**Certificate: 14ATEX065X (ATEX)**

CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

認証証書

CERTIFICATE

ZERTIFIKAT

TUV SÜD

CERTIFICATE

TÜV SUD

Italia

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protective System intended for use D T in potentially explosive atmospheres Directive 2014/34/EU

N [3] EU-Type Examination Certificate number:

TÜV IT 14 ATEX 065 X Rev.7

UD [4] Equipment or Protective System: single and 3 phase asynchronous electric motors and brake motors series AB .. r, DB/HB .. r, size 63+315L

**📌 Manufacturer:** Cemp S.r.l.

**📌 Address:** Via Piemonte, 16 I-20030 Senago (MI) - ITALY

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[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

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[8] TUV Italia, notified body no. 0948 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 products intended for use in potentially explosive atmospheres given in Annex II to the Directive

SUL The examination and test results are recorded in confidential report no. R 14 EX 052

**📌 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:**

ag

EN60079-0:2012/A11:2013; EN60079-1:2014; EN60079-7:2015; EN60079-31:2014

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**[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.

**📌 The marking of the product shall include the following:**

SUL

Ex

Il 2G Ex db IIB T6 ... T3 Gb Il 2G Ex db eb IIB T6 ... T3 Gb Il 2D Ex tb IIIC (or IIIB) T85℃ ... T150℃ Db

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Issue date :.. 04th April 2018

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO

PRD Nº 081B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC roscimento

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

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TUV Italia S.r.l. Notified Body Nº 0948 SUL

Paolo Marcone

Industry Service - Real Estate & Infrastructure Managing Director

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722159722.

page 1 of 19

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CERTIFICAT

CERTIFICADO

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08/08/2014

1

Brakes and low temperature (-50℃) included

1

04/06/2015

2

315L brake motor included; routine test changed; manual brake release 71+160 included

2

21/01/2016

Routine test changed;

3

manual brake release 180+315 included; new temperature classes assigned

3

08/04/2016

4

Brake 180-315L low temperature included new temperature classes assigned; new elbow fitting included

4

21/07/2017

Standard updated

5

22/11/2017

6

New temperature class assigned T6

6

31/01/2018

7

New temperature class assigned T5 New Cover for Ex e Terminal Box

7

04/04/2018

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The electric motors covered by this certificate are asynchronous three-phase and single phase motors AB series, with type of protection "Ex d" or "Ex d e" and protected from dust penetration, with type of protection "Ex t".

The three phase asynchronous motors with brakes series DC/HC series are made of cast iron with separate compartments: motor enclosure and terminal box for supply and auxiliary circuits connection. Motor enclosure is designed in Ex d type of protection, while terminal box can be Ex d or Ex e type of protection.

Brake motor size 71 to 160 and 180 to 315 can be equipped with manual hand release.

The motors can be used for continuous or intermittent duty, as defined by EN 60034.1 for : S1, S2, S3, S4, S6 and S9.

The motors can be equipped with auxiliary devices: heaters, thermal detectors, encoders etc.

The motor supplied by inverter is equipped inside of stator winding with PTC or PT100 thermal detectors for temperature control. Rating data are specified on supplementary plate. The presence of the thermal detectors inside the motor is shown by appropriate warning label.

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TUV page 2 of 19

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Certificate History

Revision

Description

Report Revision

Issue Date

-

СЕРТИФИКАТ

認証証書

CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TÜV IT 14 ATEX 065 X Rev.7

TÜV SUD

First emission

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UD

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New temperature class assigned T5

SI

Description of equipment

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CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

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The motors can be made for different ambient temperatures as described below

· Frame size 180-250: ambient temperature from -50℃/-20℃ to +80℃

· Frame size 280-315: ambient temperature from -50℃/-20℃ to +80℃ (it's necessary to de-rate power in proportion to the ambient temperature)

· Frame size 315L: ambient temperature from -55℃/-20℃ to +40℃

· Single phase motors: ambient temperature from -35℃ to +80℃

. Motors with brake 63-160: ambient temperature from -20℃ to +60℃

Ti Motors with brake 180-315: ambient temperature from -50℃ to +60℃

In order to identify the relation between size of motor, ambient temperature and temperature class see instructions.

CERTIFICATE

ZERTIFIKAT

TUV SÜD

[13]

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TUV IT 14 ATEX 065 X Rev.7

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The PTC thermal detectors are calibrated for an operation of: UD

- Max 85℃ for temperature class T6/T85℃

- Max 100℃ for temperature class T5/T100℃

- Max 120℃ for temperature class T4/T125℃

- Max 130℃ for temperature class T4/T135℃

- Max 140℃ for temperature class T3/T150℃

UD

According to IEC 60034-6 standard, the cooling is achieved by one of the following methods:

- Self-cooled motor by metal fan fitted on shaft IC 411

- Fan directly coupled IC 418

- Totally enclosed not ventilated IC 410

- Forced ventilation by means of auxiliary motor IC 416

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olection Ex O

The motors in type of protection Ex d can be equipped with separately certified draining devices II 2GD Ex db IIB.

