

Technical data
Low voltage switch disconnecter

Product series	desc.	unit	condition	ED2	ED2	ED2	ED2	ED2	ED2	ED2	ED2	ED2		
Model-type				125	160	250	400	630	800	1000	1250	1600		
Number of Poles				3,4	3,4	3,4	3,4	3,4	3,4	3,4	3,4	3,4		
Nominal current ratings														
	I_n	(A)		125	160	250	400	630	800	800	1250	1600		
Electrical characteristics														
Rated operational voltage	U_e	(V)	AC 50/60 Hz	690	690	690	690	690	690	690	690	690		
			DC	250	250	250	250	250	250	250	250	250		
Rated insulation voltage	U_i	(V)		800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	U_{imp}	(kV)		8	8	8	8	8	8	8	8	8		
Rated short-circuit making capacity	I_{cm}	(kA peak)		3,6	6	6	9	9	17	17	32	45		
Rated short-time withstand current	I_{cw}	(kA rms)	0.3s	2	3	3	5	5	10	10	10	10		
			AC	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A	AC-23A		
			DC	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A	DC-22A		
Installation														
Front connection				■	■	■	■	■	■	-	-	-		
Attached flat bar				•	•	•	•	•	•	■	■	•		
Solderless terminal				•	•	•	•	•	-	-	-	-		
Rear connection				•	•	•	•	•	•	•	•	■		
Plug-in				•	•	•	•	•	•	-	•	-		
Draw-out				•	•	•	•	•	•	-	•	•		
DIN rail mounting				•	-	-	-	-	-	-	-	-		
Dimensions	h	(mm)		155	165	165	260	260	273	273	370	370		
			w	(mm)	3 pole	90	105	105	140	140	210	210	210	210
					4 pole	120	140	140	185	185	280	280	280	280
			d	(mm)		68	68	68	103	103	103	103	120	140
Weight	W	(kg)	3 pole	1.1	1.5	1.5	4.2	4.4	8,5	10,4	18,2	24,9		
			4 pole	1.4	1.9	1.9	5.6	5.8	11,5	14,0	23,4	32,9		
Operation														
Direct Opening Action				■	■	■	■	■	■	■	■	■		
Toggle operation				■	■	■	■	■	■	■	■	■		
Variable depth / direct mount operating handle				•	•	•	•	•	•	•	•	•		
Motor operator				•	•	•	•	•	•	•	•	•		
Endurance	Elec.	cycles	415V AC	30000	10000	10000	4500	4500	4000	4000	4000	2000		
			Mech.	cycles	30000	30000	30000	15000	15000	10000	10000	5000	5000	
Standards				IEC 60947-2, EN 60947-2					IEC 60947-3, EN 60947-3					

