



Certification Excellence

PRODUCT CERTIFICATION

This is to certify that:

**Marthinusen & Coutts - Cleveland
(a Division of ACTOM (Pty) Ltd.)**

is a CERTEX approved manufacturer and repairer and may apply the CERTEX mark of approval on their products as indicated on the schedule of certification that accompanies this certificate.

This certificate is valid from 30 October 2018 and expires on 30 October 2021 provided that all CERTEX conditions are complied with.

**SANS 60079-0
SANS 60079-1
SANS 60079-15
SANS 10242-1**

Certificate Number: CX0826 Edition 5.0

A handwritten signature in black ink, appearing to read 'JG Auret'.

JG Auret
Director: Technical



Certification Excellence

SCHEDULE OF CERTIFICATION

1. Certificate holder

<p><u>Name of Manufacturer:</u> Marthinusen & Coutts – Cleveland (a Division of ACTOM (Pty) Ltd.) <u>Address:</u> 53 Hospital Road, Cleveland, Johannesburg <u>Tel:</u> +11 616 2320 <u>Cell:</u> + 86 524 0757 <u>Fax:</u> +11 607 1740 <u>E-mail:</u> PAULD@mandc.co.za</p>	<p><u>Management Representative</u> Mr Paul de Nobrega</p>
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2. Validity period

Date of Issue: 30 October 2018
Expiry Date: 30 October 2021

3. Products covered by Certex mark certification

The Certex certification scheme covers the repair of low-voltage three-phase alternating current induction motors of the cage and wound rotor (slip-ring) types, with rated output not exceeding 800 kW, for rated voltages not exceeding 1 100 V between phases, at a service frequency of 50 Hz in terms of SANS 10242-1.

This includes repaired flameproof (Ex d) motors, repaired and converted non-sparking (Ex nA) motors and repaired and converted dust-ignition-protected by enclosure (Ex t) motors.

NOTE - Only products listed in a valid CERTEX Schedule of Certification are covered by the CERTEX mark. For extension of the schedule, the mark holder must lodge an application with CERTEX.

3.1. Flameproof motors: Manufacture

Product	Product standard	Ex rating	IA/GME certificate
Femco Mining (now part of Marthinusen & Coutts) DC range up to 200kW	SANS 60079-1	Ex d I 150°C	SABS M777/N313: 22 kW traction 200kW 200P 270kW 270P SABS M/T533: 80kW

in terms of flameproof (Ex d) equipment standard SANS 60079-1 Ed 4: 2007 (SANS 60079-0 Ed 4.0: 2009).

3.2. Flameproof motors: Repair

Product	Product standard	Ex rating	IA/GME certificate
WEG AC range up to 160kW	SANS 60079-1	Ex d I/IIB T4	SABS MS787/K154
Boyd Brown AC range up to 110kW	SANS 60079-1	Ex d I/IIB 150°C	GME V487: E90 GME VM705: E100 L/LD GME V481: E112 M GME V595: E112 MP GME V405: E132 S GME VM604: E132 MP/SP SABS M787/J349: E132 SP GME V163: E160 MPA GME V241: E160 LDA GME V279: E160 M GME V346: E160 LP GME V482: E160M GME V511: E160 XP GME VM892: E160 L GME VM1044: E160 MD GME V248: E170 D GME V139: E180

Product	Product standard	Ex rating	IA/GME certificate
			GME V217 E180 GME VM836: E180 M GME V135: E200 GME V265: E200L GME V457: E200 LP GME V532: E200 XP GME V548: E200L GME VM806: E200 LDH SABS M787/K144: E200 VOEST GME VM747: E210 L GME V46: E225 MP GME V280: E225 S GME V399: E225 M SABS M787/H226: E225 GME V198: E250 M GME V263: E250 S GME VM1034 E250 LB GME VM1103: E250 LB GME VM3230: E250 GME V262: E280 S SABS M787/J291: E280 S GME V274: E315 M GME VM726 E315 L GME VM1292 E315 S SABS M787/J100 E315 GME V296 E324 D
Teco AC and DC range up to 110kW	SANS 60079-1	Ex d I 150°C	GME V119: 37kW, 60kW, 90kW GME V107: 55kW GME VM385 GME VM849 GME VM1061 GME VM1120: 45kW 525/1050V GME VM1393 GME VM1444: 15kW GME VM1643: DC Electric Motor GME VM1696: 30kW GME VM1719: 149kW GME VM1784 GME VM1876: 95kW GME VM2187 GME VM2357 GME VM2358

Product	Product standard	Ex rating	IA/GME certificate
Femco Mining (now part of Marthinusen & Coutts) DC range up to 200kW	SANS 60079-1	Ex d I 150°C	SABS M777/N313: 22 kW traction 200kW 200P 270kW 270P SABS M/T533: 80kW
Hawker Siddeley AC range up to 160kW	SANS 60079-1	Ex d I/IIB 150°C	GME VM660: 18,5kW Frame E225S GME VM661: 45kW Frame E225M GME VM662: 55kW Frame E250S GME VM663: 75kW Frame E250M GME VM664: 90kW Frame E280S GME VM665: 110 kW Frame E280M GME VM666: 132kW Frame E315S GME VM667: 150kW Frame E315M GME VM1648: 3kW 525V GME VM2212 GME VM2213
Alstom/Siemens AC LS4 range up to 160kW	SANS 60079-1	Ex d I/IIB 150°C	SABS MS777/N213
Joy AC and DC traction and pump motors up to 55kW	SANS 60079-1	Ex d I 150°C	GME V116: 19,5kW ac GME VM991: 22kW GME VM116: 10kW pump motor
Voest-Alpine/Sandvik DC range up to 200kW: Breuer, Damel, Loher, Elin	SANS 60079-1	Ex d I 150°C	To be supplied

in terms of

- a) LV Motor repair standards SANS 10242-1 Ed 1.0: 1999;
- b) Ex equipment repair standard SANS 10086-3 Ed 1.01: 2001; and
- c) Flameproof (Ex d) equipment standard SANS 60079-1 Ed 3: 2004 (SANS 60079-0 Ed 3.0: 2005).

3.3. Non-sparking motors: Conversion

Product	Product standard	Ex rating	IA/GME certificate

WEG AC range up to 160kW	SANS 60079-15	Ex nA II T3	Various
Hawker Siddeley AC range up to 160kW	SANS 60079-15	Ex nA II T3	Various
BMM AC range up to 160kW	SANS 60079-15	Ex nA II T3	Various
GEC AC range up to 160kW	SANS 60079-15	Ex nA II T3	Various

in terms of

- a) LV Motor repair standards SANS 10242-1: 2013;
- b) Ex equipment repair standard SANS 10086-3 Ed 1.01: 2001; and
- c) Non-sparking (Ex nA) equipment standard SANS 60079-15 Ed 3: 2001 (SANS 60079-0 Ed 3.0: 2005).

4. Standard industrial LV motors

AC and DC motors up to 800kW in terms of LV Motor repair standards SANS 10242-1 Ed 1.0: 1999.