



[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 2014/34/EU Annex III - MODULE B: EU-TYPE EXAMINATION

[3] EU-type Examination Certificate number: **IMQ 21 ATEX 034 X**

[4] PRODUCT: **Electrical motors**
TYPE/SERIES: **L, M and N**

[5] MANUFACTURER: **Bonani S.p.A.**

[6] ADDRESS: **Via Manara 21/A - 43126 Parma – Italy**

[7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.

[8] IMQ, notified body N° 0051, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in Report No.: **AT20-0056520-01**

[9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:

**EN IEC 60079-0:2018; EN 60079-1:2014; EN 60079-7-2015; EN IEC 60079-7-2015/A1:2018;
EN 60079-31:2014**

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate

[11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the equipment shall include at least one of the following strings:

	II 2G	Ex eb IIB/IIC T4/T3 Gb
	II 2G	Ex eb db IIB/IIC T4/T3 Gb
	II 2D	Ex tb IIIC T125°C Db

This document is composed of 13 pages including 1 annex

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B.U. PRODUCT CONFORMITY ASSESSMENT
CERTIFICATION SECTOR – MANAGER

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[13] Annex

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[15] **Description of product:**

The three-phase and single-phase asynchronous squirrel cage motors (Series L, M and N) are a range of motor size 56 up to 160 according to IEC 60034 code. They are made of aluminum and have separate parts: motor enclosure, terminal box (optional) and capacitor enclosure (optional).

The motor enclosure and the terminal box have types of protection "Ex eb" and/or "Ex tb";

The capacitor enclosure has types of protection "Ex db" and "Ex tb";

The motors can be equipped with auxiliary devices (starting capacitors, running capacitor, PTC, terminals).

PTC (130°C) are used only for two-speed motors and for "Ex tb" motors (when supplied by inverter). They are drowned in the head of stator winding (one on each phase).

The equipment can have two typical constructive solution:

- With terminal box
- Without terminal box

When the equipment is supplied with terminal box:

Motor can be provided with/without signal/power cable.

Power cable connected to power terminal, while signal cable are connected to already ATEX certified terminal type "221-682" and adapter type "221-511" (both manufactured by WAGO).

Double insulating sheet is used when both power and signal cables are used.

When the equipment is supplied without terminal box:

Motor is provided with cable (or cables) permanently connected to it.

Power cable and signal cables (where present) are permanently connected (crimped) and covered by a thermal shrink tube.

Ventilation

Self-ventilation made by fan, who is fitted directly on the shaft.

Fans for "Ex eb" motors, which have a peripheral speed below 50 m/s, are made of plastic material.

Fans for "Ex tb" or "Ex eb" motors (which have a peripheral speed above 50 m/s) are made of plastic dissipative material or aluminum.

The degree of protection (IP) of ventilation openings are:

- IP 20 on the air inlet side
- IP 10 on the air outlet side

Painting:

Not painted (standard version); or

Conductive type for Series M, N

Insulating with up to 2 mm for Series L (Gas Group IIB)

Insulating with up to 0.2 mm for Series L (Gas Group IIC)"

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[15.1] **Models/Series Identification:**

The three-phase and single-phase electric motors are identified by a code as follows:

Key code												
	■	■	■	■	■	*	■	*	*	*	■	■
Series												
Motor 2G	L											
Motor 2GD	M											
Motor 2D	N											
Type												
Three-phase		T										
Single phase		S										
Number of poles												
Two			2									
Four			4									
Six			6									
Eight			8									
Double speed 2-4 poles			A									
Double speed 4-8 poles			E									
Double speed 4-6 poles			D									
Double speed 4-8 poles			B									
Size												
56				A								
63				B								
71				C								
80				D								
90S				F								
90L				H								
100				M								
112				P								
132S				R								
132M				T								
160				U								
Power												
1 st				A								
2 nd				B								
3 rd				C								
4 th				R								
Mounting												
Configuration												
Single phase with capacitor box							9					
Motor without connection box							8					
Motor with PTC (not for double speed box)							7					
Motor with cable							6					
Standard version							0					
Progressive number												
For special configuration												
Efficiency												
IE1										1	E	
IE2										2	E	

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* = Part of motor coding not pertaining ATEX safety

Standard motor is coded: ■■■■■■ * 0 * 2 * ■■

Standard motor is provided:

- with terminal box;
- without cables;
- without PTC;
- (single phase) is without capacitor box;
- (double speed) with PTC;

List of motors

Three phase motors 1 speed

Type	Power [kW]	
	50Hz	60Hz
56A2	0.09	0.11
56B2	0.12	0.14
63R2	0.12	0.14
63A2	0.18	0.22
63B2	0.25	0.30
71A2	0.37	0.44
71B2	0.55	0.66
71C2	0.75	0.90
80A2	0.75	0.90
80B2	1.1	1.32
90S2	1.5	1.80
90L2	2.2	2.64
100LA2	3	3.60
100LB2	4	4.80
112M2	4	4.80
132S2	5.5	6.60
132M2	7.5	9.00
160MA2	11	13.20
160MB2	15	18.00
160L2	18.5	22.20

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Type	Power [kW]	
	50Hz	60Hz
56A4	0.06	0.07
56B4	0.09	0.11
63A4	0.12	0.14
63B4	0.18	0.22
71A4	0.25	0.30
71B4	0.37	0.44
80A4	0.55	0.66
80B4	0.75	0.90
90S4	1.1	1.32
90L4	1.5	1.80
100LA4	2.2	2.64
100LB4	3	3.60
112M4	4	4.80
132S4	5.5	6.60
132M4	7.5	9.00
160M4	11	13.20
160L4	15	18.00

Type	Power [kW]	
	50Hz	60Hz
71A6	0.18	0.22
71B6	0.25	0.30
71C6	0.37	0.44
80A6	0.37	0.44
80B6	0.55	0.66
90S6	0.75	0.90
90L6	1.1	1.32
100L6	1.5	1.80
112M6	2.2	2.64
132S6	3	3.60
132M6	4	4.80
132MB6	5.5	6.60
160M6	7.5	9.00
160L6	11	13.20

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Type	Power [kW]	
	50Hz	60Hz
71A8	0.09	0.11
71B8	0.12	0.14
80A8	0.18	0.22
80B8	0.25	0.30
90S8	0.37	0.44
90L8	0.55	0.66
100LA8	0.75	0.90
100LB8	1.1	1.32
112M8	1.5	1.80
132S8	2.2	2.64
132M8	3	3.60
160MA8	4	4.80
160M8	5.5	6.60
160L8	7.5	9.00

Single phase motors 1 speed

Type	Power [kW] [50 or 60Hz]
56A2	0.09
56B2	0.12
63A2	0.18
63B2	0.25
71A2	0.37
71B2	0.55
80A2	0.75
90S2	1.1
90L2	1.5
100L2	1.85
-	-

Type	Power [kW] [50 or 60Hz]
56A4	0.06
56B4	0.09
63A4	0.12
63B4	0.18
71A4	0.25
71B4	0.37
80A4	0.55
90S4	0.75
90L4	1.1
100LA4	1.5
100LB4	1.85

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Three phase motors double speed constant torque

These motors are always provided with PTC thermistors, one for each speed: PTC130°C for T3 temperature class and ambient temperature 40°C.

2/4 poles			
Type	Power		T3
	50Hz	60Hz	
	[kW]	[kW]	(40°C)
63B24	0.21	0.25	PTC130
	0.13	0.16	PTC130
71A24	0.33	0.40	PTC130
	0.22	0.26	PTC130
71B24	0.45	0.54	PTC130
	0.3	0.36	PTC130
80A24	0.6	0.72	PTC130
	0.45	0.54	PTC130
80B24	0.85	1.02	PTC130
	0.65	0.78	PTC130
90S24	1.3	1.56	PTC130
	1	1.20	PTC130
90L24	1.6	1.92	PTC130
	1.3	1.56	PTC130
100LA24	2.5	3.00	PTC130
	1.8	2.16	PTC130
100LB24	3.3	3.96	PTC130
	2.6	3.12	PTC130
112M24	4.5	5.40	PTC130
	3.3	3.96	PTC130
132S24	5.5	6.60	PTC130
	4.4	5.28	PTC130
132M24	7.7	9.24	PTC130
	6.2	7.44	PTC130
160M24	11	13.20	PTC130
	8.8	10.56	PTC130
160L24	15	18.00	PTC130
	12	14.40	PTC130

