

## Addition Sheet 18

### to the EC-TYPE EXAMINATION CERTIFICATE IBExU02ATEX1019

(Translation)

#### Three-phase Asynchronous Motor with Squirrel-Cage Rotor Type K21Q 180 L4 Ex II 2D (K20Q 180 S4 Ex II 2D)

The already certified motor series type K2.Q ... Ex II 2D is extended with the motor type K21Q 180 L4 Ex IID (K20Q 180 S4 Ex II 2D). The motor is intended for use for mains operation 50 Hz and for operation with frequency converter in a range from 10 Hz up to 50 Hz at a maximum surface temperature of T = 125 °C.

#### Rated values and technical data

		Mains operation	Operation with frequency converter	
Power:	kW	15	2.82	14.8
Terminal voltage:	V	415	91.5	405
Torque:	Nm	97	95	95
Current:	A	29	29.5	29.5
Frequency:	Hz	50	10	50
Speed:	min <sup>-1</sup>	1480	283	1478
Power factor:		0.79	0.76	0.80
Efficiency:	%	90.7	80.2	89.4
Operation mode:		S1		S1
Cooling medium temperature:	°C	55		55

Besides the voltage 415 V also other voltages in the range from 220 V up to 420 V are permissible. The related currents are converted in the reciprocal relation of the voltages.

The proof of explosion protection of the motor mentioned above is recorded in the test report IB-09-3-012 of 25<sup>th</sup> February 2009. The marking is:

 **II 2D Ex tD A21 IP 65 T 125 °C**  
**T<sub>a</sub> -30 °C up to +55 °C**

The safety instructions contained in the EC-Type Examination Certificate IBExU02ATEX1019 have to be noticed.

At operation with frequency converter the motors may only be operated with the frequency converter type NXI-0072-5-A1A300B4B5 of company VACON. The current limitation is set at the most on the 1.6-fold motor rated current for max. 2 min.

This Addition Sheet is only valid in combination with the EC-Type Examination Certificate IBExU02ATEX1019 with 1<sup>st</sup> up to 3<sup>rd</sup> Addition.

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Authorised for certifications  
-Explosion protection-

By order



(Dr. Wagner)



- Seal -  
(ID no. 0637)

Freiberg, 25<sup>th</sup> February 2009

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.