

Overview



Size I



Size II



Size III

Air circuit breakers

3WL air circuit breakers/non-automatic air circuit breakers up to 6300 A (AC)

Size	I, II, III		
Rated current I_n	A	630, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6300	
Number of poles		3-pole, 4-pole	
Rated operational voltage U_e	V AC V DC	Up to 690/1000 --	
Rated ultimate short-circuit breaking capacity at 500 V AC	kA	Size I 55/66	Size II 66/80/100
Endurance	Operating cycles	20000	15000
Mounting position			

3WL non-automatic air circuit breakers up to 4000 A (DC)

Size	II
Rated current I_n	1000, 2000, 4000
Number of poles	3-pole, 4-pole
Rated operational voltage U_e	-- Up to 1000
Rated ultimate short-circuit breaking capacity at 500 V AC	30/25/20 (at 300/600/1000 V DC)
Endurance	15000
Mounting position	

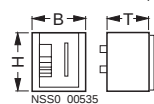
Degree of protection

With cover	IP55
Without cover (with door sealing frame)	IP41

With cover	IP55
Without cover (with door sealing frame)	IP41

Dimensions 3-/4-pole

	W mm	320/410	460/590	704/914	460/590
Fixed mounting	H mm	434	434	434	434
	D mm	291	291	291	291
Withdrawable	H mm	465.5	465.5	465.5	465.5
	D mm	471	471	471	471



Type	ETU15B	ETU25B	ETU27B	ETU45B	ETU55B	ETU76B
Overload protection	✓	✓	✓	✓	✓	✓
Short-time delayed short-circuit protection	--	✓	✓	✓	✓	✓
Instantaneous short-circuit protection	✓	✓	✓	✓	✓	✓
Neutral conductor protection	--	--	✓	✓	✓	✓
Ground-fault protection	--	--	✓	□	□	□
Zone Selective Interlocking	--	--	--	□	□	□
LCD, 4-line	--	--	--	□	--	--
LCD, graphic	--	--	--	--	--	✓
Communication through PROFIBUS DP	--	--	--	□	□	□
Measurement function <i>Plus</i>	--	--	--	□	□	□
Selectable parameter sets	--	--	--	--	✓	✓
Parameters freely programmable	--	--	--	--	✓	✓
CubicleBUS	--	--	--	✓	✓	✓

Electronic trip units for SENTRON 3WL circuit breakers

Overload protection	✓	✓	✓	✓	✓	✓
Short-time delayed short-circuit protection	--	✓	✓	✓	✓	✓
Instantaneous short-circuit protection	✓	✓	✓	✓	✓	✓
Neutral conductor protection	--	--	✓	✓	✓	✓
Ground-fault protection	--	--	✓	□	□	□
Zone Selective Interlocking	--	--	--	□	□	□
LCD, 4-line	--	--	--	□	--	--
LCD, graphic	--	--	--	--	--	✓
Communication through PROFIBUS DP	--	--	--	□	□	□
Measurement function <i>Plus</i>	--	--	--	□	□	□
Selectable parameter sets	--	--	--	--	✓	✓
Parameters freely programmable	--	--	--	--	✓	✓
CubicleBUS	--	--	--	✓	✓	✓

