



HDA032Z

Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 32A 18kA CTC

Technical characteristics

Architecture	Arc	hi	it	ec	t	u	r	e
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Number of protected poles Number of poles 7 pye of pole 8 pye of pole 7 pye of pole 7 pye of pole 8 pye of pole 7 pye of pole 8 pye of pole 9 pye o	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 / 415 V Frequency 50/60 Hz Voltage Rated insulation voltage 88 kV With under voltage release No Electric current Rated current 32 A Rating current 10°C according to IEC 60947 Asating current 25°C according to IEC 60947 Asating current 40°C according to IEC 60947 Asating current 45°C according to IEC 60947 Asating current 40°C according to IEC 60947 Asating current 45°C according to IEC 60947 Asating current 45°C according to IEC 60947 Asating current 45°C according to IEC 60947 Asating current 55°C accordin	Number of protected poles	3
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 / 415 V Frequency 50/60 Hz Voltage Rated insulation voltage Metalet insulation voltage No Electric current Rated current 32 A Thermal protection nob setting XIN 1 Rating current 10°C according to IEC 60947 42 A Rating current 15°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 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 35°C according to IEC 60947 37.3 A Rating current 40°C according to IEC 60947 37.3 A Rating current 40°C according to IEC 60947 37.3 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.5 A Rating current 65°C according to IEC 60947 33.5 A	Number of poles	3 P
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 / 415 V Frequency 50/60 Hz Voltage 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 40.9 A Rating current 25°C according to IEC 60947 33.4 A Rating current 40°C according to IEC 60947 33.4 A Rating current 35°C according to IEC 60947 32. A Rating current 35°C according to IEC 60947 33.4 A Rating current 45°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 33.4 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 65°C according to IEC 60947 32. A Rating current 65°C according to IEC 60947 32. 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 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 40.9 A Rating current 20°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 30.4 A Rating current 30°C according to IEC 60947 30.4 A Rating current 40°C according to IEC 60947 30.4 A Rating current 30°C according to IEC 60947 30.4 A Rating current 30°C according to IEC 60947 30.4 A Rating current 30°C according to IEC 60947 30.4 A Rating current 40°C according to IEC 60947 30.4 A Rating current 50°C according to IEC 60947 30.4 A Rating current 40°C according to IEC 60947 30.4 A Rating current 50°C according to IEC 60947 30.4 A Rating current 50°C according to IEC 60947 30.4 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A Rati	Functions	
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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 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 42 A Rating current 20°C according to IEC 60947 39.8 A Rating current 20°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 36.1 A Rating current 40°C according to IEC 60947 36.1 A Rating current 55°C according to IEC 60947 34.7 A Rating current 40°C according to IEC 60947 36.1 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 30.5 A Rating current 55°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 30.5 A	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 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 42 A Rating current 15°C according to IEC 60947 39.8 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 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 40°C according to IEC 60947 36.1 A Rating current 40°C according to IEC 60947 36.1 A Rating current 40°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A	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 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 42 A Rating current 20°C according to IEC 60947 39.8 A Rating current 20°C according to IEC 60947 38.6 A Rating current 30°C according to IEC 60947 36.1 A Rating current 30°C according to IEC 60947 36.1 A Rating current 40°C according to IEC 60947 33.4 A Rating current 40°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 32. A Rating current 55°C according to IEC 60947 32. A Rating current 50°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 28.9 A Rating current 60°C according to IEC 60947 28.9 A Rating current 60°C according to IEC 60947 27.2 A <td>Controls and indicators</td> <td></td>	Controls and indicators	
Rated operational voltage Ue Frequency So/60 Hz Voltage Rated insulation voltage Rated impulse withstand voltage 8 kV With under voltage release No Electric current Rated current Rated current Rating current 10°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 30°C according to IEC 60947 Rating current 25°C according to IEC 60947 Rating current 25°C according to IEC 60947 Rating current 25°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 55°C according to IEC 60947	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 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 42 A Rating current 20°C according to IEC 60947 39.8 A Rating current 20°C according to IEC 60947 39.8 A Rating current 20°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 40°C according to IEC 60947 36.1 A Rating current 40°C according to IEC 60947 34.7 A Rating current 40°C according to IEC 60947 34.7 A Rating current 50°C according to IEC 60947 34.7 A Rating current 50°C according to IEC 60947 32.4 A Rating current 50°C according to IEC 60947 32.4 A Rating