4/8 poles			
Type	Power		T3
	50Hz	60Hz	
	[kW]	[kW]	(40°C)
63B48	0.09	0.11	PTC130
	0.04	0.05	PTC130
71A48	0.15	0.18	PTC130
	0.09	0.11	PTC130
71B48	0.22	0.26	PTC130
	0.12	0.14	PTC130
80A48	0.37	0.44	PTC130
	0.18	0.22	PTC130
80B48	0.6	0.72	PTC130
	0.28	0.34	PTC130
90S48	0.75	0.90	PTC130
	0.37	0.44	PTC130
90L48	1.1	1.32	PTC130
	0.55	0.66	PTC130
100LA48	1.5	1.80	PTC130
	0.75	0.90	PTC130
100LB48	1.85	2.22	PTC130
	0.95	1.14	PTC130
112M48	2.4	2.88	PTC130
	1.4	1.68	PTC130
132S48	3.7	4.44	PTC130
	2.2	2.64	PTC130
132M48	4.8	5.76	PTC130
	2.8	3.36	PTC130
160M48	7.5	9.00	PTC130
	4.8	5.76	PTC130
160L48	10	12.00	PTC130
	6.6	7.92	PTC130

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4/6 poles			
Type	Power		T3
	50Hz	60Hz	
	[kW]	[kW]	(40°C)
71A46	0.22	0.26	PTC130
	0.15	0.18	PTC130
71B46	0.28	0.33	PTC130
	0.18	0.21	PTC130
80A46	0.37	0.44	PTC130
	0.3	0.36	PTC130
80B46	0.5	0.6	PTC130
	0.37	0.44	PTC150
90S46	0.75	0.9	PTC130
	0.45	0.54	PTC130
90L46	1.1	1.32	PTC130
	0.75	0.9	PTC130
100LA46	1.5	1.8	PTC130
	0.9	1.08	PTC130
100LB46	1.8	2.16	PTC130
	1.1	1.32	PTC130
112M46	2.2	2.64	PTC130
	1.5	1.8	PTC130
132S46	3.6	4.32	PTC130
	2.2	2.64	PTC130
132M46	5.5	6.6	PTC130
	4	4.8	PTC130
160M46	6.6	7.92	PTC130
	4.4	5.28	PTC130
160L46	8.8	10.56	PTC130
	5.9	7.08	PTC130

6/8 poles			
Type	Power		T3
	50Hz	60Hz	
	[kW]	[kW]	(40°C)
71A68	0.08	0.10	PTC130
	0.04	0.05	PTC130
71B68	0.12	0.14	PTC130
	0.08	0.10	PTC130
80B68	0.19	0.23	PTC130
	0.11	0.13	PTC130
80B68	0.25	0.30	PTC130
	0.19	0.23	PTC130
90S68	0.37	0.44	PTC130
	0.26	0.31	PTC130
90L68	0.55	0.66	PTC130
	0.37	0.44	PTC130
100LA68	0.75	0.90	PTC130
	0.55	0.66	PTC130
100LB68	1.1	1.32	PTC130
	0.75	0.90	PTC130
112M68	1.5	1.80	PTC130
	1.1	1.32	PTC130
132S68	2.1	2.52	PTC130
	1.4	1.68	PTC130
132M68	3	3.60	PTC130
	1.85	2.22	PTC130
160M68	4	4.80	PTC130
	2.8	3.36	PTC130
160L68	5.5	6.60	PTC130
	4	4.80	PTC130

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Three phase motors double speed quadratic torque

These motors are always provided with PTC thermistors, one for each speed: PTC130°C for T3 temperature class and ambient temperature 40°C.

Type	2/4 poles		T3 (40°C)
	Power		
	50Hz [kW]	60Hz [kW]	
63B24	0.24	0.29	PTC130
	0.07	0.08	PTC130
71A24	0.37	0.44	PTC130
	0.09	0.11	PTC130
71B24	0.5	0.60	PTC130
	0.14	0.17	PTC130
80A24	0.75	0.90	PTC130
	0.18	0.22	PTC130
80B24	1	1.20	PTC130
	0.25	0.30	PTC130
90S24	1.5	1.80	PTC130
	0.37	0.44	PTC130
90L24	2	2.40	PTC130
	0.51	0.61	PTC130
100LA24	2.6	3.12	PTC130
	0.62	0.74	PTC130
100LB24	3.3	3.96	PTC130
	0.75	0.90	PTC130
112M24	4.4	5.28	PTC130
	1.1	1.32	PTC130
132S24	6.5	7.80	PTC130
	2	2.40	PTC130
132M24	8.5	10.20	PTC130
	2.5	3.00	PTC130
160M24	12	14.40	PTC130
	3	3.60	PTC130
160L24	16	19.20	PTC130
	4.4	5.28	PTC130

