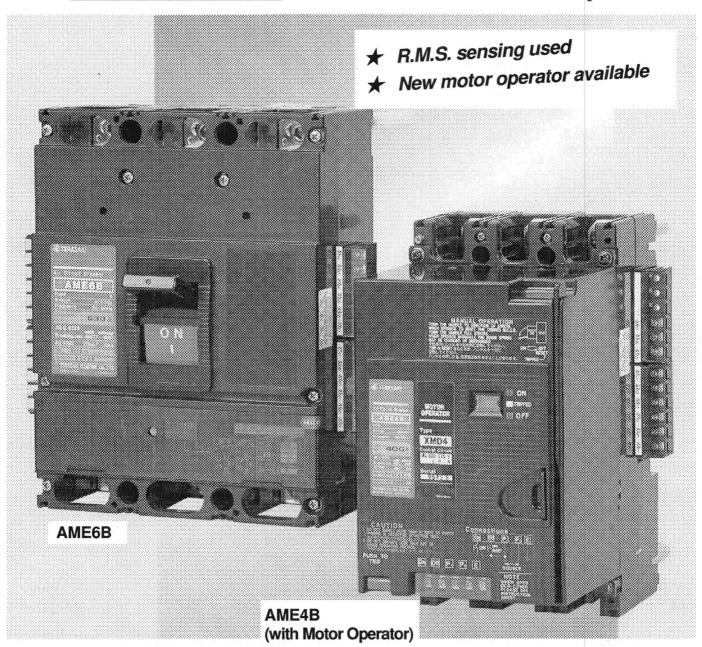


New AME Series Air Circuit Breakers

For marine use

The AME series is new and improved



For Generator Protection

Catalogue No. KRG 5136b

TERASAKI ELECTRIC CO., LTD.

FEATURES

The New AME Series Air Circuit Breakers have been improved in the following ways.

R.M.S. SENSING METHOD USED FOR OVERCURRENT TRIPPING DEVICE

Prevents nuisance tripping due to distorted current containing harmonics.

ON-OFF COLOR INDICATION

IEC standard symbols I (ON) and O (OFF) used. I (ON) is diplayed in red and O (OFF) is displayed in green for easy reading.

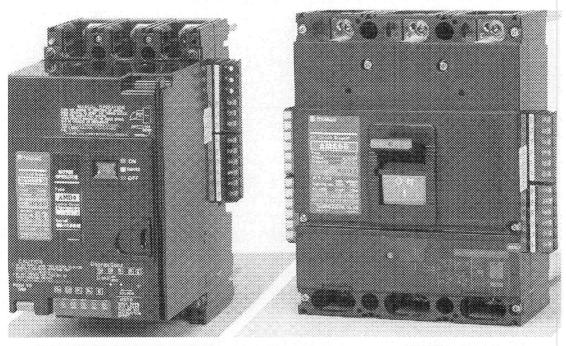
SAFETY DISPLAY MECHANISM

When there is sufficient space between the moving contact and the stationary contact (when the breaker is actually off position), the trip indicator shows O (OFF).

NEW MOTOR OPERATOR

64% smaller than the previous model. OCR setting changes made easily without removing the motor. ON, OFF, and TRIP are clearly displayed.

APPEARANCE



AME4B(with Motor Operator)

AME6B

■ BREAKER COMPONENTS

UVT(SHT) AUXILIARY CIRCUIT TERMINAL
Provided when fitted with
UVT or SHT.

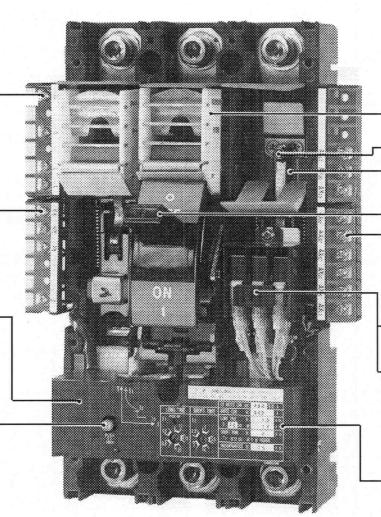
OCR TEST TERMINAL (STANDARD)

Field-test terminal for overcurrent tripping device.

UNDERVOLTAGE TRIP

See page 6 for ratings, specifications, and combinations of accessories.

TRIP BUTTON——(STANDARD: gray)



(AME4B rear connected type)

ARC CHUTE

MOVING CONTACT

STATIONARY CONTACT

OPERATING HANDLE
AUXILIARY CIRCUIT
TERMINAL (STANDARD)
See page 7 for standard
terminal arrangements.

AUXILIARY SWITCH (STANDARD)

ALARM SWITCH
See page 6 for ratings,
specifications, and
combinations of
accessories.

OVERCURRENT TRIPPING DEVICE (R.M.S. SENSING)

