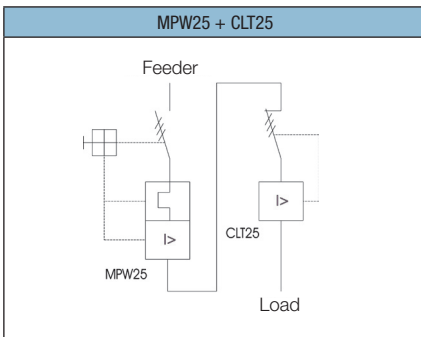
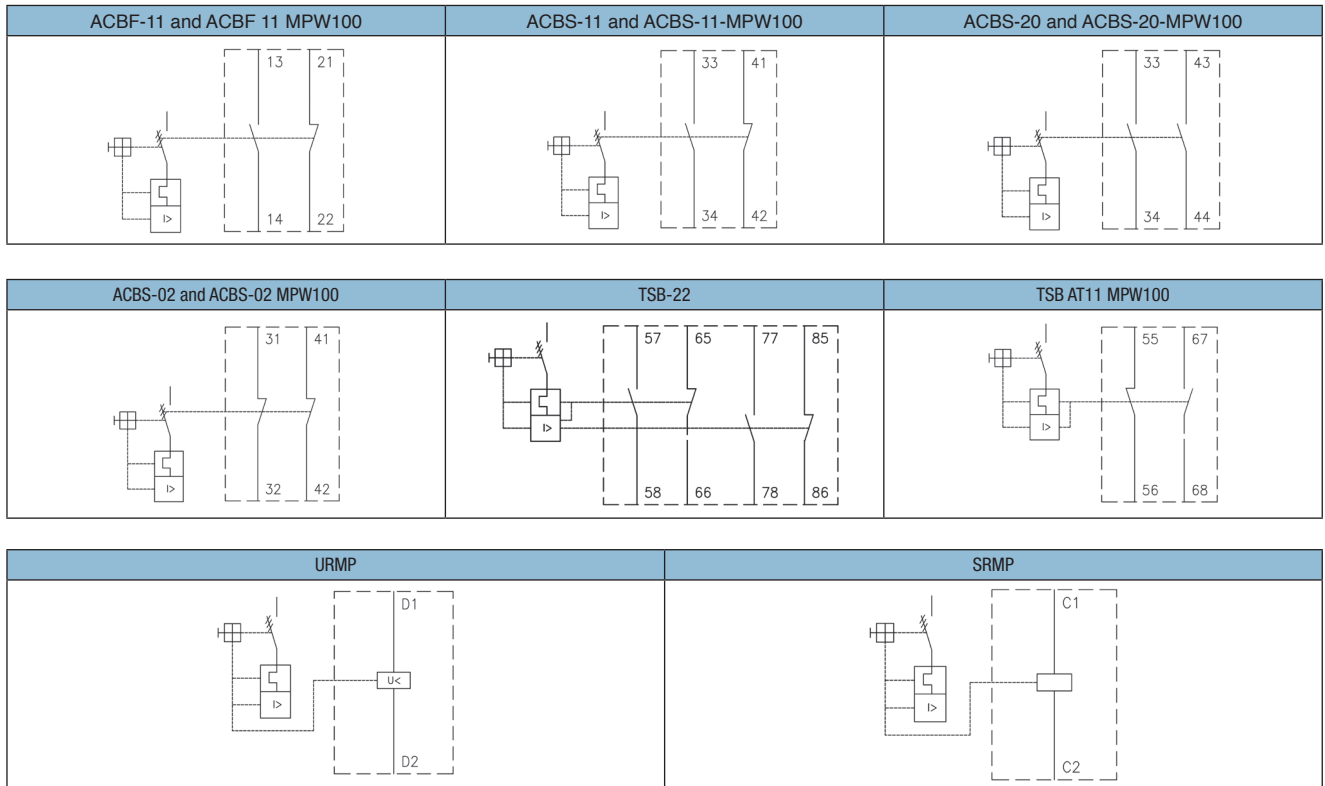


