

Ratings and Specifications

Moulded Case Circuit Breakers

11 Single phase 3-wire circuit breaker with neutral phase open protection and earth leakage alarm (Harmonics/surge with countermeasure)

Marcher of poles Elements Spee 3 PSE 5 Spee 6	Frame size (A)		100	105	100	105	205	250	225	250
Number of poles / Elements				125		125		250		250
Table Tabl		-1		2025 40		2025 40		2025 🔞		2D2E 40
Rating Rating Ratio current A		tements								
Part			1Ø3VV							
Calibrated at 40°C 20			15 50	105	15 50	105	105 005	050	105 005	050
Rated operational voltage AC V 100200 1002	,			125		125		250		250
Rated circulation withstand voltage (V _{mm}) kV 50 100/200 10	Calibrated at 40°C									
Rated operational voltage AC V 100/200 100										
Rated functions of withburstern divoltage (Myn.) N/2 15 15 135			40 100		40 100		200		200	
Rated functions of withburstern divoltage (Myn.) N/2 15 15 135					100,000			100,000		100/000
Series Septem neutral Related operating reversible AV 120 12		-								
Part										
Part										
Related broaking capacity, NA AC 100/2007 S 50 50 50 50 50 50 50										
		riated overvoitage operating time	e (sec) 1 or less	1 or less	1 or less	1 or less	1 or less	1 or less	1 or less	1 or less
Sectional dimensions, mm										
Bear			0/200V 35	35	50	50	35	35	85	85
Books 130 130 130 130 130 130 130 165 16	■External dimensi	ions, mm								
Book	-a-	d d								
Workshift (@ marked standard type) kg 1.15 1.										
Max. operating time sec]								
Earth leakage altern specifications Earth leakage detection (Current operation type) Earth leakage sharm specification Amax operating time sec 50100500 sixtsh 50100500 si		<u> </u>								
Electronic Ele		71 / 0	1.15	1.15	1.15	1.15	1.8	1.8	1.8	1.8
Rated sensitivity current mA										
Max. operating time sec	Earth leakage dete	ection (Current operation type)) Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Max. operating time sec 10.45f1 blastels 10.4	Rated sensitivity or	urrent mA	30/100/500 selectable							
Cart leakage alarm output contact configuration 3 1c 1c 1c 1c 1c 1c 1c			100/200/500 selectable							
Alarm reset function (manual reset) 3	Max. operating tim	e sec	0.1/0.45/1.0 selectable							
Earth leakage indication LED (Red) LED	Earth leakage alarm output contact configuration 30		n 30 1c	1c	1c	1c	1c	1c	1c	1c
Connections and Mountings	Alarm reset function (manual reset) 39		Push button ®							
Front-connected (FC) Terminal screws	Earth leakage indication		LED (Red)							
With extension bars	■Connections and	d Mountings								
Rear-connected (RC) Flat bar studs	Front-connected (F	C) Terminal screws		•	• 4	•	•	•	•	•
Accessories (optional) Symbol		With extension bars	○ 53	O 53						
Multiple	Rear-connected (Re	C) Flat bar studs	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
Alarm switch	■Accessories (opt	tional) S	ymbol							
Shunt trips	Auxiliary switch		A X		•		•	•		•
V V V V V V V V V V	Alarm switch		A L	•	•		•	•		•
Test lead	Shunt trips		S H —	_	_	_	_	_	_	_
Medger test switch MG MC	Undervoltage tri	ps	U V —	_	_	_	_	_	_	_
Motor operator	Test lead		TL —	_	_	_	_	_	_	_
External operating Breaker-mounted H B Mandle Door-mounted (variable depth) H P Mandle Door-mounted (variable depth) H P Mandle Door-mounted (variable depth) H P Mandle Mechanical Side type MS MS MS MS MS MS MS M	Megger test swi	itch	MG	•	•	•	•	•	•	•
Name	Motor operator		мс —	_	_	_	•	•	•	•
Toggle extension	External operating	Breaker-mounted	H B ●	•	•	•	•	•	•	•
Mechanical Slide type	handle	Door-mounted (variable depth)	HP •	•	•	•	•	•	•	•
Mechanical Slide type	Toggle extensio	n	HA —	_			_			_
Figure MW	0		MS —							
Toggle holder	를 interlock	Link type	ML —							
Toggle lock	<u>></u>	Wire type	MW —							
Toggle lock	Toggle holder		нн •	•	•	•	•	•	•	•
Terminal cover For front-connected C F For rear-connected C R For rear-connected C	Toggle lock		HL •	•	•	•	•	•	•	•
For rear-connected	.0	For front-connected	CF •	•	•	•	•	•	•	•
Terminal block for lead		For rear-connected	C R •	•	•	•	•	•	•	•
Door flange	Terminal block f		TF •	•	•	•	•	•	•	•
CE marking Non Non <th< td=""><td>Door flange</td><td></td><td>DF —</td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td></th<>	Door flange		DF —			_				
Overcurrent trip mechanism Thermal-magnetic Thermal-m	CE marking		Non							
Colour of cover Grey Blue		echanism								Thermal-magnetic
Trip button (Colour) Yes (Red)			<u> </u>							
Suitability for isolation Yes Yes <td></td> <td>)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>)								
Reverse power flow circuit Yes ® Y		,								
Page of characteristics and outline dimensions 7-148 7-148 7-148 7-148 7-150 7-150 7-150 7-150										
<u> </u>										
AFTIENE.	Notes:									

