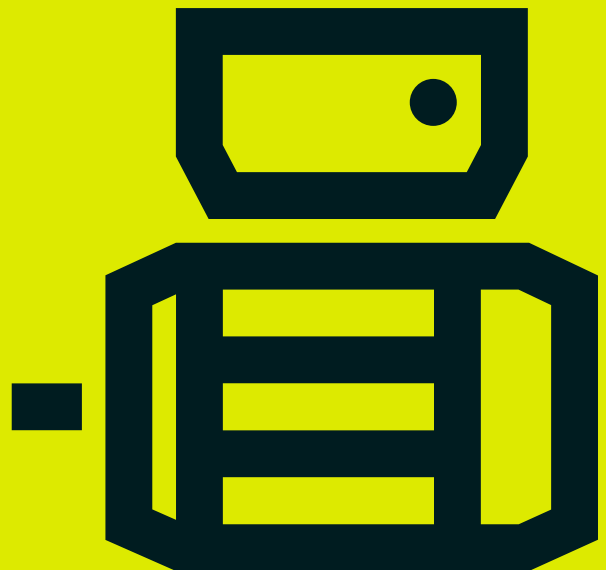
With the Innomotics Motor Drive Systems portfolio, you will receive a winning combination of a motor and a drive in a single product. Our Motor Mounted Line consists of an AC motor with a mounted variable speed drive, offering you perfectly aligned and optimized components for your applications.

Innomotics

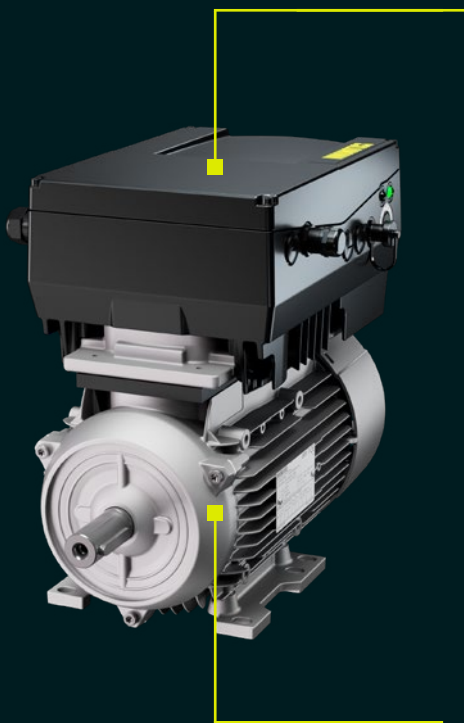
Motor Mounted Line

The compact all-in-one system.

- Compact and energy-efficient solution with IES5 system efficiency
- All-in-one system manufactured, tested, certified, and ordered by Innomotics
- Easily upgradable, direct-on-line motors in brownfield applications
- Installation possible without advanced commissioning skills
- Plug and play solution delivered preconfigured, no parametrization needed



Combining two perfect main components.



Mounted Drive

Delivering the highest reliability and availability.

- Compact solution, reduced weight, high power density
- Grid-friendly product with fewer losses and low leakage currents
- Pulse injection control method to maximize the motor torque performance
- Automatic motor identification
- All common fieldbuses supported

Permanent Magnet Motor

Future-proof, leading-edge IE5 motors.

- Outstanding IE5 energy efficiency
- High power density, at least one frame size smaller compared to an induction motor
- Very high power factor resulting in low current demand
- Lightweight aluminum housing
- High torque from low speeds, high overload, and high overspeed

Made for your industry and application.

Customizable to your needs, the Motor Mounted Line offers flexibility and reliability for your applications. It also allows for easy upgrades of brownfield installations.

Focus applications



Pumps



Compressors and vacuum pumps



Fans

Focus industries



Water and wastewater



Power generation



Chemicals



HVAC

Innomotics Motor Mounted Line at a glance.

