

MDEx and MCEx

MDEX 511 - CIRCUIT BREAKER MODULE AND MCEX 512 - CONTROL MODULE FOR EXPLOSIVE ATMOSPHERES

PROTECTION: Ex d e

ZONES: 1 and 2

GROUPS: IIC ($-20\text{ °C} < T_a < +60\text{ °C}$)

IIB ($-40\text{ °C} < T_a < +60\text{ °C}$)

EPL: Gb

APPLICABLE STANDARDIZING:

ABNT NBR IEC 60079-0

ABNT NBR IEC 60079-1

ABNT NBR IEC 60079-7



MDEx 511



MCEx 512

MDEx

MDEX 511 BL - CIRCUIT BREAKER

MAXIMUM CURRENT	VOLTAGE	SHORT CIRCUIT	ASSISTANT CONTACT	CHARACTERISTIC CURVES	TERMINALS
40A	230V/400V 50/60 Hz 250V DC	6kA / 10kA	250V/400 V 50/60 Hz - 4A 110V DC - 0,5A	C and D	Main contacts at 1 to 10 mm ² 2 with eye terminal) Assistant contact 1~2,5 mm ²

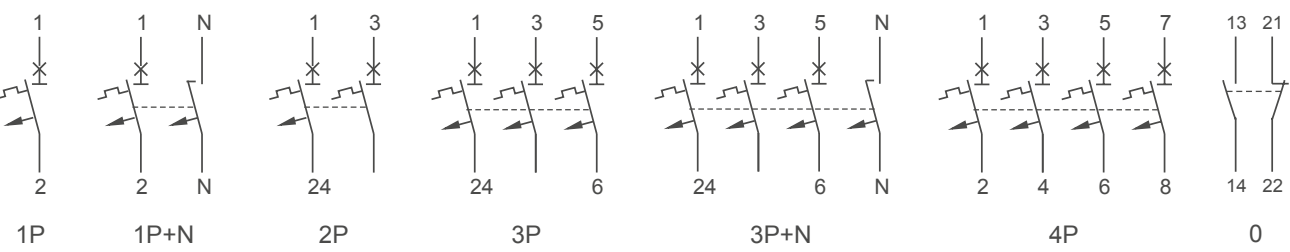
NUMBER OF POLES	CHARACTERISTIC CURVE*	CURRENT (A)	WEIGHT (KG)
1P	C - D	0,5 - 1 - 2 - 3 - 4 - 6 - 10 - 16 - 20 - 25 - 32 - 40	0,85
2P	C - D	0,5 - 1 - 2 - 3 - 4 - 6 - 10 - 16 - 20 - 25 - 32 - 40	1,07
3P	C - D	0,5 - 1 - 2 - 3 - 4 - 6 - 10 - 16 - 20 - 25 - 32 - 40	1,43
4P	C	1 - 3 - 4 - 6 - 10 - 16 - 20 - 25 - 32 - 40	1,90
1P + N	C	6 - 10 - 16 - 20 - 25 - 32 - 40	0,85
3P + N	C - D	6 - 10 - 16 - 20 - 25 - 32 - 40	1,90

CURRENT (A)		CODE	IMAGE
0,5	MDEx 511	BL / 0.5 / _ / _ - _	
1		BL / 1 / _ / _ - _	
2		BL / 2 / _ / _ - _	
3		BL / 3 / _ / _ - _	
4		BL / 4 / _ / _ - _	
6		BL / 6 / _ / _ - _	
10		BL / 10 / _ / _ - _	
16		BL / 16 / _ / _ - _	
20		BL / 20 / _ / _ - _	
25		BL / 25 / _ / _ - _	
32		BL / 32 / _ / _ - _	
40		BL / 40 / _ / _ - _	
1 (1P) - 1N ((1P+N) - 2 (2P)	Number of poles	↑	↑
3 (3P) - 3N (3P+N) - 4 (4P)			
C	Characteristic curve	↑	↑
D			
		0: Assistant contact 1NA + 1NF	
		D (blank, non-applicable)	

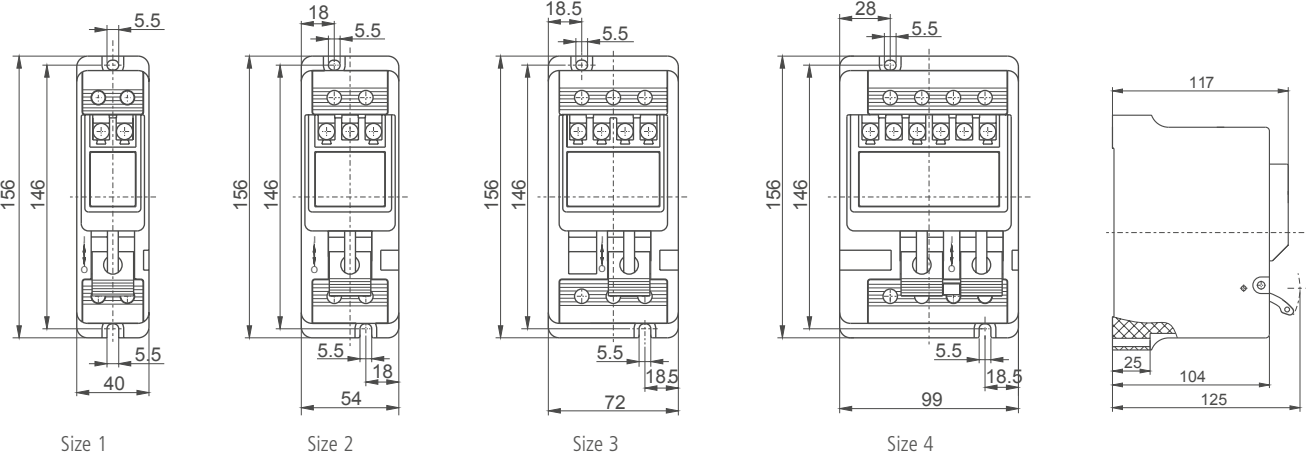
* Characteristic curve C: usually for lighting circuits. *Characteristic curve D: usually for engine start circuits.

