



HCF990H

Switch h1600 3P 1600A

Product Datasheet

Architecture

Type of order	Toggle
Neutral position	without neutral
Number of poles	3 P
Type of pole	3 P

Functions

Reversing switch	no
Trip Unit	SWITCH

Main electrical features

Rated operational voltage Ue	220 / 690 V
Frequency	50/60 Hz

Voltage

Rated insulation voltage	800 V
Rated impulse withstand voltage	8 kV

Electric current

Rated current	1600 A
Rated operational current in AC21	1600 A
Rated short-circuit making capacity I _{cm} under 240V AC according IEC 60947-3	45 kA
Rated short-circuit making capacity I _{cm} under 415V AC according IEC 60947-3	45 kA
Rated short-circuit making capacity I _{cm} under 690V AC according IEC 60947-3	45 kA

Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	1
Correction factor of rating current for 4 and 5 devices placed side-by-side	1
Correction factor of rating current for 6 devices placed side-by-side	1

Power

Total power loss under I _N	168,9 W
Power loss per pole at I _n	56,3 W
Contact rating with 400 V in AC1	1053 kW

Tripping

Time of response when opening	10 ms
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Endurance

Electric endurance in number of cycles	4500
Number of mechanical operations	15000

Cover, door

Interlockable	yes
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Materials

Toggle colour	Black
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Installation, mounting

Tightening torque	65Nm
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Connection

Connection cross-sect. flexible conductor	3x240mm ²
Connection cross-sect. rigid cable	3x240mm ²
Connection	Front connection
Type of connection	Terminal

Equipment

Motor drive optional	yes
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Use cases

Category of use	A
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Standards

Standard text	IEC 60947-3
European directive WEEE	concerned

Safety

Protection index IP	IP4X
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Use conditions

Operating temperature	-25...70 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	3
Altitude	2000 m
Air humidity protection	85% / 50°C
Storage/transport temperature	-35...70 °C