Technical overview

Type of product	AC motor with mounted variable speed drive
Motor technology	Synchronous Permanent Magnet Motor*
System enclosure material	Aluminum
Rated power	0.37–22 kW
Motor frame size	71, 90, 132 mm*
Nominal speed	1500, 3000 rpm
Supply network voltage and frequency	400–480 V, 50 or 60 Hz
Motor temperature class	F/B (VFD)
Ambient temperature	–20...+40°C
Mounting arrangement	Horizontal (with drive on top) or vertical
Motor cooling	IC411, IC416, IC418
Drive cooling	Up to 7.5 kW passive cooling without fan, above 7.5 kW active cooling with fan
Degree of protection	IP55, others on request
Explosion protection	N/A
Motor efficiency class	IE5 according to IEC/TS 60034-30-2
Drive controller efficiency class	IE2 according to EN 61800-9-2
System efficiency class	IES5 according to IEC 61800-9-2
Certificates	CE*

*Further product variants to be released.

INNOMOTICS				IES5 					
Innomotics GmbH, DE-90441 Nürnberg								IC411	
1U210050EL521FB0-Z UD 2507/xxxxxxxx-001-001									
IEC/EN 61800-9-2 INPUT 400-480V 50/60Hz									
OUTPUT 9.5 Nm 3000 1/min									
 6205-2ZC3				Th.Cl. 155(F)		-20°C ≤ Tamb ≤ 40°C			
6004-2ZC3				12 kg 90L		IMB5 IP55			
3000 UNIREX-N3									
Nmax4500 1/min									
Motor data acc. IEC/EN 60034				3~MOT					
V	Hz	A	kW	cosφ	Nm	1/min	EFF/%	E-CL	
380 Y	150	5.3	3.00	0.95	9.5	3000	91.1	IE5	
Made in Czech Rep.									

Powerful. Flexible. Customizable.

With many variants and options, the Motor Mounted Line can be configured to match your needs and application.

Drive options for the Motor Mounted Line.

Communication interface

All drives are equipped with Modbus RTU as standard.
The following options can be added:

- CANopen ————— order code **T01**
- PROFIBUS ————— order code **T02**
- Ethernet module containing PROFINET/EtherCAT/Sercos III/Ethernet IP ————— order code **T03**

Housing and cover

In the standard version, the cover of the converter does not have any control options, but the following options are available:

- Potentiometer ————— order code **T20**
- Cover with foil keypad and potentiometer to change the speed, parameters, and start/stop commands (available only for drive size A and B, cannot be combined with T20) ————— order code **T21**
- Cover with integrated MMI (man-machine interface) with selectable status screens for parametrization ————— order code **T22**
- Ability of main switch to fully disconnect the power supply ————— order code **T25**
- Quickon connector for easy connection of power supply (available only for drive size A, B, and C*) ————— order code **T26**
- Harting connector HANQ4/2 industrial plug (available only for drive size A and B) ————— order code **T27**

Accessories

These equipment options for the drive are also available**:

- MMI handheld controller for commissioning, parametrization, and service purposes — order code **T51**
- Programming and diagnosis cable 2 m for PC, USB on M12 plug, RS485 ————— order code **T52**

*Further product variants to be released.

**More standard motor options available in the Innomotics Configurator.



Delivering performance.

