

# Moulded Case Circuit Breakers - AAN Frame

## AAN Frame

Standard conformity :	IEC 60947-2
Rated operational voltage :	500V AC
Rated Insulation Voltage :	750V AC
Type of release :	Thermomagnetic
Utilisation Category :	A
Rated frequency :	50/60 Hz
Ambient temp :	40oC (50oC on request)
Operating altitude :	2000 meters
Humidity :	0 - 90%
Rated impulse voltage :	8 KV

## Cable capacity

Tunnel Terminals: 150mm<sup>2</sup>

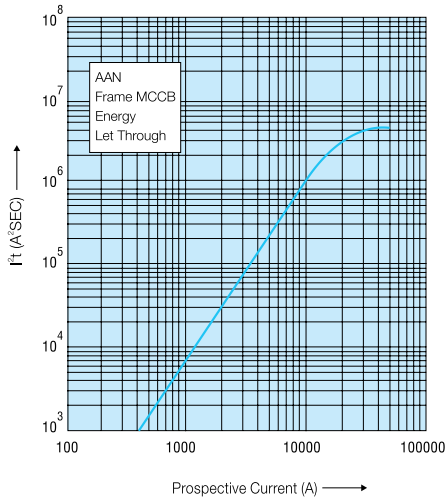
Frame		AAN	
No. of Poles		1P/3P/4PwSN	
Standard current range / rating ( $I_n$ )	A	25-250*	
Thermal release setting (Adjustable)		70-100% of $I_n$	
Magnetic release setting for current rating:			
25A - 63A		400A	
80A - 125A		800A	
160A - 250A		1600A	
Rated short circuit making capacity (Peak) 1cm	KA	73.5	52.5
Rated ultimate short circuit breaking capacity ( $I_{cu}$ ), KA (at different voltages)		(25-125A)	(25-250A)
	240V	50	40
	415V	35	25
	440V	35	25
	500V	25	18
$I_{cs} = \% I_{cu}$		75%	75%
Weight	SP (Single Pole)	Kg	0.7
	TP (Triple Pole)	Kg	1.8
	FPwSN (Four Pole Switched Neutral)	Kg	2.4
Terminal capacity (cable)	Sq.mm	70 (upto 100A)/150 (125A-250A)	
Bus bar (width)	Sq.mm	25 (125A-250A)	
Recommended Torque	Nm	10	



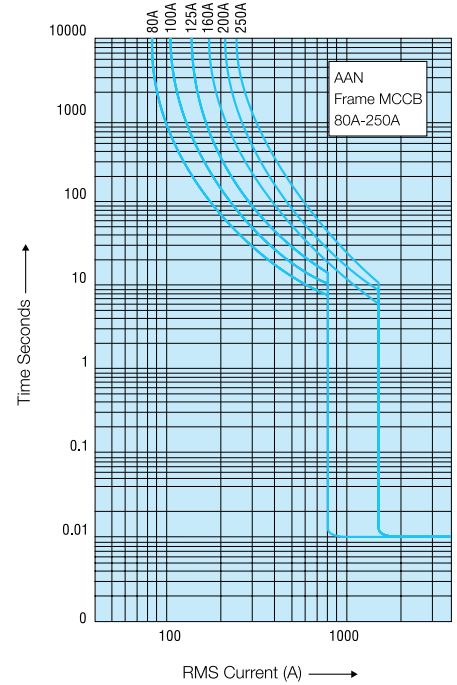
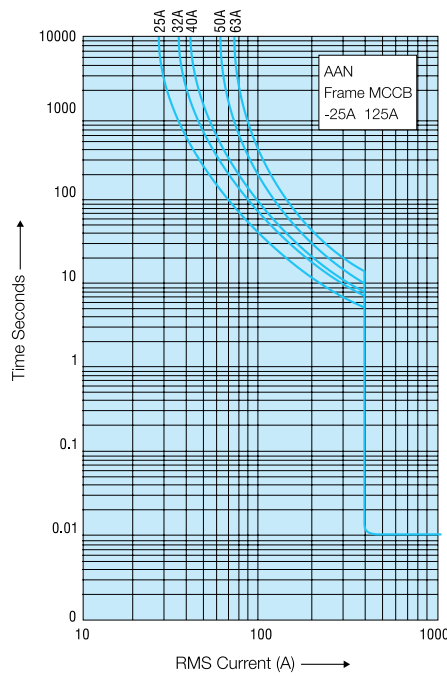
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### Energy Let Through Characteristics



### Time/Current Characteristics



## AAN Frame MCCB

Tripping Elements	
Overload: Adjustable 70-100% of In	Instantaneous - Fixed
Rating	SP, TP
(25-63A)	400
(80-125A)	800
(160-250A)	1600

