

CIRCUIT BREAKER 3VT1 STANDARD BREAKING CAPACITY
ICU=25KA, 415V AC 3-POLE; STARTER COMBINATION
OVERCURRENT RELEASE TM, LIN IN= 100A RATED CURRENT
II= 500...1000A, SHORT-CIRCUIT PROTECTION WITHOUT
AUXILIARY RELEASE WITHOUT AUXILIARY/ALARM SWITCH



Figure similar

Model	
product brandname	SENTRON
Product designation	3VT1_5 molded case circuit breakers
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	M
General technical data	
Number of poles	3
Size of the circuit-breaker	3VT1
Electrical endurance (switching cycles) / typical	6 000
Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	20 000
Operating frequency / maximum	120 1/h
Voltage	
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	8 kV

Protection class	
Protection class IP	IP40
Protective function of the overcurrent release	I
Dissipation	
Power loss [W]	
for rated value of the current / at AC / in hot operating state / per pole	3.33 W
maximum	10 W
Electricity	
Continuous current / rated value	100 A
Derating temperature / for the rated value of the continuous current	40 °C
Adjustable pick-up value current	
of instantaneous short-circuit trip unit / initial value	500 A
of instantaneous short-circuit trip unit / Full-scale value	1 000 A
Main circuit	
Operating frequency	
1 / rated value	50 Hz
2 / rated value	60 Hz
Operating voltage	
rated value / maximum	690 V
for main current circuit / at AC / at 50 Hz / maximum	690 V
for main current circuit / at AC / at 60 Hz / maximum	690 V
for main current circuit / at DC / maximum	250 V
Operating current	
at 40 °C / rated value	100 A
at 50 °C / rated value	91 A
Suitability	
Suitability for use	starter combinations
Disconnecting means	Yes
Product details	
Product component	
Trip indicator	No
Auxiliary switch	No
Voltage trigger	No
undervoltage release	No
undervoltage release with leading contact	No

Product extension / optional / motor drive	Yes
Product function	
Product function	
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Phase failure detection	No
• Overload protection	No
Short circuit	
Operational short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	20 kA
• at 415 V / rated value	13 kA
• at 500 V / rated value	6 kA
• at 690 V / rated value	3 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	40 kA
• at 415 V / rated value	25 kA
• at 500 V / rated value	12 kA
• at 690 V / rated value	6 kA
Connections	
Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	box terminals
Mechanical Design	
Height	130 mm
Width	75 mm
Depth	80 mm
Mounting position	with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
Mounting type	fixed mounting
Net weight	1.006 kg
Environmental conditions	
Ambient temperature	
• during operation / minimum	-40 °C
• during operation / maximum	55 °C
• during storage / minimum	-40 °C
• during storage / maximum	55 °C
Certificates	
Equipment marking	

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