

35 kA



HHA021Z

Moulded Case Circuit Breaker h3 x160 TM FIX 4P4D 20A 25kA CTC

Technical characteristics

Number of protected poles 4 P Number of poles 4 P Type of pole 4PAD Functions Trip Unit TM F/F Integrated earth 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 RV With under voltage release No Electric current Rated current 20°C according to IEC 60947 23.8 A Rating current 35°C according to IEC 60947 20.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A	Architecture	
Type of pole 4P4D Functions Trip Unit TM F/F Integrated earth 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 W Rated insulation voltage Selection No Electric current Rated current 20 No Electric current 20 No Rating current 10°C according to IEC 60947 Againg current 25°C according to IEC 60947 Againg current 40°C according to IEC 60947 Againg current 35°C according to IEC 60947 Againg current 40°C according to IEC 60947 Againg current 40°C according to IEC 60947 Againg current 45°C according to IEC 60947 Againg current 55°C according to IEC 60947 Againg	Number of protected poles	4
Functions Trip Unit TM F/F Integrated earth 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 8 kV With under voltage release No Electric current Rated current 20 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 24.4 A Rating current 20°C according to IEC 60947 23.8 A Rating current 30°C according to IEC 60947 22.6 A Rating current 40°C according to IEC 60947 22.6 A Rating current 40°C according to IEC 60947 22.6 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 55°C according to IEC 60947 20.0 A Rating current 60°C according to IEC 60947 20.0 A Rating current 60°C according to IEC 60947 20.0 A Rating current 60°C according to IEC 60947 20.0 A Rating current 60°C according to IEC 60947 20.0 A Rating current 60°C according to IEC 60947 20.0 A Rating current 65°C according to IEC 60947 20.0 A Rating current 65°C according to IEC 60947 20.0 A Rating current 65°C according to IEC 60947 20.0 A Rating current 65°C according to IEC 60947 20.0 A Rating current 65°C according to IEC 60947 20.0 A Rating current 65°C according to IEC 60947 20.0 A Rating current 65°C according to IEC 60947 20.0 A	Number of poles	4 P
Trip Unit TM F/F Integrated earth 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 8 kV With under voltage release No Electric current Rated current 20 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 24.4 A Rating current 20°C according to IEC 60947 23.8 A Rating current 30°C according to IEC 60947 22.6 A Rating current 30°C according to IEC 60947 22.6 A Rating current 30°C according to IEC 60947 22.6 A Rating current 30°C according to IEC 60947 22.6 A Rating current 30°C according to IEC 60947 22.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 32.8 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 55°C according to IEC 60947 32.6 A Rating current 65°C according to IEC 60947 32.5 A Rating current 65°C according to IEC 60947 32.6 A Rating current 65°C according to IEC 60947 32.5 A Rating current 65°C according to IEC 60947 32.5 A Rating current 65°C according to IEC 60947 32.5 A Rating current 65°C according to IEC 60947 32.5 A Rating current 65°C according to IEC 60947 32.5 A	Type of pole	4P4D
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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 20 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 24.9 A Rating current 20°C according to IEC 60947 24.4 A Rating current 20°C according to IEC 60947 23.2 A Rating current 30°C according to IEC 60947 23.2 A Rating current 30°C according to IEC 60947 22.6 A Rating current 40°C according to IEC 60947 22.6 A Rating current 40°C according to IEC 60947 20.6 A Rating current 50°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20. A Rating current 55°C according to IEC 60947 19.2 A Rating current 60°C according to IEC 60947 19.2 A Rating current 60°C according to IEC 60947 19.5 A Rating current 60°C according to IEC 60947 19.5 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 20 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 24.9 A Rating current 20°C according to IEC 60947 23.8 A Rating current 20°C according to IEC 60947 23.8 A Rating current 25°C according to IEC 60947 23.8 A Rating current 30°C according to IEC 60947 23.8 A Rating current 30°C according to IEC 60947 23.2 A Rating current 35°C according to IEC 60947 22.6 A Rating current 40°C according to IEC 60947 22.6 A Rating current 40°C according to IEC 60947 22.6 A Rating current 50°C according to IEC 60947 22.8 A Rating current 50°C according to IEC 60947 20.6 A Rating current 50°C according to IEC 60947 20.6 A Rating current 50°C according to IEC 60947 20.8 A Rating current 50°C according to IEC 60947 20.8 A Rating current 50°C according to IEC 60947 20.8 A Rating current 50°C according to IEC 60947 20.8 A Rating current 50°C according to IEC 60947 20.8 A Rating current 60°C according to IEC 60947 19.2 A Rating current 60°C according to IEC 60947 19.2 A Rating current 60°C according to IEC 60947 19.2 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 20 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 24.9 A Rating current 20°C according to IEC 60947 23.8 A Rating current 20°C according to IEC 60947 23.8 A Rating current 30°C according to IEC 60947 23.8 A Rating current 30°C according to IEC 60947 22.6 A Rating current 30°C according to IEC 60947 22.6 A Rating current 45°C according to IEC 60947 22.6 A Rating current 45°C according to IEC 60947 22.0 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 30.8 A Rating current 55°C according to IEC 60947 30.8 A Rating current 55°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A	Main electrical features	