RATINGS AND SPECIFICATIONS

Frame (A)		250	400	630	800	1000
Туре		AME3B	AME4B	AME6B	AME8B	AME10B	
Number of poles			3	- 3	3	3	3
Rated current for overcurrent tripping device (A) In is the generator rated current		$16 \le \ln \le 31.5$ $31.5 < \ln \le 65$ $63 < \ln \le 125$ $125 < \ln \le 250$	3 200 ≦ In ≦ 400	3 315 ≦ In ≦ 630	500 ≦ In ≦ 800	630 ≦ In ≦ 1000	
Rated insul	ation voltage (VAC)		600	600	600	600	600
Rated frequ	uency (Hz)		50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Protection characteristics LTD+STD+INST		•	•	•	•	•	
of overcurre	nt tripping device	LTD+STD	•	•	•	•	•
	eaking current/Rated rms. / kA peak AC4	The second secon	3.21	12.5			
NK, LR		with INST	16 / 34.8	16 / 34.8	20 / 42.6	30 / 63.8	30 / 63.8
AB, BV		without INST	4 / 6.87	6 / 10.2	10 / 17.4	15 / 33.0	15 / 33.0
JIS, JG		with INST	16 / 32	16 / 32	20 / 40	30 / 63	30 / 63
		without INST	4/6.8	6 / 10.2	10 / 17	15/30	15 / 30
Rated short-time current(kA sym. rms.)		4 (150ms)	6 (150ms)	10 (150ms)	15 (150ms)	15 (150ms)	
■ Mountings	and Connections F	Rear-connected RC	•	•	•	•	•
	F	Plug-in PM	•	•	•	•	•
Outline di	mensions (mm) R	ear-connected/plug-in					
—a—↓	← d a		182 / 161	182 / 161	252 / 231	252 / 231	252 / 231
—— ^L	tct b		260 / 282	260 / 280	273 / 303	370 / 370	370 / 370
	~ E c		121 / 121	121 / 121	121 / 121	120 / 138	120 / 138
	d d		255 / 245	255 / 245	267 / 270	282 / 336	282 / 336
Veight (kg) Re	ar-connected/plug-in (in	cluding mounting base)	6.5 / 8.2	6.5 / 8.2	10 / 16.1	19.5 / 30.1	19.5 / 30.1
■ Standard	specifications	Trip button	•	•	•	•	•
	Auxiliary switch	Rear-connected	● (3c) ①	● (3c) ①	● (4c) ①	● (4c) ①	● (4c) ①
	(AX)	Plug-in	● (2c) ②	● (2c) ②	● (3c, 1a) ①	● (3c, 1a) ①	● (3c, 1a) ①
Accessori	es (optional)	Code	<u> </u>			<u> </u>	
	Alarm switch	AL	•	_ •	•	•	•
Internal	Undervoltage trip	device UVT @	•	•	•	•	•
<u> </u>	Shunt trip device	SHT ④	•	•	•	•	•
	Motor operator	MOT	•	•	•	•	•
	External operating	handle AFB	•	•	•	•	•
External	External handle	EHA			Standard	Standard	Standard
	Terminal cover	TCR	•	•	•		
	OCR checker	(5)	•	•	•	•	•
	OCR adapter	6	•	•	•	•	•
■ Enduranc	e						
	Number of operation	ons with current	2000	1000	500	500	500
	Number of operatio	ns without current	10000 ③	10000 ③	5000 ③	5000 ③	5000 ③
■ NK type-approval number			94T223	94T224	94T225	94T226	94T227

NOTE : Available -: Not available

①: Change to 2c when fitted with alarm switch.

②: Change to 1c when fitted with alarm switch.

③: Includes number of operations with current.

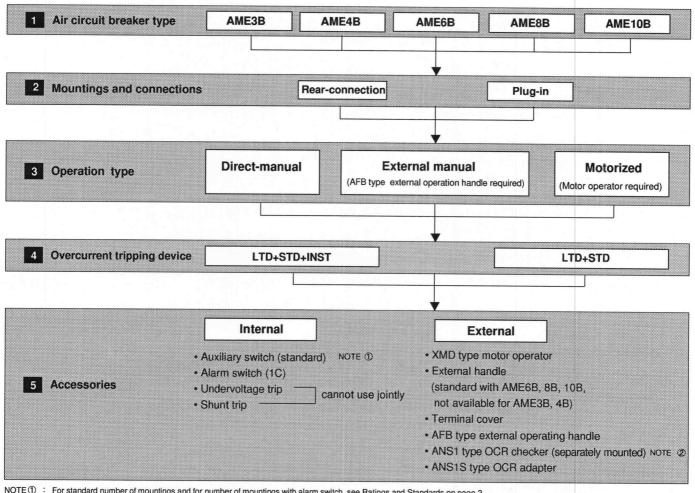
Cannot use UVT and SHT jointly.

^{®:} Used for testing instantaneous trip function (separate mounting). NK standard requires at least one checker per vessel.

 $[\]ensuremath{\mathfrak{G}}$: Used for testing tripping characteristics with secondary current.

SELECTION GUIDE

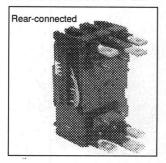
SELECT THE APPROPRIATE BREAKER AND ACCESSORIES FOR YOUR PARTICULAR APPLICATION

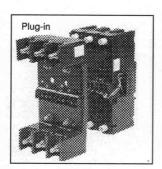


NOTE ① : For standard number of mountings and for number of mountings with alarm switch, see Ratings and Standards on page 2.

NOTE ② : NK standard requires at least one cheker per vessel.

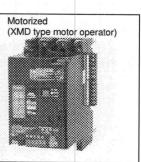
■ MOUNTING TYPES



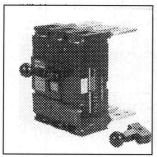


OPERATION TYPE

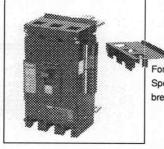




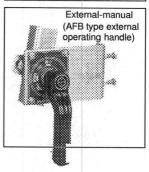
■ EXTENSION HANDLE







For protection from live parts. Specify at time of order of the breaker.



PROTECTION CHARACTERISTICS

SETTING RANGES FOR OVERCURRENT TRIPPING DEVICE

Protective functions

Adjustable long time-delay trip characteristic (LTD)

Pick-up current setting, I.

Pick-up current setting tolerance (%)

Time delay setting, T,

Time-delay setting tolerance (%)

Adjustable short time-delay trip characteristic (STD)

Pick-up current setting, I,

Pick-up current setting tolerance (%)

Time delay setting, T₂ (opening time)

■ Instantaneous trip characteristic (INST)

Pick-up current setting, I₃

Pick-up current setting tolerance (%)

Setting ranges	(In: Rated primary	current of generator)
----------------	--------------------	-----------------------

In x (0.8 - 1.0 - 1.1 - 1.15 - 1.25) 5 graduations

 ± 7.5

Fixed setting in the range 15s - 60s at I,x 120%.

· The specified value will be indicated on the label.

 ± 15

In x (2.0 - 2.5 - 3.0 - 3.5 - 4.0) 5 graduations

± 15

Fixed at 0.12s for currents ≥ I₂ (definite time-delay characteristic)

In x (4,7,12,15) fixed setting

· The specified value will be indicated on the label.

 ± 20

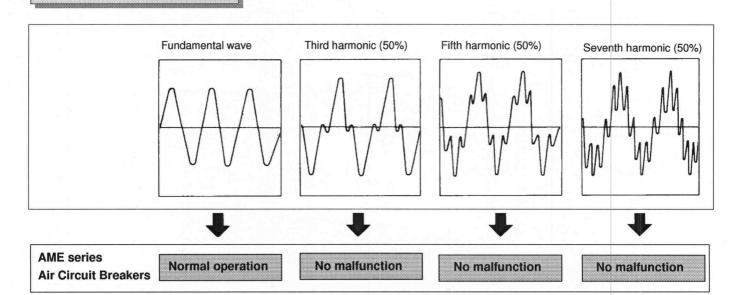
TRUE R.M.S. VALUE SENSING

(New series) AME series air circuit breakers are equipped with an 8-bit microcomputer.