認証証書

SÜD

TÜV

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TUV page 3 of 19

T

N

TÜV

SCHEDULE

TÜV SÜD

SÜD

T

N

ÜD

CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

Pos. 1 : Motor series

AB Flame proof electric motors for gas group IIB and for dust group IIIC / IIIB

DB

Flame proof brake motors IC410 for gas group IIB and for dust group IIIC / IIIB

HB

Flame proof brake motors IC411 for gas group IIB and for dust group IIIC / IIIB

Pos.2 : Motor type ( electrical features )

1

4

Three phase motor double polarity quadratic torque

2

Three phase motor double polarity constant torque

5

Three phase motor for hoist

3

Three phase motor one polarity

7

Three phase motor suitable for frequency converter

Pos.3 : Terminal box

0

3

Plate and cable gland version

2

5

Terminal box in Ex e version

SÜD

Pos.4 : Motor series (second part)

r

REGAL series

63 Motor size 63

160

Motor size 160

71

Motor size 71

180

Motor size 180

80

Motor size 80

200

Motor size 200

90

Motor size 90

225

Motor size 225

TUY SÜD

認証証書

CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TÜV IT 14 ATEX 065 X Rev.7

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The products with the identification codes are listed in the following table:

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UD

Pos.2 = motor type

AV

Pos.4 = series (second part) SU

Pos.5 = motor size

Pos.6 = stator core length

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Pos.7 = polarity

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Pos.1 = series

Pos.3 = terminal box

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Single phase motor (only for AC motor)

CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

Pos. 7 : Polarity number

2

2 pole

48

Double polarity : 4/8 pole

4

4 pole

46

Double polarity : 4/6 pole

6

6 pole

68

Double polarity : 6/8 pole

8

8 pole

21

Double polarity : 2/12 pole

10

10 pole

26

Double polarity : 2/6 pole

12

12 pole

61

Double polarity : 6/12 pole

16

16 pole

83

Double polarity : 8/16 pole

24

Double polarity : 2/4 pole

Double polarity : 6/10 pole

42

Double polarity : 4/24 pole

Double polarity : 8/12 pole

SUD

Rated characteristics

Mains supply:

SÜD

Motor type 63-100

Motor type 112

Motor type 132-160

Motor type 180-250

Motor type 280-315

Motor type 315L

Maximum current [A]

30

30

60

210

280

520

Maximum voltage [V]

690

690

750

1000

1000

1000

50/60

50/60

50/60

50/60

50/60

50/60

Max speed [r.p.m.]

3600

3600

3600

3600

3600

3600

Insultation class

F (with At.B)

F (with At.B)

F

F

F

(with At.B)

F/H (with At.B)

Service

S1,2,3,4,6,9

S1,2,3,4,6,9

S1,2,3,4,6,9

S1,2,3,4,6,9

S1,2,3,4,6,9

S1,2,4,6,9

SUD

Inverter supply:

Maximum working voltage: 1000 V

Maximum peak voltage: 2300 V

Frequency range:

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100

Motor size 100

250

Motor size 250

112

Motor size 112

280

Motor size 280 "

132

Motor size 132

315

Motor size 315

N

Pos.6 : Stator core length SUD

A

Short (motors size 63-71-80)

M

Medium (motors size 112-180-225-250-280- 315)

UD

B

Long (motors size 63-71-80)

SA

Short (motor size 132)

S

Short (motors size 90-225-280-315)

SB

Short medium (motors size 132)

L

Long (motors size 90-160-180-315)

MA

Medium short (motors size 160)

LA

Short (motors size 100-160-200-315)

MB

Medium (motors size 132-160)

LB

Long (motors size 100 -160-200-315)

ML

Long (motors size 132-225-280)

LC

Long (motor size 315)

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SUD

認証証書

CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TUV IT 14 ATEX 065 X Rev.7

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Maximum rated speed [rpm]: Duty:

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5200 (63+100)/ 4200(112+160)/ 3600(180+315) S9

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Inverter supply (only for 315L motors):

Maximum working voltage: 880 V (Ex d) / 800 V (Ex de)

Maximum peak voltage: 1250 V

Maximum rated speed [rpm]: 3600

Duty: S3, S9

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"To be energized with cable suitable for temperature 90℃"

"Restore greasing at every opening"

SU"Use screws quality 8.8 ISO 898-1"

In case of use of anti condensate heaters:

"Caution: heater energized" -

For motors supplied by auxiliaries:

-

[16] a . SÜD

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Routine tests

For motor and brakes enclosures, manufacturer shall carry out the following routine test:

Motor enclosures:

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CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

認証証書

CERTIFICATE

ZERTIFIKAT

TUV SÜD

[13]

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TÜV IT 14 ATEX 065 X Rev.7

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SUD static for at least 10 seconds

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S overpressure test according to EN60079-1 with pressure not less than 33 bar static for at least 10 seconds

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Motor enclosures size 63, 71, 80, 90, 100, 132, 160 satisfied overpressure test with 4x Pref at -50℃ so it is not necessary to perform routine overpressure test.

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TUV page 7 of 19

CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

認証証書

CERTIFICATE

ZERTIFIKAT

N

UD

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TÜV

TUV SÜD

SCHEDULE

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CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

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Brake enclosures size 180 satisfied overpressure test with 4x Pref, so it is not necessary to perform routine overpressure test.

and SÜD

Ex d terminal boxes: TÜV

Ex d terminal boxes for 315L motor intended for minimum ambient temperature of

-20℃: overpressure test according to EN60079-1 with pressure not less than 14 bar for at least 10 seconds SÜD

SÜD

Other Ex d terminal boxes (STB100, LTB100, TB16, TB180 and TB315) satisfied overpressure test with 4x Pref, so it is not necessary to perform routine overpressure test. SÜD

minal box:

SUD

Dielectric strength test according to EN60079-7 with voltage (2Un+1000)V in period of at least 60 s or 1.2x(2Un+1000)V for at least 100 ms.

