



## Moulded Case Circuit Breaker h3 x160 TM FIX 1P1D 32A 25kA CTC

## **Technical characteristics**

Arc	la : 4 a	-4-	

Number of protected poles         1 P           Functions         Trip Unit         TM F/F           Integrated earth fault protection         No           Concurrently switching N-neutral         No           Controls and indicators         No           Main electrical features         No           Rated operational voltage Ue         220 / 240 V           Type of supply voltage         AC           Frequency         50/60 Hz           Voltage         8 kV           Rated insulation voltage enelease         690 V           Rated current         32 A           Thermal protection nob setting xIN         1           Rating current 10°C according to IEC 60947         43.8 A           Rating current 20°C according to IEC 60947         42.5 A           Rating current 30°C according to IEC 60947         39.8 A           Rating current 35°C according to IEC 60947         39.8 A           Rating current 35°C according to IEC 60947         36.9 A           Rating current 35°C according to IEC 60947         35.3 A           Rating current 50°C according to IEC 60947         35.3 A           Rating current 50°C according to IEC 60947         35.3 A           Rating current 50°C according to IEC 60947         35.3 A           Rating cur	Neutral position	without neutral
Functions Trip Unit TM F/F Integrated earth fault protection No Concurrently switching N-neutral No Controls and indicators Motor drive integrated No Main electrical features Rated operational voltage Ue 220 / 240 V Type of supply voltage AC Frequency S0/60 Hz Voltage Rated insulation voltage Matter insulation voltage No Rated current Rated current Rated current 32 A Thermal protection nob setting xlN 1 Rating current 10°C according to IEC 60947 43.8 A Rating current 25°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 39.8 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 65°C according to IEC 60947 35.3 A	<u> </u>	
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Trip Unit TM F/F Integrated earth fault protection No Concurrently switching N-neutral No Controls and indicators  Motor drive integrated No Main electrical features Rated operational voltage Ue 220 / 240 V Type of supply voltage AC Frequency S0/60 Hz  Voltage Rated insulation voltage We 690 V Rated impulse withstand voltage No Rated impulse withstand voltage No Electric current Rated current 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 43.8 A Rating current 20°C according to IEC 60947 39.8 A Rating current 35°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 39.8 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.1 A Rating current 55°C according to IEC 60947 35.1 A Rating current 55°C according to IEC 60947 35.2 A Rating current 55°C according to IEC 60947 35.2 A Rating current 55°C according to IEC 60947 35.3 A	Number of poles	11
Integrated earth fault protection No Concurrently switching N-neutral No Concurrently switching N-neutral No Controls and indicators  Motor drive integrated No Main electrical features  Rated operational voltage Ue 220 / 240 V Type of supply voltage AC Frequency 50/60 Hz  Voltage  Rated insulation voltage 88 kV With under voltage release No Electric current  Rated current 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 43.8 A Rating current 20°C according to IEC 60947 41.2 A Rating current 30°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 36.9 A Rating current 40°C according to IEC 60947 36.9 A Rating current 55°C according to IEC 60947 33.7 A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 33. A Rating current 55°C according to IEC 60947 33. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating current 60°C according to IEC 60947 32. A Rating	Functions	
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Motor drive integrated No  Main electrical features  Rated operational voltage Ue 220 / 240 V Type of supply voltage AC  Frequency 50/60 Hz  Voltage  Rated insulation voltage 690 V Rated insulation voltage 8 kV With under voltage release No  Electric current  Rated current 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 42.5 A Rating current 20°C according to IEC 60947 43.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 36.9 A Rating current 40°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 35.4 A Rating current 55°C according to IEC 60947 35.4 A Rating current 55°C according to IEC 60947 35.4 A Rating current 55°C according to IEC 60947 35.4 A	Integrated earth fault protection	No
Motor drive integrated No  Main electrical features  Rated operational voltage Ue 220 / 240 V Type of supply voltage AC  Frequency 50/60 Hz  Voltage  Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No  Electric current  Rated current 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 43.8 A Rating current 20°C according to IEC 60947 41.2 A Rating current 20°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.4 A Rating current 50°C according to IEC 60947 35.4 A Rating current 50°C according to IEC 60947 35.4 A Rating current 50°C according to IEC 60947 35.4 A Rating current 50°C according to IEC 60947 35.4 A Rating current 50°C according to IEC 60947 35.4 A Rating current 50°C according to IEC 60947 35.4 A	Concurrently switching N-neutral	No
