

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	BARTEC Varnost d.o.o.
Address	Cesta 9. Avgusta 59, Zagorje ob Savi, 1410, Slovenia
Type	Electric Motors
Description	Three-phase squirrel cage induction motors, explosion-proof design, having flameproof enclosure and flameproof or increased safety terminal box. TYPE: See Appendix
Trade Name	3KTC, 4KTC, 4KTC, 5KTC, 4KTS, 4KTSN
Application	Marine, Offshore and Industrial use in potentially explosive atmospheres.
Specified Standard	IEC 60034-1:2017 IEC 60079-0:2018, IEC 60079-1:2014/COR1: 2018, IEC 60079-7:2015 EN 60079-31:2013 (for 4KTC71-225)
Ratings	See Appendix
Other Conditions	Motors rated 100 kW and above intended for Lloyd's Register application have to satisfy the additional requirements as specified in the LR Rules and Regulation for the Classification of Ships, Part 6, Chapter 2. Permitted ambient temperature range for 4KTS and 4KTSN series: -20 °C to +45 °C

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 03/00111(E3)

The Design Appraisal Document LR21270188DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPE:

3KTC 180-225 4KTC 250-315 4KTC 71-225 5KTC 250-280 4KTS 90 – 180 4KTSN 90 – 180

RATINGS:

Frame size: 71 ÷ 315
 Rated Voltage [V a.c.]: 220 ÷ 690
 Rated Power [kW]: 0.048 ÷ 250
 Rated Frequency [Hz]: 50 /60 or Frequency Converter Fed
 Insulation Class: F
 Ex Coding**:
 Ex de IIC T* Gb
 or
 Ex d IIC T* Gb
 or
 Ex db eb IIB T4 Gb
 Ex db eb IIB T3 Gb
 * = temperature class number or maximum °C surface temperature
 **= Not applicable for 4KTSN motors

RANGE:

Type and Frame size	Power [kW] (50Hz, S1)	Voltage [V]	Frequency [Hz] (power freq. and variable)	Speed [rpm]
4KTC 71	up to 0.55	up to 690 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 80	up to 1.1	up to 690 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 90	up to 2.2	up to 690 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 100	up to 3	up to 690 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 112	up to 4	up to 690 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 132	up to 7.5	up to 690 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000

4KTC 160	up to 18.5	up to 690 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 180	up to 22	up to 720 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 200	up to 37	up to 720 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 225	up to 45	up to 720 V	50 / 60 5 ÷ 100	750 ÷ 3600 75 ÷ 6000
4KTC 250	up to 55	up to 720 V	50 / 60 5 ÷ 87	750 ÷ 3600 150 ÷ 5220
4KTC 280	up to 90	up to 720 V	50 / 60 5 ÷ 100	750 ÷ 3600 150 ÷ 5220
4KTC 315	up to 250	up to 720 V	50 / 60 5 ÷ 87	750 ÷ 3600 150 ÷ 5220
3KTC 180	up to 22	up to 690 V	50 / 60 5 ÷ 87	750 ÷ 3600 150 ÷ 5220
3KTC 200	up to 37	up to 690 V	50 / 60 5 ÷ 87	750 ÷ 3600 150 ÷ 5220
3KTC 225	up to 45	up to 690 V	50 / 60 5 ÷ 87	750 ÷ 3600 150 ÷ 5220
5KTC 250	up to 55	up to 690 V	50 / 60 5 ÷ 87	500 ÷ 3600 150 ÷ 5220
5KTC280	up to 90	up to 1100 V	50 / 60 5 ÷ 87	--
4KTS 90 S	up to 0.64	up to 690 V	50 / 60	1500 ÷ 1800
4KTS 90 L	up to 0.86	up to 690 V	50 / 60	1500 ÷ 1800
4KTS 100 LB	up to 1.82	up to 690 V	50 / 60	1500 ÷ 1800
4KTS 132 S	up to 2.66	up to 690 V	50 / 60	1500 ÷ 1800
4KTS 160 M	up to 4.28	up to 690 V	50 / 60	1500 ÷ 1800
4KTS 180 M	up to 7.5	up to 690 V	50 / 60	1500 ÷ 1800
4KTS 180 L	up to 11	up to 690 V	50 / 60	1500 ÷ 1800
4KTSN 90 S	up to 0.64	up to 690 V	50 / 60	1500 ÷ 1800
4KTSN 90 L	up to 0.86	up to 690 V	50 / 60	1500 ÷ 1800
4KTSN 100 LB	up to 1.82	up to 690 V	50 / 60	1500 ÷ 1800
4KTSN 132 S	up to 2.66	up to 690 V	50 / 60	1500 ÷ 1800
4KTSN 160 M	up to 4.28	up to 690 V	50 / 60	1500 ÷ 1800
4KTSN 180 M	up to 7.5	up to 690 V	50 / 60	1500 ÷ 1800
4KTSN 180 L	up to 11	up to 690 V	50 / 60	1500 ÷ 1800