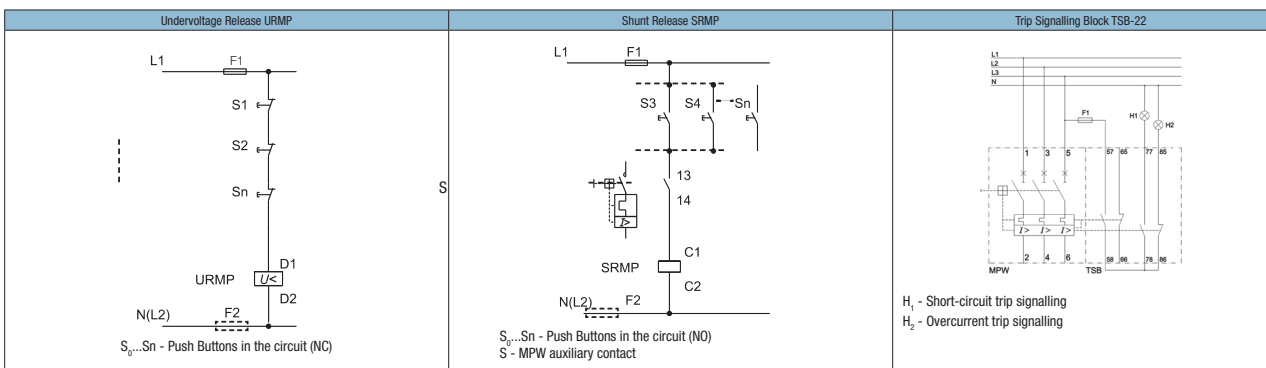
Controls

Manual Motor Protectors

Connection Diagrams and Typical Circuits



Typical Circuits



CONTROLS

Controls

Manual Motor Protectors - MPW Technical Data

Technical Data

Altitude - Correction factor

The MPW manual motor protectors do not undergo any change to their specified performance when applied at an altitude of up to 2000 meters above sea level. However, as the altitude increases, the atmospheric properties vary in terms of dielectric rigidity and pressure. Therefore, current and voltage correction factors must be applied for altitudes exceeding 2000 meters, as shown in the table on the right

Altitude (above sea level) - h	Rated operational voltage U_e	Current correction factor I_u
$h \leq 2000$ m	690 V	$1 \times I_u$
$2000 < h \leq 3000$ m	550 V	$0,96 \times I_u$
$3000 < h \leq 4000$ m	480 V	$0,93 \times I_u$
$4000 < h \leq 5000$ m	420 V	$0,90 \times I_u$

DC operation

The MPW16, MPW25 and MPW65 motor protective circuit breakers can also be used for operating continuous current loads. For such operation it is necessary to connect 2 or 3 poles in series. See recommended circuits and their voltage limits in the table on the right.

Time constant $t = 5$ ms

Short-circuit breaking capacity $I_{cu} = 10$ kA for all configurations

Circuits	Max. VDC	Notes
	150 VDC	System not grounded 2 pole series connected
	300 VDC	System grounded 2 pole series connected
	450 VDC	System grounded 3 pole series connected

Controls

Manual Motor Protectors - MPW Technical Data

Main Terminal Capacity

Catalog Number	Type	Number of conductors	Cross-Section
MPW16	Rigid or flexible cable	1 or 2	1...4 mm ² 18...12 AWG
MPW25	Rigid or flexible cable	1 or 2	1...2.5 mm ² 2.5...6 mm ² 14...8 AWG ¹⁾
MPW65	Type	1 conductor connection in upper part only	Cross-Section
	Rigid cable		1...35 mm ²
	Cable without terminal		1.5...35 mm ²
	Cable with terminal		1...35 mm ²
	Flexible cable		1.5...35 mm ² 16...2 AWG
	Type	1 conductor connection in lower part only	Cross-Section
	Rigid cable		2.5...35mm ²
	Cable without terminal		6...35mm ²
	Cable with terminal		2.5...35mm ²
	Flexible cable		6...35mm ² 12...2 AWG
	Type	Connection of 2 conductors - Conductor in upper part	Cross-Section
	Rigid cable		1...35mm ²
	Cable without terminal		1.5...35mm ²
	Cable with terminal		1...35mm ²
	Flexible cable		1.5...35mm ² 16...2 AWG
	Type	Conductor in lower part	Cross-Section
	Rigid cable		2.5...35mm ²
	Cable without terminal		6...35mm ²
	Cable with terminal		2.5...35mm ²
	Flexible cable		6...35mm ² 12...2 AWG
MPW100	Type	Number of conductors	Cross-Section
	Rigid cable	1	2.5...70 mm ² 12...2/0 AWG
		2	2.5...50 mm ² 12...1/0 AWG
	Flexible cable	1	2.5...50 mm ² 12...1/0 AWG
		2	2.5...35 mm ² 10...2 AWG

Note: 1) 8 AWG for flexible cable only