SCHALTBAU

Connect · Contact · Control

NEW!

PRODUCT INFORMATION

DM1130/13, DM1230/13

Motor-driven disconnectors for traction inverters

With 800 A up to 1,300 A continuous current and a nominal voltage of 3 kV the single and double pole DM series disconnectors are designed for use as input circuit switches for traction inverters. They come with a new switching method by which the necessary high and even pressure to close the contacts is effected by an electric spindle drive.

This innovative switching system combines the long life of spring-loaded contact switches and the high surge current strength of knife switches in one device. Thus a DM Series disconnector can replace two separate switches – saving space and costs.

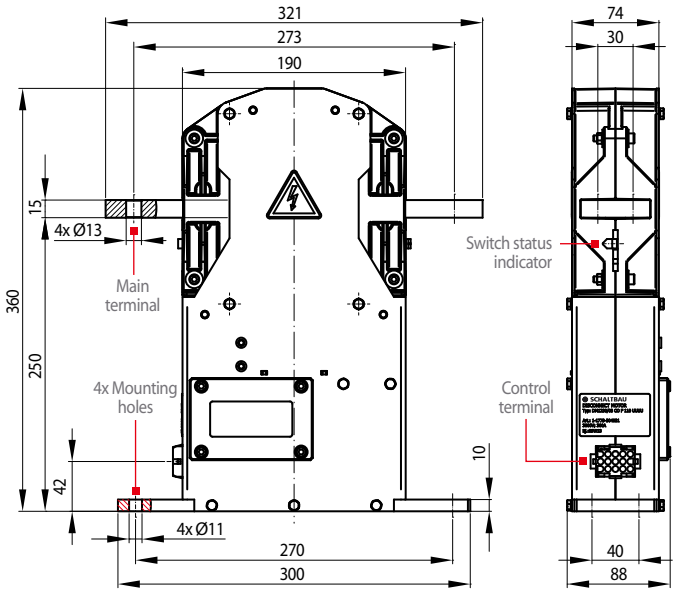
Features

- Compact, rugged, powerful
- Double-break contacts
- Long life: >125,000 operating cycles
- High continuous thermal currents up to 1,300 A
- High surge current strength I_{pk} 50 kA/120 kA
- Decentralized installation
- Mirror contacts for indicating position

Standards

EN 50124, IEC 60077, EN 50163, EN 50155, VDE 0660, UIC 550

Dimension diagram DM1130/13



Dimensions in mm

Specifications

Series	DM1130/13	DM1230/13
Type of voltage	DC (bidirectional), AC (f < 60 Hz)	
Main contacts: # of, configuration	1x SPST-NO	1 x changeover
Nominimal voltage U_n	3,000 V	
Rated insulation voltage U_i	3,600 V	
Rated impulse withstand voltage U_{imp}	20 kV	
Conv. thermal current I_{th}	1,300 A	
Surge current strength I_{pk}	50 kA/120 kA, 10 ms, half sinus	
Pollution degree Overvoltage category	PD2 OV3	
Aux. contacts: # of, configuration	4 x S880, SPDT	
Control voltage U_s	110 V DC	
Mechanical endurance	> 125,000 cycles*	
Temperature	-25° C ... +70° C / -40° C ... +85° C **	

** 20% duty cycle S3 10 min. (according to IEC 60034-1)* *** with restrictions*

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