Electrical performance data

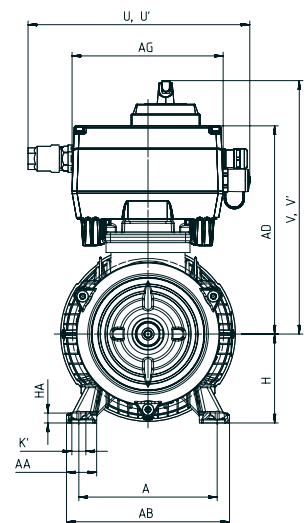
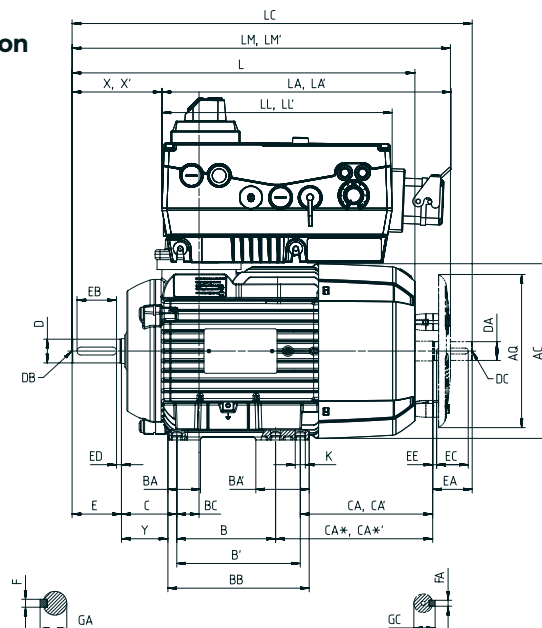
Rated power [kW]	Order Number	Rated torque [Nm]	Drive input current [A]	Motor rated frequency [Hz]	Max. mech speed [rpm]	Moment of inertia [kg·m²]	Inverter frame size	Motor frame size	System weight ¹⁾ [kg]	System efficiency class
Shaft height 71 mm										
1500 rpm										
0.37	1UZ1005-OCK32-1.B0	2.35	1.25	75	2250	0.00043	A	71 M	8.9	IES5
0.55	1UZ1005-OCK42-1.B0	3.50	1.65	75	2250	0.00068	A	71 M	10.0	IES5
0.75	1UZ1005-OCK52-1.B0	4.75	2.03	75	2250	0.00081	A	71 M	11.0	IES5
1.10	1UZ1005-OCK62-1.B0	7.00	2.58	75	2250	0.00110	A	71 M	12.0	IES5
3000 rpm										
0.55	1UZ1005-OCL32-1.B0	1.75	1.65	150	4500	0.00043	A	71 M	9.0	IES5
0.75	1UZ1005-OCL42-1.B0	2.40	2.03	150	4500	0.00043	A	71 M	9.0	IES5
1.10	1UZ1005-OCL52-1.B0	3.50	2.58	150	4500	0.00055	A	71 M	10.0	IES5
1.50	1UZ1005-OCL62-1.B0	4.75	3.11	150	4500	0.00068	A	71 M	10.0	IES5
Shaft height 90 mm										
1500 rpm										
1.50	1UZ1005-0EK42-1.B0	9.50	3.11	75	2250	0.00226	A	90 L	15.0	IES5
2.20	1UZ1005-0EK52-1.B0	14.00	4.12	75	2250	0.00328	A	90 L	18.0	IES5
3.00	1UZ1005-0EK62-1.B0	19.10	6.14	75	2250	0.00429	B	90 L	21.0	IES5
4.00	1UZ1005-0EK72-1.B0	25.50	7.53	75	2250	0.00485	B	90 L	24.0	IES5
3000 rpm										
2.20	1UZ1005-0EL42-1.B0	7.00	4.12	150	4500	0.00175	A	90 L	13.9	IES5
3.00	1UZ1005-0EL52-1.B0	9.50	6.14	150	4500	0.00226	B	90 L	16.0	IES5
4.00	1UZ1005-0EL62-1.B0	12.70	7.53	150	4500	0.00277	B	90 L	18.0	IES5
5.50	1UZ1005-0EL72-1.B0	17.50	9.76	150	4500	0.00328	B	90 L	19.0	IES5
Shaft height 132 mm										
1500 rpm										
5.50	1UZ1005-1CK02-1.B0	35.00	10.82	75	2250	0.02301	C	132 S	42.7	IES5
7.50	1UZ1005-1CK22-1.B0	47.50	13.64	75	2250	0.02836	C	132 M	47.7	IES5
11.00	1UZ1005-1CK32-1.B0	70.00	21.43	75	2250	0.03371	D	132 M	64.0	IES5
15.00	1UZ1005-1CK42-1.B0	95.00	26.99	75	2250	0.05005	D	132 M	79.0	IES5
3000 rpm										
11.00	1UZ1005-1CL22-1.B0	35.00	21.43	150	4500	0.01766	D	132 M	51.0	IES5
15.00	1UZ1005-1CL32-1.B0	47.50	26.99	150	3800	0.02301	D	132 M	55.0	IES5
18.50	1UZ1005-1CL42-1.B0	59.00	32.12	150	3800	0.02836	D	132 M	60.0	IES5
22.00	1UZ1005-1CL52-1.B0	70.00	37.40	150	3800	0.03371	D	132 M	64.0	IES5

Further options can be found in the Innomotics Configurator at configurator.innomotics.com

