



MP3B016

Application

- Designed for use in industrial and commercial installations, ideal replacement for switch/fuse.
- Control and isolation of heating, lighting, motors, pumps and compressors.
- Device is suitable for installations near source due to high breaking capacity.
- Suitable for switching inductive loads, AC23 contact rating and high mechanical endurance.
- Security of isolation, positive contact indication in accordance with BS 7671 and padlockable rotary handle.

Offer

- Supplied with incoming terminal shield.
- Removable front cover provides all round cabling access.
- Removable gland plates with knock outs of 32, 25 and 20mm.
- Terminals accept 35mm² in bare cable connectors.
- Trip indication and test button.
- Disconnectable neutral with 3 pole device.

Accessories (See page 94)

- Voltage releases for remote tripping.
- Auxiliary contacts for remote indication.
- Terminal shields.

Technical data

- Designed and tested to BS EN 60947-2.
- Enclosure ingress protection IP42.
- Rated operational voltage Ue 415V.
- Rated current at 40°C.
- Rated ultimate short-circuit breaking capacity Icu = 70,000A.
- Rated service short-circuit breaking capacity Isu = 100% Icu = 70000A.
- Endurance-o cycles:
 - Mechanical: 20,000
 - Electrical: In/2 10,000
 - In 7,000

Range



MP3B016

Motor rating for 3 pole MCCB's

Rating (A)	kW	HP	Running current	Two Pole	3 pole + neutral
16	5.5	7.5	11	MP2B016	MP3B016
20	7.5	10	14.4	MP2B020	MP3B020
25	9.3	12.5	17.3	MP2B025	MP3B025
32	11	15	21	MP2B032	MP3B032
40	15	20	28	MP2B040	MP3B040
50	22	30	40	MP2B050	MP3B050
63	30	40	54	MP2B063	MP3B063

Note: Motor ratings are based on DOL starting assuming 7 x FLC with a run up time of 6 - 10s

Application

- Designed for use in industrial and commercial installations, ideal replacement for traditional isolators.
- Control and isolation of heating, lighting, motors, pumps and compressors.
- Suitable for switching inductive loads, AC23 contact rating and high mechanical endurance.
- Security of isolation, positive contact indication in accordance with BS7671 and padlockable rotary handle.

Offer

- Supplied with incoming terminal shield.
- Removable front cover provides all round cabling access.
- Removable gland plates with knock outs of 32, 25 and 20mm.
- Terminals accept 35mm² in bare cable connectors.
- Disconnectable neutral with 3 pole device.



MP3SD020

Accessories (See page 94)

- Voltage releases for remote tripping and emergency stop function.
- Auxiliary change over contacts.
- Terminal shields.

Technical data

- Designed and tested to BS EN 60947-2.
- Enclosure ingress protection IP42.
- Rated operational voltage Ue 415V.
- Rated current at 40°C.
- Endurance-o cycles:

<input type="checkbox"/> Mechanical:	20,000
<input type="checkbox"/> Electrical: In/2	10,000
	In 7,000

Range

Rating (A)	Two Pole	3 pole + neutral
20	MP2SD020	MP3SD020
32	MP2SD032	MP3SD032
63	MP2SD063	MP3SD063



MP3SD020



Application

The OF is a changeover contact which is fitted inside the device and operates simultaneously with the device, this can be used to provide a means of visual or audible indication of whether the circuit breaker is open or closed.

The SD contact is also a changeover contact, which will operate only if the breaker is tripped by a fault, shunt trip or UVR. This means an output for a visual or audible warning may be provided for emergency indication.

The part number is the same. Whether the switch function is OF or SD type is dependant upon where it is fitted within the device. Each device will hold one OF and one SD contact, an under voltage release OR shunt trip may also be fitted.

Accessories and auxiliaries for use with Minipact switch disconnectors and moulded case circuit breakers.

Each Minipact MCCB or switch disconnector will accept one OF contact and one SD contact.



29450

Electrical characteristics - changeover switch		Part N°. 29450		
Rated thermal current		6A		
Utilisation category (IEC 947-4-1)		AC50Hz	AC12	AC15
	24V	6A	6A	
	48V	6A	6A	
	110V	6A	5A	
	220/240V	6A	4A	
	380/415V	6A	3A	
	440-V	6A	3A	
	660/690V	6A	0.1A	