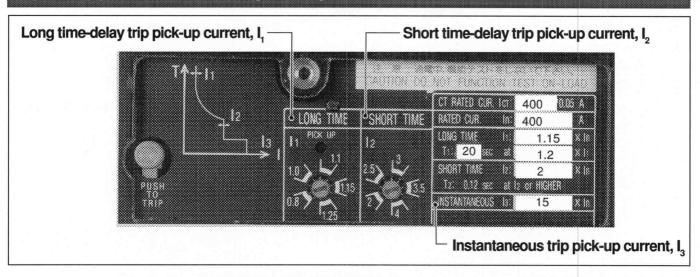
R.M.S. sensing provides a highly dependable LTD protection characteristic.

UNAFFECTEDBYHARMONICS

AME series breakers operate normally in spite of harmonic currents produced by semiconductor devices in the electrical distribution system. Constant R.M.S. value computation is performed by our custom-made IC - a state of the art piece of hardware incorporating high-density double-sided packaging.



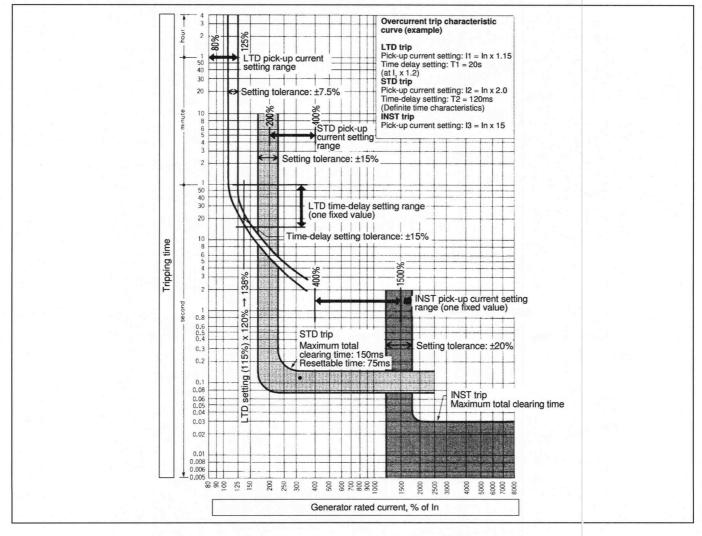
OVERCURRENT TRIPPING DEVICE



PROTECTIVE CHARACTERISTIC CURVES

The overcurrent trip device comes in two types.

1. With long time-delay (LTD), short time-delay (STD), and instantaneous (INST) trip functions 2. With long time-delay (LTD) and short time-delay (STD) trip functions



RATING, SPECIFICATIONS AND COMBINATIONS FOR INTERNAL ACCESSORIES

RATINGS AND SPECIFICATIONS FOR INTERNAL ACCESSORIES

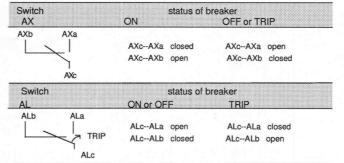
Auxiliary switch (AX)

Indicates the open-closed status of the breaker electrically.

Alarm switch (AL)

Indicates the trip status of the breaker electrically.

■ Operation of AX and AL



■ Ratings for AX and AL (switch: V-10-1A4)

Voltage (V)		0/60Hz)		DC		
		250	125	250	125	30
Current (A) Resistive load		5	5	0.3	0.6	5
Lamp load	0.2	1.5	2	0.05	0.1	3
Inductive load	1	5	5	0.3	0.6	4
Motor load	0.3	2	3	0.05	0.1	3
	Resistive load Lamp load Inductive load	A80 Resistive load 1 Lamp load 0.2 Inductive load 1	Resistive load 1 5 Lamp load 0.2 1.5 Inductive load 1 5	480 250 125 Resistive load 1 5 5 Lamp load 0.2 1.5 2 Inductive load 1 5 5	Hesistive load 1 5 5 0.3 Lamp load 0.2 1.5 2 0.05 Inductive load 1 5 5 0.3	Hesistive load 1 5 5 0.3 0.6 Lamp load 0.2 1.5 2 0.05 0.1 Inductive load 1 5 5 0.3 0.6

Minute cu	Minute current limit						
DC30V	26.7mA						
DC5V	160mA						

- The ramp load means an inrush current of ten times the rated current.
- The inductive load means a power factor of 0.4 or more (AC) and a time constant of 7ms or less (DC).
- The motor load means an inrush current of six times the rated current.

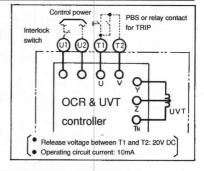
Undervoltage trip device (UVT)

The UVT is a device which trips the breaker when the circuit voltage gets too low. To avoid operating in reaction to instantaneous voltage drops, the UVT incorporates a delayed tripping system with a time lapse of 50ms - 120ms. The UVT is equipped with useful electrical trip terminals (T1, T2) which can be used for remote operation or automated control. If you connect these terminals directly to the control switch or to the relay contact (a-contact), the breaker will trip instantaneously.

■ UVT Ratings

Opening voltage (V)	Resettable voltage (V)	<pre>% Exciting current (mA)</pre>	
58 ± 10	68 ± 12	21	
116 ± 20	135 ± 25	11	
32 ± 26	270 +30/-40	6	
	voltage (V) 58 ± 10 116 ± 20	voltage (V) voltage (V) 58 ± 10 68 ± 12 116 ± 20 135 ± 25	

X Values shown at maximum voltage (60Hz).



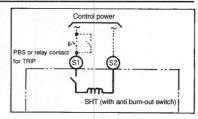
Shunt trip device (SHT)

The SHT is for tripping the breaker electrically from a remote position.

