



## HHA063U

## Moulded Case Circuit Breaker h3 x160 TM ADJ 3P3D 63A 25kA CTC

## **Technical properties**

Arc	hi	tec	ctu	re
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Number of protected poles         3 P           Type of pole         3 P3           Functions           Trip Unit         TM A/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 / 415 V           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         63 A           Thermal protection nob setting xIN         0.63 / 0.8 / 1           Rating current 10°C according to IEC 60947         7.7 A           Rating current 20°C according to IEC 60947         6.6 A           Rating current 25°C according to IEC 60947         6.6 A           Rating current 35°C according to IEC 60947         6.5 A           Rating current 40°C according to IEC 60947         6.5 A           Rating current 55°C according to IEC 60947         6.5 A	Neutral position	without neutral
Functions Trip Unit TM A/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 / 415 V Frequency 50/60 Hz  Voltage Rated insulation voltage Metaled insulation voltage No Rated impulse withstand voltage No Electric current Rated current 63 A Thermal protection nob setting xIN 0.63 / 0.8 / 1 Rating current 10°C according to IEC 60947 7.7. A Rating current 25°C according to IEC 60947 6.5. A Rating current 40°C according to IEC 60947 6.5. A Rating current 40°C according to IEC 60947 6.5. A Rating current 40°C according to IEC 60947 6.5. A Rating current 40°C according to IEC 60947 6.5. A Rating current 40°C according to IEC 60947 6.5. A Rating current 40°C according to IEC 60947 6.5. A Rating current 40°C according to IEC 60947 6.5. A Rating current 40°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 50°C according to IEC 60947 6.5. A Rating current 60°C according to IEC 60947 6.5. A Rating current 60°C according to IEC 60947 6.5. A	Number of protected poles	3
Functions Trip Unit TM A/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 / 415 V Frequency S0/60 Hz  Voltage Rated insulation voltage 8 690 V Rated insulation voltage 8 8 kV With under voltage release No  Electric current Rated current 63 A A Thermal protection nob setting xIN 0.63 / 0.8 / 1 Rating current 10°C according to IEC 60947 7.1 / 4 Rating current 20°C according to IEC 60947 6.5 A Rating current 30°C according to IEC 60947 6.5 A Rating current 30°C according to IEC 60947 6.5 A Rating current 40°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 50°C according to IEC 60947 6.5 A Rating current 60°C according to IEC 60947 6.6 A Rating current 60°C according to IEC 60947 6.6 A Rating current 60°C according to IEC 60947 6.6 A Rating current 60°C according to IEC 60947 6.6 A	Number of poles	3 P
Trip Unit TM A/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 / 415 V Frequency 50/60 Hz  Voltage Rated insulation voltage 8 8 kV With under voltage release No  Electric current Rated current 65°C according to IEC 60947 65.3 A Rating current 45°C according to IEC 60947 64.1 A Rating current 45°C according to IEC 60947 65.3 A Rating current 55°C according to IEC 60947 65.3 A Rating current 65°C according to IEC 60947 65.3 A	Type of pole	3P3D
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 / 415 V Frequency 50/60 Hz  Voltage  Rated insulation voltage 8 690 V Rated impulse withstand voltage 8 kV With under voltage release No Electric current  Rated current 65°C according to IEC 60947 69.6 A Rating current 25°C according to IEC 60947 69.5 A Rating current 30°C according to IEC 60947 69.5 A Rating current 45°C according to IEC 60947 69.5 A Rating current 55°C according to IEC 60947 69.1 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.3 A Rating current 55°C according to IEC 60947 69.4 A Rating current 55°C according to IEC 60947 69.4 A Rating current 55°C according to IEC 60947 69.4 A Rating current 55°C according to IEC 60947 69.4 A Rating current 55°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C according to IEC 60947 69.4 A Rating current 65°C acc	Functions	
Controls and indicators  Motor drive integrated No  Main electrical features  Rated operational voltage Ue 220 / 415 V  Frequency 50/60 Hz  Voltage  Rated insulation voltage 88 kV With under voltage release No  Electric current  Rated current 10°C according to IEC 60947 69.6 A Rating current 20°C according to IEC 60947 65.3 A Rating current 30°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A	Trip Unit	TM A/F
Controls and indicators  Motor drive integrated No  Main electrical features  Rated operational voltage Ue 220 / 415 V Frequency 50/60 Hz  Voltage  Rated insulation voltage 699 V Rated insulation voltage 8 kV With under voltage release No  Electric current  Rated current 65°C according to IEC 60947 Rating current 30°C according to IEC 60947 Rating current 45°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	Integrated earth fault protection	No
Motor drive integrated No  Main electrical features  Rated operational voltage Ue 220 / 415 V  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 63 A  Thermal protection nob setting xIN 0.63 / 0.8 / 1  Rating current 10°C according to IEC 60947 71.7 A  Rating current 15°C according to IEC 60947 70.7 A  Rating current 20°C according to IEC 60947 69.6 A  Rating current 30°C according to IEC 60947 69.6 A  Rating current 30°C according to IEC 60947 69.6 A  Rating current 30°C according to IEC 60947 69.6 A  Rating current 30°C according to IEC 60947 69.6 A  Rating current 30°C according to IEC 60947 69.6 A  Rating current 40°C according to IEC 60947 66.4 A  Rating current 40°C according to IEC 60947 65.3 A  Rating current 40°C according to IEC 60947 65.3 A  Rating current 55°C according to IEC 60947 63.4  Rating current 55°C according to IEC 60947 63.4  Rating current 50°C according to IEC 60947 63.4  Rating current 50°C according to IEC 60947 63.4  Rating current 50°C according to IEC 60947 63.8  Rating current 60°C according to IEC 60947 63.9  Rating current 50°C according to IEC 60947 63.9	Concurrently switching N-neutral	No
