

# AM5 Series Protection Relay



## Model Description

A	M											
					1	GPS : with						
					2	without						
					1	Anti-pumping : with						
					2	without						
					1	Communication port :RS 485 (1 port)						
					2	RS 485 (2 port)						
					1	Power : 110 V AC / DC						
					2	220 V AC / DC						
					3	48 V DC						
					1	I <sub>ON</sub> : 1 A						
					5	5 A						
					1	I : 1 A						
					5	5 A						
					F	Line protection						
					T	Transformer protection						
					M	Motor protection						
					C	Capacitor protection						
					B	Bus tie protection						
					U	PT supervision						
					BL	PT parallel connection						
					DB	0.4kV standby power automatic transfer						
				5	Serial number							
					Protection relay							

AM5

Sales manager : Tim Ma  
 Tel /whatsapp/wechat : 86 18761599716  
 E-mail : tim.ma@email.acrel.cn  
 Website: www.acrel.gr

## Functions

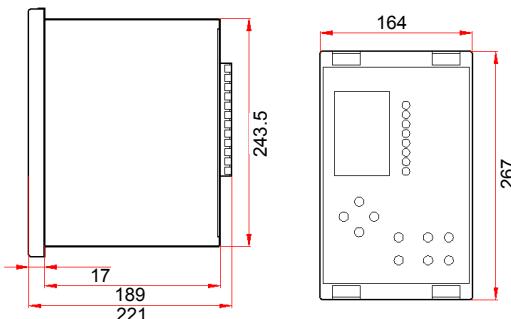
Protection Functions	AM5-							
	F	T	M	C	B	U1	U2	DB
Directional overcurrent (with voltage dependant, 3 stages)	■							
Overcurrent (with compound voltage dependant, 3 stages)		■						
Overcurrent (motor start,motor run, 2 stages)			■					
Overcurrent (2 stages)				■	■		■	
Overcurrent IDMT	■	■	■	■	■	■	■	
Earth fault	■	■	■	■	■			
Earth fault IDMT (I01)	■	■						
Earth fault IDMT (I02)	■	■						
Overload (alarm)	■	■	■					
Overload (trip)	■	■	■					
Trip and close circuit supervision (alarm)	■	■	■			■		
Undervoltage (trip)				■				
Undervoltage (alarm)						■	■	
Loss of voltage (trip)	■							
Loss of voltage (alarm)	■							
PT disconnection	■	■	■	■	■	■	■	■
Three phase auto-reclose	■							
Under frequency	■							
Over frequency	■							
Post-accelerated overcurrent	■			■				
Overvoltage (alarm)	■					■	■	
Loss of voltage (trip)	■			■				
Blocking rotor		■						
Capacitor undervoltage			■					
Unbalance voltage			■					
Unbalance current			■					
Residual overvoltage (trip)	■			■				
Residual overvoltage (alarm)	■	■	■				■	
Non-electricity	■	■	■	■				
Starting time-out			■					
Directional power	■							
Thermal overload (trip/alarm)			■					
Negative sequence overcurrent (2 stages/IDMT)		■						
Oversupply average			■					
Oversupply average			■					
Incorrect phase sequence			■					
Bus tie and standby power automatic switch				■			■	
0.4kV standby power automatic switch								■
FC block	■	■	■	■	■	■		
Rear Ports	F	T	M	C	B	U1	U2	DB
RS485 (2 ports)							■	

Note: ■ standard □ optional

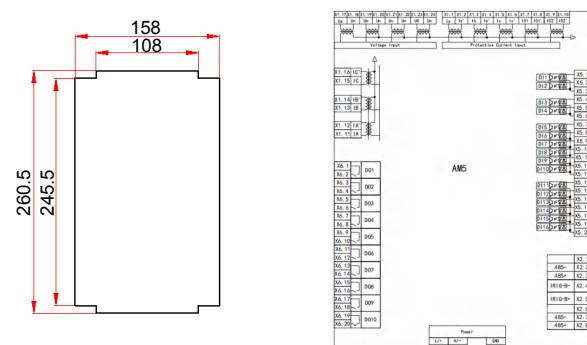
Protocols	AM5-							
	F	T	M	C	B	U1	U2	DB
Modbus serial					■			
IEC 60870-5-103					■			
IEC 60870-5-101					■			
Logs and Records	F	T	M	C	B	U1	U2	DB
Tripping context records					■			
Sequence of event records					■			
Measurement	F	T	M	C	B	U1	U2	DB
Electric parameter						U, I, P, Q, PF, F, Ep, Eq, Es		
Input current	8	8	8	8	8	0	0	8
Input voltage	4	4	4	4	4	4	8	4
Monitoring Functions	F	T	M	C	B	U1	U2	DB
Anti-pumping circuit					Optional			
Remote control					■			
Others	F	T	M	C	B	U1	U2	DB
GPS					■			

Note: ■standard □optional

## Wiring



## Dimensions



## Cut-out Dimensions

## Wiring