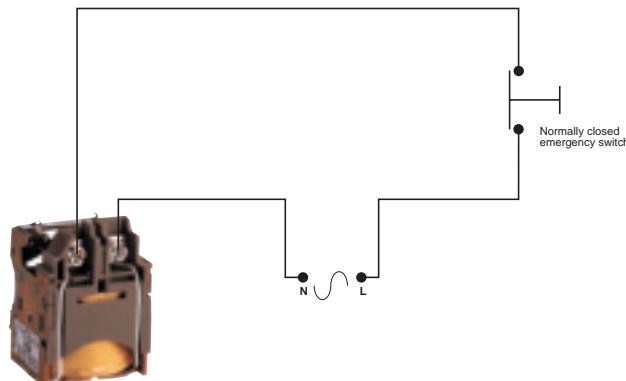


28082

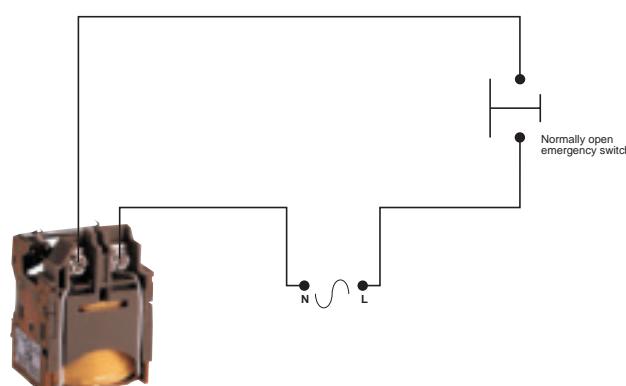
AC 50Hz	Volts	Pick up	Seal in	Response time (ms)	Part N°.
UVR	220/240	<10VA	<5VA	<50	28082
UVR	380/415	<10VA	<5VA	<50	28083
Shunt trip	220/240	<10VA	<5VA	<50	28072
Shunt trip	380/415	<10VA	<5VA	<50	28073
OF/SD					29450

Accessories	Part N°.
1 pair of terminal shields 3P	28034

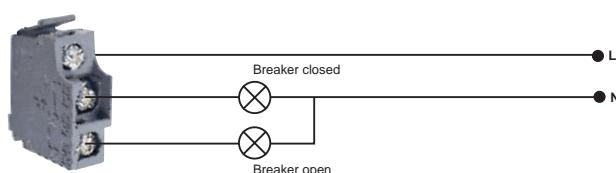
Undervoltage release circuit (MN)



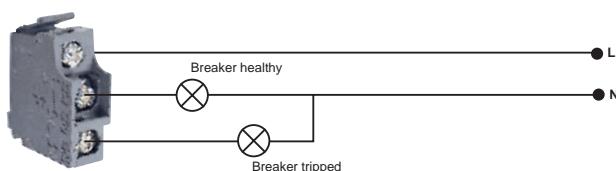
Shunt trip circuit (MX)



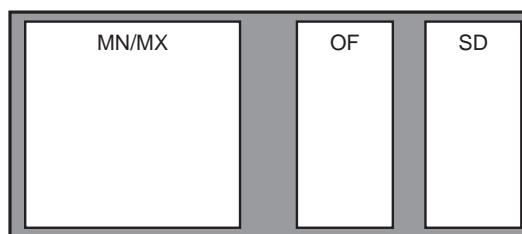
Auxiliary used as OF



Auxiliary used as SD



Minipact accessory fitting positions



Minipact**Discrimination limits for Minipact downstream of other Merlin Gerin products**

Upstream device	NS160N/H/L Trip unit TM-D				NS250N/H/L Trip unit TM-D			NS160N/H/L Trip unit STR22SE		NS250N/H/L Trip unit STR22SE	
Downstream rating (A)	80	100	125	160	160	200	250	125	160	200	250
Device											
Minipact <50A	2	2	2	2	T	T	T	2	2	T	T
	63A	2	1.25	1.25	T	T	T		2		T

Upstream device	NS400N/H/L Trip unit STR22SE/53UE					NS630N/H/L Trip unit STR22SE/53UE				
Downstream rating (A)	160	200	250	320	400	25	320	400	500	630
Device										
Minipact <50A	T	T	T	T	T	T	T	T	T	T
	63A	T	T	T	T	T	T	T	T	T

Full discrimination is also achieved with the following Merlin Gerin devices:

All "Compact C" MCCB's equal to and above 800A.

All H1 and H2 "Masterpact" ACB's

For discrimination values between Minipact and "L" type "Masterpacts" please consult us.

Discrimination values in kA.

'T' = total discrimination up to breaking capacity of downstream device.

Discrimination limits for Minipact upstream of other Merlin Gerin products

Upstream device	Downstream device	Rating (A)	Minipact 63
C60H		<10	T
B, C, D		16A	T
		20A	T
		25A	T
		32A	6
		40A	
		50A	
		63A	

Guidance for motor loads

Specific "magnetic only" MCCB's are available for short circuit protection of motors. However, the standard MCCB may be used, as detailed below.

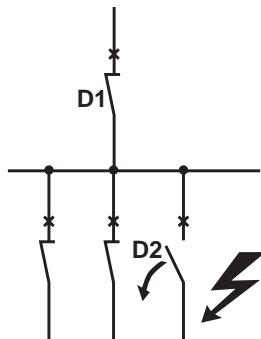
Max motor size (kW)	Running current (A) @ 415V
16A	2.2
25A	3.7
40A	4
63A	9
80A	15
100A	22
125A	25
160A	33
200A	45
250A	69
	128

Note:

- These tables offer guidance only, for DOL starting assuming:
 - A starting current of 7 x FLC
 - Run-up time = 8 seconds for motors
 - < 3kW 10 seconds for motors
 - > 3kW
- The running current is a typical value and may vary from manufacturer to manufacturer.

