



HA356

## Load break switch 3P 400A

## **Technical properties**

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Type of case Fixed built-in Functions  Reversing switch No  Controls and indicators  Motor drive integrated No  Main electrical features  Rated operational voltage Ue 380 / 415 v  Voltage  Rated insulation voltage 1000 v  Rated impulse withstand voltage 12000 v  Electric current  Rated operational current in AC21 category B  Acceptable current rating with AC22 category A  Cut off current 6.5 kA  Rated short-time withstand current 1s  Short-circuit current with gl-gG fuses S  Rated operational current in AC21 category A  Acceptable current rating with AC22 category B  Rated operational current in AC21 category A  Acceptable current rating with AC22 category B  Rated operational current in AC21 category A  Acceptable current rating with AC22 category B  Acceptable current rating with AC22 category B  Acceptable current rating with AC23 category A  Acceptable current rating with AC23 category B  Acceptable current rating with AC24 category B	Type of order	Long thumb-grip
Fixed built-in Functions  Reversing switch  Controls and indicators  Motor drive integrated  Main electrical features  Rated operational voltage Ue  380 / 415 v  Voltage  Rated insulation voltage  Rated insulation voltage  Rated insulation voltage  Rated operational current in AC21category  B  Acceptable current rating with AC22 category A  Cut off current  Rated current  Short-circuit current with gl-gG fuses  Rated short-time withstand current 1s  Thermal rated current outside of housings  Rated operational current in AC21 category  Acceptable current rating with AC22 category A  Acceptable current with gl-gG fuses  Rated short-time withstand current 1s  Thermal rated current outside of housings  Rated operational current in AC21 category  Acceptable current rating with AC22 category B  Rated operational current in AC23 category  Acceptable current rating with AC23 category B  Conventional thermal current under enclosure at 40°C  400 A  Conventional thermal current under enclosure at 40°C  400 A	Number of poles	3 P
Functions  Reversing switch No  Controls and indicators  Motor drive integrated No  Main electrical features  Rated operational voltage Ue 380 / 415 v  Voltage  Rated insulation voltage 1000 v  Rated impulse withstand voltage 12000 v  Electric current  Rated operational current in AC21category B  Acceptable current rating with AC22 category A  Cut off current 6.5 kA  Rated current with gl-gG fuses 50 kA  Rated short-time withstand current 1s 13 kA  Thermal rated current outside of housings 400 A  Raceptable current rating with AC22 category A  Acceptable current rating with AC22 category A  Acceptable current rating with AC22 category A  Acceptable current in AC21 category A  Acceptable current rating with AC22 category B  Rated operational current in AC23 category A  Acceptable current rating with AC23 category B  Rated operational current in AC23 category A  Acceptable current rating with AC23 category B  Rated operational thermal current under enclosure at 40°C 400 A  Conventional thermal current under enclosure at 40°C 400 A	Type of pole	3 P
Reversing switch  Controls and indicators  Motor drive integrated  Motor drive integrated  Main electrical features  Rated operational voltage Ue  380 / 415 V  Voltage  Rated insulation voltage  Rated insulation voltage  Rated inpulse withstand voltage  12000 V  Electric current  Rated operational current in AC21 category B  ACceptable current rating with AC22  category A  ACUt off current  Rated current  ARated current  Short-circuit current with gl-gG fuses  Rated short-time withstand current 1s  13 kA  Thermal rated current outside of housings  Rated operational current in AC21 category A  Acceptable current rating with AC22  category B  Rated operational current in AC21 category A  Acceptable current rating with AC22  category B  Rated operational current in AC23 category A  Acceptable current rating with AC23  category B  Acceptable current rating with AC23  category B  Conventional thermal current under enclosure at 40°C  400 A  Conventional thermal current under enclosure at 40°C  400 A	Type of case	Fixed built-in
Motor drive integrated No  Main electrical features Rated operational voltage Ue 380 / 415 V  Voltage Rated insulation voltage 1000 V Rated impulse withstand voltage 12000 V  Rated operational current in AC21 category B Acceptable current ating with AC22 category A 400 A Rated current 400 A Rated current 400 A Rated operational current in AC21 category B Rated operational current with gl-gG fuses 50 kA Rated current 400 A Rated operational current in AC21 category A 400 A Rated operational current with gl-gG fuses 50 kA Rated operational current in AC21 category A 400 A Acceptable current ating with AC22 category A 400 A Acceptable current rating with AC22 category A 400 A Acceptable current rating with AC22 category B 400 A Acceptable current rating with AC23 category B Rated operational current in AC23 category B Acceptable current rating with AC23 category B Conventional thermal current under enclosure at 40°C 400 A	Functions	