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認証証書

CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TUV IT 14 ATEX 065 X Rev.7

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Motor enclosures size 112, 180, 200, 225, 250 satisfied overpressure test with 4x Pref at -20℃ so it is not necessary to perform routine overpressure test.

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Brake enclosures:

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CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

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- For installation in place with presence of dust group IIIC, when motors are made without flange, the D-end sealing ring shall be protected from light by a device supplied by the manufacturer

SUD

The motor supplied by inverter is equipped in the drive end stator winding overhang with PTC or PT100 thermal detectors per phase for temperature control. These are to be connected to a protection circuit so as to limit the stator temperature to:

· Max 85℃ for temperature class T6/T85℃

Max 120℃ for temperature class T4/T125℃

. Max 130℃ for temperature class T4/T135℃

Max 140°℃ for temperature class T3/T150℃

[18] Essential Health and Safety Requirements

Assured by compliance with the standards set out in the [9].

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[19] Drawings and Documents (prot. 236780 + 265272 + 264986 + 266851 + 267086 +

267315 + 269652 + 272617 + 722126766 + 722133950 + 722134606 + 722134856 + 722145148 + 722152215 + 722155264 + 722146214 + 722159722)

Title:

Description:

Pages:

Rev:

Date:

NT/BM/0631/C\_B/IEC

Technical note (motors)

40

n.a.

07/08/2014

NT/DP/0631/HD-C-B

Technical note (brakes)

24

n.a.

19/03/2015

NT/MGDP/0631/C- B/ATEX/3

Technical note (T5/T6 temperature class)

05

n.a.

24/02/2016

NT DP D180250 280

Technical note (T6 temperature class

04

n.a.

20/06/2017

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TÜV® page 9 of 19

認証証書

CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TÜV IT 14 ATEX 065 X Rev.7

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**[17] Special conditions for safe use**

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- The motor intended for use with ambient temperature > 50℃ shall be feed with cable of thermal stability not less of 90℃

- The dimensions of the joints are different from those indicated in the reference standards. For information about dimensions of the flameproof joints the manufacturer shall be contacted

- The motor when provided with cables permanently connected shall have these cables protected against the risk of damage due to mechanical stresses. The end connection shall be made according to one of the types of protection indicated in the EN60079-0 standard and in accordance with the installation rules in force in the site of installation SUD

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CERTIFICAT

CERTIFICADO

T6

280 + brake -60℃)

NT\_DP\_250T6H132T5 CMP787

Technical note (T6/T5 temperature class 250/132 + elbow adapter)

05

n.a.

05/05/2017

NT/MG/160MG /IIC

Technical note (T5 temperature class 160)

03

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08/08/2017

NT/FO/90&132T6/IIC

(T6 temperature class 90 & 132)

04

0

19/12/2017

NT/AM/11T5160L48/B

Technical note (T6 temperature class 160)

04

0

24/08/2011

Technical note

(T5 temperature class motors size:

D ..... r 180L4

H ..... r 71B4

H ..... r 80A4

H ..... r 90S4

12

0

15/01/2018

H ..... r 100LA4

H ..... r 132ML4

H ..... r 132S28 )

NT/FO/160L4/T5/IIC

Technical note (T5 temperature class 160 L 4) Safety instructions

04

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09/03/2018

SD-9xDP

15

n.a

12/2014

Nameplate motor Gas and Dust types:

D ..... r 180L4

H ..... r 71B4

H ..... r 80A4

H ..... r 90S4

01

n.a

05/02/2018

H ..... r 100LA4

H ..... r 132ML4 H ..... r 132S28 )

GA71180\_CT5\_100

Nameplate motor Gas types: DC30r 160L4

01

n.a.

05/02/2018

D-G63\_C, D-G63\_B, D-D63\_IIIC,

D-D63\_IIIB, D-G71\_C, D-G71\_B, D-D71\_IIIC, D-D71\_IIIB, D-G80\_C, D-G80\_B, D-D80\_IIIC, D-D80\_IIIB, D-G90\_C, D-G90\_B, D-D90\_IIIC, D-D90\_IIIB, D- G100 C D-G100\_B, D-D100\_IIIC D-D100\_IIIB, H-G63\_C, H-G63\_B, H-D63\_IIIC, H-D63\_IIIB, H-G71\_C, H-G71\_B, H-D71\_IIIC, H-D71\_IIIB, H-G80\_C, H-G80\_B, H-D80\_IIIC, H-D80\_IIIB, H-G90\_C, H-G90\_B, H-D90\_IIIC, H-D90 IIIB, H-G100\_C, H-G100\_B, H-D100\_IIIC, H-D100 IIIB

Nameplate motor Gas and Dust

40

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20/03/2015

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D-G112\_C, D-G112\_B, D-D112\_IIIC,

Nameplate motor Gas and Dust

24

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20/03/2015

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認証証書

CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TUV IT 14 ATEX 065 X Rev.7

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Technical note

CERTIFICAT

CERTIFICADO

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D-D112\_IIIB, D-G132\_C, D-G132\_B, D-D132\_IIIC, D-D132\_IIIB, D-G160\_C, D-G160\_B, D-D160\_IIIC, D-D160\_IIIB, H-G112\_C, H-G112\_B, H-D112\_IIIC, H-D112\_IIIB, H-G132\_C, H-G132\_B, H-D132\_IIIC, H-D132\_IIIB, H-G160\_C, H-G160\_B, H-D160\_IIIC, H-D160 IIIB