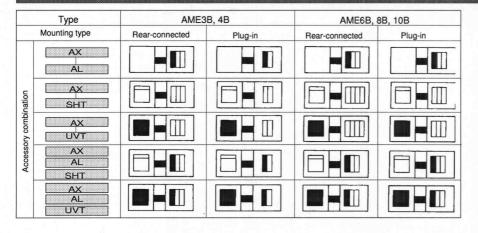
■ SHT Ratings

Rated voltage	Exciting current (A)	Operational voltage
AC100115V	1.1	AC70127V
AC200480V	0.93	AC140528V

※ Show the peak values at maximum voltage (60Hz)



COMBINATIONS OF INTERNAL ACCESSORIES





Alarm switch

Shunt trip device (with anti burn-out switch)

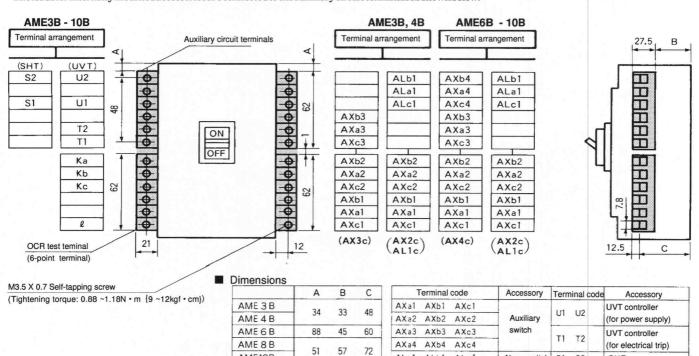
Undervoltage trip device



STANDARD ARRANGEMENTS OF AUXILIARY CIRCUIT TERMINALS FOR ACCESSORIES

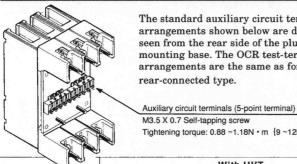
REAR CONNECTED TYPE

The leads for internally mounted accessories are connected to the auxiliary circuit terminals as shown below.



ALb1

PLUG-IN TYPE



The standard auxiliary circuit terminal arrangements shown below are drawn as seen from the rear side of the plug-in mounting base. The OCR test-terminal arrangements are the same as for the

AME10B

M3.5 X 0.7 Self-tapping screw Tightening torque: 0.88 ~1.18N • m {9 ~12kgf • cm})

Terminal code		Accessory	Accessory Terminal code		Accessory	
AXa1	AXb1	AXc1		U1	U2	UVT controller
AXa2	AXb2	AXc2	Auxiliary			(for power supply)
AXa3	AXb3	AXc3	switch		T1 T2	UVT controller
AXa4		AXc4		T1	12	(for electrical trip)
ALa1	ALb1	ALc1	Alarm switch	S1	S2	SHT

Alarm switch

S1 \$2

	With	UVT	With	SHT
	Terminal arrangement 1	Terminal arrangement 2 (with alarm switch)	Terminal arrangement 3	Terminal arrangement 4 (with alarm switch)
ON side OFF side	(TAM) A X 5 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1	AX21 AX21 AX31 AX31 AX31 AX31 AX31 AX31 AX31 AX3	(STAY A X A Z A Z A Z A Z A Z A Z A Z A Z A Z	AXall AXall AXall AXall AXall AXall AXall Alcal
ON side OFF side	AX62 AX62 AX62 AX63	AXC2 AXA1 AXA2 AXA1 AXA2 AXA1 AXA1 AXA2 AXA1 AXA1	AXac AXal AXal AXbl AXbl AXbl AXbl AXbl AXbl AXbl AXb	AXC2 AXA2 AXA2 AXA3 AXA3 AXA3 AXA3 AXA3 AXA

RATINGS AND SPECIFICATIONS FOR MOTOR OPERATORS

SPRING CHARGED MOTOR OPERATOR

■ Positive contact indication

Color coding indicates the true position of the contacts clearly: ON (red), OFF (green), TRIP (white).

■ Manual ON/OFF operation with one stroke Lever pumping is no longer required.

■ Small and lightweight

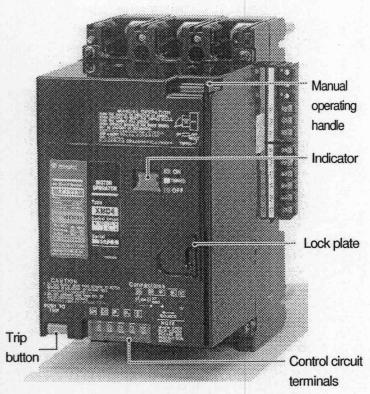
New models are more compact and lighter in weight - size reduced to 64% and weight reduced to 57% of previous models.

■ Easy maintenance

Breaker mounting, removal, and even setting changes can be done without removing the motor operator.

Fast closing operation

Closes in 60 ms or less. The closing time remains stable closing after closing.



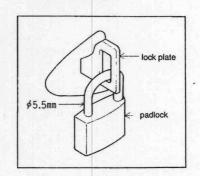
(AME4B with Motor Operator)

Ratings and specifications

Motor operator type	XMD4M	XMD6M	XMD9M
Applicable breakers	AME3B AME4B	AME6B	AME8B AME10B
Rated operating voltage AC 110 - 115 V		• 11.	
AC 200 - 230 V	•	•	•
Lock-in-OFF function (standard) ※ 1	•	•	•
Manual trip button	•	•	•
Steady-state r.m.s. current (A) /starting peak current (A)			
AC100-115V ON ①	-/3.1	-/3.1	-/3.1
OFF, RESET ①	1.2/ 5.7	1.8 / 6.0	1.8/ 6.0
AC220-230V ON ②	-/1.2	-/1.2	-/1.2
OFF, RESET ②	0.7 / 3.0	1.0 / 3.2	1.0 / 3.2
Type of operation	spring charged	spring charged	spring charged
Operating time (s) ON (maximum value)	0.06	0.06	0.06
OFF, RESET (maximum value at rated voltage	3	3	3
Control switch rating	250V, 5A	250V, 5A	250V, 5A
Power source capacity	300VA	300VA	300VA
Dielectric withstand voltage, () indicates value for 24V DC use	AC1500V (AC500V)	AC1500V (AC500V)	AC1500V (AC500V)
Weight (kg)	4.7	5.6	6.4

NOTE

- : Available ① : Maximum values at AC115V/ 50Hz
- 2: Maximum values at AC230V/50Hz
- 1: Breaker can be locked into the OFF position by pulling out the lock plate and locking it with a padlock.
- When the breaker is ON, the lock plate cannot be pulled out.
- · Up to three locks can be used.
- · Padlocks not supplied.