Main electrical features Rated operational voltage Ue 380 / 415 v  Voltage Rated insulation voltage 1000 v Rated insulation voltage 12000 v  Rated operational current in AC21category 12000 v  Electric current Rated operational current in AC21category 12000 v  Acceptable current rating with AC22 category 12000 v  Cut off current 12000 v  Short-circuit current with gl-gG fuses 12000 v  Acceptable current outside of housings 12000 v  Acceptable current outside of housings 12000 v  Acceptable current rating with AC22 category 12000 v  Acceptable current in AC21 category 12000 v  Acceptable current in AC21 category 12000 v  Acceptable current ating with AC22 category 12000 v  Acceptable current rating with AC23 category 12000 v  Acceptable curre	Reversing switch	No
Main electrical features Rated operational voltage Ue 380 / 415 v  Voltage Rated insulation voltage 1000 v  Rated impulse withstand voltage 12000 v  Electric current Rated operational current in AC21category B 400 A  Acceptable current rating with AC22 category A 400 A  Cut off current 6.5 kA  Rated current with gl-gG fuses 50 kA  Rated short-time withstand current 1s 13 kA  Thermal rated current outside of housings 400 A  Acceptable current in AC21 category 400 A  Acceptable current acting with AC22 category A 400 A  Acceptable current in AC21 category A 400 A  Acceptable current rating with AC22 category A 400 A  Acceptable current rating with AC23 category A 400 A  Conventional current rating with AC23 category B 400 A  Acceptable current rating with AC23 category B 400 A  Conventional thermal current under enclosure at 40°C 400 A	Controls and indicators	
Rated operational voltage Ue 380 / 415 V  Voltage  Rated insulation voltage 1000 V  Rated impulse withstand voltage 12000 V  Electric current  Rated operational current in AC21category B 400 A  Acceptable current rating with AC22 category A 400 A  Cut off current 6.5 kA  Rated current  Short-circuit current with gl-gG fuses 50 kA  Rated short-time withstand current 1s 13 kA  Thermal rated current outside of housings 400 A  Acceptable current rating with AC22 category A 400 A  Acceptable current in AC21 category A 400 A  Acceptable current rating with AC22 category B 400 A  Acceptable current rating with AC22 category B 400 A  Conventional turrent rating with AC23 category B 400 A  Acceptable current rating with AC23 category B 400 A  Conventional thermal current under enclosure at 40°C 400 A  Dimensions	Motor drive integrated	No
Woltage Rated insulation voltage 1000 V Rated impulse withstand voltage 12000 V Electric current Rated operational current in AC21category B 400 A Acceptable current rating with AC22 category A 400 A Cut off current 6.5 kA Rated current with gl-gG fuses 50 kA Rated short-time withstand current 1s 13 kA Thermal rated current outside of housings 400 A Rated operational current in AC21 category A 400 A Acceptable current rating with AC22 category B 400 A Caceptable current rating with AC23 category B 400 A Conventional thermal current under enclosure at 40°C 400 A Conventional thermal current under enclosure at 40°C 400 A Conventional States ACCEPTAGE	Main electrical features	
Rated insulation voltage 1000 V Rated impulse withstand voltage 12000 V  Electric current Rated operational current in AC21category B 400 A Acceptable current rating with AC22 category A 400 A Cut off current 6.5 kA Rated current 400 A Short-circuit current with gl-gG fuses 50 kA Rated short-time withstand current 1s 13 kA Thermal rated current outside of housings 400 A Acceptable current rating with AC22 category B 400 A Acceptable current rating with AC22 category B 400 A Acceptable current rating with AC23 category B 400 A Acceptable current rating with	Rated operational voltage Ue	380 / 415 V
Rated impulse withstand voltage  Electric current  Rated operational current in AC21category B Acceptable current rating with AC22 category A Acceptable current  Cut off current AC21 category A AC3 category A AC40 A AC5 kA Rated current AC5 kA Rated current AC5 kA Rated short-circuit current with gl-gG fuses AC6 kA Rated short-time withstand current 1s AC7 kA AC4 current AC40 A AC40 category A AC40 A AC40 category B AC6 conventional current in AC23 category AC7 AC6 category B AC6 conventional thermal current under enclosure at 40°C AC6 Dimensions	Voltage	
Electric current  Rated operational current in AC21category B  Acceptable current rating with AC22 category A  Cut off current  Example 2	Rated insulation voltage	1000 V
Rated operational current in AC21category B 400 A Acceptable current rating with AC22 category A 400 A Cut off current 6.5 kA Rated current 400 A Short-circuit current with gl-gG fuses 50 kA Rated short-time withstand current 1s 13 kA Thermal rated current outside of housings 400 A Rated operational current in AC21 category A Acceptable current rating with AC22 category B Acceptable current rating with AC23 category B Acceptable current rating	Rated impulse withstand voltage	12000 V