D-G180\_C, D-G180\_B, D-D180\_IIIC, D-D180\_IIIB,

Nameplate motor Gas and Dust

16

0

03/03/2015

D-G280\_C, D-G280\_B, D-D280\_IIIC, D-D280\_IIIB,

Nameplate motor Gas and Dust

8

0

03/03/2015

D-G315\_C, D-G315\_B, D-D315\_IIIC, D-D315\_IIIB

D280315\_C

Name plate - dust

1

0

18/07/2014

G280315 C

Name plate - gas

1

0

18/07/2014

GD280315 BIG

Name plate - bigger

1

0

18/07/2014

GD280315\_C

Name plate - gas\_dust

1

0

18/07/2014

GD280715

Auxiliary plate

1

0

25/06/2014

C63315-I

Inverter nameplate

1

0

07/08/2014

D63315-C

Motor nameplate

1

0

03/12/2014

GD63315 BIG

Name plate - bigger

1

0

03/12/2014

GD63315-C

Motor nameplate

1

0

03/12/2014

C12610 A

Auxiliary nameplate

1

0

30.06.2014

58062003

1

0

08/02/2018

A580630N11

63-112 Overall dimensional drawing for motor Ex-e terminal box

1

0

27/07/2017

GD280740

Cable entries plate

1

0

25.06.2014

GD280700

Overall dimensional drawing for motor std terminal box

1

0

25.06.2014

GD280728

Overall dimensional drawing for motor oversized terminal box

1

0

25.06.2014

GD280732

Overall dimensional drawing for motor with plate

1

0

25.06.2014

GD280701

1

0

25.06.2014

GD280741

Overall dimensional drawing with

1

0

25.06.2014

SÜD

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TÜV IT 14 ATEX 065 X Rev.7

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СЕРТИФИКАТ

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D-G200\_C, D-G200\_B, D-D200\_IIIC, D-D200\_IIIB, D-G225\_C, D-G225\_B, D-D225\_IIIC, D-D225\_IIIB, D-G250\_C, D-G250\_B, D-D250\_IIIC, D-D250 IIIB

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CERTIFICAT

CERTIFICADO

СЕРТИФИКАТ

TÜ

SU 1

GD7821007

Earth screw

1

0

25.06.2014

GD72061001

Fan cover

1

0

25.06.2014

GD71061001

Plastic fan

1

0

25.06.2014

GD71061002

Aluminum fan

1

0

25.06.2014

GD280708

Plate/frame joint (L7)

1

0

25.06.2014

GD280717

1

0

25.06.2014

GD28102001 2

Drawing EndShield - Rear

1

2

25.06.2014

GD28103001

Drawing End Shield - Front

1

0

25.06.2014

GD48100001 2

Drawing Shaft 100

1

2

25.06.2014

GD58062001 3

Drawing Terminal box lid

1

3

25.06.2014

GD58063001 8

Drawing Terminal box

1

8

25.06.2014

GD38103001 2

Drawing Frame B3

1

2

25.06.2014

GD281602

Overall dimensional drawing for motors size 112-132

1

0

25.06.2014

GD281603

Overall dimensional drawing for motors size 112-132 (joint position)

1

0

25.06.2014

GD281625

Overall dimensional drawing for motor size 160 simplified version (joint position)

1

0

25.06.2014

GD281601

Overall dimensional drawing for motor size 160 doubled cup version

1

0

25.06.2014

GD281604

Overall dimensional drawing for motor 160 doubled cup version (joint position)

1

0

25.06.2014

GD281623

Overall dimensional drawing for motor 160 simplified version

1

0

25.06.2014

GD281616

Overall dimensional drawing with forced ventilation size 112 - 132

1

0

25.06.2014

T

forced ventilation 90

GD280718

Overall dimensional drawing with forced ventilation 100

1

0

25.06.2014

GD280703

Overall dimensional drawing for motor IC410

1

0

25.06.2014

GD280702

Standard Terminal box with joint dimensions

1

0

25.06.2014

GD280727

Oversized Terminal box with joint dimensions, version with capacitor

1

0

25.06.2014

GD280739 1

Oversized Terminal box with joint dimensions

1

1

25.06.2014

GD280710

Shaft/shield joint (L1)

1

0

25.06.2014

GD280709

Shield/frame joint (L3)

1

0

25.06.2014

GD280704

Standard Terminal box/frame joint (L2) - Terminal box/cover joint (L5)

1

0

25.06.2014

GD280707

Oversized Terminal box/frame joint (L2) - Terminal box/cover joint (L4)

1

0

25.06.2014

GD280737

Drain valve joint (L12)

1

0

25.06.2014

GD280714

Drilled area for cable entries terminal box

1

0

25.06.2014

GD58061201

Drilled area for cable entries plate

1

0

25.06.2014

GD50068086\_1

Main terminal

1

1

25.06.2014

GD700.00\_2

Auxiliary terminal

1

2

25.06.2014

認証証書

ZERTIFIKAT

[13]

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SCHEDULE

[14]

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N

ÜD

T

CERTIFICAT

CERTIFICADO

N

GD281608

Terminal box mounting and joint positions size 112-132-160

1

0

25.06.2014

GD281615

Terminal box Drilled area

1

0

25.06.2014

GD281605

Shaft/shield joint (L1) motors size 112-132

1

0

25.06.2014

GD281624

Shaft /rear shield joint (L8) motors size 160 simplified version

1

0

25.06.2014

GD281618

Shaft /inner cup joint (L1 - L2 - L7) motors size 160

1

0

25.06.2014

GD281606

shield/frame joint (L2) motors size 112-132

1

0

25.06.2014

GD281607

Terminal box/frame joint (L3) Terminal box/cover joint (L4) motors size 112-132-160