Type	4/8 poles		T3 (40°C)
	Power		
	50Hz [kW]	60Hz [kW]	
-	-	-	-
	-	-	-
71A48	0.2	0.24	PTC130
	0.05	0.06	PTC130
71B48	0.3	0.36	PTC130
	0.07	0.08	PTC130
80A48	0.45	0.54	PTC130
	0.1	0.12	PTC130
80B48	0.65	0.78	PTC130
	0.14	0.17	PTC130
90S48	0.9	1.08	PTC130
	0.22	0.26	PTC130
90L48	1.2	1.44	PTC130
	0.3	0.36	PTC130
100LA48	1.9	2.28	PTC130
	0.44	0.53	PTC130
100LB48	2.2	2.64	PTC130
	0.55	0.66	PTC130
112M48	3	3.60	PTC130
	0.75	0.90	PTC130
132S48	4.4	5.28	PTC130
	1.1	1.32	PTC130
132M48	5.9	7.08	PTC130
	1.5	1.80	PTC130
160M48	8.8	10.56	PTC130
	2.5	3.00	PTC130
160L48	12	14.40	PTC130
	3.2	3.84	PTC130

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4/6 poles			
Type	Power		T3 (40°C)
	50Hz	60Hz	
	[kW]	[kW]	
71B46	0.3	0.36	PTC130
	0.1	0.12	PTC130
80A46	0.44	0.528	PTC130
	0.13	0.156	PTC130
80B46	0.59	0.708	PTC130
	0.18	0.216	PTC130
90S46	0.9	1.08	PTC130
	0.3	0.36	PTC130
90L46	1.15	1.38	PTC130
	0.4	0.48	PTC130
100LA46	1.8	2.16	PTC130
	0.6	0.72	PTC130
100LB46	2.2	2.64	PTC130
	0.7	0.84	PTC130
112M46	3	3.6	PTC130
	0.9	1.08	PTC130
132S46	4	4.8	PTC130
	1.2	1.44	PTC130
132M46	5.5	6.6	PTC130
	1.7	2.04	PTC130
160M46	7.5	9	PTC130
	2.5	3	PTC130
160L46	11	13.2	PTC130
	3.3	3.96	PTC130

6/8 poles			
Type	Power		T3 (40°C)
	50Hz	60Hz	
	[kW]	[kW]	
80B68	0.33	0.40	PTC130
	0.09	0.11	PTC130
80B68	0.4	0.48	PTC130
	0.12	0.14	PTC130
90S68	0.48	0.58	PTC130
	0.19	0.23	PTC130
90L68	0.66	0.79	PTC130
	0.25	0.30	PTC130
100LA68	0.88	1.06	PTC130
	0.37	0.44	PTC130
100LB68	1.1	1.32	PTC130
	0.44	0.53	PTC130
112M68	1.5	1.80	PTC130
	0.75	0.90	PTC130
132S68	2.2	2.64	PTC130
	0.88	1.06	PTC130
132M68	3	3.60	PTC130
	1.2	1.44	PTC130
132MB68	3.7	4.44	PTC130
	1.5	1.80	PTC130
160M68	5.5	6.60	PTC130
	2.5	3.00	PTC130
160L68	7.5	9.00	PTC130
	4	4.80	PTC130

[15.2] **Ratings:**

Mains supply: 850 Vac
 Maximum rated voltage: 0.06 kW to 22.2 kW
 Rated power: 50 Hz or 60 Hz
 Rated frequency: 2, 4, 6, 8
 Poles: 2/4, 4/8 double speed (mixed windings - Dahlander)
 4/6, 6/8 double speed (with separate windings)
 Insulation class: F (155°C), H (180°C)
 Duty: S1

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Inverter supply (allowed only for "Ex tb" motors)

Possibility to supply through inverter exclusively with the use of thermal protectors applied in the windings.

Such protectors shall be connected to appropriate protective devices.