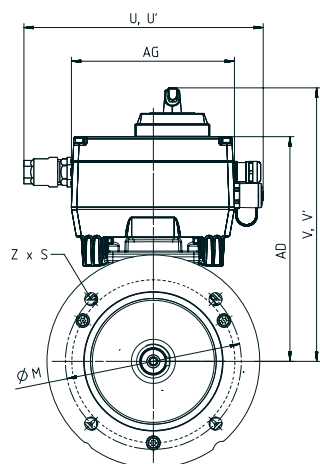
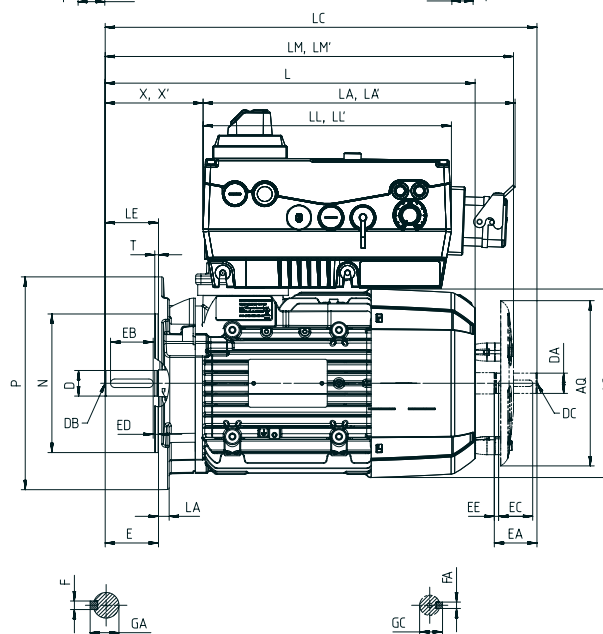
1) Without F70 (separate ventilation) and H00 (canopy)

Dimensions

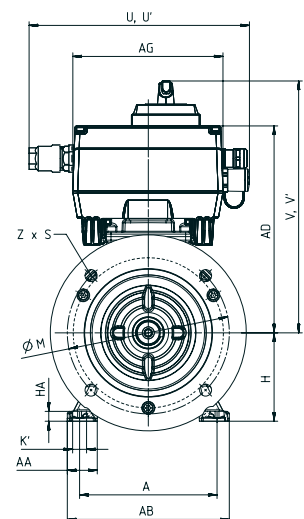
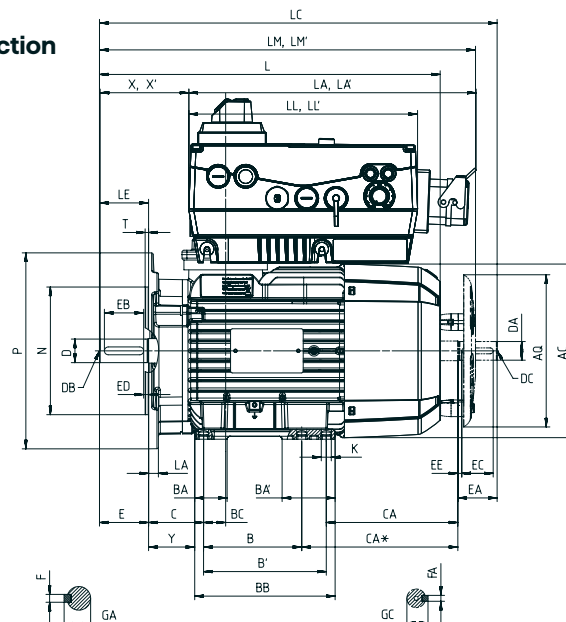
IMB3 type of construction