Internal accessories – series EB2

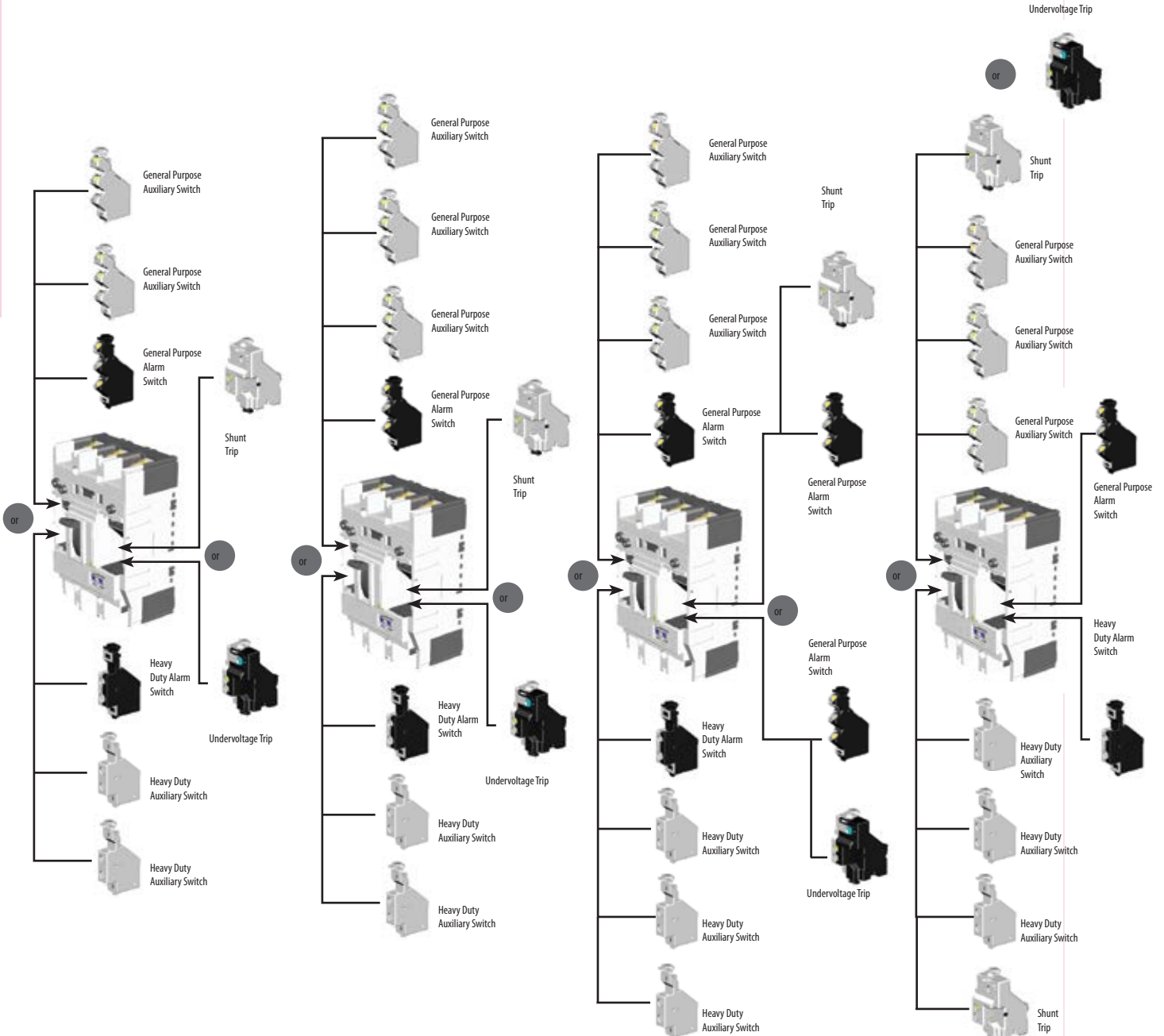
Ampere Frame size (A):

125, 160, 250

400, 630

800, 1000

1250, 1600

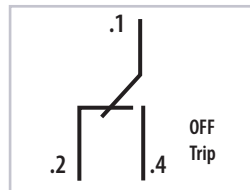


- Status indication switches mount in the left side of the MCCB. General purpose and heavy duty status indication switches cannot be mixed in the same MCCB. Only one alarm switch can be fitted to an MCCB.
- Shunt trips and undervoltage trips mount in the right side of the MCCB.
- It is not possible to install a shunt trip and an undervoltage trip in an MCCB as they occupy the same location. Undervoltage trips can provide remote tripping if necessary by wiring a normally closed contact or pushbutton in series with the protected supply.
- Undervoltage trips with time delays require an external time delay controller which clips to the side of the MCCB.