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Rated operational voltage Ue  Type of supply voltage  AC Frequency  Solfon Hz  Voltage  Rated insulation voltage  Rated impulse withstand voltage  8 kV With under voltage release  No  Electric current  Rated current  32 A Thermal protection nob setting xIN  1 Rating current 10°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 50°C according to IEC 60947	Motor drive integrated	No
Type of supply voltage  Frequency  Sol/60 Hz  Voltage  Rated insulation voltage  Rated impulse withstand voltage  8 kV  With under voltage release  No  Electric current  Rated current  Rated current  132 A  Thermal protection nob setting xIN  Rating current 10°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 50°C according to IEC 60947	Main electrical features	
Frequency 50/60 Hz  Voltage  Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No  Electric current  Rated current 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 43.8 A Rating current 20°C according to IEC 60947 42.5 A Rating current 20°C according to IEC 60947 41.2 A Rating current 20°C according to IEC 60947 38.8 A Rating current 25°C according to IEC 60947 38.8 A Rating current 35°C according to IEC 60947 39.8 A Rating current 40°C according to IEC 60947 38.4 A Rating current 40°C according to IEC 60947 36.9 A Rating current 40°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 32.4 Rating current 50°C according to IEC 60947 32.4 Rating current 50°C according to IEC 60947 32.4 Rating current 55°C according to IEC 60947 30.1 A Rating current 60°C according to IEC 60947 30.1 A Rating current 60°C according to IEC 60947 30.1 A Rating current 60°C according to IEC 60947 30.1 A Rating current 60°C according to IEC 60947 30.1 A Rating current 60°C according to IEC 60947 30.1 A	Rated operational voltage Ue	220 / 240 V
Voltage Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No  Electric current Rated current 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 43.8 A Rating current 20°C according to IEC 60947 42.5 A Rating current 20°C according to IEC 60947 41.2 A Rating current 25°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 36.9 A Rating current 40°C according to IEC 60947 35.3 A Rating current 45°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 35.3 A Rating current 50°C according to IEC 60947 32.4 Rating current 55°C according to IEC 60947 30.1 A Rating current 60°C according to IEC 60947 28.2 A Rating current 60°C according to IEC 60947 28.2 A Rating current 60°C according to IEC 60947 28.2 A Rating current 65°C according to IEC 60947 28.2 A	Type of supply voltage	AC
Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No  Electric current Rated current 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 43.8 A Rating current 15°C according to IEC 60947 42.5 A Rating current 20°C according to IEC 60947 41.2 A Rating current 25°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 39.8 A Rating current 35°C according to IEC 60947 39.8 A Rating current 35°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 40°C according to IEC 60947 35.3 A Rating current 55°C according to IEC 60947 33.7 A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 30.1 A Rating current 60°C according to IEC 60947 28.2 A Rating current 60°C according to IEC 60947 28.2 A Rating current 65°C according to IEC 60947 28.2 A Rating current 65°C according to IEC 60947 28.2 A	Frequency	50/60 Hz
Rated impulse withstand voltage  Rated impulse withstand voltage  No  Electric current  Rated current  Rated current  Rating current 10°C according to IEC 60947  Rating current 15°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 25°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 45°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 65°C according to IEC 60947	Voltage	
With under voltage release  Rated current  Rated current  Rating current 10°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 25°C according to IEC 60947  Rating current 25°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 60°C according to IEC 60947	Rated insulation voltage	690 V
Electric current  Rated current  32 A  Thermal protection nob setting xIN  1  Rating current 10°C according to IEC 60947  43.8 A  Rating current 15°C according to IEC 60947  42.5 A  Rating current 20°C according to IEC 60947  41.2 A  Rating current 25°C according to IEC 60947  39.8 A  Rating current 30°C according to IEC 60947  38.4 A  Rating current 30°C according to IEC 60947  38.4 A  Rating current 35°C according to IEC 60947  36.9 A  Rating current 40°C according to IEC 60947  35.3 A  Rating current 40°C according to IEC 60947  32. A  Rating current 50°C according to IEC 60947  33.7 A  Rating current 50°C according to IEC 60947  32. A  Rating current 50°C according to IEC 60947  32. A  Rating current 60°C according to IEC 60947  28.2 A  Rating current 60°C according to IEC 60947	Rated impulse withstand voltage	8 kV