IMB5 and IMV1 type of construction



IMB35 type of construction



Dimensions

Rated power [kW]	Motor drive system type	A	AA	AB	AC	AD/ AD'	AG/ AG'	B	BA	BA'	BB	BC	C	CA	H	HA	Y	K	K'
[mm]																			
Shaft height 71 mm																			
1500 rpm																			
0.37	1UZ1005-0CK32-1.B0	112	30.5	132	145	190	153	90	27	-	106	18.5	45	75	71	7	40	7	10
0.55	1UZ1005-0CK42-1.B0	112	30.5	132	145	190	153	90	27	-	106	18.5	45	75	71	7	40	7	10
0.75	1UZ1005-0CK52-1.B0	112	30.5	132	145	190	153	90	27	-	106	18.5	45	75	71	7	40	7	10
1.10	1UZ1005-0CK62-1.B0	112	30.5	132	145	190	153	90	27	-	106	18.5	45	115	71	7	40	7	10
3000 rpm																			
0.55	1UZ1005-0CL32-1.B0	112	30.5	132	145	190	153	90	27	-	106	18.5	45	75	71	7	40	7	10
0.75	1UZ1005-0CL42-1.B0	112	30.5	132	145	190	153	90	27	-	106	18.5	45	75	71	7	40	7	10
1.10	1UZ1005-0CL52-1.B0	112	30.5	132	145	190	153	90	27	-	106	18.5	45	75	71	7	40	7	10
1.50	1UZ1005-0CL62-1.B0	112	30.5	132	145	190	153	90	27	-	106	18.5	45	75	71	7	40	7	10
Shaft height 90 mm																			
1500 rpm																			
1.5	1UZ1005-0EK42-1.B0	140	30.5	165	178	211	153	125	33	54	143	22.5	56	37	90	10	47	10	14
2.2	1UZ1005-0EK52-1.B0	140	30.5	165	178	211	153	125	33	54	143	22.5	56	37	90	10	47	10	14
3.0	1UZ1005-0EK62-1.B0	140	30.5	165	178	224	189	125	33	54	143	22.5	56	37	90	10	47	10	14
4.0	1UZ1005-0EK72-1.B0	140	30.5	165	178	224	189	125	33	54	143	22.5	56	77	90	10	47	10	14
3000 rpm																			
2.2	1UZ1005-0EL42-1.B0	140	30.5	165	178	211	153	125	33	54	143	22.5	56	37	90	10	47	10	14
3.0	1UZ1005-0EL52-1.B0	140	30.5	165	178	224	189	125	33	54	143	22.5	56	37	90	10	47	10	14
4.0	1UZ1005-0EL62-1.B0	140	30.5	165	178	224	189	125	33	54	143	22.5	56	37	90	10	47	10	14
5.5	1UZ1005-0EL72-1.B0	140	30.5	165	178	224	189	125	33	54	143	22.5	56	37	90	10	47	10	14
Shaft height 132 mm																			
1500 rpm																			
5.5	1UZ1005-1CK02-1.B0	216	53.0	256	262	303	223	140	38	76	218	26.5	89	156	132	15	69	12	16
7.5	1UZ1005-1CK22-1.B0	216	53.0	256	262	303	223	178	38	76	218	26.5	89	118	132	15	69	12	16
11.0	1UZ1005-1CK32-1.B0	216	53.0	256	262	367	294	178	38	76	218	26.5	89	118	132	15	69	12	16
15.0	1UZ1005-1CK42-1.B0	216	53.0	256	262	367	294	178	38	76	218	26.5	89	168	132	15	69	12	16
3000 rpm																			
11.0	1UZ1005-1CL22-1.B0	216	53.0	256	262	367	294	178	38	76	218	26.5	89	118	132	15	69	12	16
15.0	1UZ1005-1CL32-1.B0	216	53.0	256	262	367	294	178	38	76	218	26.5	89	118	132	15	69	12	16
18.5	1UZ1005-1CL42-1.B0	216	53.0	256	262	367	294	178	38	76	218	26.5	89	118	132	15	69	12	16
22.0	1UZ1005-1CL52-1.B0	216	53.0	256	262	367	294	178	38	76	218	26.5	89	118	132	15	69	12	16

Rated power [kW]	Motor drive system type	L	LA/ LA'	LC	LE	LL/ LL'	X/ X'	U/ U'	V/ V'	D	DB	E	EB	ED	F	GA	M	N	P	S	T	Z
[mm]																						

**Shaft height
71 mm**

1500 rpm

0.37	1UZ1005-0CK32-1.B0	240	293	278.0	30	233.0	52.5	224	236	14	M5	30	22	4	5	16	130	110	160	10.0	3.5	4
0.55	1UZ1005-0CK42-1.B0	240	293	278.0	30	233.0	52.5	224	236	14	M5	30	22	4	5	16	130	110	160	10.0	3.5	4
0.75	1UZ1005-0CK52-1.B0	240	293	278.0	30	233.0	52.5	224	236	14	M5	30	22	4	5	16	130	110	160	10.0	3.5	4
1.10	1UZ1005-0CK62-1.B0	280	293	318.0	30	233.0	52.5	224	236	14	M5	30	22	4	5	16	130	110	160	10.0	3.5	4