Notes:

- : Standard. This configuration used unless otherwise specified. : Optional standard. Specify when ordering.
- : "yes" or "available". : "no" or "not available". △ : Custom-built product. Please contact us for details.
- ④: 50A or less is the M5 wire clamping terminal.
- 8 : Optional remote reset or automatic reset available on request. Please apply this when the reset button cannot be pressed due to the installation of external accessories, etc. See page 6-27 for details.
- $\mathop{\hbox{$\Large \odot$}}\nolimits$: They can also be applied to circuits where overcurrent flows in the neutral wire.
- 39 : See page 6-22 for the contact rating.
- 3 : An earth leakage alarm maintains the operating state until pressing the reset button or turning the main circuit power OFF. If the electric leakage continues, it will be reset while you hold down the reset button, but when you release the reset button, it will return to the operating state.
- $\ensuremath{\mathfrak{G}}$: For the extension bars, please place the order separately in parts.
- 🐵 : Since the overvoltage and earth leakage detection circuit has a continuous rating specification, there is no need to turn off the power of the detection circuit using a megger test switch, etc.

Remarks: See pages 3-25 and 3-26 for connection details.



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Frame size (A)						 		
Number of poles / Elements	Frame size (A)	400	400					
Plasted current A	Туре	NAE400-NF	NAS400-NF					
Related current), A	Number of poles / Elements		3P2E 18			 		
Rated operational voltage AC V	Phase and wires	1ø3W	1ø3W			 		
Section Committee Commit	Ratings							
Signate Signature Signa	Rated current, A	250	250					
Read operational voltage AC V 100/200 1	Calibrated at 40°C	300	300					
Rated operational voltage AC V 100/200 1		350	350					
Rated persisting values with start of values (Part 155		400	400					
Rated persisting values with start of values (Part 155								
Signify 3-1/3-see netural Reside operating enrollage AC V 135 13	Rated operational voltage AC V	100/200	100/200					
Signify 3-1/3-see netural Reside operating enrollage AC V 135 13	Rated impulse withstand voltage (U_{imp}) kV	8	8			 		
		135	135					
		120	120					
Section According to According	protection characteristics Rated overvoltage operating time (sec)	1 or less	1 or less		·	 		
External dimensions, mm	■Rated breaking capacity, kA							
External dimensions, mm	JIS C 8201-2-1 Ann.2 I _{CU} (sym) AC 100/200V	35	85			 		
Weight (
Weight (⊢a⊢ ⊢.d⊢ a	170	170			 		
Weight (b	260	260					
Weight (103	103			 		
Mean								
Earth leakage alarm specifications Earth leakage detection (Current operation type) Selectronic Selectron						 		
Earth leakage detection (Current operation type)						 		
Max. operating time sec 0.10.4510.siects 100.20050 settles		Electronic	Electronic			 		-
Max. Operating time sec								
Max. Operating time sec	,				-	 		-
Earth leakage alarm output contact configuration ③	Max. operating time sec					 		
Earth leakage indication						 		
ED (Red) ED (Red) ED (Red)						 		
Connections and Mountings						 		
Front-connected (FC) Terminal screws		223 (1.00)	223 (1104)			 		
With extension bars	<u>-</u>	•	•			 		
Rear-connected (RC) Flat bar studs		0	0			 		
Accessories (optional) Symbol						 		
Auxiliary switch						 		
Alarm switch								
Motor operator	<u> </u>		•					
Toggle holder H H Toggle holder		_	_					
Test lead T L Megger test switch Mog Motor operator Edward operating Breaker-mounted H B handle Door-mounted (variable depth) H P Toggle extension H A Mechanical Slide type Ms Mechanical Slide type Ms Mechanical Slide type Ms Toggle holder Toggle lock H H Toggle lock H H Terminal cover For front-connected For rear-connected C F For rear-connected C R Terminal block for lead T F Door flange D F CE marking Non Overcurrent trip mechanism Themal-magnetic Colour of cover Grey Blue Grey Blue Grey Blue Fores (Red) Yes (Red) Yes (Red) Page of characteristics and outline dimensions 7-152 7-152								
