

Date:  
Oct 05, 2011

Technical Newsletter

No:  
39



www.grindex.com

Subject:  
Incorrect SMART motor protection 51 511 00-04

Dear Distributor,

We have discovered a defect in our SMART motor protection with part number 51 511 00 up to 51 511 04. The function for connection 13-14 is mixed up with connection 15-16.

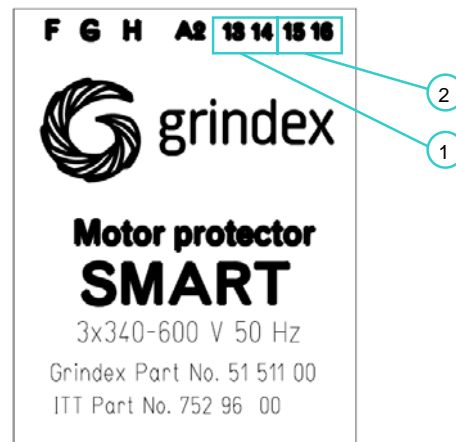
- **13-14 has by mistake automatic restart instead of manual reset**
- **15-16 has by mistake manual reset instead of automatic restart**

How the defect affects the pump:

- **Minex-Major, Salvador-Sandy**
  - If the pump gets too warm and the thermal contact trips the pump will stop and will not start until the power is disconnected and connected again.
- **Master and Matador**
  - If the pump gets too warm and the thermal contact trips the pump will stop and will not start until the power is disconnected and connected again.
  - If the pump draws too much amperage and the over load relay trips, the pump will stop and restart immediately.

Description of normal function for connection:

1. **13-14**, input for overload relay (only Master and Matador) with **manual reset**. If the overload relay trips, the power to the pump must be disconnected and connected before the pump can start.
2. **15-16**, input for thermal contact from stator with **automatic restart**. If the thermal contact trips caused by high temperature, the pump will automatic restart when it has cooled down.



### Pumps concerned

Minex 3-Ph	8101.171	Salvador 3-Ph	8109.281
Minette 3-Ph	8102.171	Senior	8110.280
Minor	8103.180	Sandy	8111.280
Major	8104.180		
Master	8105.181		
Matador	8106.180		

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### Period of time for the defect

Pumps have been delivered with defect SMART motor protection during the period, see table

Pump	From date				To date
	380-480 V 60 Hz with transformer	575-600 V 60 Hz with transformer	Other voltages 50 Hz	Other voltages 60 Hz	All voltages
Minex (8101.171)	2011-01-01	2011-01-01	2011-06-23	2011-08-31	2011-09-20
Minette (8102.171)	2011-01-01	2011-01-01	2011-06-23	2011-08-31	2011-09-20
Minor (8103.180)	2011-01-01 <sup>1)</sup> 2011-03-28 <sup>2)</sup>	2011-01-01	2011-06-23	2011-08-31	2011-09-20
Major (8104.180)	2011-01-01 <sup>1)</sup> 2011-03-28 <sup>2)</sup>	2011-01-01	2011-06-23	2011-08-31	2011-09-20
Master (8105.181)	2011-01-01 <sup>1)</sup> 2011-03-28 <sup>2)</sup>	2011-01-01	2011-06-23	2011-08-31	2011-09-20
Matador (8106.181)	2011-01-01 <sup>1)</sup> 2011-03-28 <sup>2)</sup>	2011-01-01 <sup>3)</sup> 2011-03-28 <sup>4)</sup>	2011-06-23	2011-08-31 2011-06-23 <sup>5)</sup>	2011-09-20
Salvador (8109.281)	2011-01-01	2011-01-01	2011-06-23	2011-08-31	2011-09-20
Senior (8110.280)	2011-01-01 <sup>1)</sup> 2011-03-28 <sup>2)</sup>	2011-01-01	2011-06-23	2011-08-31	2011-09-20
Sandy (8111.280)	2011-01-01 <sup>1)</sup> 2011-03-28 <sup>2)</sup>	2011-01-01	2011-06-23	2011-08-31	2011-09-20

<sup>1)</sup> 440-480 V, 60 Hz, connected D (6-lead stator)

<sup>2)</sup> 440-480 V, 60 Hz, connected YSER (9-lead stator)

<sup>3)</sup> 380-400 V, 60 Hz, connected D (6-lead stator)

<sup>4)</sup> 440-480 V, 60 Hz, connected D and YSER (9-lead stator)

<sup>5)</sup> 460 V, 60 Hz, with built in Star/Delta

Date is equal to serial number from:

2011-01-01	1110001
2011-03-28	1130001
2011-06-23	1150001
2011-08-31	1160001

From serial number 1170001 all SMART in the pumps are correct.

Spare parts delivered on part number 51 511 00-04 has the mixed up of connection according to information above.

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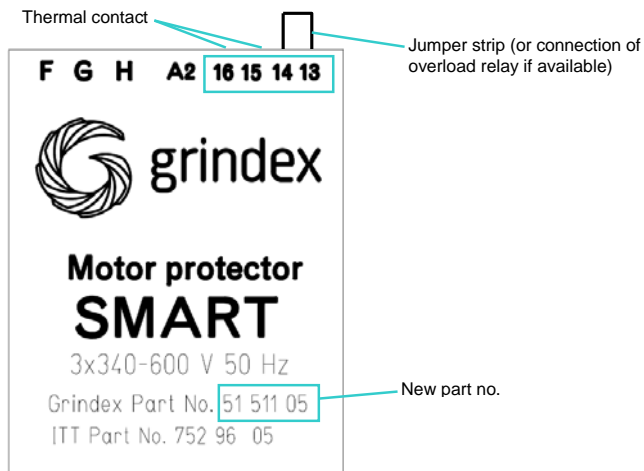
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### Measure

- All pumps in Grindex production and spare parts stock was remarked and reconnected (see example below) from date 2011-09-20.
- Wrong marked SMART (part number 51 511 00-04) replaced by new part numbers, see list under *Spare parts*.
- Remarking and reconnecting of motor protections, all distributor's:
  - Spare parts 51 511 00-04 in stock (only remarking with sticker)
  - New pumps in stock (remarking and reconnecting)
  - Pumps coming in for service (remarking and reconnecting)

Stickers with changed marking for 13-14 and 15-16 and new part number (see example below) will be sent out to each distributor.



### Spare parts

The old part number with wrong marking will be replaced by a new one from 2011-09-30.

SMART with wrong marking	Replaced by right marked SMART	Voltage range
51 511 00	51 511 05	340-600 V 50 Hz
51 511 01	51 511 06	340-600 V 60 Hz
51 511 02	51 511 07	190-240 V 50 Hz
51 511 03	51 511 08	190-240 V 60 Hz
51 511 04	51 511 09	660-690 V 50 Hz

Yours sincerely,

*Magnus Forssell*

Technical Support