

## ANM9 Series molded case circuit breakers

### Application

ANM9 Intelligent type MCCB is suitable for using in the circuit of AC 50/60Hz, please make remarks when ordering, rated insulating voltage 750V, rated working voltage below 690V, and rated current is 16A to 1250A for distributing electric energy, and infrequently OFF/ON under normal condition.

The intelligent MCCB, which the rated frame rank current is 800A and below, also can be used for infrequently switching and starting of squirrel cage motor and for protecting motor from over-load, short circuit and under-voltage.

Working conditions:

- Not over altitude 2000m;
- Ambient temperature is between -25℃ and +40℃ ;

Working in the medium which not any explosive, not enough dielectric to corrode metal, no gas to damage insulation and electric conduction dust;

- Working in the place would not be invaded by rain and snow;
- Pollution degree3;
- Mounting type.



### The features of the STR

- ANM9 Series molded case circuit breakers of which the main technical performance has reached the level of international equivalent products. ANM9 MCCB has the advantages of compact structure, small volume, high breaking capacity, zero arcing, strong acclimation, installing conveniently and so on.
- ANM9 Series intelligent molded case circuit breakers, adopt microprocessor technology to avoid the short point of traditional ones can be influenced by environment temperature owing to adopting bimetal.

### Classification

- According to using: distribution circuit protection type, motor production type;
- According to connection mode: front panel connection, back panel connection, plug-in connection;
- According to operating way: for direct handle operating, for motor operator operating, for rotary handle operating.
- According to the number of pole: 3,4 pole.
- According to the accessory: with accessory setting, and without accessory setting.

### The main capability index

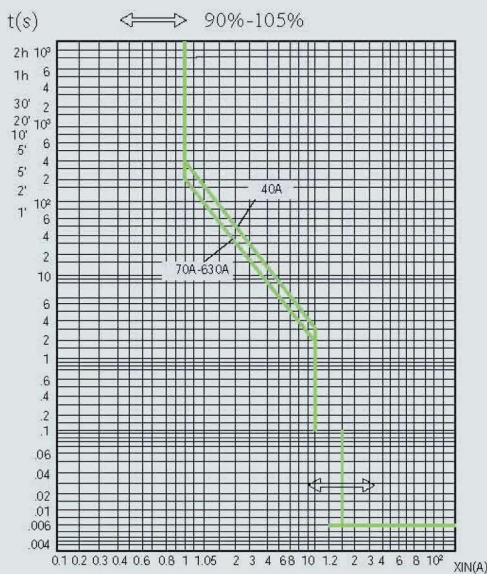
Frame grade, rated current

Current grade	100model	160model	250model	400model	630model	1250model
Adjustable rated current range	40A-100A	64-160A	100A-250A	160A-400A	250A-630A	500A-1250A

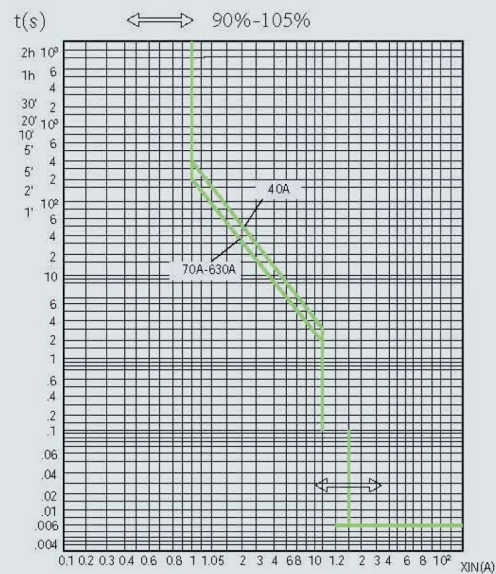
The protection of ANM9 serie breakers (intelligent)

The frame current grad (A)	Rated current	Tims of Short delay(times)	Notice
100model	40-100	2-10	1:Grades to adjust:2,3,4,5,6,7,8,10 2:Rated current can be adjusted, and has 48 grades. 3:Distribute electric instantaneous multiple up from 11 times 4:Motor instantaneous multiple up from 12 times.
160model	64-160	2-10	
250model	100-250	2-10	
400model	160-400	2-10	
630model	250-630	2-10	
1250mode	500-1250	2-10	

ANM9 distribution circuit breaker protection curve(intelligent).



