

System modernisation with VLT® AutomationDrive

Upgrade and conversion of systems with VLT® 3000 and VLT® 5000



Time-saving upgrade of existing systems:
Perfectly matching accessories avoid downtimes

Existing systems are subject to constant wear and tear. Even low-wear PLC and fieldbus components are discontinued and replacements are usually difficult to obtain. In any case, unforeseen downtimes cannot be accepted. Typically, the modernisation of a system or replacement of individual components for the purpose of upgrading to a more advanced system is considered at the latest when system failures increase. The changeover times are critical, since, from an economic point of view, longer downtimes cannot be tolerated.

parameters of the VLT® AutomationDrive. In addition, dynamic parameter comparison tables are available in Microsoft Excel® format for VLT® 3000 and VLT® 5000. With a parameter structure which builds on the previous series, additional adaptations or expansions can be carried out easily.

Fieldbus adaptation

Special fieldbus converters are available for upgrading existing systems with VLT® 3000 and VLT® 5000 and fieldbus connection. The fieldbus converters emulate the device to be replaced. This avoids the need for changes to the PLC program and hardware configuration as the existing configuration files can be used.



Upgrade without programming:
MCA114 VLT® 5000 Profibus converter

In view of these requirements, particular emphasis was placed on the best possible compatibility with earlier VLT® series in the development of the VLT® AutomationDrive. To make migration from systems with VLT® 3000 and VLT® 5000 to VLT® AutomationDrive faster and easier, Danfoss now offers a complete upgrade concept. This generally consists of four components:

Mechanical adaptation

Universal mounting plates ensure simple installation of the VLT® AutomationDrive FC 300 at the original mounting positions of the VLT® 3000 or VLT® 5000 without drilling.



Upgrade without programming:
VLT® 3000 SINEC L2 converter

Electrical adaptation

Control terminal adapters enable correct connection of the motor control. The existing plug-in control terminals of the VLT® 3000 or 5000 series are used without the need for rewiring.

Parameter adaptation

Software assistants within the MCT 10 software adapt the existing programming of the VLT® 5000 drives to the

4 Components

The upgrade concept for systems with VLT® 3000 and VLT® 5000 consists of four components: Mechanical and electrical as well as parameter and fieldbus adaptation.

Optimally adapted upgrade components reduce conversion times

Simple modernisation through maximum compatibility

These compatibility measures save users considerable costs as changing to the new technology is quick and easy. The need for training is reduced.

Migration options

Solution Installed device	Mechanical adapter	Electrical adapter	PROFIBUS DP adapter	Sinec L2 adapter	DeviceNet adapter	MCT 10 Conversion wizard	Parameter comparison list
<p>VLT® 3000 (red control card)</p>	<p>Yes (up to 5.5 kW) Item No. 192H2524</p>						<p>Yes Download on www.danfoss.de/drives</p>
<p>VLT® 3000 (green control card)</p>	<p>Yes (up to 5.5 kW) Item No. 192H2524</p>	<p>Yes Item No. 192H2527</p>	<p>Yes (MCA 113) Item no. 130B1245</p>	<p>Yes Item No. 192H9733</p>		No	<p>Yes Download on www.danfoss.de/drives</p>
<p>VLT® 5000 Bookstyle</p>	<p>Yes (up to 7.5 kW) Item No. 192H2525 (narrow) Item No. 192H2526 (wide)</p>	<p>Yes Item No. 192H2528</p>	<p>Yes (MCA 114) Item no. 130B1246</p>		<p>Yes (MCA 194) Item no. 130B5601</p>	<p>Yes integrated in MCT10</p>	<p>Yes Download on www.danfoss.de/drives</p>
<p>VLT® 5000 Compact</p>	<p>Yes (up to 7.5 kW) Item No. 130B0185</p>	<p>Yes Item No. 192H2528</p>	<p>Yes (MCA 114) Item no. 130B1246</p>		<p>Yes (MCA 194) Item no. 130B5601</p>	<p>Yes integrated in MCT10</p>	<p>Yes Download on www.danfoss.de/drives</p>

A mounting frame, Item No. 192H2530, is available for the simple installation of the new LCP101 and 102 control panels in existing cabinet openings in place of the control panels of the VLT® 5000 series.

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