MDEx

MAIN ELECTRIC DIAGRAM



EXTERNAL DIMENSIONS



	NUMBER OF POLES
SIZE 1	1P / 1P+N
SIZE 2	2P / 1P + ASSISTANT CONTACT
SIZE 3	3P / 2P + ASSISTANT CONTACT
SIZE 4	3P + N / 4P / 3P + ASSISTANT CONTACT 4P + ASSISTANT CONTACT

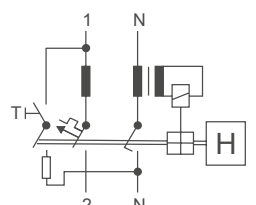
MDEx

MDEX 511 BLD - DR CIRCUIT BREAKER AND MDEX 511 BFL - ELECTROMAGNETIC CIRCUIT BREAKER DR

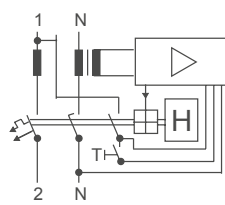
MAXIMUM CURRENT	VOLTAGE	RESIDUAL CURRENT	SHORT CIRCUIT	WEIGHT (kg)	NUMBER OF POLES	CHARACTERISTIC CURVES	TERMINALS
40A	230V/400V 50/60 Hz	10, 30 and 300 mA	6kA / 10kA	1,1	1P+N	C and D	Main contacts at 1 to 10 mm ² (6 to 10 mm used together with eye terminal)

CURRENT (A)		CODE	IMAGE
6	MDEx 511 DR CIRCUIT BREAKER	BLD / 6 / 1N / 30	
10		BLD / 10 / 1N / 30	
16		BLD / 16 / 1N / 30	
20		BLD / 20 / 1N / 30	
25		BLD / 25 / 1N / 30	
32		BLD / 32 / 1N / 30	
40		BLD / 40 / 1N / 30	
6	MDEx 511 ELECTROMAGNETIC CIRCUIT BREAKER	BFL / 6 / 1N / _	
10		BFL / 10 / 1N / _	
16		BFL / 16 / 1N / _	
20		BFL / 20 / 1N / _	
25		BFL / 25 / 1N / _	
32		BFL / 32 / 1N / _	
40		BFL / 40 / 1N / _	
		30 300	Residual current (mA)

MAIN ELECTRIC DIAGRAM

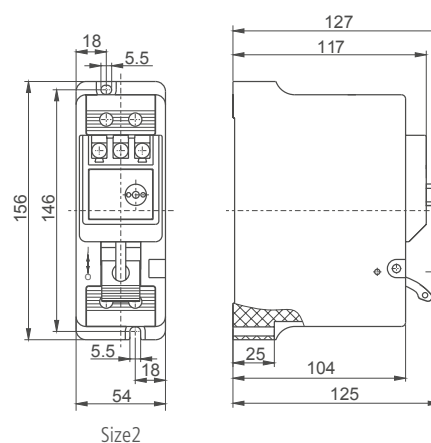


MDEx 511 BFL
Electromagnetic circuit breaker



MDEx 511 BLD
DR circuit breaker

EXTERNAL DIMENSIONS

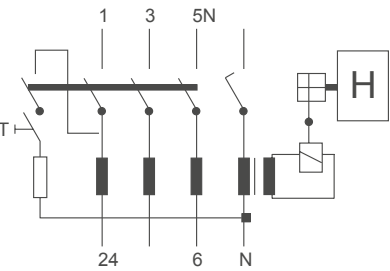


MDEX 511 BF - DR CIRCUIT BREAKER ELECTROMAGNETIC

MAXIMUM CURRENT	VOLTAGE	RESIDUAL CURRENT	SHORT CIRCUIT CURRENT	WEIGHT (kg)	NUMBER OF POLES	TERMINALS
40A	230V/400V 50/60 Hz	10, 30 and 300 mA	10kA	1,9	4P	Main contacts at 1 to 10 mm2 (6 to 10 mm used together with eye terminal)

CURRENT (A))	RESIDUAL CURRENT	CODE	IMAGE
25	30	BF / 25 / 4 / 30	
25	100	BF / 25 / 4 / 100	
40	30	BF / 40 / 4 / 30	
40	100	BF / 40 / 4 / 100	
40	300	BF / 40 / 4 / 300	

MAIN ELECTRIC
DIAGRAM



EXTERNAL DIMENSIONS