OPERATION

Motorized operation

ON

When the ON switch is closed, the latch release coil (LRC) is excited and the closing spring is released. The breaker quickly closes and goes into ON status. When the closing spring is released, the limit switch (LS) is opened and the LRC is de-excited.

OFF

When the OFF switch is closed, self-hold control relay (Y) is activated and motor (M) operates to charge the closing spring. The breaker changes to OFF status.

RESET

When the relay is in TRIP status, closing the OFF switch activates self-hold control relay (Y) and starts motor (M). Motor (M) charges the closing spring and resets the breaker.

Manual operation

ON, OFF (RESET)

The breaker can be opened (OFF or RESET) and closed (ON) alternately by pulling the operating lever down in one full stroke. ON/OFF operation of the breaker is possible without charging or releasing the closing spring.

TRIP

The breaker can be tripped by pushing the TRIP button on the motor operator.

(Emergency Trip)

Opening the breaker (OFF) using the motor operator takes up to 13 seconds. If a remote emergency OFF function is necessary, incorporate the shunt trip device (SHT) or the undervoltage trip device (UVT) into the breaker.

Automatic charge/discharge function

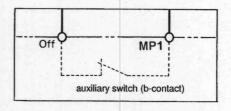
If the breaker is closed manually (ON) while the power source is on, the handle switch (HS) induces automatic release of the closing spring. Likewise, if the breaker is opened manually (OFF), the springs are automatically charged.

If the breaker is opened or closed while the power source is off, later when the power source is turned on, the closing spring will automatically be charged or discharged to match the ON/OFF status of the breaker. This automatic charge/discharge function is necessary to prepare the closing mechanism for the next ON/OFF operation. The sound of the charging or discharging of the spring should not be mistaken for a malfunction.

Automatic reset

If you use the alarm switch fitted in the breaker, you can induce recharging of the closing spring and go into the reset position automatically. Connect the automatic reset circuit as shown below.

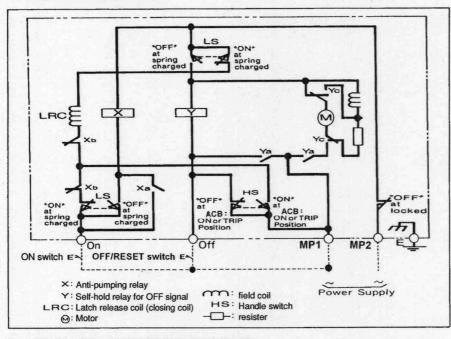
NOTE: When you require an alarm switch with the automatic reset function please specify two alarm switches for the breakers. If the alarm switch is used, a pulse signal will be produced in the automatic reset circuit when the alarm is activated. Be sure to use a self-hold circuit to avoid possible problems caused by this pulse signal.



Anti-pumping function

When the breaker is turned ON and the closing spring is released, self-hold control relay X is activated. Xa-contact is held closed, and Xb-contact is opened. While the ON switch is closed, latch release coil (LRC) will not be excited even if the OFF switch is closed or an automatic reset circuit is being used. Pumping is thus prevented.

▼ Control circuit AC



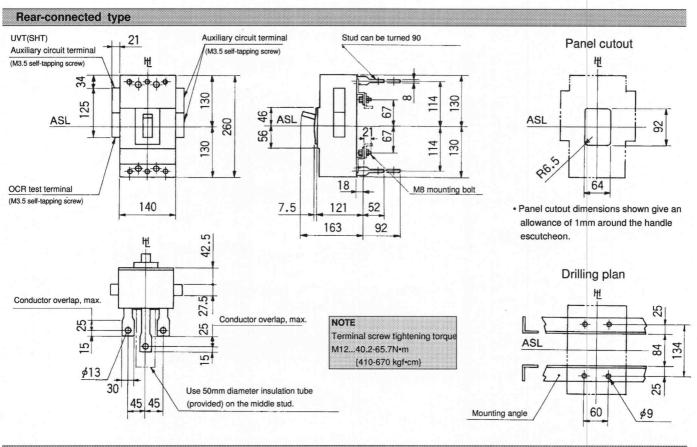
■ PRECAUTIONS REGARDING USAGE

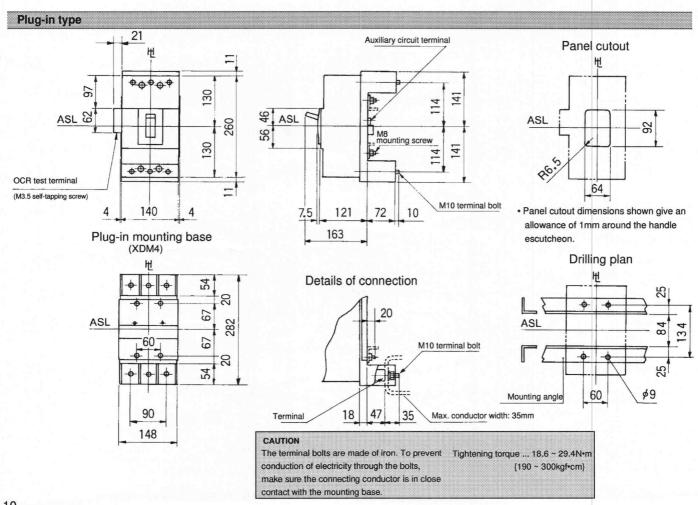
- If using the UVT option, be sure to reset the UVT before closing the breaker.
- The motor operator must be supplied with voltage within the following range.
 DC: 75-110% of rated voltage
 AC: 85-110% of rated voltage
 Operation at low voltage may burn out the motor.