1

0

25.06.2014

GD281612

Drain valve joint (L5)

1

0

25.06.2014

GD50118086

Main terminal

1

0

25.06.2014

GD700.00\_2

Auxiliary terminal

1

2

25.06.2014

GD7821007 / GD7821008

Earth screw Internal / external

2

0

25.06.2014

GD721\_TAB

Fan cover motors size 112/132/160

1

0

25.06.2014

GD71111001

Plastic fan motors size 112/132/160

1

0

25.06.2014

GD7111-TAB

Aluminium fan motors size 112/132

1

0

25.06.2014

GD112-160

Aluminium fan motors size 112/132/160

1

0

25.06.2014

GD71165021

Conical aluminum fan motors size 112- 160

1

0

25.06.2014

GD281630

Motor without ventilation - Overall dimensional drawing size 112-132

1

0

25.06.2014

GD281631

Motor without ventilation - Overall dimensional drawing size 160 simplified

1

0

25.06.2014

GD281632

Motor without ventilation - Overall dimensional drawing size 160 double inner cup

1

0

25.06.2014

GD281626

Motor without terminal box size 112- 132

1

0

25.06.2014

GD281613

Motor without terminal box size 112 - 132 joint position

1

0

25.06.2014

GD281638

Motor without terminal box size 160 joint position

1

0

25.06.2014

GD281627

Motor without terminal box size 160 simplified version

1

0

25.06.2014

GD281628

Motor without terminal box size 160 double inner cup

1

0

25.06.2014

GD281629

Motor without terminal box size 160 joint position simplified

1

0

25.06.2014

GD281617

Motor without terminal box size 160 doubled cup version (joint position)

1

0

25.06.2014

GD281614

Plate/frame joint (L3)

1

0

25.06.2014

GD58111201

Cable exit plate dimensions

1

0

25.06.2014

GD28162101

Drawing EndShield - Rear Composed

1

0

25.06.2014

GD28162701

Drawing End Shield - Rear Simplified

1

0

25.06.2014

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Italia

GD281639

Overall dimensional drawing with forced ventilation size 160 simplified version

1

0

25.06.2014

GD281619

Overall dimensional drawing with forced ventilation size 160 doubled cup version

1

0

25.06.2014

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СЕРТИФИКАТ

TÜ

S

認証証書

CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

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SÜD

N

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CERTIFICAT

CERTIFICADO

GD28163101

Drawing End Shield - Front

1

0

25.06.2014

GD28168001 1

Drawing Inner bearing cap

1

1

25.06.2014

GD28169001 5

Drawing End cap bearing

1

5

25.06.2014

GD38163001 1

Drawing Frame B3

1

1

25.06.2014

GD48160001 4

Drawing shaft composed

1

4

25.06.2014

GD48165001 2

Drawing shaft simplified

1

2

25.06.2014

GD58112001

Drawing Terminal box lid

1

0

25.06.2014

GD58113001\_6

Drawing Terminal box

1

6

25.06.2014

GD28163001

Motor 160, end shield - Rear, B3

1

0

25.06.2014

GD28162501

Motor 160, end shield - Rear, B3

1

0

25.06.2014

GD28162001

Motor 160, end shield - Rear, B3

1

0

25.06.2014

GD183028

Overall dimensional drawing for motor simplified version

1

1

25.06.2014

GD183029

1

1

25.06.2014

GD183030

1

1

25.06.2014

GD183032

Overall dimensional drawing with forced ventilation

1

1

25.06.2014

GD183040

Overall dimensional drawing for motor simplified version IC410

1

1

25.06.2014

GD183041

Overall dimensional drawing for motor doubled cup version IC410

1

1

25.06.2014

GD183031

External bearing cup - plane joint dimensions

1

1

25.06.2014

SU

GD183016

Terminal box with joint dimensions

1

0

25.06.2014

GD183017

Shaft /inner cup joint (L5)

1

1

25.06.2014

GD183018

Shaft/shield joint (L1)

1

1

25.06.2014

GD183019

Cup/shield joint (L6)

1

1

25.06.2014

GD183002

Front shield/frame joint (L3) size 180

1

1

25.06.2014

GD183004

Back shield/frame joint (L3 Bis) size 180

1

1

25.06.2014

GD183008

Terminal box/frame joint (L7) - Terminal box/cover joint (L8)

1

1

25.06.2014

GD183009

Threaded joint for main terminal (L9)

1

1

25.06.2014

GD183013

Drain valve joint (L12)

1

1

25.06.2014

GD183015

Drilled area for cable entries terminal box

1

0

25.06.2014

GD50184096

Main terminal

1

1

25.06.2014

GD50188090 / GD50189091

Insulating plate

2

1

25.06.2014

GD183022 / GD183023 / GD183024

Terminal box Connection : Star / Delta / 6 wires

3

1

25.06.2014

GD700.00 2

Auxiliary terminal Earth screw

1

2

25.06.2014

GD7821008

1

0

25.06.2014

GD28103001

Motor 180 - Front shield

1

0

25.06.2014

GD28102501

Motor 180 - simplified rear shield

1

0

25.06.2014

GD28102001

Motor 180 - composite rear shield

1

0

25.06.2014

GD28228001 / GD28228002

Motor 180 - inner cup , front and rear

2

0

25.06.2014

GD72181001

Fan cover

1

1

25.06.2014

GD71180070

Plastic fan

1

1

25.06.2014

GD71185021

Aluminum conical fan size 180-200

1

1

25.06.2014

GD71184121

Aluminum fan size 180

1

0

25.06.2014

GD183033

Motor without terminal box - Overall dimensional drawing

1

1

25.06.2014

GD183034

1

1

25.06.2014

GD183035

Motor simplified version without

1

1

25.06.2014

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CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