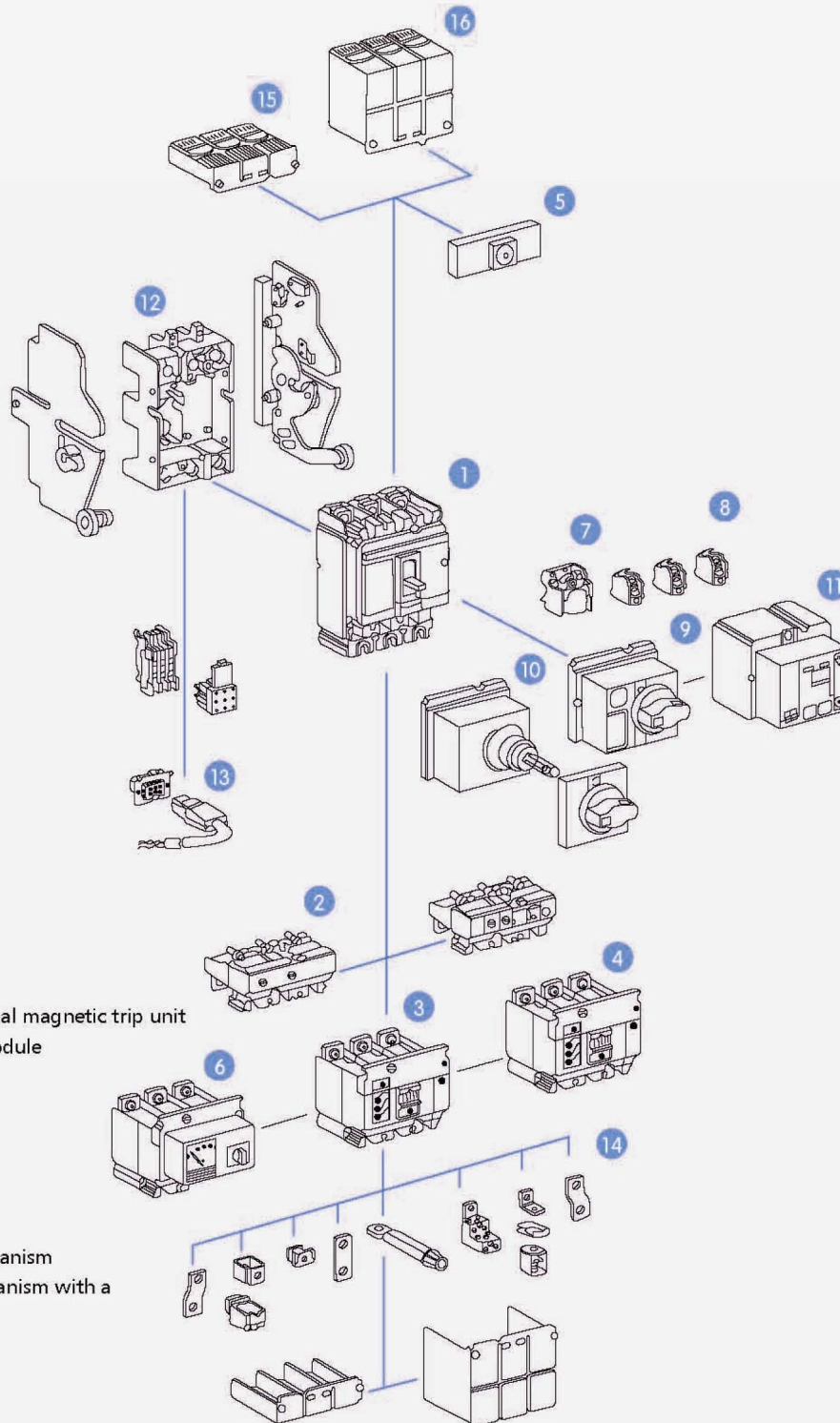
ANM9 power circuit breaker protection curve(intelligent).



The protection of the thermodynamic distribution circuit breaker™ (comply with GB14048.2) Ambient temperature+40°C

Action charac-teristic Rated current In (A)	Ambient temperature+40°C		Error of instantaneous trip
	1.05In(cold state ) inoperative time(h)	1.30In(heat state ) inoperative time(h)	
In ≤ 63	≥ 1h	<1h	10In ± 20%
63 < In ≤ 1250	≥ 2h	<2h	10In ± 20%

## Circuit breaker accessories diagram



1. Circuit breaker
2. Electronic trip unit, Thermal magnetic trip unit
3. Insulation monitoring module
4. Leakage module
5. Fixed plate
6. Ammeter module
7. Shunt release
8. auxiliary
9. Rotate the handle
10. Manual operating mechanism
11. Electric operating mechanism with a communication function
12. plug-in
13. ULP wiring accessories
14. Terminal
15. short terminal sheath
16. long terminal sheath



## ANM9 Series molded case circuit breakers

The protection of the thermodynamic distribution circuit breaker™ (comply with IEC60947-2) Ambient temperature+40℃

Action characteristic	1.0In(cold state ) inoperative time(h)	1.2In(heat state ) inoperative time(h)	1.5In(heat state ) inoperative time(h)	7.2In(cold state ) inoperative time(h)	Error of instantaneous trip
Rated current In (A)					
63<In ≤ 250	≥ 2h	<2h	≤ 4min	2s<In ≤ 10	10In ± 20%

Type	ANM9-100	ANM9-160	ANM9-250	ANM9-400	ANM9-630	ANM9-1250						
Main technical parameter(comply with GB14048.2/IEC60947-2)												
Rated current(A)	100	1600	250	400	630	800,1000,1250						
Number pole	3,4	3,4	3,4	3,4	3,4	3						
Rated insulation voltage (V)	850	850	850	850	850	850						
Rated working voltage (V)	690	690	690	690	690	690						
Test life(no load/0.5In load)	8500/1300	7000/900	7000/900	4000/800	4000/800	1000/400						
Rated impulse withstand voltage (kV)	7.5	7.5	7.5	7.5	7.5	7.5						
Ultimate short circuit breaking capacity icu(kA)												
220V/230V	75	80	75	80	75	80	80	90	80	90	80	90
380V/415	25	45	30	45	30	45	42	60	42	60	42	60
400V	25	40	30	40	30	40	40	55	40	55	40	55
500V	18	30	25	30	25	30	30	45	30	45	30	45
600V	7	9	7	9	8	10	10	18	10	18	10	18
Service short circuit breaking capacity Ics	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Usage sort	A	A	A	A	A	A	A	A	A	A	A	A
Protect Ir form over current	40-100	64-160	100-250	160-400	250-630	500-1250						
Instantaneous times	2-10	2-10	2-10	2-10	2-10	2-10						
Three phase unbalance protection N=In/2,N=In	Aim at the protection of motor and depend on consumer's advises											

## Overall and mounting dimensions

Installation abot ANM9-100~630

Type	H	H1	H2	L	L1	L2	L3	C	C1	C2
ANM9/100/160/250D/N/H/L	81	86	111	160	188	321	357	52.5	105	140
ANM9/400/630D/N/H/L	105	110	168	255	285	480	474	70	140	185