current 50°C according to IEC 60947 32.4 A Rating current 50°C according to IEC 60947 32.4 A Rating current 60°C according to IEC 60947 32.5 A Rating current 60°C according to IEC 60947 32.8 A Rating current 60°C according to IEC 60947 32.8 A Rating current 60°C according to IEC 60947 32.9 A Rating current 60°C according to IEC 60947 32.9 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 32 A Thermal protection nob setting xIN 1 Rating current 10°C according to IEC 60947 42 A Rating current 20°C according to IEC 60947 39.8 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 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 40°C according to IEC 60947 36.1 A Rating current 40°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 32.4 A Rating current 50°C according to IEC 60947 32.4 A Rating current 50°C according to IEC 60947 32.4 A Rating current 50°C according to IEC 60947 32.5 A Rating current 60°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 28.9 A Rating current 60°C according to IEC 60947 28.9 A Rating current 65°C according to IEC 60947 28.9 A	Rated operational voltage Ue	220 / 415 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 A Rating current 20°C according to IEC 60947 39.8 A Rating current 20°C according to IEC 60947 39.8 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 40°C according to IEC 60947 36.1 A Rating current 40°C according to IEC 60947 34.7 A Rating current 50°C according to IEC 60947 33.4 A Rating current 50°C according to IEC 60947 32.4 A Rating current 50°C according to IEC 60947 30.5 A Rating current 50°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 28.9 A Rating current 60°C according to IEC 60947 28.9 A Rating current 60°C according to IEC 60947 28.9 A	Frequency	50/60 Hz
Rated impulse withstand voltage Robots 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 A Rating current 15°C according to IEC 60947 40.9 A Rating current 20°C according to IEC 60947 39.8 A Rating current 25°C according to IEC 60947 38.6 A Rating current 30°C according to IEC 60947 37.3 A Rating current 30°C according to IEC 60947 37.3 A Rating current 35°C according to IEC 60947 36.1 A Rating current 40°C according to IEC 60947 34.7 A Rating current 45°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 A Rating current 55°C according to IEC 60947 33.4 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 32.8 A Rating current 60°C according to IEC 60947 32.8 A Rating current 60°C according to IEC 60947 32.8 A Rating current 60°C according to IEC 60947 32.8 A Rating current 60°C according to IEC 60947 32.9 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 30°C according to IEC 60947 Rating current 30°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	Rated insulation voltage	690 V
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Rated current 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 45°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 65°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 28.9 A Rating current 65°C according to IEC 60947	With under voltage release	No
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 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 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 65°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 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 65°C according to IEC 60947	Rating current 10°C according to IEC 60947	42 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 50°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 Rating current 60°C according to IEC 60947 Rating current 65°C according to IEC 60947 27.2 A	Rating current 15°C according to IEC 60947	40.9 A
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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 27.2 A	Rating current 30°C according to IEC 60947	37.3 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 65°C according to IEC 60947 28.9 A Rating current 65°C according to IEC 60947 27.2 A	Rating current 35°C according to IEC 60947	36.1 A
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Rating current 55°C according to IEC 60947 30.5 A Rating current 60°C according to IEC 60947 28.9 A Rating current 65°C according to IEC 60947 27.2 A	Rating current 45°C according to IEC 60947	33.4 A
Rating current 60°C according to IEC 60947 28.9 A Rating current 65°C according to IEC 60947 27.2 A	Rating current 50°C according to IEC 60947	32 A
Rating current 65°C according to IEC 60947 27.2 A	Rating current 55°C according to IEC 60947	30.5 A
	Rating current 60°C according to IEC 60947	28.9 A
Rating current 70°C according to IEC 60947 25.4 A	Rating current 65°C according to IEC 60947	27.2 A
	Rating current 70°C according to IEC 60947	25.4 A

Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	25 k
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	25 k
Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2	18 k
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	18 k
Range of the thermal adjustment	32
Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2	18 k
Dimensions	
Depth of installed product	68 m
Height of installed product	130 m
Width of installed product	75 m
Frequency	
Frequency	50 to 60 H
Power	
Total power loss under IN	8.4
Power loss per pole at In	2.8
Endurance	
Electric endurance in number of cycles	100
Number of mechanical operations	400
Connection	
Type of connection	with scre
Settings	
Range of the magnetic adjustment	600
Equipment	
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	Yı
Standards	
Standard text	IEC 60947
Safety	
REACH conform	Y
RoHS conform	Y
	1
Halogen free	
Halogen free Use conditions	

Altitude 2000 m
temperatur

50 °C

Temperature of calibration