OUTLINE DIMENSIONS (DIRECT MANUAL OPERATION)

AME3B, AME4B

: Arrangement standard line 世: Handle frame center line

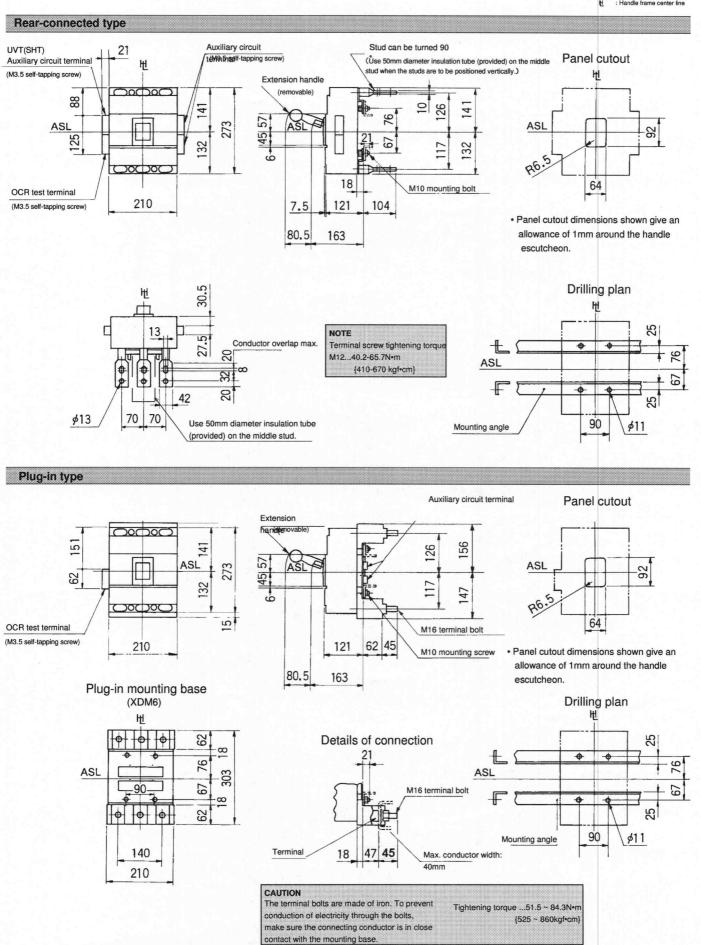




OUTLINE DIMENSIONS (DIRECT MANUAL OPERATION)

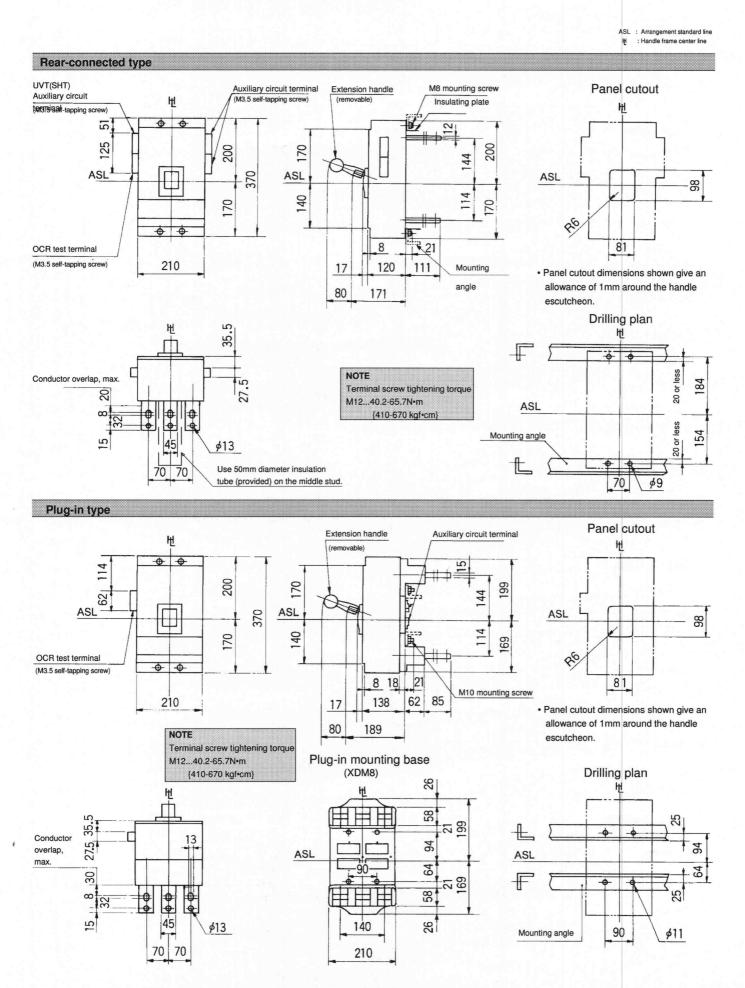
AME6B

ASL : Arrangement standard line
H : Handle frame center line



OUTLINE DIMENSIONS (DIRECT MANUAL OPERATION)

AME8B, AME10B



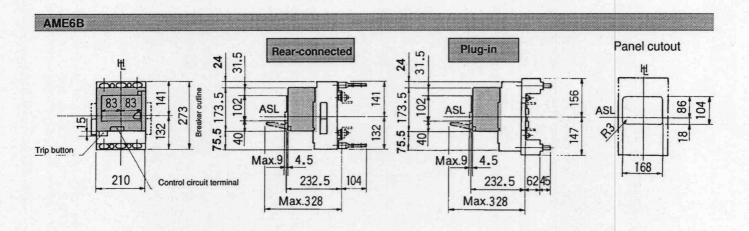
OUTLINE DIMENSIONS

(MOTORIZED OPERATION WITH XMD MOTOR OPERATOR)

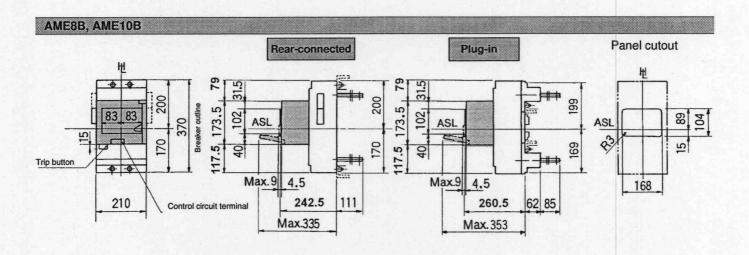
ASL : Arrangement standard line
H : Handle frame center line

AME3B, AME4B Rear-connected Plug-in Panel cutout 345 345 28. 28 130 141 203 2 51 ASL ASL 203 ASI 2 51 130 141 S 28. 28. Trip button 122 Max. Max. 52 4.5 11 11 140 Control circuit termina 232.5 92 232.5 72 | 10 Max.355 Max.355

NOTE: See page 10 for details not shown here.



NOTE: See page 11 for details not shown here.



NOTE: See page 12 for details not shown here.