Internal accessories – series EB2



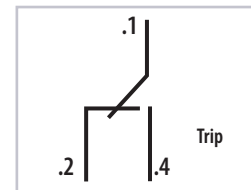
General Purpose Auxiliary Switch



Terminal Designations and Function of General Purpose Auxiliary Switch



General Purpose Alarm Switch



Terminal Designations and Function of General Purpose Alarm Switch

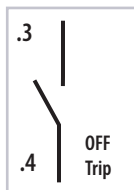
General purpose auxiliaries and alarm switch ratings

Volts (V)	AC Amperes (A)		Volts (V)	DC Amperes (A)		Minimum Load
	Resistive Load	Inductive Load		Resistive Load	Inductive Load	
440	-	-	250	-	-	100mA -> 15V DC.
240	3	2	125	0.4	0.05	
110	3	2	30	3	2	

Amperes (A)



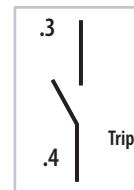
Heavy Duty Auxiliary Switch



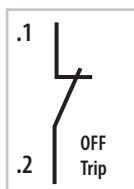
Terminal Designations and Function of Heavy Duty Auxiliary Switch NO contact



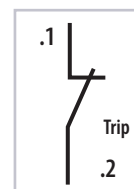
Heavy Duty Alarm Switch



Terminal Designations and Function of Heavy Duty Alarm Switch, NO contact



Terminal Designations and Function of Heavy Duty Auxiliary Switch, NC contact



Terminal Designations and Function of Heavy Duty Alarm Switch, NC contact

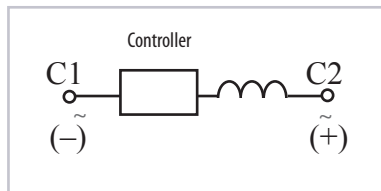
Ratings of Heavy Duty Auxiliary and Alarm switches

Volts (V)	AC Amperes (A)		Volts (V)	DC Amperes (A)	
	Resistive Load	Inductive Load		Resistive Load	Inductive Load
440	3	3	250	0.5	0.5
240	4	4	125	1	1
110	5	5	48	3	2.5
48	6	6	24	6	2.5



Shunt Trips

Ratings of Shunt Trips						
Rated Voltage	Voltage AC		Voltage DC			
	200-240	380-450	24	48	100-120	200-240
Excitation Current (A)	0.014	0.0065	0.03	0.03	0.011	0.011

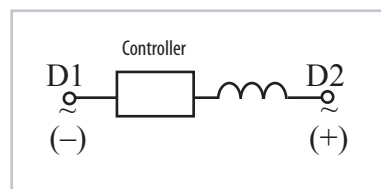


Terminal Designations of Shunt Trips



Undervoltage Trips

Rated Voltage	Power supply capacity (VA)		Excitation current (mA)		
	Voltage AC		Voltage DC		
	200-240	380-450	24	100-120	200-240
Power Supply Capacity (A)	1.4	2.28	23	10	10



Terminal Designations of Undervoltage Trips

External accessories

IZ – Interpole barrier. Installed between MCCB terminal, which increases the distance between poles to reduce the possibility of creepage.