- ✓ Standard
- Not available
- Optional

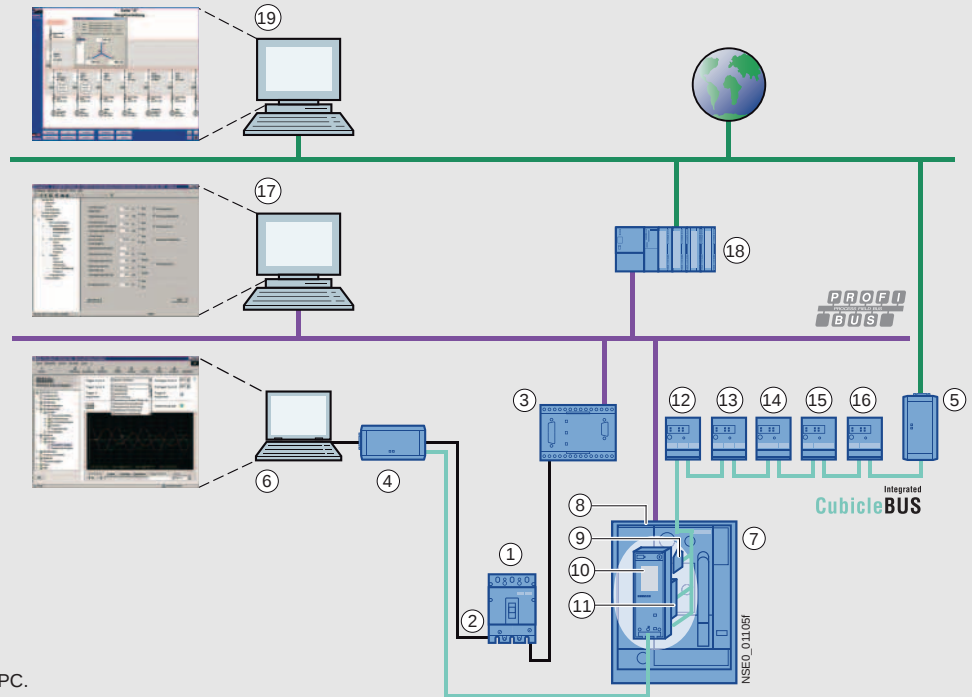
- ECO switching capacity N
- Standard switching capacity S
- High switching capacity H
- Very high switching capacity C
- DC switching capacity

3WL air circuit breakers/non-automatic air circuit breakers according to UL 489 up to 5000 A, see Catalog LV 16.

Communication-capable circuit breakers

- ① SENTRON 3VL
- ② LCD ETU release
- ③ COM10 PROFIBUS module including ZSI
- ④ Breaker Data Adapter (BDA)
- ⑤ BDA Plus with Ethernet interface
- ⑥ Browser-capable input and output device (e.g. notebook)
- ⑦ SENTRON 3WL
- ⑧ COM15 PROFIBUS module or COM16 MODBUS module
- ⑨ Breaker Status Sensor (BSS)
- ⑩ Electronic release ETU
- ⑪ Metering function Plus
- ⑫ ZSI module
- ⑬ Digital output module as relay
- ⑭ Digital output module as relay, configurable
- ⑮ Analog output module
- ⑯ Digital input module
- ⑰ Switch ES Power on PC¹⁾
- ⑱ PLC e.g. SIMATIC S7
- ⑲ SIMATIC powercontrol

1) For MODBUS Win PM, Net on PC.

