



We, the manufacturer: **KONČAR - MES d.o.o.**, Fallerovo šetaliste 22, 10000 Zagreb, Croatia; www.koncar-mes.hr
With full responsibility we state and confirm conformity of the product:

Code: 1227289	N°: 489100	08/09	16,2 kg
3 ~Mot	5ATA 80B-4EP/T4		B35
Ta 45 °C	IC 418	Class F	Rise B IP66
Hz	kW	V	A
50	0,75	D 230	3,3
50	0,75	Y 400	1,9
60	0,8	Y 440	1,9
60	0,8	Y 460	1,85
6204 2ZC3		S1	



PROTECTION: **II 2G Ex db eb IIC T4 Gb II 2D Ex tb IIIC T130C Db IP66 CERTIFICATE: CESI 05 ATEX 110X**

**THREE-PHASE ASYNCHRONUS MOTOR
IN PROTECTION EXPLOSION-PROOF ENCLOSURE "d/db"
5AT 71-80-90-100-112**

Marking for ambient temperature -20°C to +40°C/+50°C/+60°C:

0722 **II 2G Ex db eb IIC T3/T4/T5/T6 Gb;**
II 2G Ex db IIC T3/T4/T5/T6 Gb;

II 2D Ex tb IIIC T100°C/T130°C/T160°C Db IP6X

Marking for ambient temperature -20°C to +80°C:

II 2G Ex db eb IIB T3 Gb; II 2G Ex db IIB T3 Gb;

II 2D Ex tb IIIC T160°C Db IP6X

Certificate: CESI 05 ATEX 110X

**THREE-PHASE ASYNCHRONUS MOTOR
IN PROTECTION EXPLOSION-PROOF ENCLOSURE "d/db"
7AT 71-80-90-100-112-132-160-180-200-225-250-280-315**

Marking for ambient temperature -20°C to +40°C/+50°C/+60°C:

0722 **II 2G Ex db eb IIC T3/T4/T5/T6 Gb;**
II 2G Ex db IIC T3/T4/T5/T6 Gb;

II 2D Ex tb IIIC T100°C/T130°C/T160°C Db IP6X

I M2 Ex db eb I Mb; I M2 Ex db I Mb;

Marking for ambient temperature -20°C to +80°C:

II 2G Ex db eb IIB T3 Gb; II 2G Ex db IIB T3 Gb;

II 2D Ex tb IIIC T160°C Db IP6X

Certificate: CESI 03 ATEX 280X

is in conformity with the following Directives, and with the relevant National laws: 2014/34/EU, 2014/30/EU (2004/108/EG), 2006/42/EC, 2014/35/EU, 2009/125/EC, 2011/65/EU, 2015/863/EU and that the following harmonized standards have been applied: EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015/A1:2018, EN 60079-31:2014. The motors are constructed in accordance with the applicable safety requirements of the relevant industrial standards: IEC/EN 60034-1, 5, 6, 7, 8, 9, 11, 12, 14, 25, 30 and IEC 60072. PRODUCT QUALITY ASSURANCE NUMBER CESI 04 ATEX 084 Q.

Special conditions for safe use (X)

- Supply cables of motors for the ambient temperature +60°C shall be suitable for an operating temperature equal or greater than 92°C; for ambient temperature +80°C supply cable shall be suitable for an operating temperature equal or greater than 105°C.
- Screws used for fastening the parts of motor enclosure, shields and terminal box shall have a yield stress higher than 800N/mm².
- The motor provided with the cables permanently connected, shall have these cables protected against the risk of damage due to mechanical stresses. The free end connections shall be made according to one of the types of protection indicated in the EN 60079-0 standards according to the installation rules in force in the site of installation.

Special conditions for safe use (X)

- The supply cables of motors for the ambient temperature of +60°C shall be suitable for an operating temperature equal or greater than 92°C, for ambient temperature +80°C supply cable shall be suitable for an operating temperature equal or greater than 105°C.
- The screws used for fastening of the parts of motor enclosure size 71, 80, 90, 100, 112, 132, 160, 180 and 280 shall have a yield stress higher than 800 N/mm².
- The screws used for fastening of the parts of motor enclosure size 200, 225 and 250 shall have a yield stress higher than 1200 N/mm² for the assembly with shield and 800 N/mm² for terminal box.
- The motor provided with the cables permanently connected, shall have these cables protected against the risk of damage due to mechanical stresses. The end connections shall be made according to one of the types of protection indicated in the EN 60079-0 standards according to the installation rules in force in site of installation.

ELECTRIC MOTORS with SHIP CONSTRUCTION which contain in their type marking an additional letter **B** (5ABT or 7ABT) are designed and constructed according to applicable norms and regulations of these classification societies: HRB/CRS, BV, RINA, LRS, DNV, GL, KR, RS, RRR and ABS and have type approvals from HRB, RS, RRR and BV. The society signed with BV a contract concerning application of BV MODE I Survey Scheme with which it conducts, in the name of BV, a final control and testing and issues a Certificate of Conformity of a product. By unit testing conformity of product is verified according to above stated in this Declaration of conformity. Originals of test and measurement copy of this statement are stored permanently in company. The product was found to be in order and was released for dispatch. The routine dielectric test have been performed at 2U + 1000V with a minimum value of 1500V (U = rated voltage of the motor). The motor features have been checked according to the routine tests according to EN 60079-0 standard, EN 60079-1 and EN 60079-7 standard. The routine overpressure test on the Ex-d motors have been carried out, with the static method according to paragraph 15.1.3.1 of the EN 60079-1 standard. The results of the tests performed on our delivery items confirm that the above-listed parts comply with the order specifications. All data stated on name plate of this product are within range of allowance stated in regulations IEC 60034. The equipment with which controls and testing was carried out is calibrated and duly verified. This statement does not warrant any characteristics regarding product liability. Safety instructions stated in the production records have to be adhered to.

For installation in places with presence of gas group IIC, when motors are painted with a maximum thickness of paint exceeding 0,2mm, the risk of electrostatic charges shall be considered. For application with presence of combustible dust the risk of electrostatics charges caused by propagating brush discharge on insulating external painting shall also be considered. Please see Instructions Manual.

For operation with frequency converter: Motor is built in compliance with IEC 60034-25, so it is capable to work with power supply from frequency converter (2p=2; 5 to 87 Hz and 2p=4, 6, 8; 5 to 100 Hz). According to IEC 60034-11 for motor winding there are according to temperature class (T4) 3xPTC-130°C or (T3) 150°C ± 5°C sensors. Characteristics of thermal sensors are in compliance with DIN 44081/44082. Speed regulation range is defined by data stated on motor name plate, and given torque reduction diagram defines torque and power. Frequency converter used for this drive must be in compliance with IEC 60034-25 for protection of over voltage and from voltage gradient change. Protection from short-circuit of any kind (to phase, to earth) must be provided inside frequency converter device. The indicated product is intended for installation into a different machine.

Other remarks: -motors with anti-condensate heaters, thermal protection required, characteristics of heater are stated on motor name plate.
-cable gland entries in motors Ex protection II 2G Ex db eb IIC T4 Gb and II 2D Ex tb IIIC T130C Db IP6X are closed with plugs for transport and storage and they must be removed in installation with suitable cable glands or cable plugs in Ex protection and IP protection.

Responsible person of the manufacturer: **Šimun Ercegovac**

Datum: **14-04-2023** Br. **2** Signature:

Zagreb.

Ex OB 7.3.7.5/20 09.11.2022.

OSIGURANJE KVALITETE

Odobrio: