# Product Data Sheet HMK490





HMK490

### MCB 4P 30kA C-100A 6M

Product Datasheet

Architecture	
Number of protected poles	4
Number of poles	4 P
Type of pole	4 P
Curve	C
Functions	
Concurrently switching N-neutral	no
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	30 kA
Rated operational voltage Ue	415 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	6000 V

#### Electric current

Rated current	100 A
min/maxi threshold value of the AC thermal operation	1,13 / 1,45 ln
Magnetic regulating currrent	5 / 10 In
Rating current 10°C according to IEC 60947	124 A
Rating current 150°C according to IEC 60947	120 A
Rating current 20°C according to IEC 60947	116 A
Rating current 25°C according to IEC 60947	112 A
Rating current 30°C according to IEC 60947	108 A
Rating current 35°C according to IEC 60947	104 A
Rating current 40°C according to IEC 60947	100 A
Rating current 45°C according to IEC 60947	96,6 A
Rating current 50°C according to IEC 60947	93,1 A
Rating current 55°C according to IEC 60947	89,4 A
Rating current 60°C according to IEC 60947	85,6 A
Rating current 65°C according to IEC 60947	81,6 A
Rating current 70°C according to IEC 60947	77,5 A
Rated ultimate short-circuit breaking capacity lcu AC IEC 60947-2	30 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	4,5 kA
Breaking capacity on 1 pole for IT 415V NF 60947-2	4,5 kA
Rated service breaking capacity Ics AC according IEC 60947-2	25 %
Rated ultimate short-circuit breaking capacity lcu under 230V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity lcu under 240V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity lcu under 400V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity lcu under 415V AC IEC 60947-2	30 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
Frequency	
Frequency	50 to 60 Hz
Power	
Total power loss under IN	28,1 W
Power loss per pole at In	7,74 W

# :hager

Number of mechanical operations		
	20000	
Dimensions		
Depth of installed product	70 mm	
Height of installed product	90 mm	
Width of installed product	106 mm	
Installation, mounting		
Type of top connection for modular devices	with screw	
Tightening torque	3,5 to 5Nm	
Type of top rail clip for modular devices	Plastic	
Type of bottom rail clip for modular devices	plastic	
Type of Bottom Connection for modular devices	with screw	
Top removability for modular devices	yes	
Bottom removability for modular devices	yes	
360° product mounting position	yes	
Connection		
Connection cross-section at output with screw, for flexible conductor	1 / 50 mm²	
Connection cross-section at output with screw, for massive conductor	1 / 70 mm²	
Connection cross-sect. flexible conductor	50mm <sup>2</sup>	
Connection cross-sect. rigid cable	70mm²	
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 70 mm²	
Connection cross-section of the access with screws, with flexible conductor	1 / 50 mm²	
Connection cross-section of input and output with screws, for massive conductors	1 / 70 mm²	
Connection cross section of access and exit with screws, for flexible conductor	1 / 50 mm²	
Type of connection	terminal with tightening compensation system	
Nominal tightening torque bottom terminal	3,6 Nm	
Nominal tightening torque top terminal	3,6 Nm	
Standards		
Standard text	IEC 60947-2	
European directive WEEE	concerned	
Product categories described in the W3E directive 2012/19/EU	Category 5	

Protection index IP	IP20
---------------------	------

40 °C

## Use conditions

egree of pollution according to IEC 60664 / IEC 0947-2	3
ltitude	2000 m
ir humidity protection	for all climates

### temperatur

Temperature of calibration	
----------------------------	--