



HI451



**Change-over switch 4P 125A**

**Technical properties**

**Architecture**

Type of order	Long thumb-grip
Number of poles	4 P
Type of pole	4 P
Type of case	Fixed built-in

**Functions**

Reversing switch	Yes
------------------	-----

**Controls and indicators**

Motor drive integrated	No
------------------------	----

**Main electrical features**

Rated operational voltage Ue	380 / 400 / 500 / 690 V
Frequency	50/60 Hz

**Voltage**

Rated insulation voltage	800 V
Rated impulse withstand voltage	8000 V
Rated operational voltage in DC	260 / 400 / 500 V

**Electric current**

Rated operational current in AC21category B	125 A
Acceptable current rating with AC22 category A	125 A
Rated current	125 A
Short-circuit current with gI-gG fuses	100 kA
Breaking capacity 400V/AC23A	1000 A
Closing ability with 400V in AC23A	1250 A
Making capacity in peak short circuit	12 A
Rated short-time withstand current 1s	7 kA
Thermal rated current outside of housings	125 A
Rated operational current in AC21 category A	125 A
Acceptable current rating with AC22 category B	125 A
Rated operational current in AC23 category A	125 A
Acceptable current rating with AC23 category B	125 A

**Power**

Nominal power under 440/500, 50Hz	80 kW
Nominal power under 660 V, 50 Hz	110 kW
Active power under 380/415 V, 50 Hz	63 kW
Total power loss under IN	5.4 W
Power loss per pole at In	1.9 W
Contact rating with 400 V in AC1	82 kW

**Endurance**

Electrical durability at nominal load in AC21 in operating cycles	1000
Electrical durability at nominal load in AC22 in operating cycles	200
Number of mechanical operations	10000

**Cover, door**

Interlockable	Yes
---------------	-----

**Installation, mounting**

Tightening torque	9 - 9.9 Nm
-------------------	------------

**Connection**

Connection cross-sect. rigid cable	35 / 50mm <sup>2</sup>
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
Motor drive optional	No

**Safety**

REACH conform	Yes
RoHS conform	Yes

**Use conditions**

Air humidity protection	yes according to IEC 68-2-30
-------------------------	------------------------------