3000 rpm

0.55	1UZ1005-0CL32-1.B0	240	293	278.0	30	233.0	52.5	224	236	14	M5	30	22	4	5	16	130	110	160	10.0	3.5	4
0.75	1UZ1005-0CL42-1.B0	240	293	278.0	30	233.0	52.5	224	236	14	M5	30	22	4	5	16	130	110	160	10.0	3.5	4
1.10	1UZ1005-0CL52-1.B0	240	293	278.0	30	233.0	52.5	224	236	14	M5	30	22	4	5	16	130	110	160	10.0	3.5	4
1.50	1UZ1005-0CL62-1.B0	240	293	278.0	30	233.0	52.5	224	236	14	M5	30	22	4	5	16	130	110	160	10.0	3.5	4

**Shaft height
90 mm**

1500 rpm

1.5	1UZ1005-0EK42-1.B0	347	293	405.0	50	233.0	91.0	224	257	24	M8	50	40	5	8	2	165	130	200	12.0	3.5	4
2.2	1UZ1005-0EK52-1.B0	347	293	405.0	50	233.0	91.0	224	257	24	M8	50	40	5	8	2	165	130	200	12.0	3.5	4
3.0	1UZ1005-0EK62-1.B0	387	329	445.0	50	269.5	102.5	260	270	24	M8	50	40	5	8	2	165	130	200	12.0	3.5	4
4.0	1UZ1005-0EK72-1.B0	387	329	445.0	50	269.5	102.5	260	270	24	M8	50	40	5	8	2	165	130	200	12.0	3.5	4

3000 rpm

2.2	1UZ1005-0EL42-1.B0	347	293	405.0	50	233.0	91.0	224	257	24	M8	50	40	5	8	2	165	130	200	12.0	3.5	4
3.0	1UZ1005-0EL52-1.B0	347	329	405.0	50	269.5	102.5	260	270	24	M8	50	40	5	8	2	165	130	200	12.0	3.5	4
4.0	1UZ1005-0EL62-1.B0	347	329	405.0	50	269.5	102.5	260	270	24	M8	50	40	5	8	2	165	130	200	12.0	3.5	4
5.5	1UZ1005-0EL72-1.B0	347	329	405.0	50	269.5	102.5	260	270	24	M8	50	40	5	8	2	165	130	200	12.0	3.5	4

**Shaft height
132 mm**

1500 rpm

5.5	1UZ1005-1CK02-1.B0	465	-	535.5	80	307.0	151.0	311	349	38	M12	80	70	5	10	41	265	230	300	14.5	4.0	4
7.5	1UZ1005-1CK22-1.B0	465	-	535.5	80	307.0	151.0	311	349	38	M12	80	70	5	10	41	265	230	300	14.5	4.0	4
11.0	1UZ1005-1CK32-1.B0	465	-	535.5	80	414.0	108.0	373	413	38	M12	80	70	5	10	41	265	230	300	14.5	4.0	4
15.0	1UZ1005-1CK42-1.B0	515	-	585.5	80	414.0	108.0	373	413	38	M12	80	70	5	10	41	265	230	300	14.5	4.0	4

3000 rpm

11.0	1UZ1005-1CL22-1.B0	465	-	535.5	80	414.0	108.0	373	413	38	M12	80	70	5	10	41	265	230	300	14.5	4.0	4
15.0	1UZ1005-1CL32-1.B0	465	-	535.5	80	414.0	108.0	373	413	38	M12	80	70	5	10	41	265	230	300	14.5	4.0	4
18.5	1UZ1005-1CL42-1.B0	465	-	535.5	80	414.0	108.0	373	413	38	M12	80	70	5	10	41	265	230	300	14.5	4.0	4
22.0	1UZ1005-1CL52-1.B0	465	-	535.5	80	414.0	108.0	373	413	38	M12	80	70	5	10	41	265	230	300	14.5	4.0	4

Dimension designation acc. to IEC

INNOMOTICS

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www.innomotics.com/cybersecurity

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