

57.1 A

55 A

35 kA



HHA064Z

Moulded Case Circuit Breaker h3 x160 TM FIX 4P4D 63A 25kA CTC

Technical characteristics

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 66.6 A Rating current 45°C according to IEC 60947 64.8 A	Technical Characteristics	
Number of poles 4 P P Type of pole 4P4D Functions Trip Unit TM F/F With integrated earth leakage fault protection 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 8 kV With under voltage release No Electric current Rated current 10°C according to IEC 60947 76.4 A Rating current 15°C according to IEC 60947 70. A Rating current 35°C according to IEC 60947 66.6 A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 66.8 A Rating current 40°C according to IEC 60947 66.8 A Rating current 40°C according to IEC 60947 66.8 A Rating current 40°C according to IEC 60947 66.8 A Rating current 40°C according to IEC 60947 66.8 A Rating current 40°C according to IEC 60947 66.8 A Rating current 40°C according to IEC 60947 66.8 A Rating current 40°C according to IEC 60947 66.8 A Rating current 40°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 66.8 A	Architecture	
Type of pole 4P4D Functions Trip Unit TM F/F With integrated earth leakage fault protection 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 1 Rating current 10°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 71.7 A Rating current 35°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 45°C according to IEC 60947 68.3 A Rating current 55°C according to IEC 60947 64.8 A Rating current 55°C according to IEC 60947 63.8 A Rating current 55°C according to IEC 60947 64.8 A Rating current 55°C according to IEC 60947 63.8 A Rating current 55°C according to IEC 60947 63.8 A	Number of protected poles	4
Functions Trip Unit TM F/F With integrated earth leakage fault protection 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 99 690 V Rated impulse withstand voltage 99 8 kV With under voltage release No Electric current Rated current 63 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 20°C according to IEC 60947 71.7 A Rating current 35°C according to IEC 60947 66.6 A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 66.8 A Rating current 45°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 64.8 A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A	Number of poles	4 P
Trip Unit TM F/F With integrated earth leakage fault protection 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 inpulse withstand voltage 8 kV With under voltage release No Electric current Rated current 63 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 71.7 A Rating current 20°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 66.8 A Rating current 45°C according to IEC 60947 66.8 A Rating current 45°C according to IEC 60947 66.8 A Rating current 45°C according to IEC 60947 66.8 A Rating current 45°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A	Type of pole	4P4D
With integrated earth leakage fault protection 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 1 Rating current 10°C according to IEC 60947 7.4.9 A Rating current 20°C according to IEC 60947 7.3.3 A Rating current 30°C according to IEC 60947 7.4.9 A Rating current 30°C according to IEC 60947 7.0 A Rating current 30°C according to IEC 60947 7.0 A Rating current 30°C according to IEC 60947 7.0 A Rating current 30°C according to IEC 60947 7.0 A Rating current 30°C according to IEC 60947 7.0 A Rating current 30°C according to IEC 60947 7.0 A Rating current 40°C according to IEC 60947 6.8.3 A Rating current 40°C according to IEC 60947 6.8.3 A Rating current 40°C according to IEC 60947 6.8.3 A Rating current 40°C according to IEC 60947 6.8.3 A Rating current 40°C according to IEC 60947 6.8.3 A Rating current 40°C according to IEC 60947 6.8.3 A Rating current 40°C according to IEC 60947 6.8.3 A Rating current 40°C according to IEC 60947 6.8.3 A Rating current 50°C according to IEC 60947 6.8.3 A Rating current 50°C according to IEC 60947 6.8.3 A Rating current 50°C according to IEC 60947 6.8.3 A Rating current 50°C according to IEC 60947 6.8.3 A	Functions	
protection 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 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 20°C according to IEC 60947 73.3 A Rating current 20°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 64.8 A	Trip Unit	TM F/F
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 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 20°C according to IEC 60947 73.3 A Rating current 25°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 70.4 A Rating current 35°C according to IEC 60947 70.4 A Rating current 35°C according to IEC 60947 70.4 A Rating current 35°C according to IEC 60947 70.4 A Rating current 45°C according to IEC 60947 70.4 A Rating current 40°C according to IEC 60947 70.4 A Rating current 40°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 66.8 A	9	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 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 20°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 73.3 A Rating current 30°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 70.4 A Rating current 30°C according to IEC 60947 76.4 A Rating current 40°C according to IEC 60947 70.4 A Rating current 40°C according to IEC 60947 70.4 A Rating current 40°C according to IEC 60947 70.4 A Rating current 40°C according to IEC 60947 66.6 A Rating current 40°C according to IEC 60947 66.8 A Rating current 45°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 64.8 A	Controls and indicators	
Rated operational voltage Ue 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 63 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 30°C according to IEC 60947 Rating current 30°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 50°C according to IEC 60947	Motor drive integrated	No
Rated operational voltage Ue 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 63 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 30°C according to IEC 60947 Rating current 30°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 50°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 63 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 15°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 73.3 A Rating current 25°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 70.4 A Rating current 30°C according to IEC 60947 70.4 A Rating current 30°C according to IEC 60947 70.4 A Rating current 30°C according to IEC 60947 70.4 A Rating current 45°C according to IEC 60947 68.3 A Rating current 45°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 64.8 A Rating current 55°C according to IEC 60947 63.4 A Rating current 50°C according to IEC 60947 63.4 A Rating current 55°C according to IEC 60947 63.4 A Rating current 55°C according to IEC 60947 63.4 A Rating current 55°C according to IEC 60947 63.4 A Rating current 55°C according to IEC 60947 63.4 A Rating current 55°C according to IEC 60947 63.4 A		220 / 415 V