Acceptable current rating with AC22 Category A 400 A Cut off current 6.5 kA Rated current 400 A Short-circuit current with gl-gG fuses 50 kA Rated short-time withstand current 1s 13 kA Thermal rated current outside of housings 400 A Rated operational current in AC21 category A Acceptable current rating with AC22 Category B 400 A Acceptable current rating with AC23 Category B 400 A Acceptable current rating with AC23 Category B 400 A Acceptable current rating with AC23 Category B 400 A Acceptable current rating with AC23 Category B 400 A Acceptable current rating with AC23 Category B 400 A Acceptable current rating with AC23 Category B 400 A Acceptable current rating with AC23 Category B 400 A Acceptable current rating with AC23 Category B 400 A Acceptable current rating with AC23 Conventional thermal current under enclosure at 40°C 400 A Acceptable current at 40°C 400 A Acceptable current at 40°C 400 A	Electric current	
Cut off current  Cut of	Rated operational current in AC21category B	400 A
Rated current 400 A Short-circuit current with gl-gG fuses 50 kA Rated short-time withstand current 1s 13 kA Thermal rated current outside of housings 400 A Rated operational current in AC21 category 400 A Acceptable current rating with AC22 category B 400 A Rated operational current in AC23 category 400 A Acceptable current rating with AC23 category B 400 A Acceptable current rating with AC23 category B 400 A Acceptable current rating with AC23 category B 400 A Acceptable current rating with AC23 category B 400 A Conventional thermal current under enclosure at 40°C 400 A	Acceptable current rating with AC22 category A	400 A
Short-circuit current with gl-gG fuses 50 kA Rated short-time withstand current 1s 13 kA Thermal rated current outside of housings 400 A Rated operational current in AC21 category A 400 A Acceptable current rating with AC22 category B 400 A Rated operational current in AC23 category A 400 A Acceptable current rating with AC23 category B 400 A Acceptable current rating with AC23 category B 400 A Acceptable current rating with AC23 category B 400 A Acceptable current rating with AC23 category B 400 A Conventional thermal current under enclosure at 40°C 400 A	Cut off current	6.5 kA
Rated short-time withstand current 1s  Thermal rated current outside of housings  Rated operational current in AC21 category A  Acceptable current rating with AC22 category B  Rated operational current in AC23 category A  Acceptable current rating with AC23 category B  Acceptable current rating with AC23 category B  Acceptable current rating with AC23 category B  Conventional thermal current under enclosure at 40°C  Dimensions	Rated current	400 A
Thermal rated current outside of housings  Rated operational current in AC21 category A  Acceptable current rating with AC22 category B  Rated operational current in AC23 category A  Acceptable current rating with AC23 category B  Acceptable current rating with AC23 category B  Conventional thermal current under enclosure at 40°C  A00 A  Dimensions	Short-circuit current with gl-gG fuses	50 kA
Rated operational current in AC21 category A Acceptable current rating with AC22 category B A Rated operational current in AC23 category A Acceptable current rating with AC23 category B A Acceptable current rating with AC23 category B A Conventional thermal current under enclosure at 40°C A00 A Acceptable current value	Rated short-time withstand current 1s	13 kA
A 400 A Acceptable current rating with AC22 category B 400 A Rated operational current in AC23 category A 400 A Acceptable current rating with AC23 category B 400 A Conventional thermal current under enclosure at 40°C 400 A	Thermal rated current outside of housings	400 A
Rated operational current in AC23 category A Acceptable current rating with AC23 category B ACONVENTIONAL CURRENT UNDER CONVENTIONAL CURRENT UNDER CONVENTIO	Rated operational current in AC21 category A	400 A
A 400 A Acceptable current rating with AC23 category B 400 A Conventional thermal current under enclosure at 40°C 400 A  Dimensions	Acceptable current rating with AC22 category B	400 A
Acceptable current rating with AC23 category B 400 A  Conventional thermal current under enclosure at 40°C 400 A  Dimensions	Rated operational current in AC23 category	400 A
Dimensions 400 A	Acceptable current rating with AC23 category B	400 A
	Conventional thermal current under enclosure at 40°C	400 A
	Dimensions	
Depth of installed product	Depth of installed product	165 mm
	Height of installed product	235 mm

Width of installed product	230 mm
Power	
Nominal power under 440/500, 50Hz	150 kW
Total power loss under IN	32.4 W
Power loss per pole at In	10.8 W
Contact rating with 400 V in AC1	263 kW
Cover, door	
Interlockable	Yes
Installation, mounting	
Fixation type	Back plate monting
Connection	
Connection cross-sect. flexible conductor	185mm²
Connection cross-sect. rigid cable	1x240mm²
Type of connection	Terminal
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
Width available for insulation connection	185 mm²
Motor drive optional	No
Safety	
REACH conform	Yes
RoHS conform	Yes
Halogen free	Yes
Use conditions	

-20...70 °C

Operating temperature