Main electrical features  Rated operational voltage Ue 220 / 415 V 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 63 A Thermal protection nob setting xIN 0.63 / 0.8 / 1 Rating current 10°C according to IEC 60947 7.1.7 A Rating current 20°C according to IEC 60947 7.0.7 A Rating current 20°C according to IEC 60947 69.6 A Rating current 30°C according to IEC 60947 69.6 A Rating current 30°C according to IEC 60947 65.5 A Rating current 30°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 63. A Rating current 50°C according to IEC 60947 63. A Rating current 50°C according to IEC 60947 63. A Rating current 50°C according to IEC 60947 63. A Rating current 50°C according to IEC 60947 63. A Rating current 50°C according to IEC 60947 63. A Rating current 50°C according to IEC 60947 63. A	Controls and indicators	
Rated operational voltage Ue 50/60 Hz  Voltage  Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No  Electric current  Rated current 63 A Thermal protection nob setting xIN 0.63 / 0.8 / 1 Rating current 10°C according to IEC 60947 71.7 A Rating current 20°C according to IEC 60947 70.7 A Rating current 20°C according to IEC 60947 69.6 A Rating current 25°C according to IEC 60947 67.5 A Rating current 35°C according to IEC 60947 67.5 A Rating current 40°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 65.3 A Rating current 50°C according to IEC 60947 63.4 Rating current 55°C according to IEC 60947 63.4 Rating current 55°C according to IEC 60947 63.8 Rating current 55°C according to IEC 60947 63.8 Rating current 60°C according to IEC 60947 60.6 A Rating current 60°C according to IEC 60947 59.3 A	Motor drive integrated	No
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 65°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	Main electrical features	
Voltage  Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No  Electric current  Rated current 65°C according to IEC 60947 Rating current 35°C according to IEC 60947 Rating current 35°C according to IEC 60947 Rating current 35°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 Rating current 65°C according to IEC 60947 Rating current 65°C according to IEC 60947 Rating current 55°C according to IEC 60947 Rating current 55°C according to IEC 60947 Rating current 65°C according to IEC 60947	Rated operational voltage Ue	220 / 415 V
Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No  Electric current Rated current 65°C according to IEC 60947 Rating current 25°C according to IEC 60947 Rating current 35°C according to IEC 60947 Rating current 35°C according to IEC 60947 Rating current 55°C according to IEC 60947 Rating current 35°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	Frequency	50/60 Hz
Rated impulse withstand voltage 8 kV With under voltage release No  Electric current  Rated current 63 A Thermal protection nob setting xIN 0.63 / 0.8 / 1 Rating current 10°C according to IEC 60947 71.7 A Rating current 15°C according to IEC 60947 70.7 A Rating current 20°C according to IEC 60947 69.6 A Rating current 25°C according to IEC 60947 68.6 A Rating current 30°C according to IEC 60947 67.5 A Rating current 30°C according to IEC 60947 65.3 A Rating current 40°C according to IEC 60947 65.3 A Rating current 45°C according to IEC 60947 65.3 A Rating current 55°C according to IEC 60947 64.1 A Rating current 55°C according to IEC 60947 63.4 Rating current 50°C according to IEC 60947 63.4 Rating current 50°C according to IEC 60947 63.4 Rating current 50°C according to IEC 60947 63.8 Rating current 50°C according to IEC 60947 63.8 Rating current 60°C according to IEC 60947 60.6 A Rating current 60°C according to IEC 60947 59.3 A	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 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  Rating current 60°C according to IEC 60947  Rating current 60°C according to IEC 60947  Solvation of the control o	Rated insulation voltage	690 V
Electric current  Rated current  63 A  Thermal protection nob setting xIN  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 20°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 45°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 50°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  Rating current 65°C according to IEC 60947  Solvant State Sta	Rated impulse withstand voltage	8 kV
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Thermal protection nob setting xIN  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 25°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 45°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 55°C according to IEC 60947  Rating current 65°C according to IEC 60947  Rating current 65°C according to IEC 60947  Rating current 65°C according to IEC 60947  Set 18 A	Electric current	
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Rating current 65°C according to IEC 60947 59.3 A	Rating current 55°C according to IEC 60947	61.8 A
	Rating current 60°C according to IEC 60947	60.6 A
Rating current 70°C according to IEC 60947 58.1 A	Rating current 65°C according to IEC 60947	59.3 A
	Rating current 70°C according to IEC 60947	58.1 A

Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	35 kA
Rated ultimate short-circuit breaking	
capacity Icu under 400V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 kA
Range of the thermal adjustment	40 / 50 / 63 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	25 kA
Dimensions	
Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	75 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Power loss per pole at 0.63*In	4 W
Power loss per pole at 0.8*In	6.3 W
Total power loss at 0.63*In	12.1 W
Total power loss at 0.8*In	18.9 W
Total power loss under IN	30 W
Power loss per pole at In	10 W
Endurance	1000
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Settings	
Range of the magnetic adjustment	1000 A
Equipment	
Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change- over contact	0
Can be accessorized	Yes
Standards	
Standard text	IEC 60947-2
European directive WEEE	concerned
Safety	
Safety REACH conform	Yes
	Yes Yes

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