Voltage Rated insulation voltage 690 V Rated impulse withstand voltage 8 kV With under voltage release No Electric current Rated current 20 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 24.9 A Rating current 20°C according to IEC 60947 23.8 A Rating current 20°C according to IEC 60947 23.2 A Rating current 25°C according to IEC 60947 23.2 A Rating current 30°C according to IEC 60947 22.6 A Rating current 35°C according to IEC 60947 22.6 A Rating current 40°C according to IEC 60947 22.6 A Rating current 45°C according to IEC 60947 22.6 A Rating current 45°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.6 A Rating current 55°C according to IEC 60947 20.8 A Rating current 55°C according to IEC 60947 30.8 A Rating current 55°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A Rating current 65°C according to IEC 60947 30.8 A	Rated operational voltage Ue	220 / 415 V
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With under voltage releaseNoElectric current20 ARated current20 AThermal protection nob setting xIN1Rating current 10°C according to IEC 6094724.9 ARating current 15°C according to IEC 6094724.4 ARating current 20°C according to IEC 6094723.8 ARating current 25°C according to IEC 6094723.2 ARating current 30°C according to IEC 6094722.6 ARating current 35°C according to IEC 6094722 ARating current 40°C according to IEC 6094721.3 ARating current 45°C according to IEC 6094720.6 ARating current 50°C according to IEC 6094720.4 ARating current 55°C according to IEC 6094719.2 ARating current 55°C according to IEC 6094719.2 ARating current 60°C according to IEC 6094718.5 ARating current 60°C according to IEC 6094718.5 ARating current 65°C according to IEC 6094717.7 A	Rated insulation voltage	690 V
Electric current Rated current 20 A Thermal protection nob setting xIN 1 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 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 50°C according to IEC 60947 Rating current 50°C according to IEC 60947 Rating current 65°C according to IEC 60947	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 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 50°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	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 50°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 19.2 A Rating current 60°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 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 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 19.2 A Rating current 65°C according to IEC 60947	Rating current 10°C according to IEC 60947	24.9 A
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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 Rating current 55°C according to IEC 60947 Rating current 60°C according to IEC 60947 Rating current 60°C according to IEC 60947 18.5 A Rating current 65°C according to IEC 60947	Rating current 25°C according to IEC 60947	23.2 A
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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 17.7 A	Rating current 40°C according to IEC 60947	21.3 A
Rating current 55°C according to IEC 60947 Rating current 60°C according to IEC 60947 19.2 A Rating current 60°C according to IEC 60947 17.7 A	Rating current 45°C according to IEC 60947	20.6 A
Rating current 60°C according to IEC 60947 18.5 A Rating current 65°C according to IEC 60947 17.7 A	Rating current 50°C according to IEC 60947	20 A
Rating current 65°C according to IEC 60947 17.7 A	Rating current 55°C according to IEC 60947	19.2 A
	Rating current 60°C according to IEC 60947	18.5 A
Rating current 70°C according to IEC 60947 16.9 A	Rating current 65°C according to IEC 60947	17.7 A
	Rating current 70°C according to IEC 60947	16.9 A

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 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	25 kA
Range of the thermal adjustment	20 /
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	100 mm
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	8.7 W
Power loss per pole at In	2.9 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	600 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	(
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
	2000 m

temperatur

Temperature of calibration

50 °C