

# MS 230

## Compact electronic unit for start/stop/monitoring of EL-motor



- Pre-connected cables
- Easy and cost effective installation
- Compact unit 48x96x85mm (HxWxD)
- Trip and status indication
- Monitor: I>/ I<sup>EF</sup>/ ESD
- Functions: start/stop/standstill heater on/off
- Modes: local/remote
- IP55
- CE-standards EN 50 081-1 and EN 50 082-2

## DESIGN

MS 230 is a compact unit for installation in el-motor starter cabinet.

-A motor can be remote controlled via MS230 (See connection diagram). A remote unit cannot operate if the local MS 230 is at LOCAL MODE. However the status of all indicators are shown on the remote unit.

## OPERATION / FUNCTION

- Select the operation modus, either LOCAL or REMOTE.
- Press the START button - MS230 will activate main contactor (K1). Auxiliary contact feedback from K1 will indicate that the motor is running.
- To stop the motor press the STOP/RESET button.
- The motor will trip by any of the following signal: Motor protection, earth fault and emergency stop. Reset trip by pressing the STOP/RESET button.
- The motor standstill heater can be activated by pressing the HEATER ON button. The standstill heater will be automatically switched off when the motor is restarted.
- Trip cased motor to stop can be reset by pressing the STOP/RESET button.

## SECURITY

MS 230 is fitted with various protection devices against incorrect electrical connection and electric disturbance. CE tested according to EN 50 082-2; EN50 081-1

## INSTALLATION

MS230 is delivered with pre-wired and marked cables, length 1.0m. Connection of 7 to 12 wires in one end is what is needed to complete an el-motor control circuit. MS 230 fits all size of el-motors. Can also be used with e.g. el-motor soft drive.

## INPUT / OUTPUT SIGNAL

See MS230 Connection diagram.

## TECHNICAL DATA

Supply voltage:	230VAC 50/60Hz; max 20mA
Output to K1:	Volt free max. 230VAC10A
Output to K3:	Powered from MS230.Max. 35mA12VDC
Inputs:	Powered from MS230 12VDC
Protection:	Front IP55. Rear IP20
Wires.	Standard length 1,5m
Environment:	-5 to +60C <sup>0</sup> Max 90% non cond.
Dimensions:	48x96x85mm (HxWxD)
Cut out:	48x92mm (HxW)