

Switch h1600 3P 1600A

HCF990H

Architecture

Neutral position Number of poles Type of pole Functions Reversing switch Trip Unit Controls and indicators Motor drive integrated Main electrical features Frequency Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	Fixed built-in without neutral BP BP BP BSP BSP BSWITCH
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Functions Reversing switch Trip Unit Controls and indicators Motor drive integrated Main electrical features Frequency Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	10
Reversing switch Trip Unit Controls and indicators Motor drive integrated Main electrical features Frequency Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	
Trip Unit Controls and indicators Motor drive integrated Main electrical features Frequency Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	
Controls and indicators Motor drive integrated Main electrical features Frequency Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	SWITCH
Main electrical features Frequency Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	
Main electrical features Frequency Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	
Frequency Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	10
Rated operational voltage Ue Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	
Voltage Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	50/60 Hz
Rated insulation voltage Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	220/690 V
Rated impulse withstand voltage Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	
Electric current Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	300 V
Rated operational current in AC21 Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	3000 V
Rated short-circuit making capacity Icm under 240V AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	
AC according IEC 60947-3 Rated short-circuit making capacity Icm under 415V AC according IEC 60947-3 Rated short-time withstand current Icw	1600 A
AC according IEC 60947-3 Rated short-time withstand current Icw	100071
Rated short-time withstand current lcw	15 kA
Rated short-time withstand current 0.3S	15 kA 15 kA
	15 kA 15 kA 20 kA
Current correction factors	15 kA 15 kA
Correction factor of rating current for 2 devices placed side-by-side	15 kA 15 kA 20 kA

side-by-side

Correction factor of rating current for 3 devices placed 1



Technical Properties Correction factor of reting ourrent for 4 and 5 devices	2 1	
Correction factor of rating current for 4 and 5 devices placed side-by-side	5 I	
Correction factor of rating current for 6 devices placed 1		
side-by-side		
Power		
Contact rating with 400 V in AC1	1053 kW	
Power loss per pole at In	56,3 W	
Total power loss under IN	168,9 W	
Tripping		
Time of response when opening	10 ms	
Endurance		
Electric endurance in number of cycles	4500	
Number of mechanical operations	15000	
·		
Cover, door		
Interlockable	yes	
	,,,,	
Materials		
Toggle colour	Black	
Installation, mounting		
Tightening torque	65Nm	
rigiteiling torque	CONTIN	
Connection		
Connection areas asset rigid cable	3x240mm²	
Connection cross-sect. rigid cable Connection cross-sect. flexible conductor	3x240mm²	
Connection	Front connection	
Type of connection	Terminal	
Equipment		
Motor drive optional	yes	
·	•	
Use cases		
Category of use	A	
cutegory of doc	,	
Standards		
Standard text	IEC 60947-3	
European directive WEEE	concerned	
Safety		
Protection index IP	IP4X	
Trocodor mack ii		
Use conditions		
Degree of pollution according to IEC 60664 / IEC	3	
60947-2	3	
Altitude	2000 m	
Storage temperature	-35 to 70 °C	

Product data sheet HCF990H



Technical Properties
Air humidity protection 85% / 50°C