SafePact 2**Discrimination**

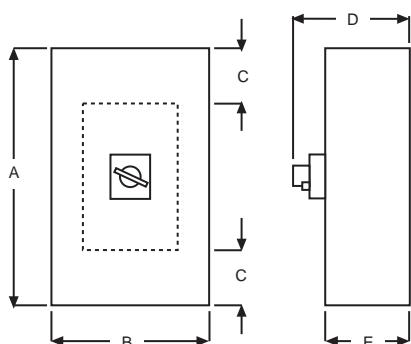
The table below indicates where total discrimination exists between devices.



Upstream	Compact rating (A)	MGE1003	MGE1253	MGE1603	MGE2003	MGE2508	MGE4003	MGE6303
Downstream circuit breaker	Rating (A)							
multi 9	C60H	10 to 16	■	■	■	■	■	■
		20 to 25	■	■	■	■	■	■
		32 to 40	■	■	■	■	■	■
		50 to 63		■	■	■	■	■
Compact	NS80H	2.5 to 6.3	■	■	■	■	■	■
		12.5	■	■	■	■	■	■
		25 to 80		■	■	■	■	■
	NS100N	16 to 100			■	■	■	■
	NS160N	125 to 160					■	■
	NS250N	200 to 250						■

Note: For further information on this product range: consult us.

Safepact 2 MCCB or switch disconnector general purpose enclosure IP40

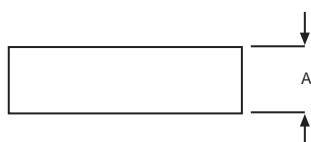


Dimensions (mm)

Rating	Height A	Width B	Cable space C*	Overall depth D	Enclosure depth E
Up to 100A	420	230	140	211	145
160A					
250A					
400A	700	356	236	235	169
630A					

Note: C* - we recommend fitting cable extension boxes on each end of the 160, 250 and 630A ratings, unless utilising trunking

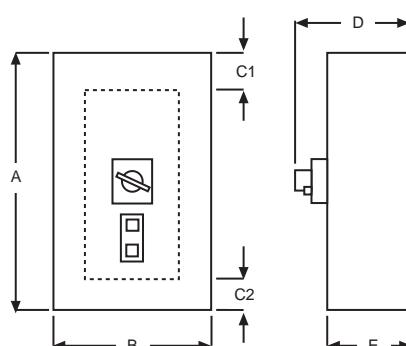
Extension boxes for Safepact 2 MCCB enclosures



Dimensions (mm)

Height (A)	Part N°.
100	MGEX 160
200	MGEX 250
120	MGEX 630

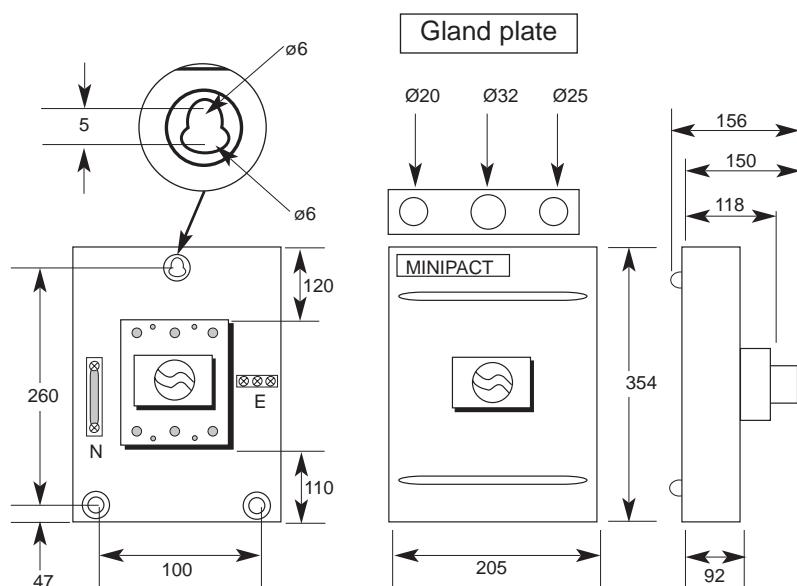
Safepact 2 MCCB or switch disconnector general purpose enclosure IP40 including earth leakage protection



Dimensions (mm)

Rating	Height A	Width B	Cable space C1	Cable space C2	Overall depth D	Enclosure depth E
Up to 100A	420	230	140	65	211	145
160A	520	230	140	165		
250A	620	230	140	265		
400A	820	356	236	256	235	169
630A						

Minipact enclosed switch disconnectors and MCCB's



Note: Dimensions apply to all Minipact products.