

Date:
Dec 09, 2011

Technical Newsletter

No:
41:2



www.grindex.com

Subject:

SMART kit replacing all previous versions of motor protection 50 034 xx & 50 905 xx - series

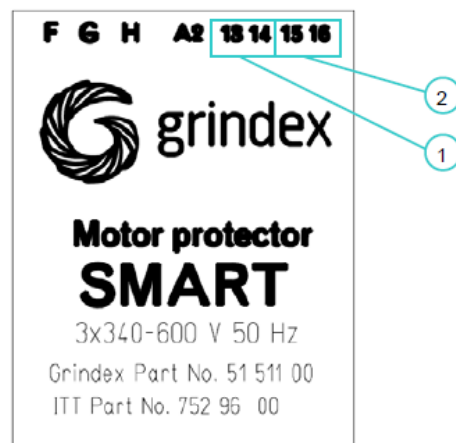
Dear Distributor,

During year 2011 a new a new SMART motor protection was introduced. To replace old Smart versions Grindex has created SMART motor protection kits with p/n 51 666 XX which includes the new SMART (p/n 51 511 XX) and 2 x jumper strip (p/n 50 509 00). The new kits replaces all previous SMART motor protection in the series 50 034 XX & 50 905 XX.

Describing the functionality of new 51 511 XX-serie (new range 81XX-serie)

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.



Please, see below and next page for information when replacing 50 034 xx or 50 905 xx.

SMART part no.	Voltage range	SMART part no.	Voltage range	SMART Kit which replaces 50034xx & 50905xx	Parts included in SMART Kit	Voltage range
5003400	190-240 V 50 Hz	5090500	190-240 V 50 Hz	51 666 07	1 x 51 511 07 2 x 50 509 00	190-240 V 50 Hz
5003401	346-460 V 50 Hz	5090501	346-460 V 50 Hz	51 666 05	1 x 51 511 05	340-600 V 50 Hz
5003402	500-575 V 50 Hz	5090502	500-575 V 50 Hz		2 x 50 509 00	
5003403	190-240 V 60 Hz	5090503	190-240 V 60 Hz	51 666 08	1 x 51 511 08 2 x 50 509 00	190-240 V 60 Hz
5003404	346-460 V 60 Hz	5090504	346-460 V 60 Hz	51 666 06	1 x 51 511 06	340-600 V 60 Hz
5003405	500-600 V 60 Hz	5090505	500-600 V 60 Hz		2 x 50 509 00	

Date:
Dec 09, 2011

Technical Newsletter

No:
41:2

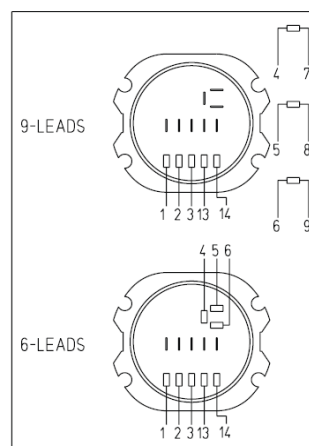
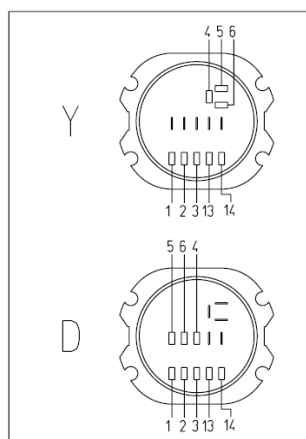
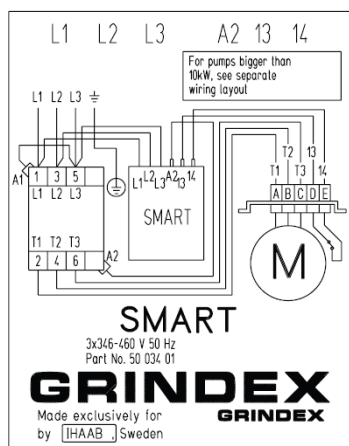


www.grindex.com

Subject:

SMART kit replacing all previous versions of motor protection 50 034 xx & 50 905 xx - series

Electrical connection diagrams for 50 034 XX-serie (Proline pumps)



When replacing p/n 50 034 XX with kit p/n 51 666 XX, always mount jumper strip on 15-16 and connect 13-14 according existing diagram in the pump. For pumps above 10 kW see individual connection diagram for 13-14.

How to connect the new SMART when replacing 50 034 XX with kit 51 666 XX



L1-L2-L3 on the SMART is changed to F-G-H

Connect -

L1 to F
L2 to G
L3 to H

13-14 to thermal contacts (TC)

15-16 to jumper strip

Date:
Dec 09, 2011

Technical Newsletter

No:
41:2

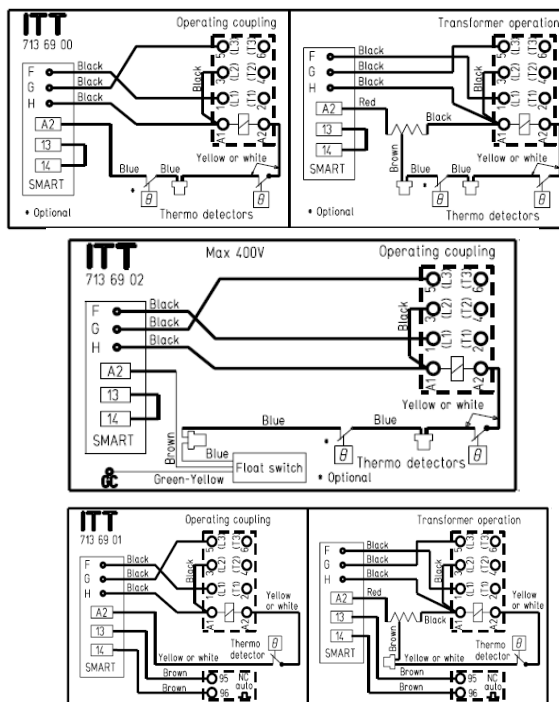


www.grindex.com

Subject:

SMART kit replacing all previous versions of motor protection 50 034 xx & 50 905 xx - series

Electrical connection diagrams for 50 905 XX-serie (81XX-pumps)

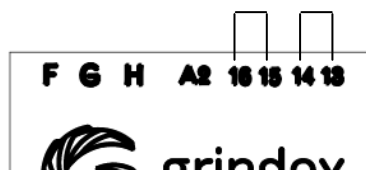


When replacing p/n 50 905 XX with kit p/n 51 666 XX kit

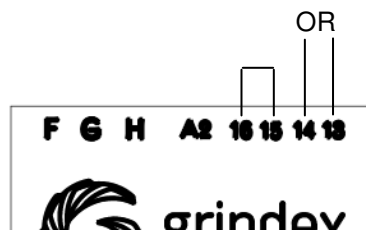
On Minex-Major, Salvador-Sandy pumps standard and with built in float switch both 13-14 & 15-16 should have jumper strip mounted (see upper & middle diagram),

On pumps with overload relay connect 13-14 to overload relay & 15-16 with jumper strip (see middle diagram).

How to connect the new SMART when replacing 50 905 XX with kit 51 666 XX



Connect -
Minex-Major, Salvador –Sandy
Standard and with built in float switch
13-14 to jumper strip)
15-16 to jumper strip
F-G-H is connected as wiring diagram



Connect -
Master-Matador
13-14 to Overload relay (OR)
15-16 to jumper strip
F-G-H is connected as wiring diagram

Yours sincerely,
Jonas Bladh
Technical Support