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EU-TYPE EXAMINATION CERTIFICATE No. TUV IT 14 ATEX 065 X Rev.7

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T

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TÜ

認証証書

N

ÜD

T

CERTIFICAT

[13]

[14]

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GD183036

Plate/frame joint (L7)

1

0

25.06.2014

GD58181201

Plate with radial exit

1

1

25.06.2014

GD58181301

Plate with axial exit

1

1

25.06.2014

58182002

1

0

08/02/2018

A581830N14

180-250 Overall dimensional drawing for motor Ex-e terminal box

1

0

27/07/2017

GD183028

Overall dimensional drawing for motor simplified version

1

1

25.06.2014

GD183029

1

1

25.06.2014

GD183032

Overall dimensional drawing with forced ventilation

1

1

25.06.2014

GD183040

Overall dimensional drawing for motor simplified version IC410

1

1

25.06.2014

GD183041

Overall dimensional drawing for motor doubled cup version IC410

1

1

25.06.2014

GD183031

External bearing cup - plane joint dimensions

1

1

25.06.2014

GD183016

Terminal box with joint dimensions

1

0

25.06.2014

GD183017

Shaft /inner cup joint (L5) size 180-250

1

1

25.06.2014

GD183018

Shaft/shield joint 180-250

(L1) size

1

1

25.06.2014

GD183019

Cup/shield joint 180-250

(L6) size

1

1

25.06.2014

GD183002

Front shield/frame joint (L3) size 180-225

1

1

25.06.2014

GD183003

Front shield/frame joint (L3) size 250

1

0

25.06.2014

GD183004

Back shield/frame joint 180:225

(L3 Bis) size

1

1

25.06.2014

GD183005

Back shield/frame joint (L3 Bis) size 250

1

0

25.06.2014

GD183008

Terminal box/frame joint (L7) - Terminal box/cover joint (L8)

1

1

25.06.2014

GD183009

Threaded joint for main terminal (L9)

1

1

25.06.2014

GD183013

Drain valve joint (L12

1

1

25.06.2014

GD183015

Drilled area for cable entries terminal box

1

0

25.06.2014

GD50184096

Main terminal

1

1

25.06.2014

GD50188090 / GD50189091

Insulating plate

2

1

25.06.2014

GD183022 / GD183023 / GD183024

Terminal box Connection : Star / Delta / 6 wires

3

1

25.06.2014

GD700.00 2

Auxiliary terminal

1

2

25.06.2014

GD7821008

Earth screw

1

0

25.06.2014

GD28203001

Motor 200 - Front shield

1

1

25.06.2014

GD28202501

Motor 200 - simplified rear shield

1

0

25.06.2014

GD28202001

Motor 200 - composite rear shield

1

0

25.06.2014

GD28208001 / GD28208002

Motor 200 - inner cup , front and rear

2

0

25.06.2014

GD28223001

Motor 225 - Front shield

1

0

25.06.2014

GD28222501

Motor 225 -simplified rear shield

1

0

25.06.2014

GD28222001

Motor 225 -composite rear shield

1

0

25.06.2014

GD28228001 / GD28228002

Motor 225 - inner cup , front and rear

2

0

25.06.2014

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1

CERTIFICADO

N

UD

СЕРТИФИКАТ

TÜ

SU

認証証書

CERTIFICATE

ZERTIFIKAT

TUV SÜD

SCHEDULE

GD183030

1

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25.06.2014

SÜD

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CERTIFICAT

CERTIFICADO

GD28253001

Motor 250 - Front shield

1

1

25.06.2014

GD28252501

Motor 250 -simplified rear shield

1

1

25.06.2014

GD28252001

Motor 250 -composite rear shield

1

0

25.06.2014

GD28258003

Motor 250 - inner cup , front and rear

1

0

25.06.2014

GD28258002

Motor 250 - inner cup , front and rear

1

1

25.06.2014

GD38203001

Frame 200

1

1

25.06.2014

GD38223001

Frame 225

1

1

25.06.2014

GD38253001

Frame 250

1

0

25.06.2014

GD48200001

Shafts 200

1

1

25.06.2014

GD48205001

Shafts 200

1

1

25.06.2014

GD48220001

Shafts 225

1

1

25.06.2014

GD48225001

Shafts 225

1

0

25.06.2014

GD48250001

Shafts 250

2.

0

25.06.2014

GD48255001

GD58183502

Terminal box 200-250

1

3

25.06.2014

GD58182001

Terminal box lid 200-250

1

0

25.06.2014

GD72181001

Fan cover

1

1

25.06.2014

GD71180070

Plastic fan

1

1

25.06.2014

GD71185021

Aluminium conical fan size 180-200 Aluminum fan size 200

1

0

25.06.2014

GD71224121

Aluminium fan size 225+250

1

0

25.06.2014

GD71225021

Aluminium conical fan size 225-250 2 pole

0

0

25.06.2014

GD183033

Motor without terminal box - Overall dimensional drawing

1

1

25.06.2014

GD183034

1

1

25.06.2014

GD183035

1

1

25.06.2014

GD183036

Plate/frame joint (L7)