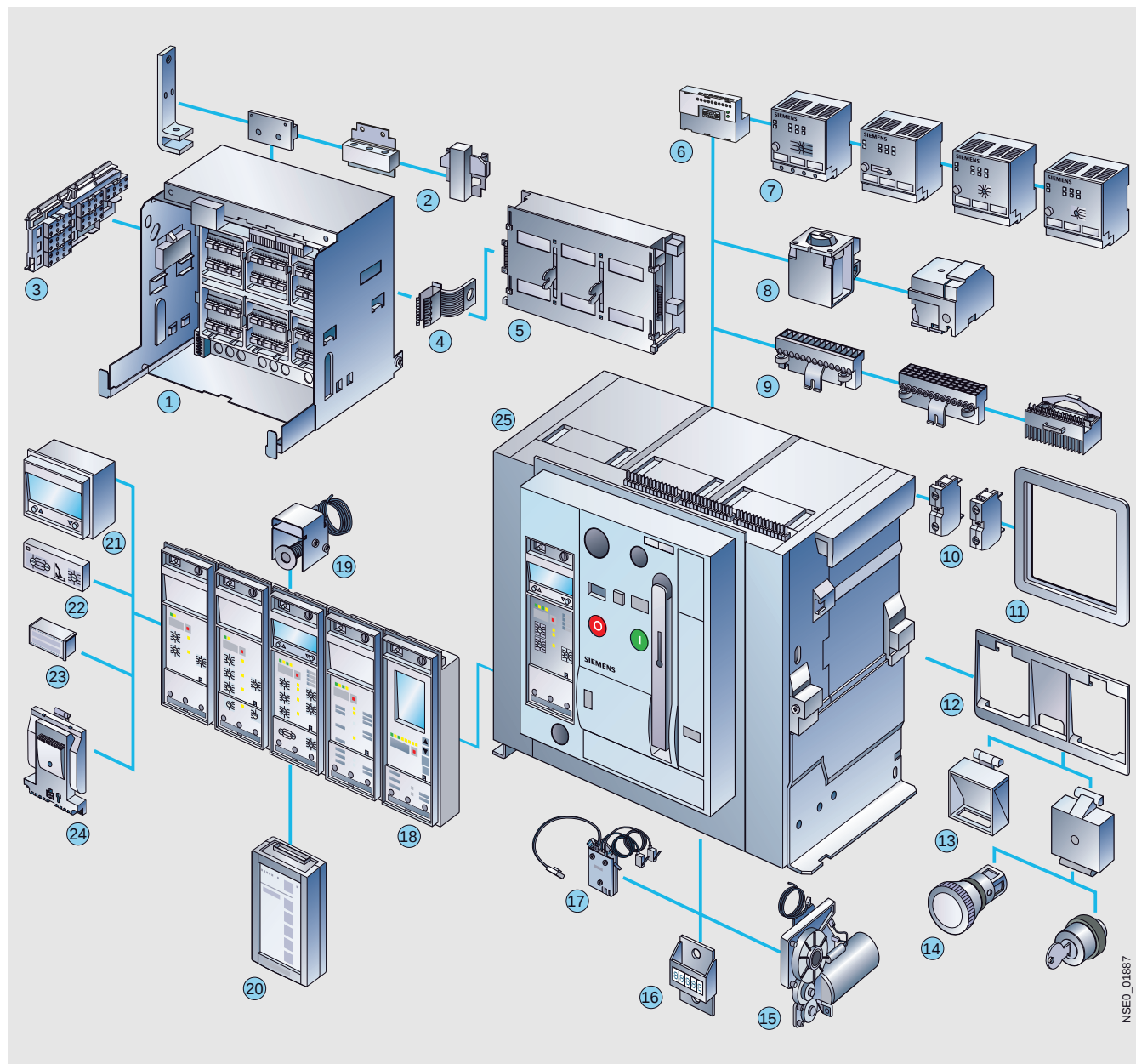


Features

- Coordinated communication concept using the PROFIBUS DP or MODBUS, ranging from 16 A to 6300 A with SENTRON 3VL and SENTRON 3WL
- The high level of modularity of circuit breakers and accessories allows easy retrofitting of all communication components
- Significant additional benefits for the switchboard due to the possibility of linking up external input and output modules to the circuit breaker-internal **CubicleBUS** of the SENTRON 3WL
- Innovative software products for parameterization, operation, monitoring, and diagnostics of SENTRON circuit breakers, both locally or via PROFIBUS DP, MODBUS or Ethernet/Intranet/Internet
- Complete integration of the SENTRON circuit breakers into the Totally Integrated Power and Totally Integrated Automation solutions

SENTRON 3WL:

Superior individual products integrated into uniform power distribution systems - up to and including industry-specific industrial and infrastructure solutions



NS00_01887

- ① Guide frames (pages 15/29 and 15/30)
- ② Main circuit connection front, flange, horizontal, vertical (pages 15/42 and 15/43)
- ③ Position indicator switches (pages 15/25 and 15/35)
- ④ Grounding contact, leading (page 15/39)
- ⑤ Shutters (page 15/38)
- ⑥ COM15 PROFIBUS modules or COM16 MODBUS modules (page 15/41)
- ⑦ External **CubicleBUS** modules (page 15/40)
- ⑧ Closing solenoids, auxiliary trip units (page 15/37)
- ⑨ Auxiliary conductor plug-in systems (page 15/36)
- ⑩ Auxiliary switch blocks (page 15/37)
- ⑪ Door sealing frames (page 15/38)
- ⑫ Interlocking sets for base plate (page 15/33)
- ⑬ Transparent panels, function insert (page 15/32)
- ⑭ EMERGENCY-STOP pushbuttons, key operated (page 15/35)
- ⑮ Motorized operating mechanisms (page 15/37)
- ⑯ Operating cycles counters (page 15/35)
- ⑰ Breaker status sensors (BSS) (page 15/41)
- ⑱ Protective devices with device holder, electronic trip units (ETU) (page 15/31)
- ⑲ Remote reset solenoids (page 15/32)
- ⑳ Breaker data adapters (BDA) (page 15/40)
- ㉑ Four-line displays (page 15/31)
- ㉒ Ground-fault protection modules (page 15/31)
- ㉓ Rated current modules (page 15/31)
- ㉔ Measuring function modules (page 15/31)
- ㉕ Circuit breakers (pages 15/6 to 15/21)