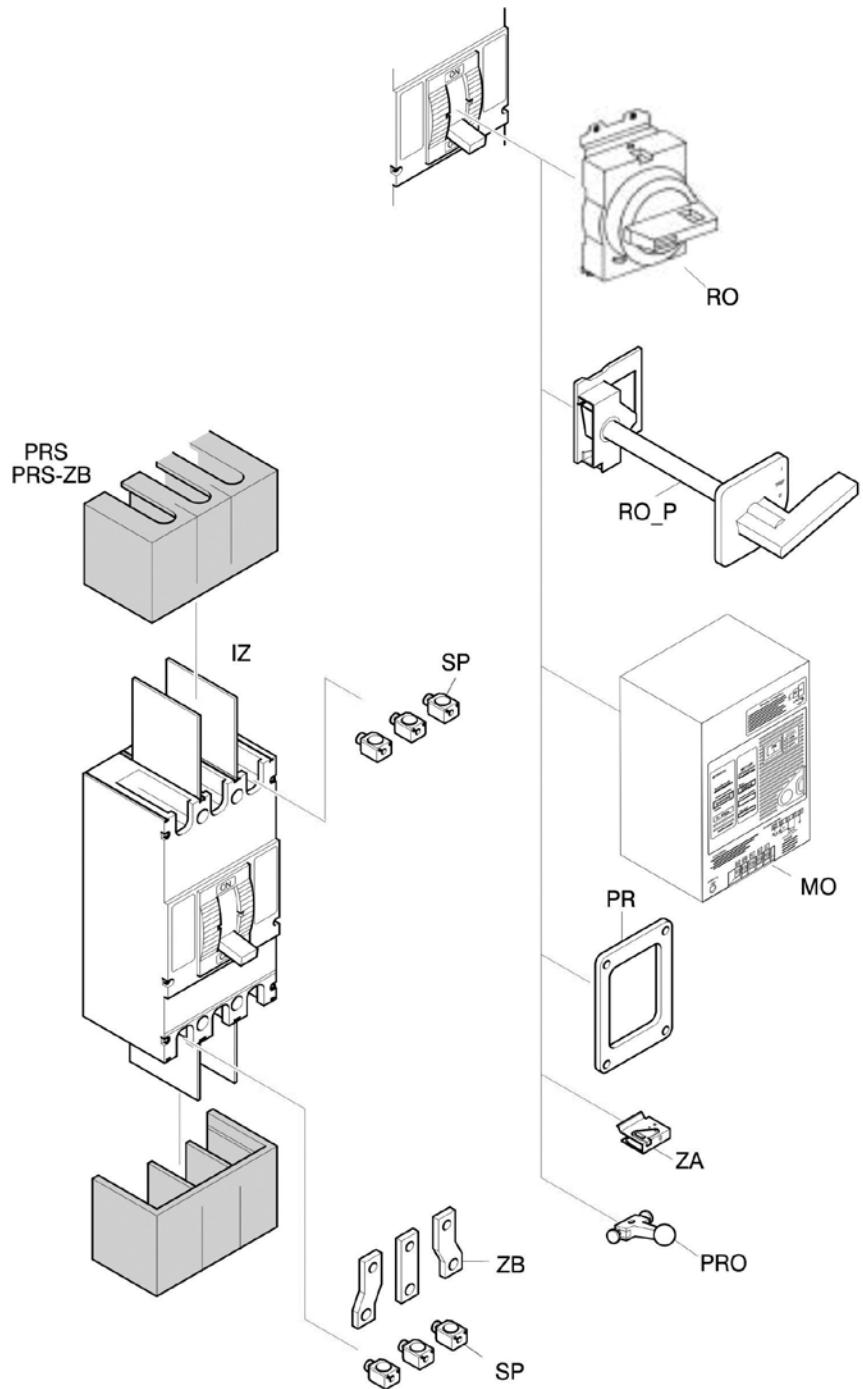
PRS – Terminal cover. The terminal covers are applied to the MCCB to prevent accidental contact with live parts and thereby protection against direct contact.

PRS-ZB – Terminal cover for att. Busbar. The terminal covers are applied to the MCCB to prevent accidental contact with live parts and thereby protection against direct contact. The width is different because of attach busbar.

SP – Solderless terminal

RO – Operating handle, breaker mounted. It's used when MCCB is installed in control centre / switchboard

RO_P – Operating handle, panel mounted, variable depth. This consists of an operating mechanism mounted on the breaker, an operating handle mounted on the panel door and a square shaft to connect the mechanism with the handle.



MO – Motor operator. Enabling to switch MCCB ON or OFF remotely.

PR – Door flange. Accessory for mounting on panel door.

ZA – Handle lock. Enables the MCCB to be padlocked in neither the ON or OFF position.

ZB – Attach busbar. Used for easier installation on busbar systems (widen terminals).

PRO – Handle extension. Used for easier manipulation ON/OFF at bigger MCCB's.