



## Decentral Motorswitch DMS 300



The decentral motor switch DMS 300 completes the VLT family of decentral drives. The DMS 300 can be mounted directly on the motor or beneath the motor on a wall. It can be used in situations in which motors shall be controlled decentral and no variable speed range is needed.

### **A true decentral solution**

#### *Easy Installation:*

For optimising the decentral installation with less components as possible, the terminals of the DMS 300 have already integrated T-functionality for power looping with 4 mm<sup>2</sup> cross section. A service switch can be integrated as an option.

#### *Suitable for harsh environment:*

The DMS 300 comes in a high enclosure class, IP66, to withstand normal cleaning methods. The design offers a smooth cleaning friendly surface without any difficult to clean spots. The DMS 300 comes in a robust painted surface to protect against aggressive media e.g. cleaning fluids.

#### *Service friendly:*

For easy installation and service the DMS is composed of two parts, the fixed installation box where the electronic part is plugged in. All installations are completed in the bottom part with maintenance free cage clamp connections. Status messages can be read without opening the device, this makes troubleshooting in decentral installations easier.

#### *Decentral concept:*

The DMS 300 enables the inclusion of DOL motors in decentral installations and fieldbus networks. The adaptation to different pluggable installation concepts can be made in the installation box. Even a service switch can be integrated as an option.

#### *Flexible mounting:*

The DMS 300 has been designed as a universal motor switch being compatible with all standard AC motors. One of the main benefits is the easy, flexible and economical mounting:

- The DMS 300 can be mounted on the motor or beneath the motor
- No space in control panels is required, optimised for retrofit.
- All parts of the plant can be built up in modules, efforts in planning and commissioning is reduced.

### **The technology of DMS 300**

DMS 300 can operate the motor in both directions of rotation with integrated soft start and soft stop. The DMS also supplies and controls an electromechanical brake. The DMS 300 works in TN-, TT- and IT-mains.

#### *Your benefits with DMS:*

- smooth operation by soft start and soft stop functionality
- long lifetime by electronic switching
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- motor protection by even ETR-control or thermistor control
- operation in both directions of rotation
- visible status LEDs
- controlled supply for electromechanical brake integrated as a variant

### Technical Data:

Motor power range kW	0,18 - 3kW
Motor power range HP	0,25 - 4 PS
Supply voltage	3x380-480V +/-10%
Supply frequency	50/60Hz
Enclosure class	IP 66/ NEMA 4x
Ambient temperature	-10 .. 60° C
Mechanical dimensions (mm)	120 x 210 x 165
Standards	CE, UL, CSA, C-tick

### Control and monitoring with DMS

- binary I/Os galvanically isolated according PELV
- Fieldbus AS-Interface
- Fieldbus Profibus DP, 12 Mbaud with additional 4 x M12 plugs for external sensors
- Thermal motor protection by ETR-function with adjustable current limits or control of a motor thermistor
- visible status LEDs
- ramp times for softstart/softstop adjustable by DIP-switches

### Inputs/Outputs

- 4 inputs for start CW, start CCW, Reset/Stop, release mech. brake
- 1 Output for "Run" signal
- Terminals for Motor thermistor
- Controlled supply for mechanical brake with quickstop (single phase one way rectified mains voltage)

### Variants

ST	Standard: with Softstart and thermistor control	Cost efficient variant for single drives or when external T-coupling modules are used, control via digital inputs
SB	as ST, additional controlled supply mech. brake	
EX	as ST, extended with terminals for power looping and ETR-funktionalität	Flexible decentral installation system, different variants of installation boxes (e.g. with service switch), control via digital inputs, AS-Interface or Profibus
EB	as EX, additional controlled supply mech. brake	
ER	as EB, additional with reversing	

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