Rated current 32 A Thermal protection nob setting xIN  1 Rating current 10°C according to IEC 60947  43.8 A Rating current 15°C according to IEC 60947  42.5 A Rating current 20°C according to IEC 60947  41.2 A Rating current 25°C according to IEC 60947  82.8 A Rating current 30°C according to IEC 60947  83.4 A Rating current 30°C according to IEC 60947  83.4 A Rating current 35°C according to IEC 60947  84.0 A Rating current 30°C according to IEC 60947  84.1 A Rating current 30°C according to IEC 60947  85.3 A Rating current 40°C according to IEC 60947  86.9 A Rating current 50°C according to IEC 60947  87.0 A Rating current 50°C according to IEC 60947  88.1 A Rating current 50°C according to IEC 60947  88.2 A Rating current 60°C according to IEC 60947  88.3 A Rating current 60°C according to IEC 60947  88.4 A Rating current 60°C according to IEC 60947  88.4 A Rating current 60°C according to IEC 60947  88.4 A Rating current 60°C according to IEC 60947  88.4 A Rating current 60°C according to IEC 60947	With under voltage release	No
Thermal protection nob setting xIN  Rating current 10°C according to IEC 60947  43.8 A  Rating current 15°C according to IEC 60947  42.5 A  Rating current 20°C according to IEC 60947  41.2 A  Rating current 25°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 40°C according to IEC 60947  35.3 A  Rating current 45°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 65°C according to IEC 60947  Rating current 65°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 65°C according to IEC 60947  Rating current 65°C according to IEC 60947	Electric current	
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Rating current 15°C according to IEC 60947  Rating current 20°C according to IEC 60947  Rating current 25°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 45°C according to IEC 60947  Rating current 45°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 65°C according to IEC 60947	Thermal protection nob setting xIN	1
Rating current 20°C according to IEC 60947  Rating current 25°C according to IEC 60947  Rating current 30°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 45°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 65°C according to IEC 60947  28.2 A	Rating current 10°C according to IEC 60947	43.8 A
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Rating current 30°C according to IEC 60947  Rating current 35°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 45°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 60°C according to IEC 60947  28.2 A  Rating current 65°C according to IEC 60947	Rating current 20°C according to IEC 60947	41.2 A
Rating current 35°C according to IEC 60947  Rating current 40°C according to IEC 60947  Rating current 45°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 65°C according to IEC 60947  28.2 A	Rating current 25°C according to IEC 60947	39.8 A
Rating current 40°C according to IEC 60947  Rating current 45°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 65°C according to IEC 60947  28.2 A  Rating current 65°C according to IEC 60947	Rating current 30°C according to IEC 60947	38.4 A
Rating current 45°C according to IEC 60947  Rating current 50°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 60°C according to IEC 60947  Rating current 65°C according to IEC 60947  26.1 A	Rating current 35°C according to IEC 60947	36.9 A
Rating current 50°C according to IEC 60947 32 A  Rating current 55°C according to IEC 60947 30.1 A  Rating current 60°C according to IEC 60947 28.2 A  Rating current 65°C according to IEC 60947 26.1 A	Rating current 40°C according to IEC 60947	35.3 A
Rating current 55°C according to IEC 60947 30.1 A  Rating current 60°C according to IEC 60947 28.2 A  Rating current 65°C according to IEC 60947 26.1 A	Rating current 45°C according to IEC 60947	33.7 A
Rating current 60°C according to IEC 60947 28.2 A Rating current 65°C according to IEC 60947 26.1 A	Rating current 50°C according to IEC 60947	32 A
Rating current 65°C according to IEC 60947 26.1 A	Rating current 55°C according to IEC 60947	30.1 A
	Rating current 60°C according to IEC 60947	28.2 A
Rating current 70°C according to IEC 60947 23.9 A	Rating current 65°C according to IEC 60947	26.1 A
	Rating current 70°C according to IEC 60947	23.9 A

Breaking capacity on 1 pole for IT 230V NF 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	25 k <i>A</i>
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	25 k <i>l</i>
Range of the thermal adjustment	32 /
Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2	25 kA
Dimensions	
Depth of installed product	68 mn
Height of installed product	130 mn
Width of installed product	25 mn
Frequency	
Frequency	50 to 60 H
Power	
Total power loss under IN	3 V
Power loss per pole at In	3 V
Endurance	
Electric endurance in number of cycles	100
Number of mechanical operations	4000
Installation, mounting  Tightening torque	6Nn
Connection	
Connection cross-sect. rigid cable	6 / 95mm
Cable	
Cable Material	C
Settings	
Range of the magnetic adjustment	600 /
Equipment	
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally	
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-	
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact	
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact	
Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change- over contact  Can be accessorized	Ye
Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Can be accessorized  Use cases	Ye

Use conditions		
Degree of pollution according to IEC 60664 / IEC 60947-2	3	
Altitude	2000 m	
temperatur		
Temperature of calibration	50 °C	