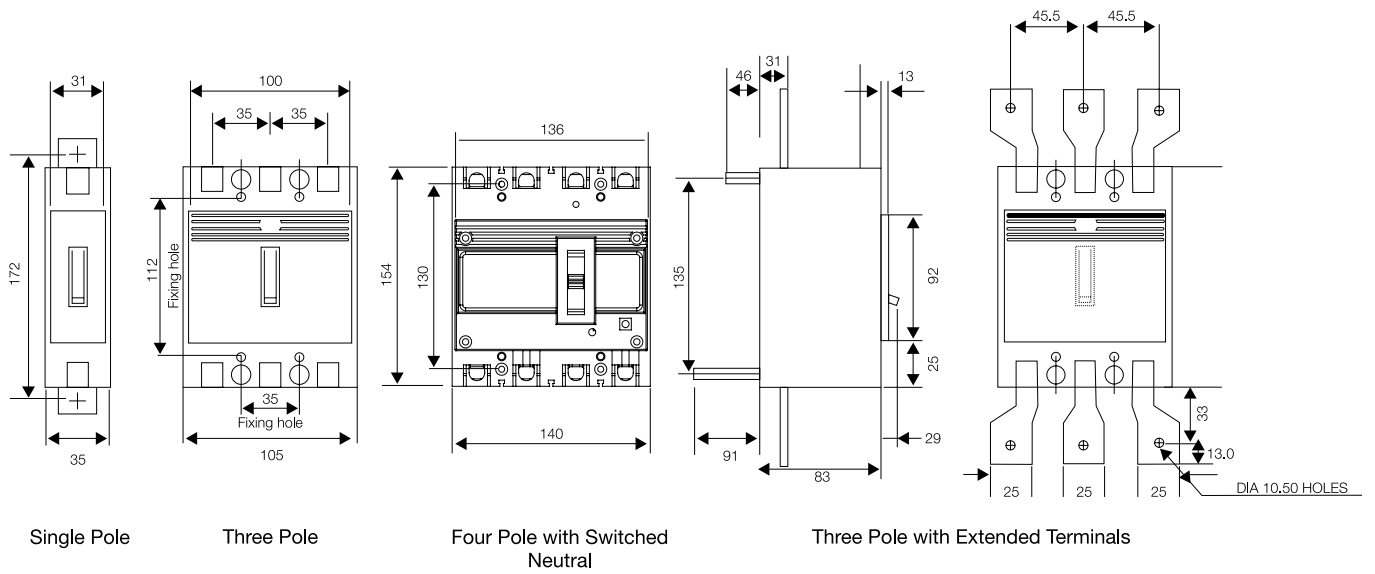
AAN Frame Maximum Earth Loop Impedances for Triple Pole MCCBS Zs (Ohms) for Uo = 240 VAC												
Current rating (A)	25	32	40	50	63	80	100	125	160	200	250	
0.4 Second Tripping Time	0.500Ω	0.500Ω	0.500Ω	0.500Ω	0.500Ω	0.250Ω	0.250Ω	0.250Ω	0.125Ω	0.125Ω	0.125Ω	
5.00 Second Tripping Time	0.500Ω	0.500Ω	0.500Ω	0.500Ω	0.500Ω	0.250Ω	0.250Ω	0.250Ω	0.125Ω	0.125Ω	0.125Ω	

## FN Frame MCCB

FN Frame Maximum Earth Loop Impedances for Triple Pole MCCBs Zs (Ohms) for Uo = 240 VAC												
Current rating (A)	25	32	40	50	63	80	100	125	160	200	250	
0.4 Second Tripping Time	0.436Ω	0.436Ω	0.27Ω	0.27Ω	0.27Ω	0.27Ω	0.17Ω	0.17Ω	0.136Ω	0.136Ω	0.136Ω	
5 Second Tripping Time	0.96Ω	0.75Ω	0.6Ω	0.48Ω	0.38Ω	0.3Ω	0.24Ω	0.192Ω	0.15Ω	0.12Ω	0.096Ω	



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Description	Rating	Poles	kA Rating	Part No.
3 Pole 200A Circuit Breaker switch	200A	3	-	PSAAN3200CB
3 Pole 250A Circuit Breaker switch	250A	3	-	PSAAN3250CB
3 Pole 160A MCCB	160A	3	25kA	PSAAN3160MC
3 Pole 200A MCCB	200A	3	25kA	PSAAN3200MC
3 Pole 250A MCCB	250A	3	25kA	PSAAN3250MC