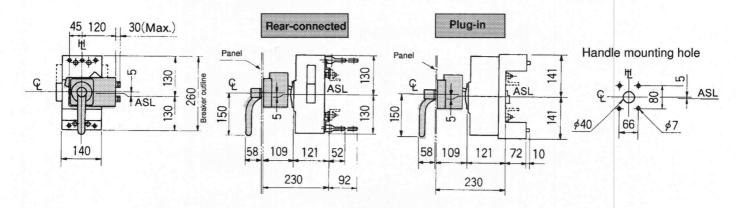
OUTLINE DIMENSIONS (MANUAL OPERATION WITH AFB EXTERNAL OPERATING HANDLE)

ASL : Arrangement Standard Line

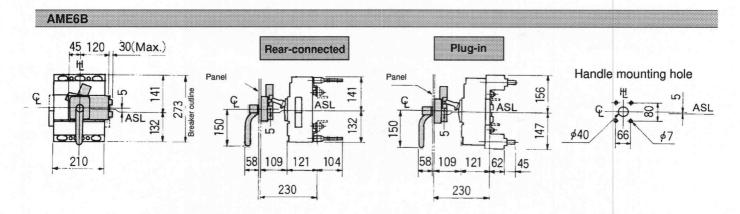
H : Handle Frame Center Line

4 : Handle Center Line

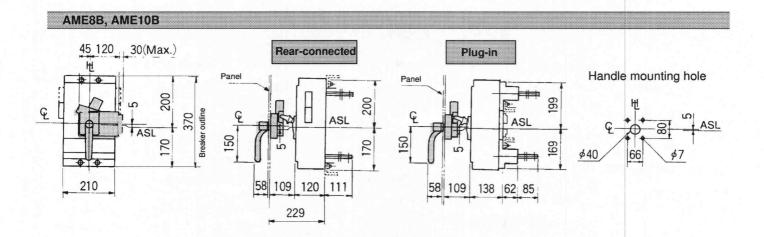
AME3B, AME4B



NOTE: See page 10 for details not shown here.

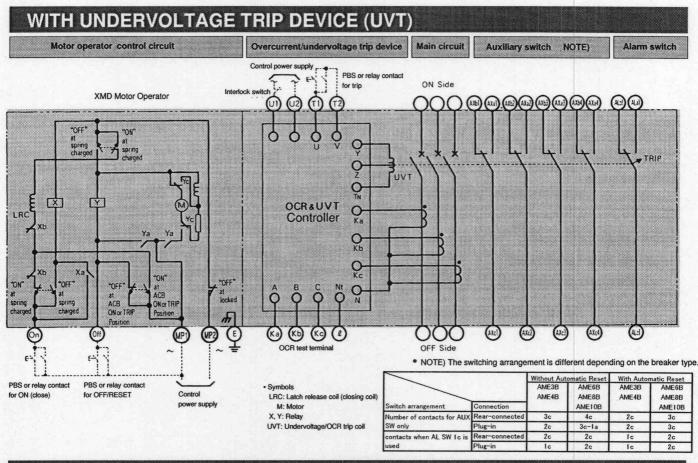


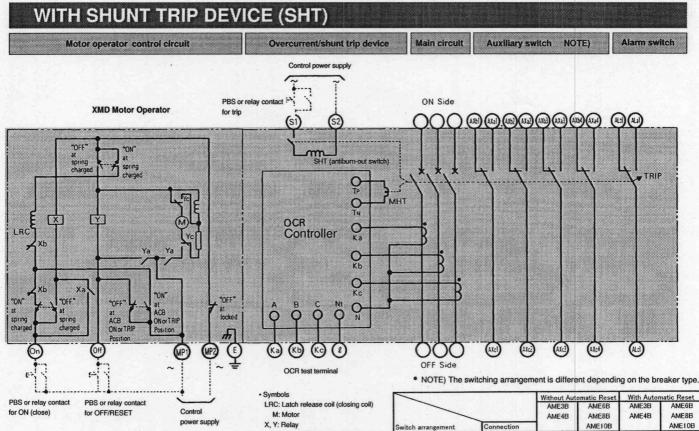
NOTE: See page 11 for details not shown here.



NOTE: See page 12 for details not shown here.

CONNECTION DIAGRAMS





UVT: Undervoltage/OCR trip coil

SHT: Shunt trip coil

MHT: Magnet Hold Trigger (OCR trip coil)

Number of contacts for AUX

ontacts when AL SW Ic is

2c

2c

10

2c

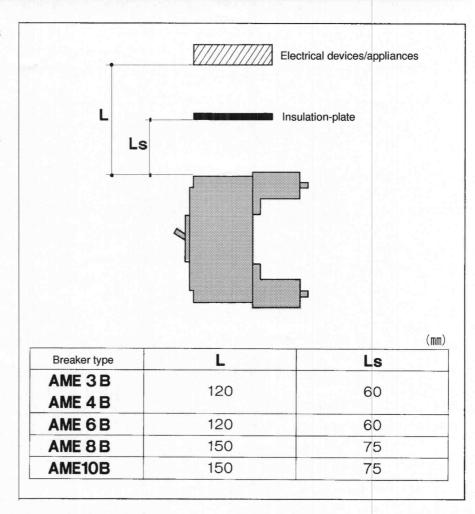
2c

3c-1a

INSULATING DISTANCE FROM LINE-END / INTERNAL RESISTANCE AND POWER CONSUMPTION

INSULATING DISTANCE FROM LINE-END

When the breaker trips due to a short-circuit current, an arc is formed in the arc chute. If other electrical devices or appliances are to be placed above the arc chute, open distance L must be maintained between the device and the breaker. If it is necessary to place the electrical devices closer than distance L, place a heat/fire resistant insulation-plate at distance Ls to shield the devices.



INTERNAL RESISTANCE AND POWER CONSUMPTION

Breaker type	Rated current In (A)	Internal resista Value pe	• •	Power consumption (W) • Value per pole	
		Rear-connected	Plug-in	Rear-connected	Plug-in
	16 ≦ In ≦ 31.5	0.25	0.3	0.25	0.29
	31.5 < In ≦ 65	0.15	0.2	0.6	0.79
AME3B	63 < In ≦ 125	0.15	0.2	2.34	3.13
AMEOD	125 < In ≦ 250	0.15	0.2	9.38	12.5
AME4B	200 ≦ In ≦ 400	0.15	0.2	24.0	32.0
AME6B	315 ≦ In ≦ 630	0.08	0.12	31.8	47.6
AME8B	500 ≦ In ≦ 800	0.045	0.053	28.8	33.9
AME10B	630 ≦ In ≦ 1000	0.045	0.053	45.0	53.0

Power consumption is calculated using the DC internal resistance and the maximum rated current.