1

0

25.06.2014

GD58181201

Plate with radial exit

1

1

25.06.2014

GD58181301

Plate with axial exit

1

1

25.06.2014

58282003

1

0

04/05/2017

A582830N09

280-315L Overall dimensional drawing for motor Ex-e terminal box

1

0

27/07/2017

GD283139

Cable entries plate

1

0

25/06/2014

GD283125

Overall dimensional drawing motor 280

1 0

25/06/2014

GD283100

1 0

25/06/2014

GD283107

Overall dimensional drawing for motor 315

1

0

25/06/2014

GD283124

Overall dimensional drawing with forced ventilation

1

0

GD283119

Drilled area

1

0

25/06/2014

GD283120

Terminal box connection

1

0

25/06/2014

GD283129

External bearing cup - OR dimensions

1

0

25/06/2014

GD283114

Overall drawing for Terminal box joint

1

1

GD283101

Shaft /bearing cup joint (L1)

1

1

25/06/2014

GD283102

Shield/frame joint (L3)

1

0

25/06/2014

GD283116

Bearing cap/shield joint (L2)

1

0

25/06/2014

GD283103

Terminal box/frame joint (L4)

1

0

25/06/2014

GD283104

Terminal box/ Terminal box lid (L5)

1

1

25/06/2014

GD283106

Earth screw

1

0

25/06/2014

GD283110

Rubber bushing joint Bartec (L7)

1

0

25/06/2014

GD283105

Threaded joint for main terminal L6)

1

1

25/06/2014

SÜD

CERTIFICATE

ZERTIFIKAT

[13]

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[14]

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7

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TÜ

SU

認証証書

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25.06.2014

GD71204121

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25/06/2014

25/06/2014

CERTIFICAT

CERTIFICADO

GD313111

Drain valve joint (L8)

1

1

25/06/2014

GD283140

Rubber bushing joint (L9)

1

0

25/06/2014

GD50283093

Main terminal Ex de

1

0

25/06/2014

GD58283090

Main terminal Exd

1

0

25/06/2014

GD50283092

Clamp for passing

1

0

25/06/2014

GD700.00 2

Auxiliary terminal

1

2

25/06/2014

GD283118

Earth screw

1

0

25/06/2014

GD28283001

Endshield 280-315

1

0

25/06/2014

GD28285001

Flange 280

1

0

25/06/2014

GD28287001

Flange 315

1

0

25/06/2014

GD28288003

Inner bearing

1

0

25/06/2014

GD283126

Aluminum fan 2 poles

1

0

25/06/2014

GD283127

Aluminum fan 4-6-8 poles

1

0

25/06/2014

GD28289001

End cap bearing

1

0

25/06/2014

GD28289901

Grease sealing ring

1

0

25/06/2014

GD38285001

Frame 315

1

0

25/06/2014

GD38285501

Frame 280

1

0

25/06/2014

GD38287001

Removable feet 280

1

0

25/06/2014

GD38288001

Removable feet 315

1

0

25/06/2014

GD58282001

Terminal box lid

1

0

25/06/2014

GD28283001

Terminal box

1

1

25/06/2014

GD58284001

Plate

1

0

25/06/2014

GD72281001

Fan cover

1

0

25/06/2014

NT/DP/D315L/C

Technical file

5

0

03/11/2015

DC315LC

Nameplate

1

0

12/11/2015

GD313101

Brake assembly drawing

1

n.a.

03/11/2015

GD313150

315L motor dimensional drawing IC410

1

n.a.

05/11/2015

GD313151

315L motor dimensional drawing IC416

1

n.a.

GD28280001

Brake flange 280-315

1

n.a.

23/12/2014

GD28314001

Flanged shield 315L

1

n.a.

03/11/2015

GD71310021

315L Fan

1 n.a.

05/11/2015

GD72311091

Fan cap 280-315

1

n.a.

23/12/2014

GD290700

Overall dimensional drawing for brake motor IC410

1

0

19/12/2014

GD290701

Overall dimensional drawing for brake motor IC411

1

0

19/12/2014

GD290702

Overall dimensional drawing for brake motor IC416

1

0

19/12/2014

GD290719

1

0

19/12/2014

GD290720

1

0

19/12/2014

GD291100

Overall dimensional drawing for brake motor D112 IC410

1 0

19/12/2014

GD291101

Overall dimensional drawing for brake motor D112 IC411

1

0

19/12/2014

GD291102

Overall dimensional drawing for brake motor D112 IC416

1

0

19/12/2014

GD290703

Brake assembly

1

0

19/12/2014

GD290725

Mounting terminal box 63-112

1

2

19/12/2014

GD291127

Mounting terminal box 112

1

2

19/12/2014

GD290721

Shaft/Brake cover joint (L10)

1

0

19/12/2014

GD290722

End shield/Brake cover joint (L9)

1

0

19/12/2014

GD290724

Brake cables joints (L11)

1

0

19/12/2014

GD290704

Fan cover

1

0

19/12/2014

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CERTIFICATE

ZERTIFIKAT

[13]

TUV SÜD

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE No. TUV IT 14 ATEX 065 X Rev.7