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 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 15°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 73.3 A Rating current 20°C according to IEC 60947 71.7 A Rating current 35°C according to IEC 60947 71.7 A Rating current 35°C according to IEC 60947 70. A Rating current 35°C according to IEC 60947 68.3 A Rating current 45°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 66.8 A Rating current 45°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A	Frequency	50/60 Hz
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 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 15°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 73.3 A Rating current 20°C according to IEC 60947 71.7 A Rating current 35°C according to IEC 60947 71.7 A Rating current 35°C according to IEC 60947 70. A Rating current 35°C according to IEC 60947 68.3 A Rating current 45°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 66.8 A Rating current 45°C according to IEC 60947 66.8 A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A Rating current 55°C according to IEC 60947 63. A	Voltago	
Rated impulse withstand voltage Release No Electric current Rated current 63 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 15°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 73.3 A Rating current 25°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 66.6 A Rating current 40°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A Rating current 50°C according to IEC 60947 66.8 A		690 V
Electric current Rated current Rated current Rating 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 30°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 45°C according to IEC 60947 Rating current 40°C according to IEC 60947 Rating current 55°C according to IEC 60947		
Rated current 63 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 15°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 73.3 A Rating current 25°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 35°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 64.8 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 55°C according to IEC 60947 61.1 A		
Rated current 63 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 76.4 A Rating current 15°C according to IEC 60947 74.9 A Rating current 20°C according to IEC 60947 73.3 A Rating current 25°C according to IEC 60947 71.7 A Rating current 30°C according to IEC 60947 70. A Rating current 30°C according to IEC 60947 70. A Rating current 35°C according to IEC 60947 68.3 A Rating current 40°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 64.8 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 55°C according to IEC 60947 61.1 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 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 50°C according to IEC 60947 Rating current 50°C according to IEC 60947 63 A Rating current 50°C according to IEC 60947 63 A		
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 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 50°C according to IEC 60947 Rating current 55°C according to IEC 60947	Rated current	63 A
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 55°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 55°C according to IEC 60947 Rating current 55°C according to IEC 60947 61.1 A	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 40°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 63 A Rating current 55°C according to IEC 60947 61.1 A	Rating current 10°C according to IEC 60947	76.4 A
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 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 63 A Rating current 55°C according to IEC 60947 61.1 A	Rating current 15°C according to IEC 60947	74.9 A
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 45°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 50°C according to IEC 60947 63 A Rating current 55°C according to IEC 60947	Rating current 20°C according to IEC 60947	73.3 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 55°C according to IEC 60947 63 A Rating current 55°C according to IEC 60947 61.1 A	Rating current 25°C according to IEC 60947	71.7 A
Rating current 40°C according to IEC 60947 66.6 A Rating current 45°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 63 A Rating current 55°C according to IEC 60947 61.1 A	Rating current 30°C according to IEC 60947	70 A
Rating current 45°C according to IEC 60947 64.8 A Rating current 50°C according to IEC 60947 63 A Rating current 55°C according to IEC 60947 61.1 A	Rating current 35°C according to IEC 60947	68.3 A
Rating current 50°C according to IEC 60947 63 A Rating current 55°C according to IEC 60947 61.1 A	Rating current 40°C according to IEC 60947	66.6 A
Rating current 55°C according to IEC 60947 61.1 A	Rating current 45°C according to IEC 60947	64.8 A
	Rating current 50°C according to IEC 60947	63 A
Rating current 60°C according to IEC 60947 59.1 A	Rating current 55°C according to IEC 60947	61.1 A
	Rating current 60°C according to IEC 60947	59.1 A

Rating current 65°C according to IEC 60947

Rating current 70°C according to IEC 60947

Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2

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 k <i>A</i>
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 k <i>l</i>
Range of the thermal adjustment	63 A
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	25 k <i>f</i>
Depth of installed product	68 mm
Height of installed product	130 mm
Width of installed product	100 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	21.3 W
Power loss per pole at In	7.1 W
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Connection	
Type of connection	with screw
Settings	
Range of the magnetic adjustment	1000 A
Equipment	
Number of auxiliary contacts as normally closed contact	C
Number of auxiliary contacts as normally open contact	C
Number of auxiliary contacts as change- over contact	C
Can be accessorized	Yes
Standards	
Standard text	IEC 60947-2
Safety	
REACH conform	Yes
RoHS conform	Yes
Halogen free	No
Use conditions	
Degree of pollution according to IEC 60664 / IEC 60947-2	3

temperatur

Temperature of calibration

50 °C