



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312301002774

**Applicant** PARKER HANNIFIN MANUFACTURING France SAS  
**Address** 4 boulevard Eiffel, 21604 LONGVIC, France  
**Manufacturer** PARKER HANNIFIN MANUFACTURING France SAS  
**Address** 4 boulevard Eiffel, 21604 LONGVIC, France  
**Production Factory** PARKER HANNIFIN MANUFACTURING France SAS  
**Production Address** 4 boulevard Eiffel, 21604 LONGVIC, France  
**Product** Servomotor  
**Model/Type** EX6\*E\*\*\*1\*\*C  
**Ex marking** Ex db IIB T4 Gb, Ex tb III C T135°C Db  
**Reference Standards** GB/T3836.1-2021, GB/T3836.2-2021, GB/T3836.31-2021

**Certification mode** Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (4 pages)

Initial issue date: 2021-02-01

Issued date: 2023-04-19

Valid to: 2026-01-31

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical  
Apparatus Research Institute Co., Ltd.



中国认可  
产品  
PRODUCT  
CNAS C208-P

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CN 0001743



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## (Annex)

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### Product information:

1. This certificate covers the following models:

- EX6\*E\*\*\*1\*\*C

Product code:

| Product code: |                 |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |    |    |
|---------------|-----------------|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|----|----|
| Code          | EX              | 6 | * | E                                                                                                                                                                                                                                                                                                                                                                                                                                              | * | * | * | 1 | * | *  | C  |
|               | 1               | 2 | 3 | 4                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1             | Product Series  |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |    |    |
| 2             | Motor size      |   |   | 6                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |    |    |
| 3             | Motor length    |   |   | 20, 30                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |   |   |   |   |    |    |
| 4             | Motor version   |   |   | E: ATEX/IECEX /CCCmotor                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |    |    |
| 5             | Feedback Sensor |   |   | A: resolver 2 poles transformation ratio = 0.5<br>P: DSL encoder singleturn EKS36 – SIL2<br>Q: DSL encoder multiturn EKM36 – SIL2<br>R: Hiperface encoder singleturn SKS36 (128pulses) - SIL2<br>S: Hiperface encoder mutiturn SKM36 (128pulses) - SIL2<br>T: Hiperface encoder singleturn SRS50 (1024pulses)<br>U: Hiperface encoder mutiturn SRM50 (1024pulses)<br>X: Incremental 2048ppr and with commutation – on request<br>Y: sensorless |   |   |   |   |   |    |    |

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|    |                                 |                                                                                                          |
|----|---------------------------------|----------------------------------------------------------------------------------------------------------|
|    |                                 | Z : Special encoder                                                                                      |
| 6  | Torque / Speed Characteristics  | A,B... to Z                                                                                              |
| 7  | Painting                        | R: no painting<br>B: Black painting                                                                      |
| 8  | Electric connection             | 1: Cable gland                                                                                           |
| 9  | Break and thermal sensor option | 2: Without brake<br>5: With brake                                                                        |
| 10 | Mechanical Interface            | 00: IP64 plain shaft<br>01: IP64 key on shaft<br>10: IP65 with plain shaft<br>11: IP65 with key on shaft |
| 11 | Nameplate                       | CCC                                                                                                      |

### Ratings:

|                                             |                                       |                      |
|---------------------------------------------|---------------------------------------|----------------------|
| Supply voltage of the associated servodrive | 230V AC single-phase/<br>three-phases | 400V<br>three-phases |
| Continuous supply voltage (V)               | 310±10%                               | 550±10%              |
| Output frequency (Hz)                       | 0 to 500                              | 0 to 500             |
| Permanent current into one phase (Â/Arms)   | 25/17.7 Max                           | 16/11.3 Max          |
| Maximum current into one phase (Â/Arms)     | 50/35.3 Max                           | 32/22.6 Max          |

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|                                          |          |          |
|------------------------------------------|----------|----------|
| Maximum permanent power of the motor (W) | 6000 Max | 6000 Max |
|------------------------------------------|----------|----------|

Thermo-fuse triggering threshold: 130°C 0/-5°C

Thermo-switch triggering threshold: 125°C ± 5°C

The cable used shall withstand the following temperatures:

| Without derating of the<br>Maximum permanent power of<br>the motor |         |         | With derating of -20% of the<br>Maximum permanent power of<br>the motor |             |             |             | With derating of -55% of the<br>Maximum permanent power of<br>the motor |             |             |             |
|--------------------------------------------------------------------|---------|---------|-------------------------------------------------------------------------|-------------|-------------|-------------|-------------------------------------------------------------------------|-------------|-------------|-------------|
| Ta=27°C                                                            | Ta=32°C | Ta=40°C | Ta=35<br>°C                                                             | Ta=39<br>°C | Ta=41<br>°C | Ta=50<br>°C | Ta=45<br>°C                                                             | Ta=46<br>°C | Ta=49<br>°C | Ta=60<br>°C |
| /                                                                  | 85°C    | 93°C    | /                                                                       | 84°C        | 86°C        | 95°C        | /                                                                       | 81°C        | 84°C        | 95°C        |

Ingress protection: IP64/IP65 is applicable for product with marking Ex db IIB T4 Gb

IP65 is applicable for product with marking Ex tb III C T135°C Db

Ex marking: Ex db IIB T4 Gb, Ex tb III C T135°C Db

- Producers should organize production in accordance with the technical documents approved by the certification body.

### 2. Specific conditions of safety use:

- Rated ambient temperature range: -20°C~+60°C.
- The gap and length of flameproof joints should be in accordance with those indicated in clause 4.4.3 of instructions.
- The screws used for the assembly of the various parts of explosion-proof enclosures must have a yieldstress higher or equal to: 700MPa.

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- See instruction manual for other information.
- 3. Certificate related report(s):
  - Type test report: CQST2012C030, CQST2012C030/01
  - Factory inspection report: CN2021Q010017
- 4. Certificate change information:
  - 1st change on April 19, 2023:  
Updated the standards for certification.

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