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Italia

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03/11/2015

CERTIFICAT

CERTIFICADO

GD71071071

Cooling fan

1

0

19/12/2014

GD28061001

Drawing brake cover 63

1

0

19/12/2014

GD28060001

Drawing brake end shield 63

1

0

19/12/2014

GD28071004

Drawing brake cover 71

1

0

19/12/2014

GD28070001

Drawing brake end shield 71

1

0

19/12/2014

GD28081004

Drawing brake cover 80

1

1

19/12/2014

GD28080001

Drawing brake end shield 80

1

0

19/12/2014

GD28091004

Drawing brake cover 90

1

0

19/12/2014

GD28090001

Drawing brake end shield 90

1

0

19/12/2014

GD28101005

Drawing brake cover 100

1

0

19/12/2014

GD28100001

Drawing brake end shield 100

1

0

19/12/2014

GD28111006

Drawing brake cover 112

1

0

19/12/2014

GD28110001

Drawing brake end shield 112

1

0

19/12/2014

GD291100

Overall dimensional drawing for brake motor size 112-132-160 IC410

1

0

19/12/2014

GD291101

Overall dimensional drawing for brake motor size 112-132-160 IC411

1

0

19/12/2014

GD291102

Overall dimensional drawing for brake motor size 112-132-160 IC416

1

0

19/12/2014

GD291103

Brake assembly

1

0

19/12/2014

GD291119

Overall dimensional drawing for motor 112-132-160 IC410 (joint position)

1

0

19/12/2014

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GD291120

Overall dimensional drawing for motor 112-132-160 IC411 (joint position)

1

0

19/12/2014

GD291127

Terminal box mounting

1

2

19/12/2014

GD291121

Shaft/Brake cover joint (L10)

1

0

19/12/2014

GD291124

Brake cable joint (L9)

1

0

19/12/2014

GD291125

End shield/Brake cover joints (L11)

1

0

19/12/2014

GD291104

Fan cover motors size 112/132/160

1

0

19/12/2014

GD71711071

Plastic and aluminum fan motor size 112/132/160

1

0

19/12/2014

GD71711081

Aluminum fan motors size 132/160

1

0

19/12/2014

GD28110006

Drawing brake cover 112

1

0

19/12/2014

GD28110001

Drawing brake end shield 112

1

0

19/12/2014

GD28131006

Drawing brake cover 132

1

0

19/12/2014

GD28130001

Drawing brake end shield 132

1

0

19/03/2015

GD28161005

Drawing brake cover 160

1

0

19/03/2015

GD28160002

Drawing brake end shield 160

1

0

19/03/2015

GD290723

Joint shaft unlock: brake enclosures 71-100

1

0

13/11/2015

GD291126

Joint shaft unlock: brake enclosures 112-160

1

0

13/11/2015

NTDP\_D63160S\_C

Technical note

4

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13/11/2015

GD183005

Overall dimensional drawing IC410

1

0

23/12/2014

GD183006

Overall dimensional drawing IC416

1

0

23/12/2014

GD183007

23/12/2014

GD183008

Brake assembling

1

0

23/12/2014

GD183011

Mounting brake terminal box and joint dimension

1

0

23/12/2014

GD183014

Terminal box brake with encoder and micro switch

1

0

23/12/2014

GD183004

Terminal box brake with encoder

1

0

23/12/2014

GD183001

Brake enclosure / shield joint (L13)

1

0

23/12/2014

GD183002

Brake enclosure / cover joint (L14)

1

0

23/12/2014

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GD183003

Shaft/shield back joint (L1)

1

0

23/12/2014

GD183009

Terminal box brake/frame joint (L15) Terminal box brake/cover brake joint

1

0

23/12/2014

(L16)

GD183010

Rear shield / frame stud bolts

1

0

23/12/2014

GD183012

Rubber bushing joint (L17)

1

0

23/12/2014

GD 702.00

Auxiliary terminal

1

0

23/12/2014

GD7111\_TAB

Aluminum fan

1

0

23/12/2014

GD72251061

Cover fan IC416

1

0

23/12/2014

GD28180001

Brake shield 180

1

0

23/12/2014

GD28200001

Brake shield 200

1

0

23/12/2014

GD28220001

Brake shield 225

1

0

23/12/2014

GD28250001

Brake shield 250

1

0

23/12/2014

GD28251001

Brake cover 180-250

1

0

23/12/2014

GD28251501

Brake cover lid 180-250

1

0

23/12/2014

GD283150

Overall dimensional drawing for motor 280 IC410

1

0

23/12/2014

GD283151

Overall dimensional drawing for motor 280-315 IC416

1

0

23/12/2014

GD283152

Overall dimensional drawing for motor 315 IC410

1 0

23/12/2014

GD283112

Brake assembly

1

0

23/12/2014

GD283154

Assembly brake shield/rear motor shield

1

0

23/12/2014

GD283101

Brake cover / brake shield joint (L13)

1

0

23/12/2014

GD283102

Brake cover / brake cover lid joint (L14)

1

0

23/12/2014

GD283103

Shaft / Brake shield joint (L18)

1

0

23/12/2014

GD283109

Terminal box brake/frame joint (L15) Terminal box brake/cover brake joint (L16)

1

0

23/12/2014

GD283111

Manual brake release lid (L17)

1

0

23/12/2014

GD283155

Brake cover / Brake cover lid joint with forced ventilation (L14)

1

0

23/12/2014

GD28251001

Brake cover 280-315

1

0

23/12/2014

GD28251502

Brake cover lid 280-315

1

2

23/12/2014

GD28280001

Brake shield 280-315

1

0

23/12/2014

GD28284001

Endshield 280-315

1

0

23/12/2014

GD72281091

Fan cover IC416

1

0

23/12/2014

GD71280021

Aluminum fan 4-6-8 poles

1

0

23/12/2014

CD 183011

Brake hand manual release

1

0

21/11/2015

One copy of all documents is kept in TÜV Italia files.

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