Motor operator MC External operating Breaker-mounted HB handle Door-mounted (variable depth) HP Toggle extension HA Mchanical Slide type MS interlock Link type ML Wire type MW Toggle lock H H Terminal cover For front-connected C F For rear-connected C R Terminal block for lead T F Door flange D F CE marking Overcurrent trip mechanism Colour of cover Trip button (Colour) Suitability for isolation Reverse power flow circuit Yes (Red) Feor sea Grey Blue Feor Sea Grey S	ë —							
Motor operator	7		•					
External operating Breaker-mounted H B		•	•					
Name		•	•			 		
Toggle extension		•	•			 		
Mechanical Slide type	Taggle sytension	•	•			 		
Wire type MW -	Mechanical Slide type M.S.	=				 		
Wire type MW -	interlock Link type M.L.					 		
Toggle holder						 		
For rear-connected C R Terminal block for lead T F Door flange D F CE marking Non Non Overcurrent trip mechanism Thermal-magnetic Colour of cover Grey Blue Grey Blue Trip button (Colour) Yes (Red) Yes (Red) Suitability for isolation Yes Yes S Reverse power flow circuit Yes S Page of characteristics and outline dimensions 7-152 7-152	Toggle holder H.H.					 -		-
For rear-connected C R Terminal block for lead T F Door flange D F CE marking Non Non Overcurrent trip mechanism Thermal-magnetic Colour of cover Grey Blue Grey Blue Trip button (Colour) Yes (Red) Yes (Red) Suitability for isolation Yes Yes S Reverse power flow circuit Yes S Page of characteristics and outline dimensions 7-152 7-152	Toggle lock H L	•	•			 		
For rear-connected	Terminal cover For front-connected C F	•	•					
Terminal block for lead T F ● ● Door flange D F — — CE marking Non Non Non Overcurrent trip mechanism Thermal-magnetic Termal-magnetic (adjustable) Colour of cover Grey Blue Grey Blue Trip button (Colour) Yes (Red) Yes (Red) Suitability for isolation Yes Yes Reverse power flow circuit Yes (%) Yes (%) Page of characteristics and outline dimensions 7-152 7-152		•	•	-	-	 -	-	-
Door flange			•			 		-
CE marking Non Non Overcurrent trip mechanism Thermal-magnetic Colour of cover Grey Blue Grey Blue Trip button (Colour) Yes (Red) Yes (Red) Suitability for isolation Yes Yes Reverse power flow circuit Yes ® Yes ® Page of characteristics and outline dimensions 7-152 7-152						 		
Overcurrent trip mechanism Thermal-magnetic (adjustable) Colour of cover Grey Blue Grey Blue Trip button (Colour) Yes (Red) Yes (Red) Suitability for isolation Yes Yes Reverse power flow circuit Yes ® Yes ® Page of characteristics and outline dimensions 7-152 7-152		Non	Non			 -		
Colour of cover Grey Blue Grey Blue Trip button (Colour) Yes (Red) Yes (Red) Suitability for isolation Yes Yes Reverse power flow circuit Yes (Bed) Yes (Bed) Page of characteristics and outline dimensions 7-152 7-152						 		
Trip button (Colour) Yes (Red) Yes (Red) Suitability for isolation Yes Yes Yes Reverse power flow circuit Yes \$\overline{\mathcal{B}}\$ Yes \$\overline{\mathcal{B}}\$ Page of characteristics and outline dimensions 7-152 7-152						 		
Suitability for isolation Yes Yes Reverse power flow circuit Yes ® Yes ® Page of characteristics and outline dimensions 7-152 7-152						 		
Reverse power flow circuit Yes Yes Yes Yes 7-152 Yes 7-152						 		
Page of characteristics and outline dimensions 7-152 7-152						 		

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- ® : Optional remote reset or automatic reset available on request. Please apply this when the reset button cannot be pressed due to the installation of external accessories, etc. See page 6-27 for details.
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- ③ : An earth leakage alarm maintains the operating state until pressing the reset button or turning the main circuit power OFF. If the electric leakage continues, it will be reset while you hold down the reset button, but when you release the reset button, it will return to the operating state.
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