Custom electronics

Motor Overvoltage Protection KMOP80

The motor overvoltage protection device with integrated safety is connected between drive controller and motor spindle (synchronous motor).
If the mains voltage fails at maximum speed, the synchronous motor feeds back into the DC link. The motor overvoltage protection device detects an excessive DC link voltage, shorts the motor supply lines and brakes the motor.
The motor overvoltage protection device can be used as safety component according to Machinery Directive 2006/42/EC.

Technical Data

KMOP80

Conformity

Machinery Directive	2006/42/EC
EMC Directive	2014/30/EU
LVD	2014/35/EU

Safety related parameters

Overvoltage protection	Category 2, PL d according to EN ISO 13849-1:2015

Rated data

Power supply

Nominal voltage	3 x 400 V AC
Nominal current	85 A

Logic supply

SELV or PELV	24 V DC

Motor Overvoltage Protection

Supported types of motors

Synchronous motor (PMSM)

Response voltage	860-900 V
Short-circuit current	120 A
Max. Short circuit time	20 s

I/O-Interface

1 digital 24V-input for regular testing of the safety function

2 digital 24V-output for diagnosis

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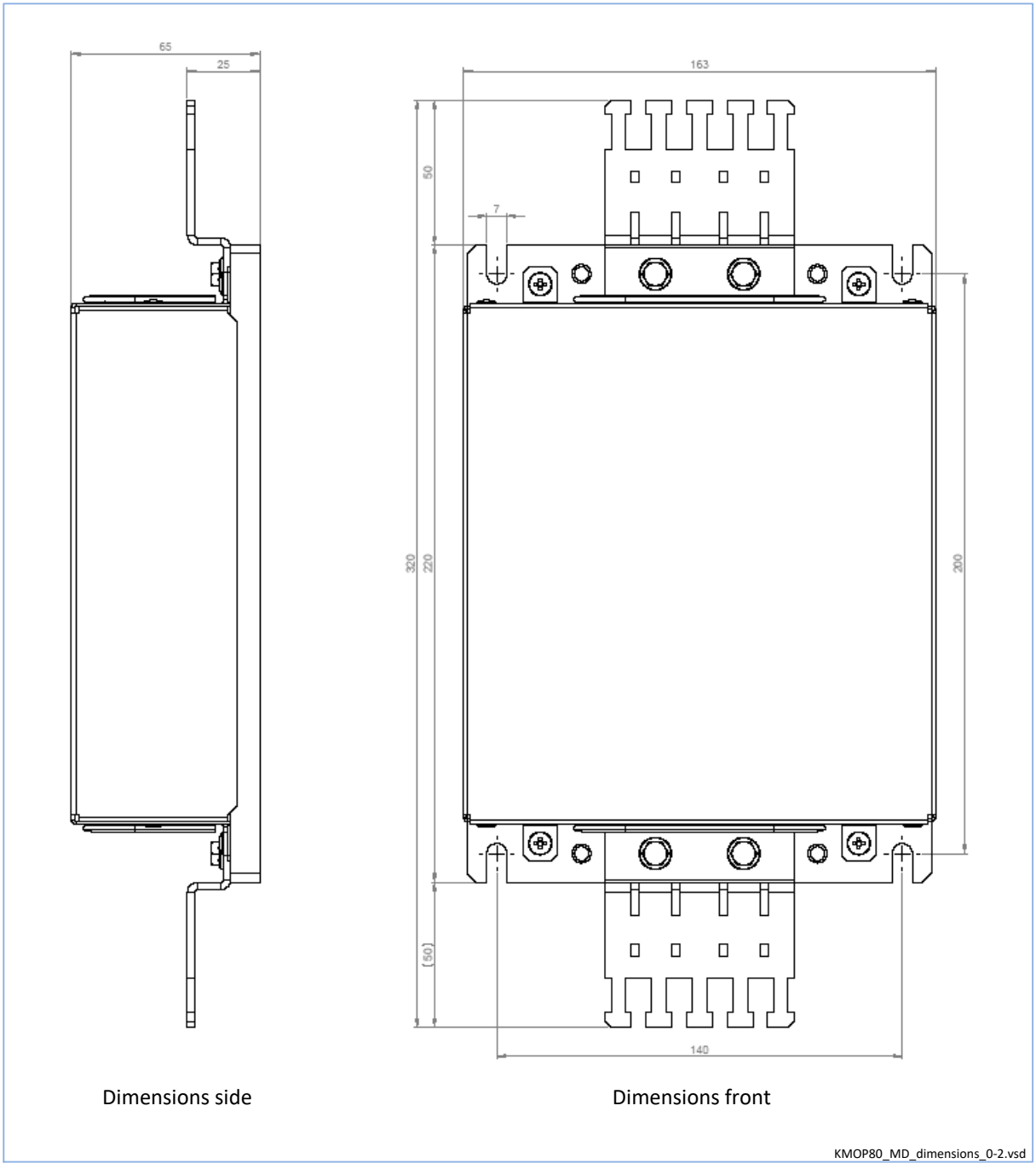
Dimensions KMOP80

Protection device	Weight [kg]	Height [mm]	Width [mm]	Depth [mm]
KMOP80	2.1	320	163	65



Dimensions side

Dimensions front

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