FIELD-TESTING THE OVERCURRENT TRIPPING DEVICE

FIELD-TESTING THE LONG TIME-DELAY TRIP CHARACTERISTIC

The long time-delay characteristic of the overcurrent tripping device can be tested by sending test current to the OCR test terminal from a separate power source. Testing can be done in each phase.

Prepare the following test equipment

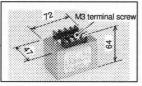
■ Voltage regulator

Be sure it produces a clean sine-wave current.

■ ANS1S type OCR adapter (optional) (CT5A/50mA primary/secondary)

CAUTION

Do not disconnect the secondary terminal while the power is on.



High voltage will be produced.

- AC ammeter 0-100mA
- Power supply switch
 Stopwatch
- Resistor: several ohms (ex.: 8 \Omega 150W)

Rated current and CT ratio

Туре	Generator rated current [In] (A)	CT ratio
AME3B	16 < In ≦ 31.5	31.5/0.05
	31.5 < In ≦ 65	63 /0.05
	63 < In ≦ 125	125 /0.05
	125 < In ≦ 250	250 /0.05
AME4B	200 ≦ In ≦ 400	400 /0.05
AME6B	315 ≦ In ≦ 630	630 /0.05
AME8B	500 ≦ In ≦ 800	800 /0.05
AME10B	630 ≦ In ≦ 1000	1000/0.05

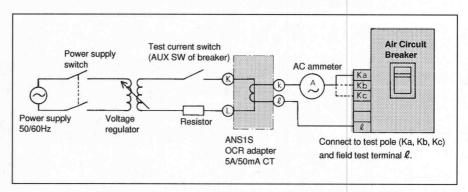
Test Procedure

- Isolate the breaker from the system. (For undervoltage trip device, apply the rated voltage.)
- 2 Calculate the test current value.
 - Example calculation

For generator rated current [In] = 481 (A), CT ratio 630/0.05, long time-delay pick-up current [I₁] = 115%x[In], and tripping at 20 seconds with an applied current of 120%xI, calculate the test current as follows.

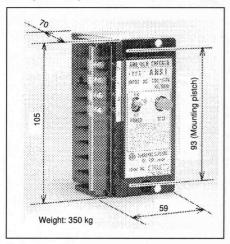
Test current value $[I_T] = 481(A)x0.05(A)/630(A)x1.15x1.2 = 0.0526(A)$

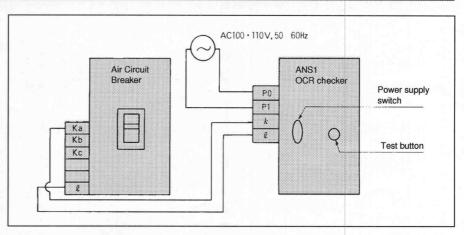
- Remove the OCR test terminal cover and connect an AC ammeter and an OCR adapter between Ka and ℓ for phase A, Kb and ℓ for phase B, or Kc and ℓ for phase C. See the figure below.
- Close the breaker (ON), turn up the output of the voltage regulator, and quickly apply the calculated test current, I_T . Measure the time required for the breaker to trip. For the above example, it should be within 20 ± 3 seconds.
- After tripping, turn the output of the voltage regulator to zero and cut off the power. (As shown in the figure, use the auxiliary switch of the breaker to make sure the current is cut off after the test.) Test all phases in the same manner.
- 1 Disconnect the test leads, retighten the terminal screws, and replace the OCR test cover.



OCR CHECKER ANS1 (NK standard requires at least one checker per vessel.)

NK standard requires at least one checker per vessel. The OCR Checker is a device for checking the instantaneous trip mechanism of the overcurrent tripping device. Checking is simple with a power supply of AC100 -110V, 50/60Hz, and 3VA or more.





CAUTION: DO NOT USE THE OCR CHECKER WHILE CURRENT IS BEING APPLIED TO THE BREAKER

- Open the breaker (OFF) and connect ANS1 to the breaker test terminals as shown in the figure above.
- 2 Connect the power supply to the terminals P0 and P1 and closed the breaker (ON).
- ❸ Turn on the ANS1 power supply switch, wait at least three seconds, and then press the test button. The breaker will trip momentarily.

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ORDER SHEET

Company Name:			Order Number:					
Quantity · Required Deliver	y Date	Quantity	Mo	onth	Day	Year		
Specification Items								
● Type	□ АМЕЗВ	☐ AME4B	☐ AME6B	☐ AME8B	☐ AME10B			
Number of poles	3-pole							
Main circuit voltage/frequency	AC	v	_ Hz					
Applied standard	Applied sta	ındard			4 1 5 5			
Ambient temperature	□ 40°C		□ 45°C					
Mounting type	☐ Rear-co	nnected	☐ Plug-in					
© Type of operation	(1) Manual (2) Motor of		Direct manual of External manual sted operating vo	operation (AFB	External manualV Hz,	operation handle)		
Overcurrent tripping device	(1) 🗆 LTD	, STD, INST tripp	ing 🗆 L'	TD, STD tripping				
	(2) Rated generator current [In] A							
	(3) LTD trip pick-up current [I1] A ([In] x %) s at I,x120%							
	(4) STD trip pick-up current [I2] $_$ A ([In] x $_$ %) 120ms for current \ge I ₂							
	(5) INST tr	p pick-up current	[I3] A ([In] x	%)				
Accessories	(2) ☐ Und (3) Auxiliar (4) Alarm s	nt trip device (AC ervoltage trip devi y switch (standard switch	ice (AC V) d) lequired	ot required	ns (1) and (2) can	not be used together.		
	(6) Termin	al cover	equired (only av	ailable for AME3	8B, 4B, 6B)	☐ Not require		
Spare parts		d (one set accord			□ Not require			
Others		hecker (ANS1) dapter (ANS1S)			d requires at least condary current te	one cheker per vessel) st)		
Sales agent								

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