[15.3] **Safety Ratings:**

The other electrical safety characteristics as I_A/I_N , t_E are listed in schedule document "Increased safety Motors Series L-M-N (X-Y-W)"

[15.4] **Ambient temperature and temperature classes:**

Min. ambient temperature: **-40°C (or -20°C)**

Max. ambient temperature: **55°C (or 50°C or 45°C) or 40°C**

Temperature class: **T3**

T4 (only for motor 63R2 with an ambient temperature of 40°C)

Maximum surface temperature: **T125°C**

[15.5] **Degree of protection (IP code):** IP 65 (according to EN 60079-0 and IEC 60529)

[15.6] **Warnings:**

"Do not open when an explosive atmosphere may be present"

"See installation instruction document"

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[16.1] **Routine (factory) tests:**

The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

In addition, if the equipment marking is "Ex ... eb ... Gb", manufacturer shall carry out the dielectric routine test prescribed at clause 7.1 of the EN 60079-7 standard, the applied voltage shall be at least at $(1\ 000 + 2U)$ Vac or 1 500 Vac, whichever is greater, where "U" is the r.m.s. working voltage.

Alternatively, the test shall be carried out at 1.2 times the test voltage, but maintained for at least 100 ms.

[16.2] **Conformity with the documentation:**

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.

Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[16.3] **Installation conditions:**

Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.

Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals request special considerations and additional measures by the side of installer or user.

These should be specified to the manufacturer by the user;

It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.

Installation of equipment has to proceed according to EN 60079-14.

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Capacitors have to be placed in the capacitor enclosure (if supplied) or in safe zone.

Cable entry devices shall be selected by the user according to EN 60079-14 and with the following instructions:

- Cable entry devices, for terminal box, shall be ATEX certified according to current edition of EN 60079-0, EN 60079-7 and EN 60079-31 standards. They shall have at least an IP 65 degree of protection, minimum EPL (Gb and Db) and operating temperature range from -40°C to +80°C.
- Cable entry device, for capacitor box, shall be M16x1.5, ATEX certified (according to current edition of EN 60079-0, EN 60079-1 and EN 60079-31 standards) "barrier" cable glands suitable for a Pressure of 46 bar. It shall have at least an IP 65 degree of protection, minimum EPL (Gb and Db) and operating temperature range from -40°C to +80°C.

Unused cable entries shall be closed through a blanking element with the same characteristics as reported for cable entry devices.

[17] **Special Condition of use (X):**

Flameproof joints (of capacitor box) are not intended to be repaired.

Flamepaths are specified in the manufacturer documents. For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.

The operating temperature of supply cable must be suitable for a temperature of 80°C.

The user has to periodically clean the enclosure in order to avoid the creation of a dust layer ≥ 5 mm.

All cable entry devices shall include an additional gasket on the mating part with the enclosure.

In addition, for single-phase motors:

- The supply voltage must be within $\pm 5\%$ of the nominal value.

In addition, for single speed motors with "Ex eb" type of protection:

- The user has to connect the equipment to a current-dependent safety device which, in case of locked rotor, de-energize within the limit time "tE".
- The intervention curve of the protection device, for the automatic de-energizing of supply, must be coherent with the value I_A/I_N and the time "tE" shown on the marking plate.
- It is forbidden the self-restart of the equipment after the intervention of the protection.

In addition, for two speed motors with increased safety type of protection:

- the user has to connect the terminals of each PTC sensor to a relay type MS220KA manufactured by ZIEHL (one for each PTC) which, in case of locked rotor, de-energize the motor to avoid that the surface temperature reaches the ignition value;
 - It is forbidden the self-restart of the equipment after the intervention of the relay.
 - The relay has to be placed in safe zone or in an appropriate certified enclosure.
- Supply through inverter: thermal protectors shall be connected to a safety device that, in case of activation, shut down the power supply. It is forbidden the self-restart of the equipment after the intervention of the relay.

Maximum temperature safety systems integrity level shall be at least 2, according to EN 61508 or EN 61511 standard. Other systems shall be SIL 1.

[13] Annex

[14] EU-type Examination Certificate number: **IMQ 21 ATEX 034 X**

[18] **Essential Health and safety Requirements:**

This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

This Certificate **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VI of the Directive

ESHR 1.4 Not verified.

ESHR 1.5 Not verified.

ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report: n/a

[19] **Descriptive documents:**

DL-AT20-0056520-01, rev. 0, dated 2021-04-30.

[20] **Certification Validity Conditions:**

The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.

The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file.

[21] **Variations**

2021, June:

- Fist issue